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ENVIRONMENTAL ASSESSMENT

DETERMINATIONS AND COMPLIANCE FINDINGS FOR HUD-ASSISTED PROJECTS

24 CFR PART 58

Project Identification:	The Phoenix Project 801 Pine Street Oakland, California 94607
Responsible Entity:	City of Oakland
Preparer:	LSA Associates, Inc.
Month/Year:	November 2022

LSA

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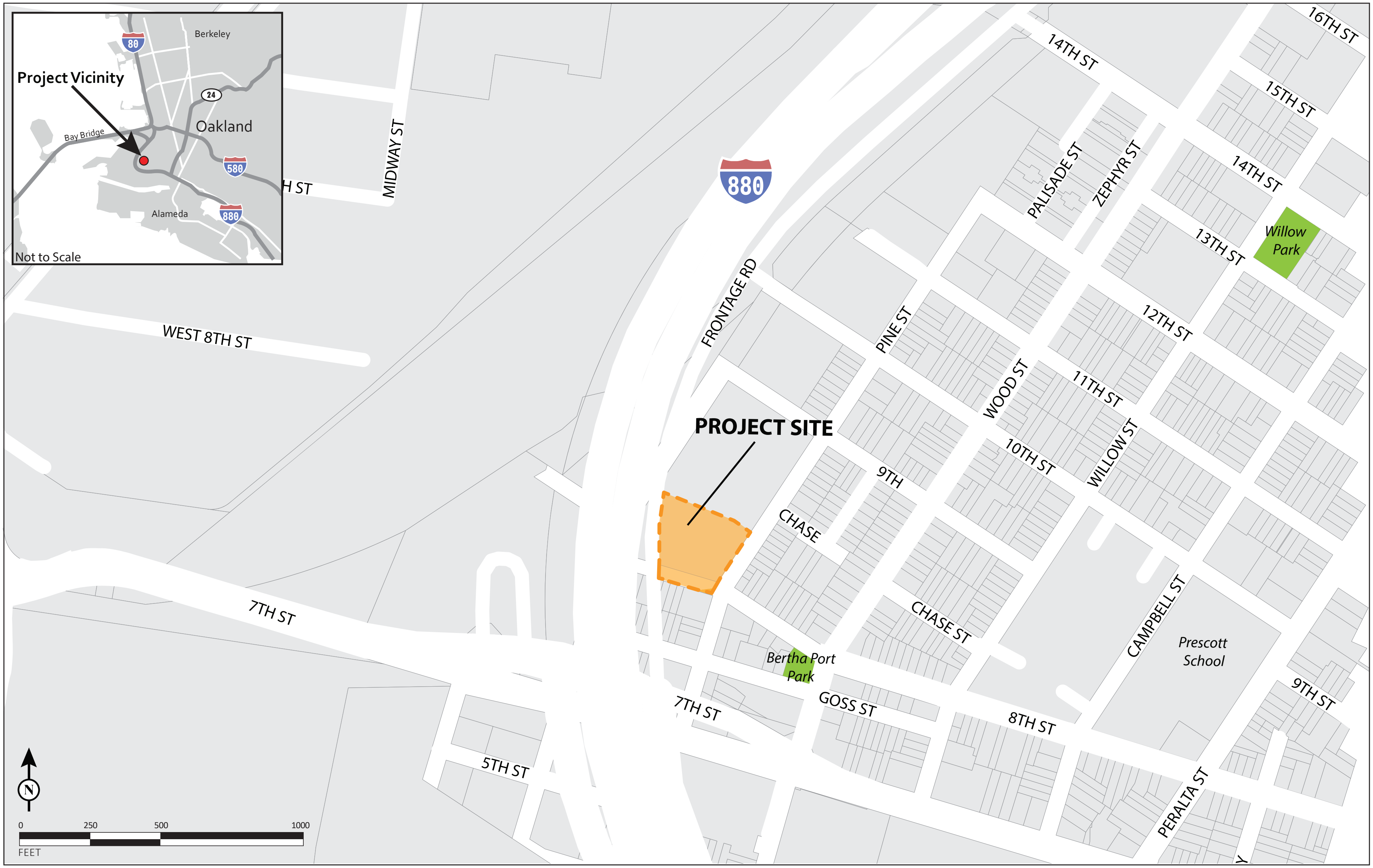
PROJECT INFORMATION

Project Name:	The Phoenix Project
Responsible Entity:	City of Oakland Bureau of Planning 250 Frank H. Ogawa Plaza, Suite 2114 Oakland, CA 94612
Grant Recipient (if different than Responsible Entity):	City of Oakland Housing Authority 1619 Harrison Street Oakland, CA 94612
State/Local Identifier:	ES20003
Preparer:	LSA Associates, Inc.
Certifying Officer Name and Title:	William Gilchrist, Director of Planning & Building
Consultant (if applicable):	LSA Associates, Inc. 157 Park Place Pt. Richmond, CA (510) 236-6810
Direct Comments to:	Heather Klein, Planner IV 250 Frank Ogawa Plaza, Suite 2114 Oakland, CA 94612 (510) 238-3659 hklein@oaklandca.gov
Project Location:	801 Pine Street (800 Cedar Street) Oakland, CA 94607 (APN 006-0047-001-00)

Following are Figure 1 that shows the project location and regional vicinity, Figure 2 that provides a detailed location of the project site, and Figures 3 that shows the project site parcel map.



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🟧 Project Site

🟩 Parks

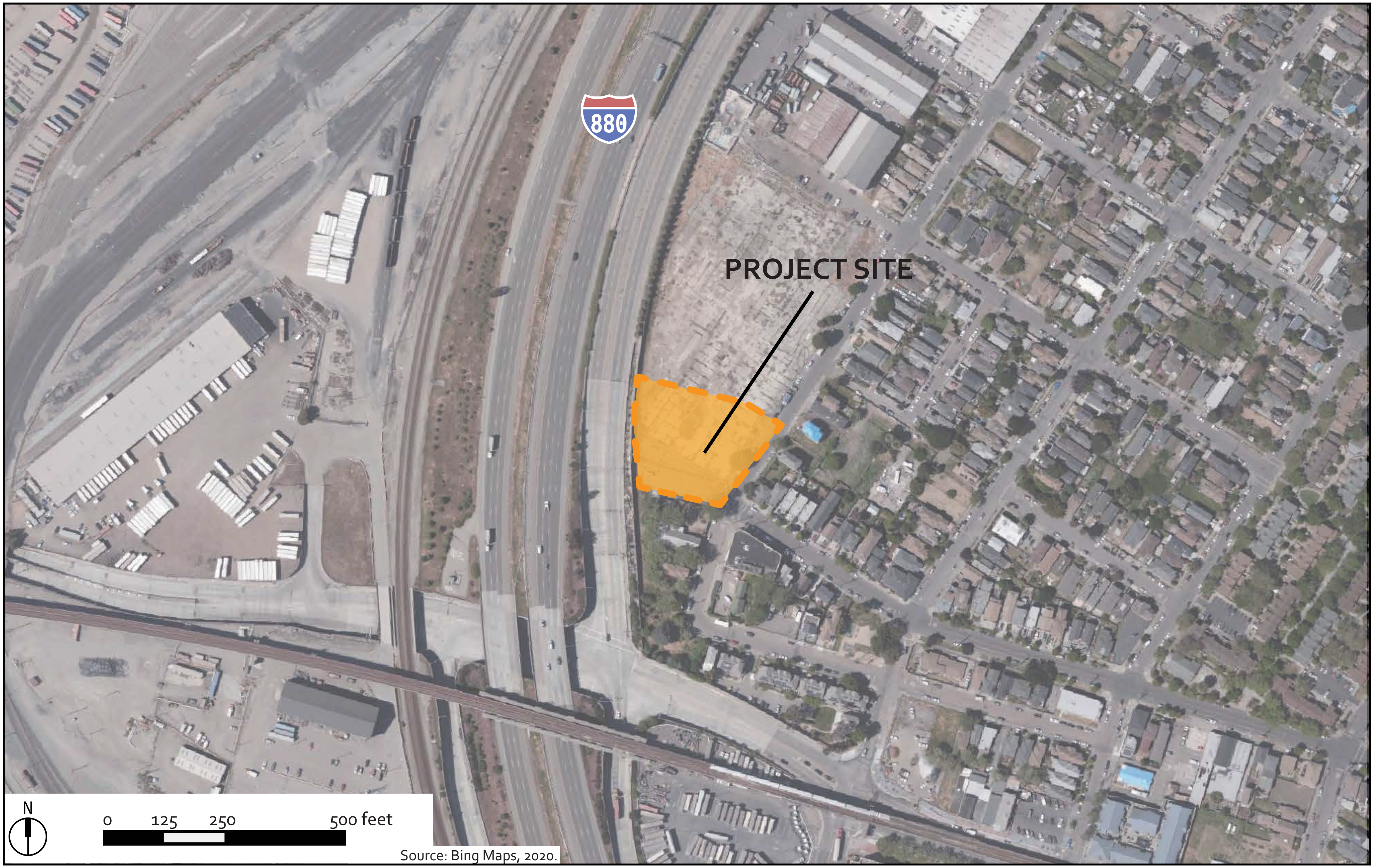
FIGURE 1

Phoenix Project EA/FONSI
Project Location and Vicinity

SOURCE: Urban Planning Partners (2018)

I:\BEC2201\G\Figure 1_Project Location & Vicinity.ai (8/4/2022)

ADMINISTRATIVE DRAFT



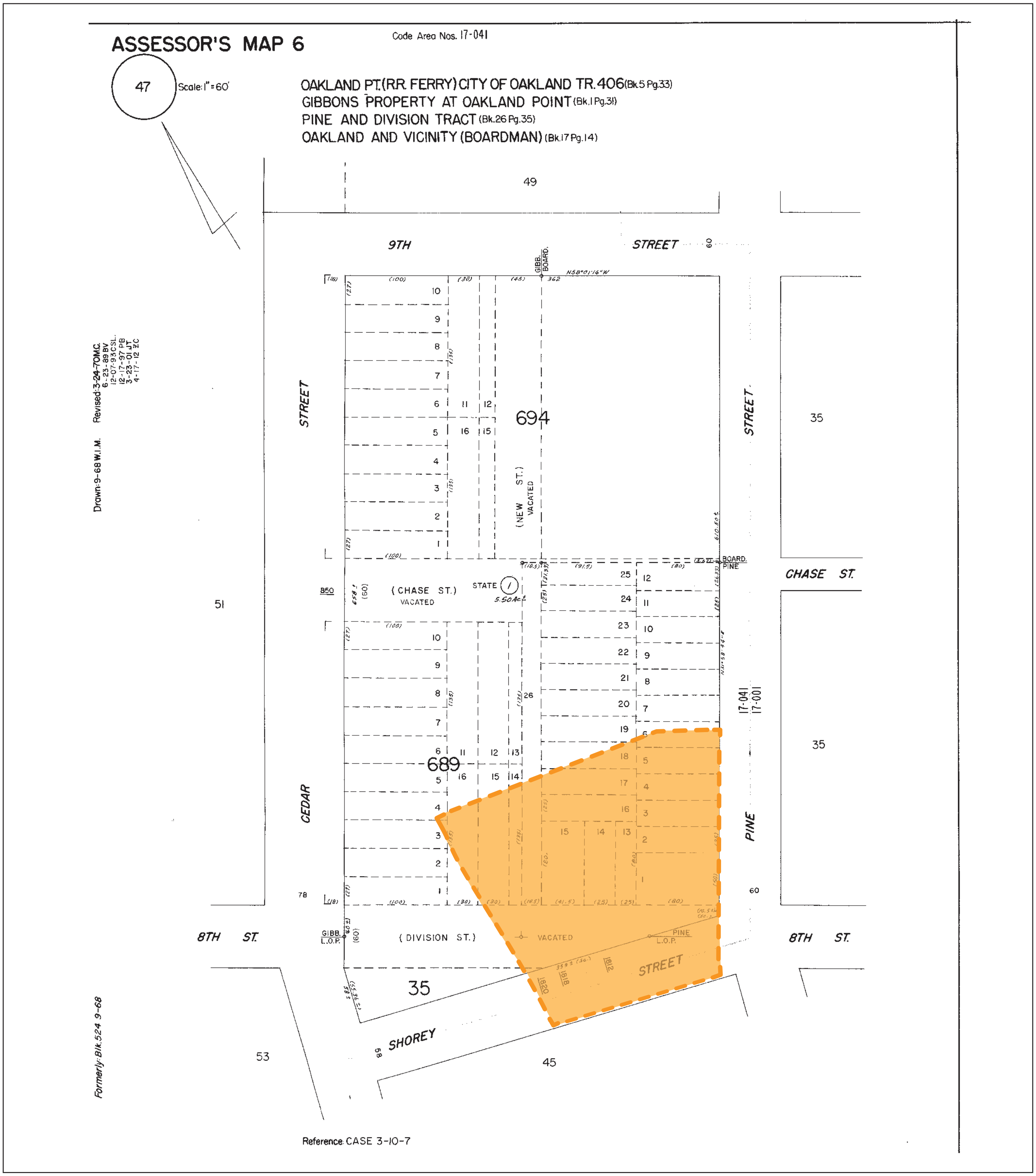
Source: Bing Maps, 2020.

🟧 Project Site

Figure 2

Detailed Project Location

Environmental Assessment - The Phoenix



▨ Project Site (Approximate)

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NOT TO SCALE

FIGURE 3

Phoenix Project EA/FONSI
Assessor's Parcel Map

SOURCE: Alameda County Assessor, 2020.

DESCRIPTION OF THE PROPOSED PROJECT [24 CFR 50.12 & 58.32; 40 CFR 1508.25]:

The Phoenix, 801 Pine Street (800 Cedar Street), Oakland, Alameda County, California 94607 (APN 006-0047-001-00):

The East Bay Asian Local Development Corporation (EBALDC) proposes to acquire and operate The Phoenix, a mixed-use affordable and supportive housing project on one lot that totals 0.90 acres (Parcel 1 of APN 006-0047-001-00) at the northwest corner of Pine Street and 8th Street in Oakland, California 94607 that would be constructed by Holliday Development (construction, acquisition, and operation is hereafter referred to as the "proposed project"). The project address is 801 Pine Street in Oakland, California 94607. The project will demolish at-grade concrete slabs currently covering the site.

The proposed project is phase 1 of a larger master-planned development that would consist of a total of 316 apartments and 12,000 square feet of ground floor retail and commercial makers spaces on the 4.65-acre site bound by 9th, Pine, and Shorey Streets and the frontage road to Interstate 880 (I-880).

The proposed project would include construction of a four-story and three-story, 101-unit residential building and a two-story community building. Approximately half of the units will be permanent supportive housing (PSH). Supportive housing combines permanent, independent rental apartments with services that help people who formerly experienced homelessness live more stable lives. The rest of the residential units will be reserved for low-income households, with incomes no greater than 60 percent of the area median income (AMI). Each apartment will have its own bathroom and kitchen area. The unit mix will be 82 studios, 3 one-bedroom units, and 16 two-bedroom units. One two-bedroom unit will be reserved for an onsite manager. Elevator lobby space and trash facilities will be located on each floor.[1]

Residents of the PSH units would be selected based on tenant selection criteria to be determined by the State, City, County, and applicant (landlord/owner). As noted, PSH pairs affordable rental apartments with on-site services. In addition to independent living, this component of the project will accommodate supportive service activities, including onsite workshops, group sessions, life skills, job training, informal gatherings, and one-on-one meetings The approximately 7,503-square foot community building will provide meeting space for these services and office space for the case workers, property managers and security guards who support the health of the residents. The community building also includes laundry facilities, mailboxes, and a bike room with 75 long-term bicycle parking spaces for residents. For aggregation purposes, the additional 16 street-parking spaces located along Shorey Street are part of the project as well as a 160-foot portion of the Shorey Lane extension that would include 21 parking spaces, which would provide a shared access fire lane for the larger master-planned project. The proposed project would only be responsible for construction and maintenance of the portion of Shorey Street that is on the project site (Figure 1), and all the required fire access needed by the proposed project would be located on-site (see Appendix K). The residential and community building surround a 3,582-square-foot courtyard which serves as outdoor common space for the buildings' residents.

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[1] Lowney Architecture. 2019. The Phoenix, Oakland, CA – Site Built Permit Set. Oakland, CA. November 15.

A perspective of the proposed buildings from Pine Street and Shorey Street is shown in Figure 4. The conceptual site plan is shown in Figure 5, including improvements along Shorey Street, and floor plans for the ground floor through the roof are shown in Figures 6 through 10. The conceptual landscaping and open space plan is shown in Figure 11.

The total project cost is estimated to be $41,000,000.

STATEMENT OF PURPOSE AND NEED FOR THE PROPOSAL [40 CFR 1508.9(B)]:

The purpose of the proposal is to increase the number of affordable housing units in the city of Oakland and Alameda County as a whole. As described more thoroughly below, the region is facing a housing shortage and the need is particularly pronounced for housing that is affordable to households with incomes below 50 percent of AMI. An increase of 50 permanent supportive housing units and 50 affordable units (at 60 percent AMI) will be accomplished by implementing the project.

Regional Outlook

As of 2020, the San Francisco Bay Area (Bay Area) region had a population of approximately 7.61 million people. The Bay Area is the world's 19th-largest economy. The region's population is projected to swell to over 10 million people by 2050.

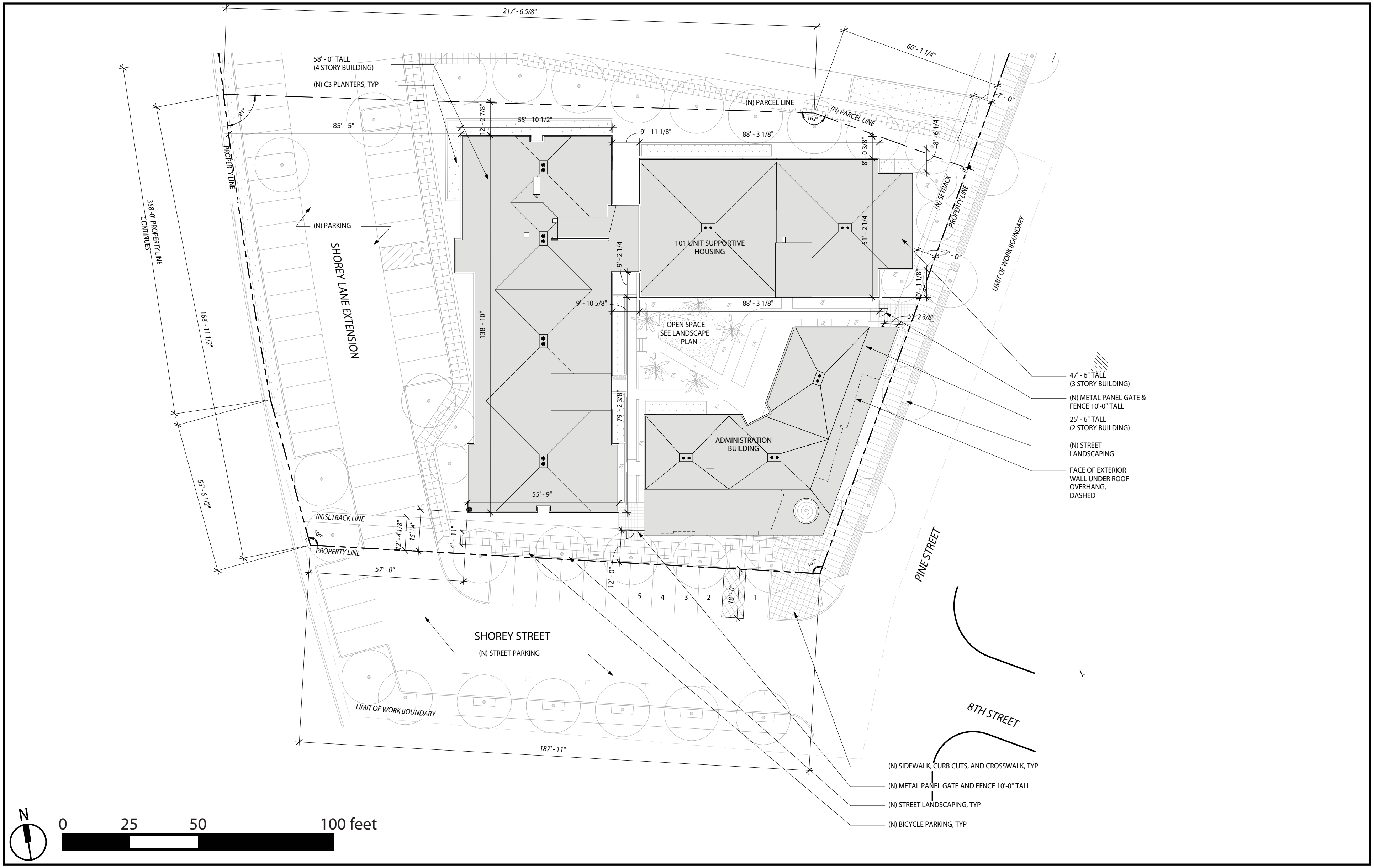
The Association of Bay Area Governments (ABAG), in conjunction with the Metropolitan Transportation Commission (MTC) and representatives from each of the nine Bay Area counties and cities, has drafted a strategy for a sustainable region named Plan Bay Area 2050. Plan Bay Area grew out of California Senate Bill (SB) 375 "The California Sustainable Communities and Climate Protection Act of 2008" which requires the Bay Area to reduce greenhouse gas (GHG) emissions from cars and light trucks. The law requires that the Sustainable Communities Strategy promote compact, mixed-use commercial and residential development. To meet the goals of SB 375, Plan Bay Area directs more future development in areas that are or will be walkable and bike-able and close to public transit, jobs, schools, parks, recreation and other amenities. The law synchronizes the regional housing needs allocation (RHNA) process with the regional transportation planning process and streamlines the California Environmental Quality Act (CEQA) process for housing and mixed-use projects that are consistent with the Sustainable Communities Strategy and in close proximity to public transportation. Local governments have identified Growth Geographies, including Priority Development Areas (PDAs), Priority Production Areas (PPAs), Transit-Rich Areas (TRAs) and High-Resources Areas (HRAs) to guide future growth in housing and jobs.

By 2050 the Bay Area is projected to add 2.39 million people, an increase of 31 percent or roughly 1 percent per year. The number of jobs is expected to grow by 1.4 million between 2015 and 2050, an increase of 35 percent, which is a faster rate of job growth than previous forecasts. During this same time period, the number of households is expected to increase by 51 percent to 4,043,000. Single-family homes represent the majority of housing production in recent decades, but recent trends suggest that cities once again are becoming centers of population growth. Demand for multi-family housing is projected to increase in developed areas near transit, shops, and services.

Source: Lowney Architecture, 2018.

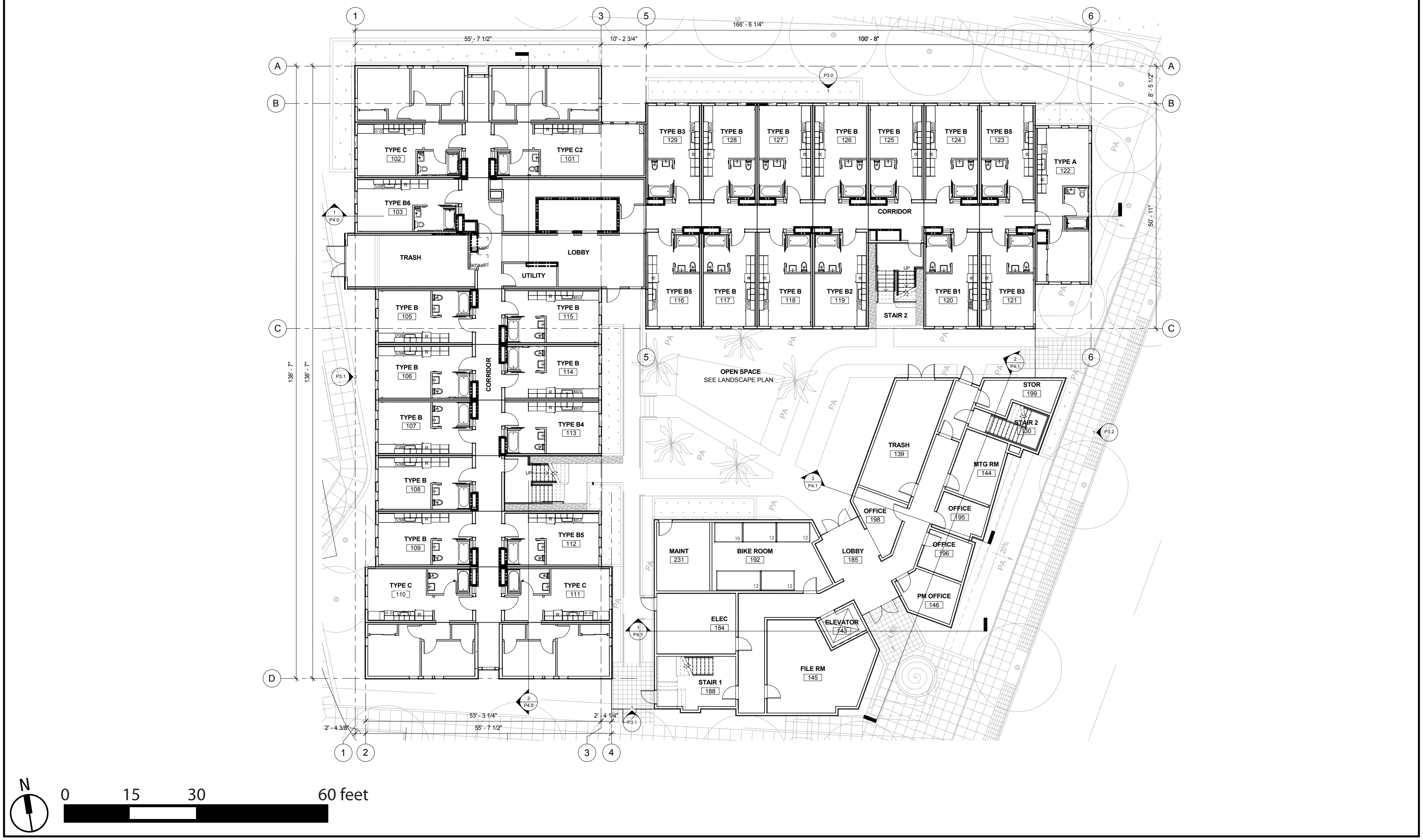
Figure 4

Perspective from Pine Street and Shorey Street Intersection



Source: Lowney Architecture, 2018.

Figure 5
Site Plan

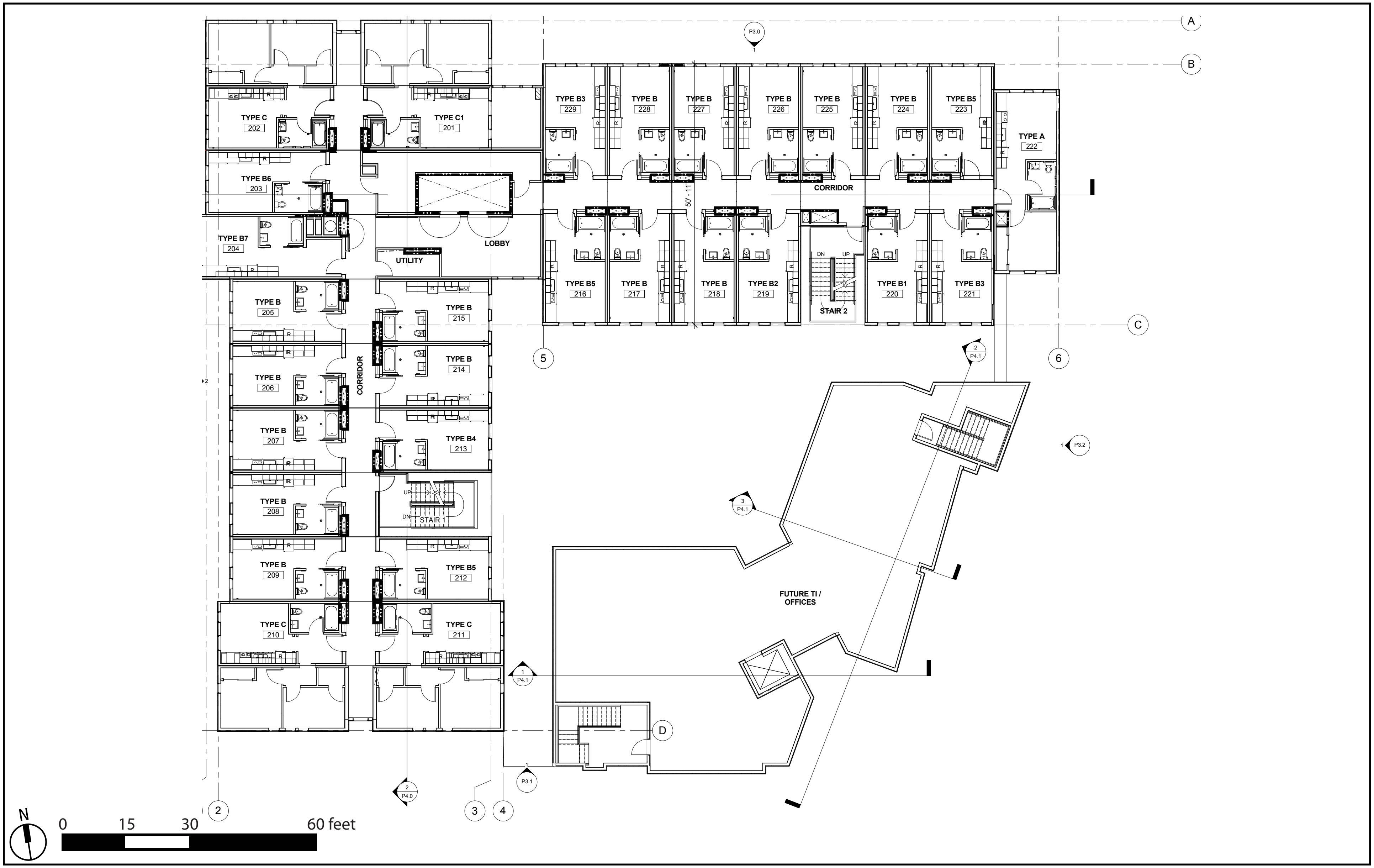


Source: Lowney Architecture, 2018.

Figure 6

Ground Floor Plan

Environmental Assessment - The Phoenix

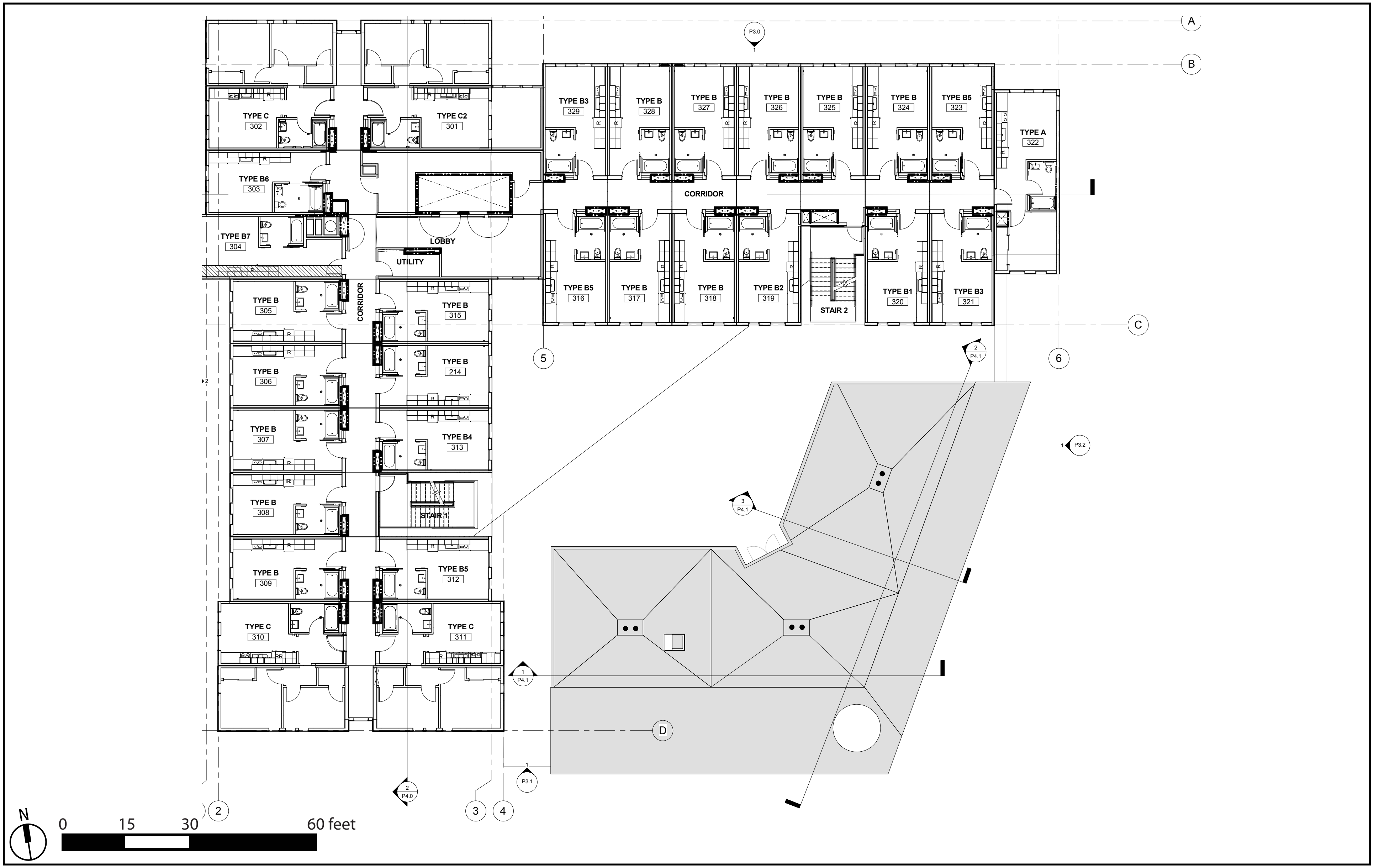


Source: Lowney Architecture, 2018.

Figure 7

Second Level Plan

Environmental Assessment - The Phoenix

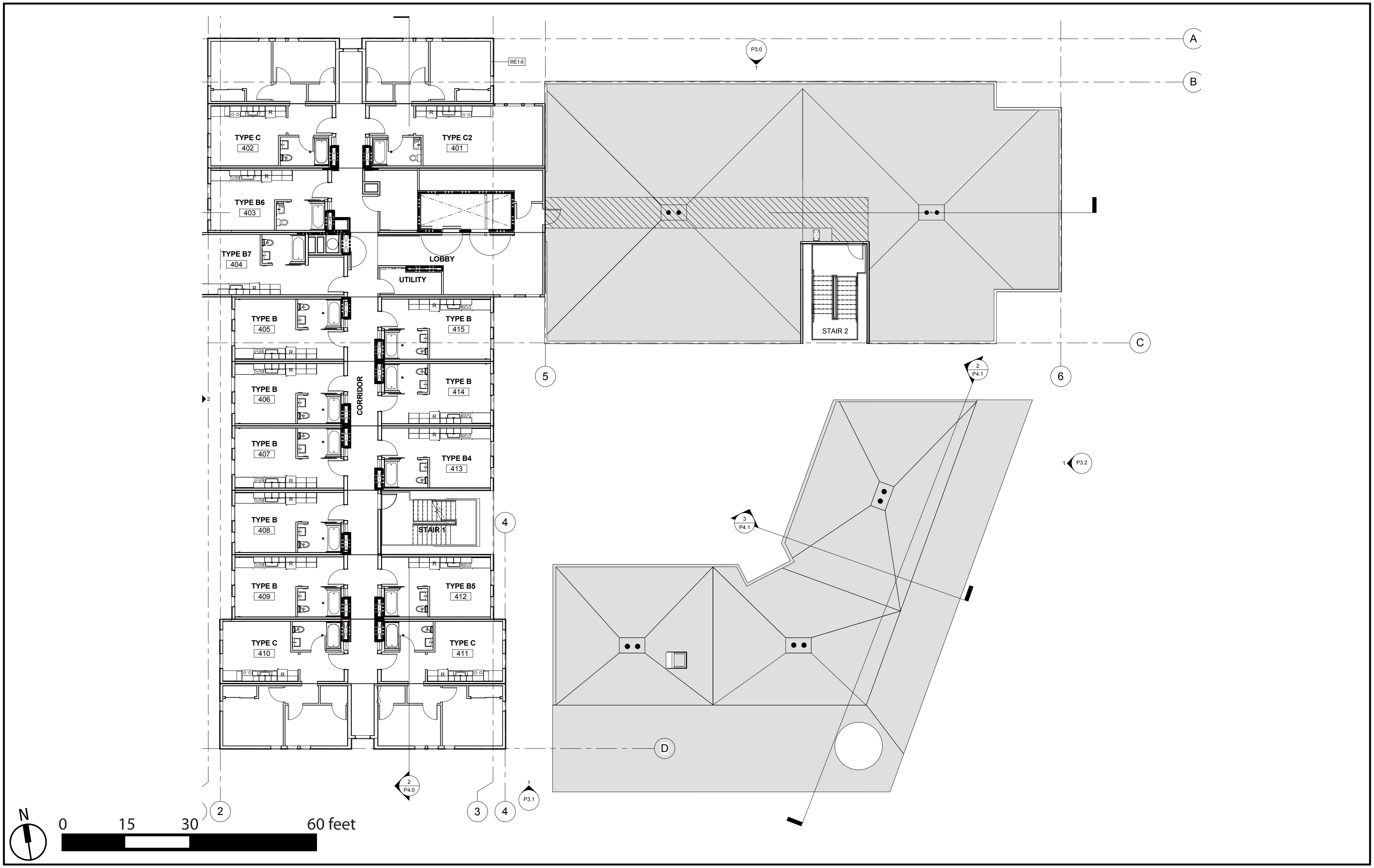


Source: Lowney Architecture, 2018.

Figure 8

Third Level Plan

Environmental Assessment - The Phoenix

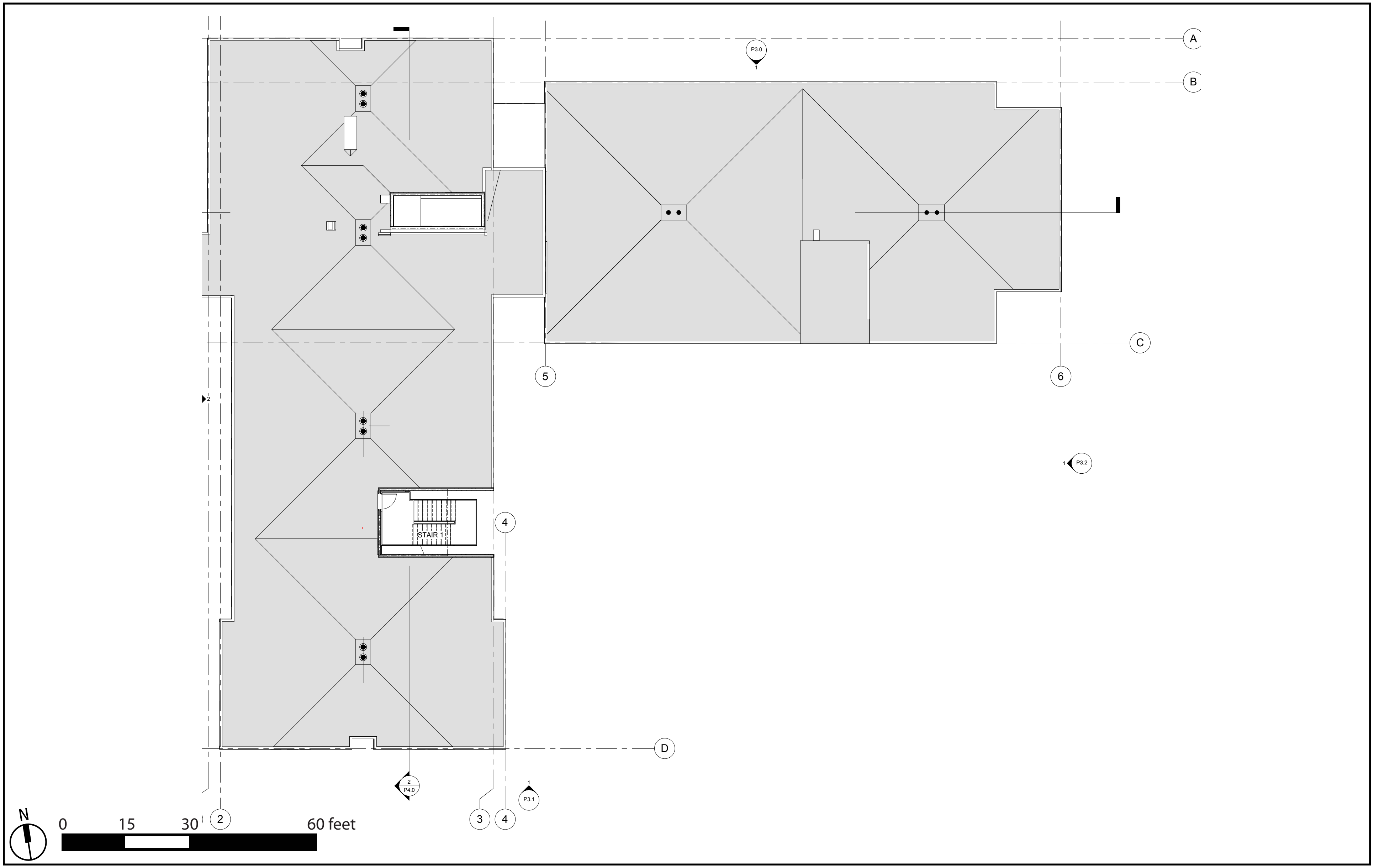


Source: Lowney Architecture, 2018.

Figure 9

Fourth Level Plan

Environmental Assessment - The Phoenix



Source: Lowney Architecture, 2018.

Figure 10

Roof Plan

Environmental Assessment - The Phoenix

Source: Lowney Architecture, 2018.

1. Outdoor terrace with enhanced paving
2. Outdoor area with enhanced paving
3. Concrete accessible ramp
4. Concrete sidewalk paving
5. Building access
6. Street tree in tree well
7. Egress exit gate and fence
8. Concrete paving with saw cut joints
9. Bicycle rack
10. Property line
11. Flow through planter
12. Planting area.
13, Courtyard trees
14. Concrete path.
15. Bermed planting area
16. Feature paving
17. Enhanced Paving at furnishing zone
18. Waste management service access

Figure 11

Landscaping and Open Space Plan

Environmental Assessment - The Phoenix

The COVID-19 pandemic eliminated approximately 150,000 jobs in the Bay Area in 2020. However, with a gross domestic product of over $900 billion, the Bay Area economy has ample opportunities to better serve historically marginalized communities as it recovers from the impacts of COVID-19. Factors such as high land and construction costs, minimum parking requirements, maximum unit densities, and other local policies combined with swiftly increasing demand for housing has led to higher rents and home prices. Bay Area communities face these challenges at a time when there are fewer public resources available than in past decades. Public funding to support affordable housing production or preservation has sharply declined since the 1980s, and today the region has among the smallest shares or deed-restricted affordable housing in the industrialized world.

Local Perspective

According to the 2020 American Community Survey, Alameda County had a population of 1,682,353. Alameda County's households are expected to grow 54 percent from 552,000 in 2015 to 847,000 in year 2050. Alameda County occupies most of the East Bay of the San Francisco Bay Area. The City of Oakland is the county seat and the largest city in Alameda County. According to ABAG's Housing Needs Allocation, 2023-2031, the city of Oakland should add 26,251 new units by 2031 in order to meet the needs for housing.[2,3] Of this total, Oakland's "fair share" housing goals for the 2023-2031 cycle included 6,511 units affordable to very low income households at 50 percent of the area median income (AMI), 3,750 units affordable to low income households (80 percent of AMI), 4,457 units affordable to moderate-income households (120 percent of AMI) and 11,533 units affordable to households of above moderate income.

Table 1: Alameda County Housing Needs Allocation, 2023-2031

City	Very Low <50%	Low <80%	Moderate, <120%	Above Moderate	Total
Alameda	1,421	818	868	2,246	5,353
Albany	308	178	175	453	1,114
Berkeley	2,446	1,408	1,416	3,664	8,934
Dublin	1,085	625	560	1,449	3,719
Emeryville	451	259	308	797	1,815
Fremont	3,640	2,096	1,996	5,165	12,897
Hayward	1,075	617	817	2,115	4,624
Livermore	1,317	758	696	1,799	4,570
Newark	464	268	318	824	1,874
Oakland	6,511	3,750	4,457	11,533	26,251
Piedmont	163	94	92	238	587
Pleasanton	1,750	1,008	894	2,313	5,965
San Leandro	862	495	696	1,802	3,855
Union City	862	496	382	988	2,728
Unincorporated	1,251	721	763	1,976	4,711
Alameda County Total	23,606	13,591	14,438	37,362	88,997

Source: Association of Bay Area Governments, 2021.

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[2] United States Census Bureau. American Fact Finder. 2018 Demographic Profile. Website: https://factfinder.census.gov/faces/nav/jsf/pages/community_facts.xhtml.

[3] ABAG. 2021. *Final Regional Housing Needs Allocation (RHNA) Plan: San Francisco Bay Area, 2023 to 2031.* December.

Local housing elements must include an analysis of special housing needs. Under State law, special needs refer to those households that contain seniors, persons with disabilities, large households, female-headed households, homeless, veterans and farmworkers.

The City of Oakland, in its 2015-2023 Housing Element, outlines its goals, policies, and planned actions to address its housing needs.[4] The following goals and policies apply to this project and affordable housing in general.

- **Goal 2: Promote the development of adequate housing for low- and moderate-income households.**
    - *Policy 2.1 - Affordable housing development programs:* Provide financing for the development of affordable housing for low- and moderate-income households. The City's financing programs will promote a mix of housing types, including homeownership, multifamily rental housing and housing for seniors and persons with special needs.
    - *Policy 2.9 – PATH Plan for the homeless:* Expand the City's Permanent Access to Housing (PATH) Plan to prevent and end homelessness and increase housing opportunities to the homeless through acquisition, rehabilitation and construction of housing, master leasing and short-term financial assistance.
    - *Policy 2.10 - Promote an equitable distribution of affordable housing throughout the community:* The City will undertake a number of efforts to distribute assisted housing widely throughout the community and avoid the over-concentration of assisted housing in any particular neighborhood, in order to provide a more equitable distribution of households by income and by race and ethnicity.
- **Goal 7: Promote sustainable development and sustainable communities.**
    - *Policy 7.1 - Sustainable residential development programs:* In conjunction with the City's adopted Energy and Climate Action Plan (ECAP), develop and promote programs to foster the incorporation of sustainable design principals, energy efficiency and smart growth principles into residential developments. Offer education and technical assistance regarding sustainable development of project applicants.
    - *Policy 7.2 - Minimize energy consumption:* Encourage the incorporation of energy conservation design features in existing and future residential development beyond minimum standards required by State building code.
    - *Policy 7.3 - Encourage development that reduces carbon emissions:* Continue to direct development toward existing communities and encourage infill development at densities that are higher than – but compatible with – the surrounding communities. Encourage development in close proximity to transit, and with a mix of land uses in the same zoning district, or on the same site, so as to reduce the number and frequency of trips made by automobile.

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[4] Oakland, City of. 2014. General Plan Housing Element 2015-2023. December 9.

The proposed project will help to achieve the stated goals by its consistency with the policies stated above. The project includes affordable housing for low-income households and permanent supportive housing for chronically homeless populations and will benefit special needs populations.

EXISTING CONDITIONS AND TRENDS [24 CFR 58.40(A)]:

Existing Conditions

As of 2020, the population of Oakland was 440,646. Oakland is a major West Coast port city in the U.S. State of California. The Port of Oakland is the busiest port for San Francisco Bay and all of Northern California. Oakland is the 3rd largest city in the San Francisco Bay Area, the 8th largest city in California, and the 45th largest city in the United States. Incorporated in 1852, Oakland is the county seat of Alameda County. It serves as a major transportation hub and trade center for the entire region and is also the principal city of the Bay Area Region known as the East Bay. The city is situated directly across the Bay, six miles east of San Francisco.

A steady influx of immigrants during the 20th century, along with thousands of African-American war-industry workers who relocated from the Deep South during the 1940s, have made Oakland one of the most ethnically diverse major cities in the country. Oakland is known for its history of political activism, as well as its professional sports franchises and major corporations, which include health care, dot-com companies and manufacturers of household products. The city is a transportation hub for the greater Bay Area, and its shipping port is the fifth busiest in the United States.

Oakland has a Mediterranean climate with an average of 260 sunny days per year. Lake Merritt, a large, centrally located estuary east of Downtown, was the United States' first officially designated wildlife refuge. Jack London Square, named for the author and former resident, is a tourist destination on the Oakland waterfront.

According to the U.S. Census Bureau, the City's total area is 78.0 square miles, including 55.8 square miles of land and 22.2 square miles (28.5 percent) of water. Oakland's highest point is near Grizzly Peak Blvd, east of Berkeley, just over 1,760 feet above sea level. Oakland has 19 miles of shoreline. Oakland residents refer to their city's terrain as “the flatlands” and “the hills,” which until recent waves of gentrification have also been a reference to Oakland's deep economic divide, with “the hills” being more affluent communities. About two-thirds of Oakland lies in the flat plain of the East Bay, with one-third rising into the foothills and hills of the East Bay range.

Sire Characteristics

The project site is at 801 Pine Street, northwest of the Shorey Street/Pine Street intersection in West Oakland. The 0.9-acre site is Parcel 1 out of the four parcels that make up Accessor Parcel Number (APN) 006-0047-001-00. It is approximately 0.5 miles northwest of the West Oakland Bay Area Rapid Transit (BART) station and approximately 200 feet east Interstate 880 (I-880). The site is approximately one mile east of San Francisco Bay.

The project site is currently vacant and undeveloped, although a concrete surface covers much of the lot. The project site is included in Opportunity Site #28 in the 7th Street Opportunity Area, Subarea 2c of the West Oakland Specific Plan. The site is predominately flat topographically and is not near any creeks or natural landmarks. There are four trees on the project site that would be removed and one near the site at the intersection of Shorey Street and Pine Street that would remain.[5]

Trends

The City of Oakland's Consolidated Plan 2015-2020 discusses the current housing conditions and expected trends.

There are 35,610 households that qualify as extremely low income (0 – 30 percent of area median income) under U.S. Department of Housing and Urban Development (HUD) guidelines, over 23 percent of all Oakland households. These are households living near or below the federal poverty level. This group is by far the most vulnerable to housing instability and at greatest risk of becoming homeless. The majority of these households are renters and have very high rates of housing instability.

There are 21,433 low-income households in Oakland (from 31-50 percent of median income) constituting over 14 percent of all Oakland households. Of these, 12,440 (58 percent) are renters. For low-income renters, affordability is clearly the most significant problem, affecting approximately 71 percent of these households. Overcrowding is reported for approximately 29 percent of low-income renters.[6]

Homelessness

While the City of Oakland does have an inventory of affordable housing, there are very long waiting lists for these units and most of the affordable housing projects do not have supportive services or are still not affordable to the homeless population. There is tremendous unmet need for housing for unsheltered homeless households and those at risk of being homeless.

According to a 2019 comprehensive report on homelessness, 8,022 people are experiencing homelessness in Alameda County, and 4,071 individuals experiencing homelessness were counted in the city of Oakland.[7] The total number of people experiencing homelessness in Alameda County increased from 5,629 in 2017, for a 43 percent increase between 2017 and 2019. The population of persons experiencing homelessness in Oakland represented over half of the total number of persons enumerated in Alameda County during the 2019 Point-in-Time Count. The total number of people experiencing homelessness in Alameda County increased from 1,310 persons in 2017, for a 47 percent increase between 2017 and 2019. This data confirms the analysis of EveryOne Home's Plan to End Homelessness: 2018 Strategic Update that says that, "for every two people becoming homeless, only one person returns to permanent housing." Other important data from these surveys indicate the following:

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[5] Karnowski, Julia, BS. 2020. Site survey. Tom Origer & Associates. May 5.

[6] United States Census Bureau. Op. cit.

[7] Applied Survey Research (ASR), EveryOne Home, Aspire Consulting LLC and the Alameda County Housing and Community Development Department. 2019. *Alameda County and City of Oakland Homeless Count & Survey and Comprehensive Report.*

- While the number of individuals in Alameda County served by shelters remained stable (up by about 0.2 percent) between 2017 and 2019, there was an increase of 2,449 unsheltered individuals (or an increase of 63 percent). In 2019, 79 percent of the people experiencing homelessness in the City of Oakland were unsheltered, compared to 69 percent in 2017.

- Persons in families with at least one adult and one child under age 18 represented approximately 5 percent of the overall population experiencing homelessness in Oakland, slightly lower than Alameda County overall (7 percent). Most persons in families (99 percent) were enumerated in shelters and transitional housing programs.

- Ninety-five percent (95 percent) of the population experiencing homelessness were single individuals. Unaccompanied children and transition-age youth represented 12 percent of the population experiencing homelessness in Oakland, higher than the county overall (9 percent).

- Individuals identifying as Black/African American were over-represented in the population experiencing homelessness. An estimated 70 percent of persons experiencing homelessness in Oakland identified as Black/African American, compared to 47 percent of the overall county's population experiencing homelessness and 24 percent of the city's general population.

- Homelessness and incarceration are often correlative. Individuals without stable housing are at greater risk of criminal justice system involvement, particularly those with mental health issues, veterans and youth.

- Individuals with past incarceration face significant barriers to exiting homelessness due to stigmatization and policies affecting their ability to gain employment and access housing opportunities. Formerly incarcerated people are almost ten times more likely to experience homelessness than the general public. Ten percent of respondents in the City of Oakland homeless survey reported being on probation at the time of the survey, and 5 percent reported being on parole.

As also reported in EveryOne Home's 2018 Strategic Update report, Alameda County spent $106 million on the Housing Crisis Response System in fiscal year 2017/18 on homelessness prevention, shelter, outreach, navigation, rapid rehousing, subsidized permanent housing and permanent supportive housing. Service providers assisted approximately 1,500 people to return to permanent housing every year, yet there are 3,000 people becoming homeless for the first time, and the rate at which people are becoming homeless outpaces the ability to house them with existing resources.

The largest service and housing gaps are in homelessness prevention, subsidized housing for people with extremely low-incomes, and permanent supportive housing. The 2018 Strategic Update estimates that a total of $330 million per year would end unsheltered homelessness, calling for an increase of $228 million, the bulk of which should be spent in prevention, subsidized housing for people with extremely low-incomes, and permanent supportive housing.

These trends are likely to continue in the absence of the project. The project will help to stem the trends outlined above by providing affordable housing to special-needs populations.

FUNDING INFORMATION

Funding Program	Funding Amount
Oakland Housing Authority Housing Choice Voucher Reserves – Capitalized Operating Reserve	$ 3,226,453
LIHTC, City of Oakland, California HCD, National Housing Trust Fund	$ 47,000,000

ESTIMATED TOTAL HUD FUNDED AMOUNT:

$3,226,453

ESTIMATED TOTAL PROJECT COST (HUD AND NON-HUD FUNDS) [24 CFR 58.32(D)]:

$50,226,453

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COMPLIANCE WITH 24 CFR 50.4, 58.5, AND 58.6 LAWS AND AUTHORITIES

Record below the compliance or conformance determinations for each statute, executive order, or regulation. Provide credible, traceable, and supportive source documentation for each authority. Where applicable, complete the necessary reviews or consultations and obtain or note applicable permits of approvals. Clearly note citations, dates/names/titles of contacts, and page references. Attach additional documentation as appropriate.

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes ☐ No ☒	There is one major airport and one minor airport within 15 miles of the project site. Oakland International Airport (OAK) is the nearest airport and is approximately 7.53 miles south of the project site. Minor airport Hayward Executive Airport is 14.22 miles south of the project site. The project is Runway Protection Zone/Clear Zone (RPZ/CZ) compliant. The proposed project is not within a potential hazard area subject to further mitigation. ***Source Documents:*** 10, 11, 12, Appendix A
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes ☐ No ☒	The Coastal Barrier Resources Act of the United States (CBRA, Public Law 97-348), enacted October 18, 1982, designated various undeveloped coastal barriers, depicted by a set of maps adopted by law, for inclusion in the John H. Chafee Coastal Barrier Resources System (CBRS). Areas so designated were made ineligible for direct or indirect Federal national security, navigability, and energy exploration. CBRS areas extend along the coasts of the Atlantic Ocean and the Gulf of Mexico, Puerto Rico, the U.S. Virgin Islands, and the Great Lakes, and consist of 857 units. There are no Coastal Barrier Resources in California. ***Source Documents:*** 13
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]	Yes ☐ No ☒	The project site is not located within a 100-year or 500-year flood hazard zone identified on a Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM). Flood hazard designation is depicted on FIRM Map Number 06001C0066H with an effective date of December 21, 2018. Therefore, flood insurance is not required. ***Source Documents:*** 14, 15, Appendix B

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.5		
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes ☒ No ☐	**Criteria Air Pollutants** The Federal Clean Air Act (FCAA), as amended, is the primary federal law that governs air quality while the California Clean Air Act (CCAA) is its companion state law. The 1970 FCAA required the establishment of National Ambient Air Quality Standards (NAAQS) for criteria air pollutants. The FCAA and subsequent FCAA Amendments of 1977 and 1990 empowered the United States Environmental Protection Agency (USEPA) to designate areas as being in attainment or nonattainment for each criteria air pollutant standard. The FCAA, as amended, requires that states develop a State Implementation Plan (SIP) for areas that are in nonattainment of any of the NAAQS. The SIP present strategies for the attainment of the NAAQS and also include comprehensive attainment plans for each nonattainment area. California has established the California Ambient Air Quality Standards (CAAQS) for criteria air pollutants. The CAAQS and air basin designations are established by the California Air Resources Board (CARB). CARB is also responsible for implementing the strategies of the SIP, once it has been approved by the USEPA. The project site is in the San Francisco Bay Area Air Basin (SFBAAB). The state and federal attainment status for all regulated pollutants in the SFBAAB are summarized in Table 2. The SFBAAB is currently designated a marginal nonattainment area for the 2008 and 2015 federal 8-hour ozone standard, moderate nonattainment for the 2006 federal 24-hour fine particulate matter (PM2.5) standard, and nonattainment for the State ozone, coarse particulate matter (PM10), and PM2.5 standards. The SFBAAB is designated as a maintenance area with respect to the federal carbon monoxide standards. The SFBAAB is classified as attainment or unclassifiable for the remaining NAAQS and CAAQS. Unclassifiable generally indicates that there is a lack of representative data to classify a basin. The predominant regulation that guides the assessment of air quality impacts of federal actions is the General Conformity Rule, established under the Clean Air Act (Section 176(c)(4)). The General Conformity Rule ensures that the actions taken by federal agencies in nonattainment and maintenance areas do not interfere with implementation of the SIP to meet the NAAQS for air quality. In keeping with the General Conformity Rule process, this assessment applies the appropriate de minimis thresholds of the General Conformity Rule as they apply to the SFBAAB for ozone precursors, PM2.5, and carbon monoxide. The de minimis thresholds for these three

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		pollutants in the SFBAAB are 100 tons per year for each pollutant.

Table 2: State and Federal Attainment Status in the San Francisco Bay Area Air Basin

Pollutant	State Attainment Status	Federal Attainment Status
Ozone	Nonattainment	Nonattainment (Marginal)
Coarse Particulate Matter (PM10)	Nonattainment	Unclassifiable
Fine Particulate Matter (PM2.5)	Nonattainment	Nonattainment (Moderate)
Carbon Monoxide	Attainment	Attainment (Maintenance)
Nitrogen Dioxide	Attainment	Unclassifiable/ Attainment
Sulfur Dioxide	Attainment	Unclassifiable
Lead	Attainment	Unclassifiable/ Attainment
Visibility-Reducing Particles	Unclassified	NA
Sulfates	Attainment	NA
Hydrogen Sulfide	Unclassified	NA
Vinyl Chloride	Unclassified	NA

NA = not applicable

The Bay Area Air Quality Management District (BAAQMD) has established thresholds in the CEQA Air Quality Guidelines at which project emissions of ozone precursors (reactive organic gases [ROG] and nitrogen oxides [NO_x]), PM_{10}, and $PM_{2.5}$ could cause or contribute to violations of the CAAQS. As shown in Table 3, the BAAQMD's thresholds are more stringent than the federal de minimis thresholds for conformity analysis. Therefore, any federal action that is consistent with the BAAQMD's thresholds for attaining the CAAQS would also conform with the goals and strategies of the SIP for attaining the NAAQS.

Table 3: BAAQMD Thresholds for Criteria Air Pollutants

Pollutant	BAAQMD Threshold
ROG	54 pounds/day (10 tons/year)
NO_x	54 pounds/day (10 tons/year)
Exhaust PM_{10}	82 pounds/day (10 tons/year)
Exhaust $PM_{2.5}$	54 pounds/day (10 tons/year)
Fugitive Dust PM^{10} and $PM_{2.5}$	Best Management Practices

The West Oakland Specific Plan EIR evaluated carbon monoxide emissions from new developments in the project vicinity and determined that project development would not generate emissions leading to significant concentrations of carbon monoxide that would violate any ambient air quality standard or contribute substantially to an existing or

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		projected air quality violation. Therefore, carbon monoxide emissions from the project would not interfere with implementation of the SIP. **Criteria Air Pollutant Analysis** *Construction Emissions* Construction activities associated the project would generate criteria air pollutant emissions that could potentially affect local and regional air quality. During construction, the primary pollutant emissions of concern would be ROG, NO_x, PM_{10}, and $PM_{2.5}$ from the exhaust of off-road construction equipment and on-road construction vehicles related to worker vehicles, vendor trucks, and haul trucks. In addition, fugitive dust emissions of PM_{10} and $PM_{2.5}$ would be generated by soil disturbance activities, and fugitive ROG emissions would result from the application of architectural coatings and paving. The BAAQMD has developed screening criteria for ROG, NO_x, PM_{10}, and $PM_{2.5}$ to conservatively evaluate if a project would exceed the BAAQMD's thresholds for criteria air pollutants during construction and operation (Table 3). The proposed project's affordable housing and community services were compared to the BAAQMD's screening criteria for low-rise apartments and general office buildings, respectively. As shown in Table 4, the total percentage of the project size compared to the BAAQMD's screening criteria would be less than 100 percent for construction, which means the project would not exceed the BAAQMD's thresholds for criteria air pollutants. As a result, emissions from project construction would also be below the federal de minimis thresholds for criteria air pollutants. In addition, the City of Oakland has a Standard Condition of Approval (SCA) that requires all construction projects to implement the BAAQMD's best management practices for controlling fugitive dust emissions during construction (see below). Compliance with City's SCA for dust control would ensure that the project satisfies the BAAQMD's threshold of significance and remains below the federal de minimis threshold for $PM_{2.5}$. In addition, the City of Oakland has a Standard Condition of Approval (SCA) that requires all construction projects to implement the BAAQMD's best management practices for controlling fugitive dust emissions during construction (see below). Compliance with City's SCA for dust control would ensure that the project satisfies the BAAQMD's threshold of significance and remains below the federal de minimis threshold for $PM_{2.5}$.

<table>
<tr><th>Compliance Factors:
Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6</th><th>Are formal compliance steps or mitigation required?</th><th>Compliance Determinations</th></tr>
<tr><td></td><td></td><td>
<p>Therefore, emissions from project construction would conform with the goals and strategies of the SIP.</p>
<p>Table 4: BAAQMD Screening Analysis for Criteria Air Pollutants</p>
<table>
<tr><th>Land Use Type</th><th>Project Size</th><th>BAAQMD Screening Size</th><th>Percent Screening Size</th></tr>
<tr><td colspan="4">Construction Emissions</td></tr>
<tr><td>Low-Rise Apartments</td><td>101 units</td><td>240 units</td><td>42%</td></tr>
<tr><td>General office building</td><td>7,503 sf</td><td>277,000 sf</td><td>3%</td></tr>
<tr><td colspan="3">Total</td><td>45%</td></tr>
<tr><td colspan="4">Operational Emissions</td></tr>
<tr><td>Low-Rise Apartments</td><td>101 units</td><td>451 units</td><td>22%</td></tr>
<tr><td>General Office Building</td><td>7.503 sf</td><td>346,000 sf</td><td>2%</td></tr>
<tr><td colspan="3">Total</td><td>25%</td></tr>
</table>
<p><i>Operational Emissions</i></p>
<p>Operational criteria air pollutants generated by residential uses are primary the result of mobile source emissions from vehicles. The proposed project's affordable housing and community services were compared to the BAAQMD's screening criteria for low-rise apartments and general office buildings, respectively.</p>
<p>Those projects that do not exceed the screening thresholds are presumed to result in less than significant air quality effects. For low-rise apartment projects, the operational screening threshold is 451 dwelling units. For ground-level office uses, the screening threshold is 346,000 square feet. At 101 dwelling units and approximately 7,500 square feet of commercial use, the project does not exceed either of the individual operational screening criteria and would not exceed the combined screening criteria. Therefore, emissions from operation of the project would conform with the goals and strategies of the SIP.</p>
<p>The City of Oakland has adopted Uniformly Applied Development Standards that are imposed as Standard Conditions of Approval (SCAs). These SCAs apply to all projects that meet applicable criteria. The City of Oakland has a SCA that requires all construction projects to implement the BAAQMD's best management practices for controlling fugitive dust emissions during construction (see below). Compliance with City's SCA for dust control would ensure that the project satisfies the BAAQMD's threshold of significance and remains below the federal de minimis threshold for $PM_{2.5}$.</p>
</td></tr>
</table>

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		Health Risk Assessment Toxic air contaminants (TACs) include a diverse group of air pollutants that can adversely affect human health. Unlike criteria air pollutants, which generally affect regional air quality, TAC emissions are evaluated based on estimations of localized concentrations and risk assessments. The adverse health effects a person may experience following exposure to any chemical depend on several factors, including the amount (dose), duration, chemical form, and any simultaneous exposure to other chemicals. For risk assessment purposes, TACs are separated into carcinogens and non-carcinogens. Carcinogens are assumed to have no safe threshold below which health impacts would not occur. Non-carcinogenic substances are generally assumed to have a safe threshold below which health impacts would not occur. Acute and chronic exposure to non-carcinogens is expressed as a hazard index (HI), which is the sum of expected exposure levels divided by the corresponding acceptable exposure levels. In the SFBAAB, adverse air quality impacts on public health from TACs are predominantly from diesel particulate matter (DPM). The City of Oakland uses the BAAQMD CEQA Air Quality Guidelines to consider exposure of sensitive receptors to air pollutant levels that result in an unacceptable cancer risk or hazard. For cancer risk, which is a concern with DPM, the BAAQMD considers an excess risk at or above 10 in one million to be a significant risk for a single source. The BAAQMD CEQA Guidelines also consider single-source TAC exposure to be significant if the HI is greater than 1.0 for non-cancer risk hazards. Cumulative exposure is assessed by combining the risks and annual PM2.5 concentrations for all sources near a project site. The thresholds for cumulative exposure are an excess cancer risk of 100 in one million, annual PM2.5 concentrations of 0.8 micrograms per cubic meter (µg/m^3), and a HI greater than 10.0. These thresholds were used to address impacts from TAC sources that could affect future project residents. Project-related construction activities would generate construction-related emissions of TACs, specifically DPM from on-road haul trucks and off-road diesel equipment exhaust. Due to the variable nature of construction activity, the generation of TAC emissions would be temporary. Considering the short amount of time such equipment is typically within an influential distance that would result in the exposure of sensitive receptors to substantial concentrations, it is unlikely that construction-period TAC emissions during construction of the project would result in increased cancer risk or non-cancer health concerns for

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		nearby sensitive receptors. <u>Operational Health Risk Assessment</u> Residential and office uses are not generally considered substantial sources of operational TAC emissions. While, maker's space would be constructed in another phase of the larger Planned Unit Development (PUD) project, this building would be for custom low impact manufacturing which is generally not a source of substantial TAC emissions. The Project site is located is located near a freeway and an area characterized by large and complex industrial facilities across the freeway and extra cautions should be considered for sensitive land uses in these areas, including identifying additional measures that can be implemented to reduce health risks. Health risks from major sources of TAC emissions were estimated at the project site using results from the West Oakland Community Action Plan (WOCAP) Technical Assessment. As shown in Table 5, chronic HI at the project site would be below the BAAQMD's health risk screening threshold; however, cancer risk and PM2.5 concentrations at the project site would be above the BAAQMD's health risk screening thresholds. Therefore, the project is required to identify health risk reduction measures to reduce the health risk to acceptable levels. As described in the health risk assessment prepared for the project (Appendix C), CARB has identified high-efficiency filtration as the most effective method for residences to reduce incoming DPM from outdoor air. An air filtration device rated MERV-13 or higher can reduce levels of indoor DPM and PM2.5 by at least 85 percent, relative to the incoming outdoor air. Therefore, as shown in Table 5, implementation of MERV-13 or higher air filtration devices would reduce the cumulative excess cancer risk and PM2.5 concentrations at the project site below the BAAQMD's thresholds. The City has a SCA for controlling the exposure of future residents to TACs (see below). Installation and maintenance of a MERV-13 or higher air filtration on the project site would comply the City's SCA for TAC exposure. Therefore, compliance with City's SCA for TAC exposure would ensure that the project does not expose future residents to substantial air pollutant concentrations that could result in significant adverse health risks.

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**

Table 5: BAAQMD Screening Analysis for Criteria Air Pollutants

Sources	**Cancer Risk (Per Million)**	**$PM_{2.5}$ ($\mu g/m^3$)**	**Chronic HI from DPM**
Highways	130	1.4	0.031
Streets	23	1.1	0.005
Port	167	0.3	0.045
Railroads	114	0.1	0.153
Permitted Stationary Sources	6	0.4	<0.001
Other Sources	7	<0.1	0.002
Total Health Risk	**447**	**3.3**	0.24
Total Health Risk with MERV-13	67	0.5	0.04
BAAQMD's Thresholds	100	0.8	10

Notes: $PM_{2.5}$ = fine particulate matter; HI = hazard index; $\mu g/m^3$ = micrograms per cubic meter; DPM = diesel particulate matter; MERV = minimum efficiency reporting value.
Bold indicates exceedance of the applicable BAAQMD thresholds.

Conclusions
With implementation of the City's Standard Conditions of Approval (SCAs), the project would not result in substantial increases in criteria air pollutant emissions or adverse health risks during construction or operation. The applicable SCAs for air quality are listed below.

SCAs Required:
AQ1. Dust Controls – Construction Related.
The project applicant shall implement all of the following applicable dust control measures during construction of the project:

a. Water all exposed surfaces of active construction areas at least twice daily. Watering should be sufficient to prevent airborne dust from leaving the site. Increased watering frequency may be necessary whenever wind speeds exceed 15 miles per hour. Reclaimed water should be used whenever feasible.
b. Cover all trucks hauling soil, sand, and other loose materials or require all trucks to maintain at least two feet of freeboard (i.e., the minimum required space between the top of the load and the top of the trailer).
c. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
d. Limit vehicle speeds on unpaved roads to 15 miles per hour.
e. All demolition activities (if any) shall be suspended when average wind speeds exceed 20 mph.

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		f. All trucks and equipment, including tires, shall be washed off prior to leaving the site. g. Site accesses to a distance of 100 feet from the paved road shall be treated with a 6 to 12 inch compacted layer of wood chips, mulch, or gravel. **AQ2. Criteria Air Pollutant Controls – Construction Related.** The project applicant shall implement all of the following applicable basic control measures for criteria air pollutants during construction of the project as applicable: a. Idling times on all diesel-fueled commercial vehicles over 10,000 lbs. shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to two minutes (as required by the California airborne toxics control measure Title 13, Section 2485, of the California Code of Regulations). Clear signage to this effect shall be provided for construction workers at all access points. b. Idling times on all diesel-fueled off-road vehicles over 25 horsepower shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to two minutes and fleet operators must develop a written policy as required by Title 23, Section 2449, of the California Code of Regulations ("California Air Resources Board Off-Road Diesel Regulations"). c. All construction equipment shall be maintained and properly tuned in accordance with the manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation. Equipment check documentation should be kept at the construction site and be available for review by the City and the Bay Area Air Quality District as needed. d. Portable equipment shall be powered by grid electricity if available. If electricity is not available, propane or natural gas generators shall be used if feasible. Diesel engines shall only be used if grid electricity is not available and propane or natural gas generators cannot meet the electrical demand. e. Low VOC (i.e., ROG) coatings shall be used that comply with BAAQMD Regulation 8, Rule 3: Architectural Coatings. f. All equipment to be used on the construction site shall comply with the requirements of Title 13, Section 2449, of the California Code of Regulations ("California Air Resources Board Off-Road Diesel Regulations") and upon request by the City (and the Air District if specifically requested), the project applicant shall provide written documentation that fleet requirements have been met.

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		AQ3. Diesel Particulate Matter Controls – Construction Related The project applicant shall implement appropriate measures during construction to reduce potential health risks to sensitive receptors due to exposure to diesel particulate matter (DPM) from construction emissions. The project applicant shall choose one of the following methods: i. The project applicant shall retain a qualified air quality consultant to prepare a Health Risk Assessment (HRA) in accordance with current guidance from the California Air Resources Board (CARB) and Office of Environmental Health and Hazard Assessment to determine the health risk to sensitive receptors exposed to DPM from project construction emissions. The HRA shall be submitted to the City (and the Air District if specifically requested) for review and approval. If the HRA concludes that the health risk is at or below acceptable levels, then DPM reduction measures are not required. If the HRA concludes that the health risk exceeds acceptable levels, DPM reduction measures shall be identified to reduce the health risk to acceptable levels as set forth under subsection b below. Identified DPM reduction measures shall be submitted to the City for review and approval prior to the issuance of building permits and the approved DPM reduction measures shall be implemented during construction. -or- ii. All off-road diesel equipment shall be equipped with the most effective Verified Diesel Emission Control Strategies (VDECS) available for the engine type (Tier 4 engines automatically meet this requirement) as certified by CARB. The equipment shall be properly maintained and tuned in accordance with manufacturer specifications. This shall be verified through an equipment inventory submittal and Certification Statement that the Contractor agrees to compliance and acknowledges that a significant violation of this requirement shall constitute a material breach of contract. **AQ4. Exposure to Air Pollution (Toxic Air Contaminants)** a. Health Risk Reduction Measures The project applicant shall incorporate appropriate measures into the project design in order to reduce the potential health risk due to exposure to toxic air contaminants. The project applicant shall choose one of the following methods: i. The project applicant shall retain a qualified air quality consultant to prepare a Health Risk Assessment (HRA) in accordance with California Air Resources Board (CARB) and Office of Environmental Health and Hazard Assessment requirements to determine the health risk

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		of exposure of project residents/occupants/users to air pollutants. The HRA shall be submitted to the City for review and approval. If the HRA concludes that the health risk is at or below acceptable levels, then health risk reduction measures are not required. If the HRA concludes that the health risk exceeds acceptable levels, health risk reduction measures shall be identified to reduce the health risk to acceptable levels. Identified risk reduction measures shall be submitted to the City for review and approval and be included on the project drawings submitted for the construction-related permit or on other documentation submitted to the City. The approved risk reduction measures shall be implemented during construction and/or operations as applicable. - or - ii. The project applicant shall incorporate the following health risk reduction measures into the project. These features shall be submitted to the City for review and approval and be included on the project drawings submitted for the construction-related permit or on other documentation submitted to the City: • Installation of air filtration to reduce cancer risks and Particulate Matter (PM) exposure for residents and other sensitive populations in the project that are in close proximity to sources of air pollution. Air filter devices shall be rated MERV-13 [insert MERV-16 for projects located in the West Oakland Specific Plan area] or higher. As part of implementing this measure, an ongoing maintenance plan for the building's HVAC air filtration system shall be required. • Where appropriate, install passive electrostatic filtering systems, especially those with low air velocities (i.e., 1 mph). • Phasing of residential developments when proposed within 500 feet of freeways such that homes nearest the freeway are built last, if feasible. • The project shall be designed to locate sensitive receptors as far away as feasible from the source(s) of air pollution. Operable windows, balconies, and building air intakes shall be located as far away from these sources as feasible. If near a distribution center, residents shall be located as far away as feasible from a loading dock or where trucks concentrate to deliver goods. • Sensitive receptors shall be located on the upper floors of buildings, if feasible. • Planting trees and/or vegetation between sensitive receptors and pollution source, if feasible. Trees that are best suited to trapping PM shall be planted, including one or more of the following: Pine (Pinus nigra var. maritima), Cypress (X Cupressocyparis

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		leylandii), Hybrid poplar (Populus deltoids X trichocarpa), and Redwood (Sequoia sempervirens). • Sensitive receptors shall be located as far away from truck activity areas, such as loading docks and delivery areas, as feasible. • Existing and new diesel generators shall meet CARB's Tier 4 emission standards, if feasible. • Emissions from diesel trucks shall be reduced through implementing the following measures, if feasible: o Installing electrical hook-ups for diesel trucks at loading docks. o Requiring trucks to use Transportation Refrigeration Units (TRU) that meet Tier 4 emission standards. o Requiring truck-intensive projects to use advanced exhaust technology (e.g., hybrid) or alternative fuels. o Prohibiting trucks from idling for more than two minutes. o Establishing truck routes to avoid sensitive receptors in the project. A truck route program, along with truck calming, parking, and delivery restrictions, shall be implemented. b. <u>Maintenance of Health Risk Reduction Measures</u> The project applicant shall maintain, repair, and/or replace installed health risk reduction measures, including but not limited to the HVAC system (if applicable), on an ongoing and as-needed basis. Prior to occupancy, the project applicant shall prepare and then distribute to the building manager/operator an operation and maintenance manual for the HVAC system and filter including the maintenance and replacement schedule for the filter. ***Source Documents:*** 16, Appendix C

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes ☐ No ☒	The project site is in an urban area of Oakland, a city in the East Bay of the San Francisco Bay Area. The project is subject to requirements of the San Francisco Bay Conservation and Development Commission, as the designated governing body over the Local Coastal Program in the greater Bay Area. Activities requiring permit approval include: • Filling: Placing solid material, building pile-supported or cantilevered structures, disposing of material or permanently mooring vessels in the Bay or in certain tributaries of the Bay. • Dredging: Extracting material from the tidal waters. • Shoreline Projects: Nearly all work, including grading, on the land within 100 feet of the Bay shoreline. • Suisun Marsh Projects: Nearly all work, including land divisions, in the portion of the Suisun Marsh below the ten-foot contour level. • Other Projects: Any filling, new construction, major remodeling, substantial change in use, and many land subdivisions in the Bay, along the shoreline, in salt ponds, duck hunting preserves or other managed wetlands adjacent to the Bay. The proposed project does not involve activities within 100 feet of the shoreline or any of the other activities described above that requires a permit. The project site is approximately 0.9 miles from the shoreline and therefore not immediately adjacent to the Bay. A Coastal Development Permit is not required. ***Source Documents:*** 10, 17, 18
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes ☒ No ☐	**Site History** Multiple site investigations and remedial activities have been performed at the project site since 1990 related to contamination and toxic substances, including the following: • Site Investigation Report for Highway 880, Cypress Reconstruction - Area 4 dated August 28, 1992 and prepared by Geo/Resource Consultants, Inc. • Preliminary Endangerment Assessment (PEA) Volume II for 800 Cedar Street dated November 1993 and prepared by On-Site Technologies, Inc. • Underground Storage Tank Closure Report for Cypress "B" Freeway Reconstruction Project - Phoenix 800 Area "T" dated November 27, 1995 and prepared by OGISO Environmental. • Site Investigation Report for 800 Cedar Street dated March 8, 2000 and prepared by IT Corporation. • Sampling and Analysis Plan Phase II Soil Investigation

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		for 800 Cedar Street dated July 14, 2011 and prepared by Northgate Environmental Management, Inc. • Phase II Soil Investigation Report for 800 Cedar Street dated November 9, 2011 and prepared by Northgate. • Soil Stockpile Sampling Report for 800 Cedar Street dated December 31, 2013 and prepared by Geocon Consultants, Inc. • Soil and Groundwater Management Plan (SGMP) dated December 1, 2017 and prepared by P&D Environmental, Inc. • Conditional Approval of Additional Site Investigation Activities dated November 13, 2018 and prepared Alameda County Health Care Services Agency. • Limited Subsurface Investigation Report dated February 14, 2019 and prepared by P&D Environmental, Inc. • Phase I Environmental Site Assessment, Site bounded by 9th Street (north), Pine Street (east), Shorey Street (south), Frontage Road (west) dated March 26, 2019 and prepared by AEI Consultants. • Limited Subsurface Investigation Report dated July 13, 2020 and prepared by P&D Environmental, Inc. • Corrective Action Plan, The Phoenix, dated February 4, 2020 and prepared by P&D Environmental, Inc. • The Alameda County Department of Environmental Health Fact Sheet for The Phoenix Redevelopment Corrective Action Plan dated February 24, 2022. • Remedial Soil Excavation Plan, Corrective Action Implementation Plan, The Phoenix, dated March 21, 2022 and prepared by P&D Environmental, Inc. Currently, the site is managed under Alameda County Department of Environmental Health (ACDEH) case RO0003269. A complete record of environmental site investigations may be obtained in the case files on the State Water Resources Control Board's GeoTracker database (https://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000011072) and the ACDEH website. The site is listed as 888 Cedar Street in some records, but reconfiguration of I-880 has actually removed Cedar Street at this location. A separate Local Oversight Program (LOP) Case No. RO0000417 was historically associated with the former underground storage tank (UST) release that was located near the project site and the site was formerly managed as a California Department of Toxic Substances Control (DTSC) case, Phoenix 800 Property, EnviroStor ID 01330037. On November 21, 2017, the property owner entered into a

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		Voluntary Remedial Action Program Agreement with ACDEH, with concurrence from DTSC. Under the agreement, ACDEH will provide regulatory oversight for proposed redevelopment on APN 06-0047-001-00. Environmental Records Search In 2019, AEI Consultants prepared a Phase I Environmental Site Assessment (ESA) for the project site. The Phase I ESA included a review of regulatory database records in the project vicinity to identify nearby sites with known and suspected contamination and sites of potential environmental significance. A copy of the Phase I ESA is included in Appendix D, including the complete regulatory database search and radius map, and a summary of AEI's findings regarding potential environmental concerns associated with nearby sites is provided below. • Batavia Property (1832 Shorey Street): The site pertains to the adjacent property to the east, across 9th Street. A Preliminary Assessment/Site Inspection (PA/SI) was conducted by EPA in 1997; no contamination was found. DTSC certified the investigation as complete with no further action in 1998. Based on the lack of a documented release, the review of regulatory agency files for this site was not deemed necessary, and the site is not expected to represent a significant environmental concern. • Vacant Auto Repair (adjacent to the southwest): This site is assumed to pertain to the adjacent property to the southwest, across Shorey Street, which has since been redeveloped with the Nimitz Freeway and Frontage Road. A site screening was conducted in 1994; no contaminants were found. DTSC certified the investigation as complete with no further action in 1994. Based on the lack of a documented release, the inferred direction of groundwater flow, and redevelopment of the property, the site is not expected to represent a significant environmental concern. • Eds Automotive (1807 Shorey Street): This site pertains to a property adjacent to the southwest, across Shorey Street, which has since been redeveloped with the Nimitz Freeway and Frontage Road. According to this listing, this tenant occupied this location in 1967. Based on the lack of a documented release, the inferred direction of groundwater flow, and redevelopment of this property, the site is not expected to represent a significant environmental concern. • B & A Auto Dismantlers (1823 Shorey Street): The

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		site pertains to the adjacent property to the southwest, across Shorey Street. This area has since been used for construction of the Nimitz Freeway and Frontage Road. According to these listings, soil and groundwater investigations conducted in December 1992 found elevated concentrations of petroleum hydrocarbons and lead. Approximately 670 cubic yards of soil was excavated and transported for off-site disposal. This area was subsequently redeveloped with the existing frontage road. DTSC certified the remediation as complete with no further action in January 1997. Based on the case closure, the inferred direction of groundwater flow, and redevelopment of this property, the site is not expected to represent a significant environmental concern. Based on the review of regulatory database records, AEI Consultants determined that nearby sites do not pose a significant environmental concern to the proposed project. <u>Previous Uses</u> Historically, APN 006-0047-001-00, which includes the project site, was used for a variety of purposes between 1920 and the present, including auto parts manufacturing, steel and ironworks fabrication, and fireworks manufacturing. According to the 1993 PEA, the following company names and past activities have been located on the APN 006-0047-001-00: • The Dunn Cracker Co. from approximately 1889 to 1902 • California Bedding & Upholstery Co. from approximately 1902 to 1912 • A soap factory from some period of time between 1912 and 1931 • California Fireworks from approximately 1923 to 1927 • Independent Iron Works from 1924 to approximately 1960 • Pine Iron Works from some unknown time until 1990 • J&A Machine shop from 1985 through at least the date of the PEA (1993) • Phoenix Iron Works from approximately 1970 through at least the date of the PEA • Michael Bondi Metal Design from 1985 through at least November 1993 (the date of the PEA) • Cypress Auto Parts from 1970 through at least the November 1993 (the date of the PEA) • Ivan's Auto Body, Unknown Plastic Bag Co., Vennell Steel, and Terminal Manufacturing were located at

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		the subject site at unknown dates and for unknown durations The building covering APN 006-0047-001-00 was reportedly demolished in July 1995. Site Contamination History The project site is Parcel 1 (the southernmost parcel) of APN 006-0047-001-00. As previously mentioned, APN 006-0047-001-00 has been the subject of several site investigations. Previous investigations have identified the following contamination issues: • One 1,000-gallon diesel and one 2,600-gallon gasoline UST located northwest of the project site (where Frontage Road currently runs) were removed sometime between 1995 and 1997 and a total of 800 cubic yards of soil were excavated and disposed of as part of the UST removals. • Soil sampling performed during the tank removals indicated up to 17,000 parts per million (ppm) of lead and 44 ppm of arsenic in soil in the southwest corner of the former Phoenix Iron Works property, which is outside the current boundary of APN 006-0047-001-00. Soil excavation was initiated to remove these elevated metals concentrations, and during this excavation, two solvent-containing USTs (approximately 250 gallons and 25 gallons) and a settling sump were encountered west of the project site (where Frontage Road currently runs). A total of 3,300 cubic yards of soil were excavated and disposed of as part of this remedial action. • Soil sampling performed in 1999 indicated the western edge of APN 006-0047-001-00 has an area of total recoverable petroleum hydrocarbons (TRPH) in shallow soil in excess of 1,000 ppm, and this area was previously identified as containing "black-stained sand," indicative of soil impacted with petroleum hydrocarbons. • The 1999 soil sampling indicated two boring locations with elevated semi-volatile organic compound (SVOC) concentrations in shallow soil samples and the presence of elevated lead concentrations in shallow soil at multiple locations across APN 006-0047-001-00, including at locations on the project site. Based on recent subsurface investigation, the contaminants of concern at the project site include elevated lead in shallow soil and solvent vapors in soil gas (the air in between soil particles). The primary solvents of concern are tetrachloroethene (PCE) and trichloroethene (TCE). The Phase I Environmental Site Assessment prepared by AEI

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		Consultants in 2019 did not identify any offsite sources of contamination potentially migrating beneath the project site. **Corrective Action Plan** In February 2020, P&D Environmental Inc. prepared a Corrective Action Plan (CAP) for the entire block that the project site is located on (APN 006-0047-001-00). The purpose of the CAP is to reduce exposure of workers, future building occupants, and nearby receptors to contaminated environmental media. Exposure pathways include inhalation of airborne dust and vapors during construction, direct exposure to soil or groundwater during construction, ingestion of soil or groundwater during construction, post-construction inhalation of vapors resulting from vapor intrusion, and inhalation of vapors resulting from vapor intrusion migrating along preferential pathways. ACDEH has reviewed the CAP and the environmental conditions that are specific to only the proposed project site (Parcel 1 on APN 006-0047-001-00). On February 24, 2022, ACDEH issued a fact sheet for the cleanup of only the project site under the proposed CAP (i.e., the fact sheet does not address the cleanup of the entire block). The fact sheet identifies the proposed actions to cleanup contamination at the project site and the engineering controls that will be used to protect the health of the community and workers during site development. The CAP includes the following measures to address contamination found at the project site: • Excavating shallow soils across the site to remove shallow lead impacts and prepare for redevelopment construction. • Placing lead-impacted soil into the bottom of an excavation adjacent to the Frontage Road sound wall and backfilling the remaining excavation with clean soil. • Capping the area of lead-impacted soil with asphalt/concrete roadways to act as a protective cover over the impacted soil. • Installing vapor intrusion mitigation and migration engineering controls including a sub-slab vapor barrier and venting system beneath the planned buildings to prevent petroleum products and solvents from entering indoor air. • Installing plugs in new utility trenches to prevent off-Site migration of impacted soil vapor. • Implementing administrative and institutional controls including long-term monitoring and management of the vapor barriers and the cover material for the lead-impacted soil.

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		In March 2022, P&D Environmental Inc. prepared a draft Corrective Action Implementation Plan (CAIP) for the project, which is a plan set that describes construction activities and engineering techniques to protect the health of the community and workers from exposure to contaminated soil and dust during project site development. Measures that will be implemented for the project site include: • Implementation of a Soil and Groundwater Management Plan with protocols for handling and management of contaminated soil during site development. • Controlling dust during soil moving activities by using water and covering soil stockpiles. • Monitoring noise levels during site development activity and reducing equipment speeds or using noise mufflers, as needed. • Performing real-time perimeter air monitoring during soil disturbing work. • Cleaning truck tires and undercarriages to prevent track out of contaminated soil for any soil that is removed from the site. • Following the City of Oakland approved truck route for any soil that is removed from the site. • Using flaggers and traffic signage to safely manage construction-related traffic. • Installing signage that includes a phone number for more information on existing site fencing. Environmental work will not begin until ACDEH has approved the final CAIP. A copy of the ACDEH fact sheet, CAP, and draft CAIP for the cleanup of the project site is included in Appendix D. **Asbestos-Containing Materials** The subject property contains a concrete slab from previous warehouse buildings on the site. To be conservative, asbestos is assumed to be present in the concrete. **Conclusion** There is an open ACDEH case for the project site (Case #RO0003269), but the project site is currently part of a Voluntary Remedial Action Program Agreement with ACDEH. Site investigations and correspondence with ACDEH indicate that the project site can be remediated to achieve residential land use standards by implementing the cleanup measures identified in the final CAIP. The project will not introduce toxic, hazardous or radioactive materials to the neighborhood, nor does the project involve use of toxic chemicals or radioactive materials.

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		Mitigations Required: **CT1. Compliance with Corrective Action Implementation Plan (CAIP).** Ensure all measures identified in the final CAIP approved by Alameda County Department of Environmental Health for the project site are implemented during project construction. The City has adopted Uniformly Applied Development Standards imposed as Standard Conditions of Approval (SCAs) that apply to potential on-site hazards. Application of these standards would also ensure that new residences would not be exposed to hazardous materials. *SCAs Required:* **CT2. Asbestos in Structures.** The project applicant shall comply with all applicable laws and regulations regarding demolition and renovation of Asbestos Containing Materials (ACM), including but not limited to California Code of Regulations, Title 8; California Business and Professions Code, Division 3; California Health and Safety Code sections 25915-25919.7; and Bay Area Air Quality Management District, Regulation 11, Rule 2, as may be amended. Evidence of compliance shall be submitted to the City upon request. **CT3. Hazardous Materials Related to Construction.** The project applicant shall ensure that Best Management Practices (BMPs) are implemented by the contractor during construction to minimize potential negative effects on groundwater, soils, and human health. These shall include, at a minimum, the following: a. Follow manufacture's recommendations for use, storage, and disposal of chemical products used in construction; b. Avoid overtopping construction equipment fuel gas tanks; c. During routine maintenance of construction equipment, properly contain and remove grease and oils; d. Properly dispose of discarded containers of fuels and other chemicals; e. Implement lead-safe work practices and comply with all local, regional, state, and federal requirements concerning lead (for more information refer to the Alameda County Lead Poisoning Prevention Program); and f. If soil, groundwater, or other environmental medium with suspected contamination is encountered unexpectedly during construction activities (e.g., identified by odor or visual staining, or if any

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		underground storage tanks, abandoned drums or other hazardous materials or wastes are encountered), the project applicant shall cease work in the vicinity of the suspect material, the area shall be secured as necessary, and the applicant shall take all appropriate measures to protect human health and the environment. Appropriate measures shall include notifying the City and applicable regulatory agency(ies) and implementation of the actions described in the City's Standard Conditions of Approval, as necessary, to identify the nature and extent of contamination. Work shall not resume in the area(s) affected until the measures have been implemented under the oversight of the City or regulatory agency, as appropriate. **CT4. Hazardous Building Materials and Site Contamination.** a. <u>Hazardous Building Materials Assessment</u> The project applicant shall submit a comprehensive assessment report to the Bureau of Building, signed by a qualified environmental professional, documenting the presence or lack thereof of asbestos-containing materials (ACMs), lead-based paint, polychlorinated biphenyls (PCBs), and any other building materials or stored materials classified as hazardous materials by State or federal law. If lead-based paint, ACMs, PCBs, or any other building materials or stored materials classified as hazardous materials are present, the project applicant shall submit specifications prepared and signed by a qualified environmental professional, for the stabilization and/or removal of the identified hazardous materials in accordance with all applicable laws and regulations. The project applicant shall implement the approved recommendations and submit to the City evidence of approval for any proposed remedial action and required clearances by the applicable local, state, or federal regulatory agency. b. <u>Environmental Site Assessment Required</u> The project applicant shall submit a Phase I Environmental Site Assessment report, and Phase II Environmental Site Assessment report if warranted by the Phase I report, for the project site for review and approval by the City. The report(s) shall be prepared by a qualified environmental assessment professional and include recommendations for remedial action, as appropriate, for hazardous materials. The project applicant shall implement the approved recommendations and submit to the City evidence of approval for any proposed remedial action and required clearances by the applicable local, state, or federal regulatory agency. c. <u>Health and Safety Plan Required</u> The project applicant shall submit a Health and Safety Plan

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		for the review and approval by the City in order to protect project construction workers from risks associated with hazardous materials. The project applicant shall implement the approved Plan. d. <u>Best Management Practices (BMPs) Required for Contaminated Sites</u> The project applicant shall ensure that Best Management Practices (BMPs) are implemented by the contractor during construction to minimize potential soil and groundwater hazards. These shall include the following: i. Soil generated by construction activities shall be stockpiled on-site in a secure and safe manner. All contaminated soils determined to be hazardous or non-hazardous waste must be adequately profiled (sampled) prior to acceptable reuse or disposal at an appropriate off-site facility. Specific sampling and handling and transport procedures for reuse or disposal shall be in accordance with applicable local, state, and federal requirements. ii. Groundwater pumped from the subsurface shall be contained on-site in a secure and safe manner, prior to treatment and disposal, to ensure environmental and health issues are resolved pursuant to applicable laws and policies. Engineering controls shall be utilized, which include impermeable barriers to prohibit groundwater and vapor intrusion into the building. **CT5. Regulatory Permits and Authorizations from Other Agencies** The project applicant shall obtain all necessary regulatory permits and authorizations from applicable resource /regulatory agencies including, but not limited to, the Regional Water Quality Control Board, Bay Area Air Quality Management District, Bay Conservation and Development Commission, California Department of Fish and Wildlife, U. S. Fish and Wildlife Service, and Army Corps of Engineers and shall comply with all requirements and conditions of the permits/authorizations. The project applicant shall submit evidence of the approved permits/authorizations to the City, along with evidence demonstrating compliance with any regulatory permit/authorization conditions of approval. ***Source Documents:*** 19, 20, 21, 22, 23, 24, 25, Appendix D
Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes ☐ No ☒	The U.S. Fish and Wildlife was contacted for a list of Threatened and Endangered species that may occur within the boundary of the proposed project activities and/or may be affected by the proposed project. There are a number of Federal Endangered and Threatened species listed for the project site and vicinity, as listed

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		below. **Mammals:** • Salt Marsh Harvest mouse (*Reithrodontomys vaviventris*) **Birds** • California Clapper Rail (*Rallus longirostris obsoletus*) • California Least Tern (*Sterna antillarum browni*) • Western Snowy Plover (*Charadrius nivosus ssp. nivosus)* **Reptiles** • Alameda Whipsnake (*Masticophis lateralis euryxanthus)* • Green Sea Turtle (*Chelonia mydas*) • **Amphibians** • California red-legged frog *(Rana draytonii)* **Fish** • Tidewater goby *(Eucyclogobius newberryi)* • Delta smelt *(Hypomesus transpacificus)* **Plants** • Santa Cruz tarplant *(Holocarpha macradenia)* • California seablite *(Suaeda californica)* There is no aquatic habitat on the site for fish or crustaceans. There are no wetlands on the site. There is no riparian habitat on or near the site. There is no Critical Habitat on the site or vicinity. The project area is urban. There is very little exposed soil on the site or habitat for special-status species. The majority of the site is currently covered in concrete, and the site was previously developed with industrial uses. There are trees on and near the site, including two trees on the subject property, two street trees on Pine Street with canopies that extend over onto the site, and one street tree within 10 feet of proposed construction activities. These trees represent three species: *Robinia pseudoacacia, Acacia melanoxylon*, and *Quercus agrifolia var. agrifolia*. Four trees (two on the site and two with canopies overhanging the site) would be removed. Existing trees on and near the project site could provide suitable nesting habitat for some species of native birds. Tree removal and construction activities near active bird nests could result in the abandonment of the nesting effort and thus pose a potential significant impact on migratory birds. Active bird nests are protected by the federal Migratory Bird Treaty Act and the California Department of Fish and Wildlife. The City has adopted Uniformly Applied Development Standards imposed as Standard Conditions of Approval (SCAs) that apply to protection of birds during nesting

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		season for the trees which will be removed. Application of these standards would ensure the project would have a less than significant impact with respect to nesting birds, migratory birds and raptors. *SCAs Required:* **BR1. Tree Removal During Bird Breeding Season.** To the extent feasible, removal of any tree and/or other vegetation suitable for nesting of birds shall not occur during the bird breeding season of February 1 to August 15 (or during December 15 to August 15 for trees located in or near marsh, wetland, or aquatic habitats). If tree removal must occur during the bird breeding season, all trees to be removed shall be surveyed by a qualified biologist to verify the presence or absence of nesting raptors or other birds. Pre-removal surveys shall be conducted within 15 days prior to the start of work and shall be submitted to the City for review and approval. If the survey indicates the potential presence of nesting raptors or other birds, the biologist shall determine an appropriately sized buffer around the nest in which no work will be allowed until the young have successfully fledged. The size of the nest buffer will be determined by the biologist in consultation with the California Department of Fish and Wildlife, and will be based to a large extent on the nesting species and its sensitivity to disturbance. In general, buffer sizes of 200 feet for raptors and 50 feet for other birds should suffice to prevent disturbance to birds nesting in the urban environment, but these buffers may be increased or decreased, as appropriate, depending on the bird species and the level of disturbance anticipated near the nest. **BR2. Tree Permit.** a. <u>Tree Permit Required</u> Pursuant to the City's Tree Protection Ordinance (OMC chapter 12.36), the project applicant shall obtain a tree permit and abide by the conditions of that permit. b. <u>Tree Protection During Construction</u> Adequate protection shall be provided during the construction period for any trees which are to remain standing, including the following, plus any recommendations of an arborist: i. Before the start of any clearing, excavation, construction, or other work on the site, every protected tree deemed to be potentially endangered by said site work shall be securely fenced off at a distance from the base of the tree to be determined by the project's consulting arborist. Such fences shall remain in place for duration of all such work. All trees to be removed shall be clearly marked. A scheme shall be established for the

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		removal and disposal of logs, brush, earth and other debris which will avoid injury to any protected tree. ii. Where proposed development or other site work is to encroach upon the protected perimeter of any protected tree, special measures shall be incorporated to allow the roots to breathe and obtain water and nutrients. Any excavation, cutting, filling, or compaction of the existing ground surface within the protected perimeter shall be minimized. No change in existing ground level shall occur within a distance to be determined by the project's consulting arborist from the base of any protected tree at any time. No burning or use of equipment with an open flame shall occur near or within the protected perimeter of any protected tree. iii. No storage or dumping of oil, gas, chemicals, or other substances that may be harmful to trees shall occur within the distance to be determined by the project's consulting arborist from the base of any protected trees, or any other location on the site from which such substances might enter the protected perimeter. No heavy construction equipment or construction materials shall be operated or stored within a distance from the base of any protected trees to be determined by the project's consulting arborist. Wires, ropes, or other devices shall not be attached to any protected tree, except as needed for support of the tree. No sign, other than a tag showing the botanical classification, shall be attached to any protected tree. iv. Periodically during construction, the leaves of protected trees shall be thoroughly sprayed with water to prevent buildup of dust and other pollution that would inhibit leaf transpiration. v. If any damage to a protected tree should occur during or as a result of work on the site, the project applicant shall immediately notify the Public Works Department and the project's consulting arborist shall make a recommendation to the City Tree Reviewer as to whether the damaged tree can be preserved. If, in the professional opinion of the Tree Reviewer, such tree cannot be preserved in a healthy state, the Tree Reviewer shall require replacement of any tree removed with another tree or trees on the same site deemed adequate by the Tree Reviewer to compensate for the loss of the tree that is removed. vi. All debris created as a result of any tree removal work shall be removed by the project applicant from the property within two weeks of debris creation, and such debris shall be properly disposed of by the project applicant in accordance with all applicable laws, ordinances, and regulations. c. <u>Tree Replacement Plantings</u>

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		Replacement plantings shall be required for tree removals for the purposes of erosion control, groundwater replenishment, visual screening, wildlife habitat, and preventing excessive loss of shade, in accordance with the following criteria: i. No tree replacement shall be required for the removal of nonnative species, for the removal of trees which is required for the benefit of remaining trees, or where insufficient planting area exists for a mature tree of the species being considered. ii. Replacement tree species shall consist of Sequoia sempervirens (Coast Redwood), Quercus agrifolia (Coast Live Oak), Arbutus menziesii (Madrone), Aesculus californica (California Buckeye), Umbellularia californica (California Bay Laurel), or other tree species acceptable to the Tree Division. iii. Replacement trees shall be at least twenty-four (24) inch box size, unless a smaller size is recommended by the arborist, except that three fifteen (15) gallon size trees may be substituted for each twenty-four (24) inch box size tree where appropriate. iv. Minimum planting areas must be available on-site as follows: • For Sequoia sempervirens, three hundred fifteen (315) square feet per tree; • For other species listed, seven hundred (700) square feet per tree. v. In the event that replacement trees are required but cannot be planted due to site constraints, an in lieu fee in accordance with the City's Master Fee Schedule may be substituted for required replacement plantings, with all such revenues applied toward tree planting in city parks, streets and medians. vi. The project applicant shall install the plantings and maintain the plantings until established. The Tree Reviewer of the Tree Division of the Public Works Department may require a landscape plan showing the replacement plantings and the method of irrigation. Any replacement plantings which fail to become established within one year of planting shall be replanted at the project applicant's expense. ***Source Documents:*** 8, 26, 27, Appendix E
Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes ☐ No ☒	The project is located in an area surrounded by residential and light industrial land uses and the project does not involve explosive or flammable materials or operations. Based on review of aerial photographs, there are two above-ground storage tanks (ASTs) west of the project site (see below).

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		 On February 1, 2022, a file request was submitted to the ACDEH, the Certified Unified Program Agency for the City of Oakland, to obtain information on the status of the ASTs. Based on the assessor parcel numbers and property addresses provided for each site, ACDEH reported that they could not find any records of the ASTs in their database. On February 3, 2022, the file request was expanded to search for ASTs on any nearby properties, including properties owned by Southern Pacific Railroad or Union Pacific Railroad. Based on the expanded search, ACDEH confirmed that they still could not find any records of the ASTs on the target properties. While information about the content of each tank is not readily available from ACDEH, the HUD's Acceptable Separation Distance (ASD) Electronic Assessment Tool can be used to conservatively estimate the ASD for potential explosion and fire hazards from each tank. Based on a review of aerial photographs and Google Street View images, both tanks have flat heads, which indicates they are not pressurized, and both tanks are surrounded by dikes. Pressurized tanks have rounded heads (e.g., propane tanks), because the seam along the edge of a flat top tank would be vulnerable to bursting. Therefore, the input parameters for the ASD Tool only requires the dimensions of each dike, which can be measured for aerial photographs, to conservatively estimate explosion and fire hazards for a worst-case scenario. Tank #1 is located about 1,500 feet west of the project site. Based on review of an Initial Site Assessment prepared for the Freight Intelligent Transportation System Project, historical Sanborn Fire Insurance Maps indicate that Tank #1 is an approximately 20,000-barrel (840,000-gallon) fuel AST that was constructed in the early 1960s and the tank currently appears to be connected to jet fuel pipelines owned by Kinder Morgan. In the event of an accidental release, the tank is surrounded by a dike. Assuming the tank is still active, the HUD's ASD Electronic Assessment Tool was used to conservatively estimate the ASD for potential explosion and fire hazards from the tank. As shown in

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		Appendix F, the maximum ASD from Tank #1 is about 615 feet based on thermal radiation hazards to people. The project is located well beyond the ASD for Tank #1; therefore, Tank #1 does not pose an explosion or fire hazard to the proposed project. Tank #2 is located about 1,900 feet southwest of the project site and appears to be located on the Pacific Rail Services property at 600 Maritime Street in Oakland. In the event of an accidental release, the tank is surrounded by a dike. According to the CalEPA Regulated Site Portal, chemicals commonly used at the Pacific Rail Services property include diesel exhaust fluid, gear oil, hydraulic oil, motor oil, cleaner solution, propane, transmission fluid, anti-freeze, and waste oil. Regardless of the type of chemical stored in Tank #2, the HUD's ASD Electronic Assessment Tool can be used to conservatively estimate the ASD for potential explosion and fire hazards from the tank based on the dimensions of the dike. As shown in Appendix F, the maximum ASD from Tank #2 is about 356 feet based on thermal radiation hazards to people. The project is located well beyond the ASD for Tank #2; therefore, Tank #2 does not pose an explosion or fire hazard to the proposed project. Based on the ASD calculations, the project site is located at an acceptable distance from the existing ASTs and would not be affected by potential explosion or fire hazards. ***Source Documents:*** 27, 28, 29, 75, Appendix F
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes ☐ No ☒	The project is located in an area surrounded by residential and light industrial land uses; the project is located in an urban area and will not affect farmland. ***Source Documents:*** 30

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes ☐ No ☒	The subject property is not located within a 100-year floodplain (Zones A or V) or 500-year floodplain (Zone B) identified on a Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM). The project involves acquisition and development of real property. The area is a Flood Hazard Area Designation Zone X: Areas of minimal flooding. No Base Flood Elevations or depths are shown within this zone. Insurance purchase is not required in these zones. Flood hazard designation is depicted on FIRM Map Number 06001C0059G, with an effective date of August 3, 2009. The project would have no effect on floodplains. ***Source Documents:*** 15, Appendix B
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes ☒ No ☐	**Undertaking** EBALDC proposes acquire and manage the mixed-use affordable housing project known as The Phoenix on one lot that totals 0.90 acres (Parcel 1 of APN 006-0047-001-00) at the northwest corner of Pine Street and 8th Street in Oakland, California 94607 that would be constructed by Holliday Development. The project address is 801 Pine Street in Oakland, California 94607. The project will demolish existing at-grade concrete slabs from former warehouse buildings on the project site, as well as any underground utilities or foundations found during project construction from previous site development. The proposal will construct a four-story, 101-unit residential building, and two-story community building. Approximately half of the units will be permanent supportive housing (PSH). The rest of the residential units will be reserved for low-income households, with incomes no greater than 60 percent of the AMI. The unit mix will be 82 studios, 3 one-bedroom units, and 16 two-bedroom units. **Area of Potential Effects** The area of potential effects (APE) for the proposed project consists of the entire block that contains the project site on its south half, and the first row of adjacent buildings to the north, east, and south; there are no buildings to the west. There are 29 parcels within the indirect architectural APE, of these, 19 contain at least one building and one contains a structure, while the remainder are vacant. The archaeological APE is limited to the south half of parcel APN 006-0047-001-00, which is the block bounded by 9th/Pine/Shorey streets, and the frontage road to I-880 as well as Shorey Street. The vertical archeological APE is 10

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		feet below the ground surface to accommodate utility installations/connections, and 56 feet above the ground surface to reflect the highest point of the new facilities. **Oakland Cultural Heritage Survey (OCHS)/Historical and Architectural Rating System** The Rating System, adopted in the Oakland General Plan, Historic Preservation Element, is shorthand for the relative importance of properties. The system uses letters A to E to rate individual properties and numbers 1 to 3 for district status. Individual properties can have dual ("existing" and "contingency") ratings if they have been remodeled, and if they are in districts, they can be contributors, non-contributors, or potential contributors. In general, A and B ratings indicate landmark-quality buildings. **Evaluation** Horizon Water and Environment, LLC, prepared a Cultural Resources Assessment Report for the project in April 2022, which is included in Appendix G. The following section summarizes the findings. Subject Property The subject parcel is vacant. It is not a local landmark and does not have an OCHS rating. Surrounding Buildings Parcels adjacent to the project site contain a mix of multi- and single-family residential, industrial, and special-purpose buildings dating from the 1870s through the present. Eight parcels surrounding the project site contain buildings within the Oakland Point Historic District, which was determined to be eligible for listing in the National Register of Historic Places (NRHP) in 1990. An additional building located at 1791 8th Street is located within the APE but outside of the Oakland Point Historic District, and appears to be eligible for listing in the NRHP. The remaining buildings within the APE are either not historic period buildings (i.e., generally built within the last 50 years), lack architectural significance, or have been altered substantially and lack integrity. The Secretary of the Interior's Standards for the Treatment of Historic Properties provides guidelines for the preservation and rehabilitation of historic properties. Most of these standards are directly related to the physical modification of individual buildings in some manner and are not pertinent to the proposed project. However, the following standards would be applicable to the proposed project: • *Standard 3: Each property will be recognized as a physical record of its time, place and use. Changes that create a false sense of historical development,*

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		such as adding conjectural features or elements from other historic properties, will not be undertaken. The prohibition on conjectural features refers to application of "fantasy" architectural details to a historic-era building when such details have not been documented as original features. It therefore does not apply to the proposed project. Project design will allow the new buildings to be recognized as a physical record of their time, place, and use. The project will avoid creating a false sense of historical development, and repurposed elements of historic properties will not be utilized in the proposed project. Therefore, the proposed project conforms to this standard. • *Standard 8: Archeological resources will be protected and preserved in place. If such resources must be disturbed, mitigation measures will be undertaken.* As discussed below, no archaeological resources were identified during a pedestrian survey of the archaeological APE. However, construction of the proposed project has the potential to uncover buried archaeological remains that may be determined to be historic properties. As discussed below, should unanticipated discovery of archaeological resources occur, appropriate measures would be implemented if the archaeological resources cannot be avoided. Therefore, the proposed project conforms to this standard. • *Standard 9: New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work will be differentiated from the old and will be compatible with the historic materials, features, size, scale and proportion, and massing to protect the integrity of the property and its environment.* The proposed project will not destroy historic materials, features, or spatial relationships that characterize adjacent historic properties or the historic district. The new buildings will be differentiated from adjacent buildings by using a contemporary rather than a historicist architectural style. The project design will avoid inappropriate application of historicist ornament onto the essentially contemporary design of the building. Features such as vertical window openings will be utilized to respond to the design vocabulary of the existing historic neighborhood without mimicking its architecture. Variation in color, texture, and materials will respond to the rhythm of historic single-family residences across the street. Utilization of board-form concrete and

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		horizontal board cladding will create compatibility of materials with the historic neighborhood. Size, scale, massing, and proportion will also be compatible with the nearby historic residential buildings, the closest of which are across the street. During the historic era, the subject property was the site of an industrial/warehouse facility similar in scale and massing to the proposed project. Furthermore, the proposed project has been designed to be stepped down in the areas closest to the historic district, with two-and three-story volumes nearest the historic residences and four-story volumes behind. For these reasons, the proposed project protects the integrity of individual historic buildings as well as the historic district and its environment. Therefore, the proposed project conforms to this standard. • *Standard 10: New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.* Future reversal of the proposed project would not impair the essential form and integrity of adjacent historic properties or historic districts. Therefore, the proposed project conforms to this standard. Therefore, the proposed project would conform to the applicable standards and would have no adverse effect on historic properties. **Archaeology** A records search of the project site was conducted on May 1, 2020, at the Northwest Information Center (NWIC) of the California Historical Resources Information System, Sonoma State University, Rohnert Park, California. The record search at NWIC revealed that four previous cultural resources field surveys have included the current direct APE, none of which identified archaeological cultural resources in the project site. **Native American Contacts** The proposed project involves significant ground disturbance during excavation for building foundation construction and other improvements. On November 19, 2021, the Native American Heritage Commission (NAHC) was contacted to request a search of that agency's Sacred Lands File for the project site and to obtain a list of local Native American tribes that are eligible to consult for the project. On February 14, 2022, the NAHC replied that a search of the Sacred Lands File indicated that cultural sites

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		are present, and that the Amah Mutsun Tribal Band of Mission San Juan Bautista and Northern Valley Yokut Tribe should be contacted. On January 27, 2022, 11 tribes, including the Amah Mutsun Tribal Band of Mission San Juan Bautista and Northern Valley Yokut Tribe, were contacted and invited to be a consulting party. On January 31, 2022, Corrina Gould, Chairperson, of the Confederated Villages of Lisjan, requested results of NAHC sacred lands search and a copy of the cultural resources report. A response was sent on behalf of the City on the same day, noting that the NAHC had not responded, and that the cultural report would be made available when it was completed. In a subsequent email on February 9, 2022, Ms. Gould noted that the project site is near a potentially significant site. Additional project locational information was provided via email on the same day. On April 27, 2022, Ms. Gould was provided the Cultural Resources Assessment Report. On May 25, 2022, Ms. Gould stated that “this area has been destroyed as far as our cultural resources.” However, Ms. Gould indicated concern related to the positive Sacred Lands File results, and requested consultation. On June 15, 2022, EBALDC met with Ms. Gould to discuss the potential impacts related to tribal cultural resources. On June 17, Ms. Gould indicated that consultation was complete and that no additional measures would be required. **Evaluation of Effects** No archaeological historic properties or historic properties of tribal importance were identified in the direct APE. The proposed project would have no adverse effect on historic properties within the indirect APE. **Recommended Determination** For purposes of Section 106 Review of this undertaking, LSA recommended that the Agency Official for HUD (City of Oakland) concur with the APE and determine that no historic properties would be affected by the undertaking. This finding is supported there are no historic properties within the APE, and that implementation of the proposed project would not result in any adverse effects to surrounding historic properties. **Consultation** On April 28, 2020, the Agency Official concurred with the description of the undertaking, the APE, the recommended determination of no effects to historic properties and initiated consultation with the California State Office of Historic Preservation (SHPO) with a letter and evaluation

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		materials. On June 6, 2022, the SHPO officer replied with a letter stating "Unfortunately, due to an extremely high workload, I was unable to review this project within the 30-day comment period allowed under the Section 106 regulations. Please proceed pursuant to 36 CFR Part 800.3(c)(4) Failure of the SHPO/THPO to respond. You can include this correspondence in the environmental record to demonstrate the City Oakland's efforts to consult under Section 106 of the National Historic Preservation Act." The City of Oakland has adopted Uniformly Applied Development Standards imposed as Standard Conditions of Approval (SCA) that apply to the potential discovery of archeological and paleontological resources as well as human remains on-site. *Standard Conditions of Approval Required* **CR1: Archaeological and Paleontological Resources – Discovery During Construction** Pursuant to CEQA Guidelines section 15064.5(f), in the event that any historic or prehistoric subsurface cultural resources are discovered during ground disturbing activities, all work within 50 feet of the resources shall be halted and the project applicant shall notify the City and consult with a qualified archaeologist or paleontologist, as applicable, to assess the significance of the find. In the case of discovery of paleontological resources, the assessment shall be done in accordance with the Society of Vertebrate Paleontology standards. If any find is determined to be significant, appropriate avoidance measures recommended by the consultant and approved by the City must be followed unless avoidance is determined unnecessary or infeasible by the City. Feasibility of avoidance shall be determined with consideration of factors such as the nature of the find, project design, costs, and other considerations. If avoidance is unnecessary or infeasible, other appropriate measures (e.g., data recovery, excavation) shall be instituted. Work may proceed on other parts of the project site while measures for the cultural resources are implemented. In the event of data recovery of archaeological resources, the project applicant shall submit an Archaeological Research Design and Treatment Plan (ARDTP) prepared by a qualified archaeologist for review and approval by the City. The ARDTP is required to identify how the proposed data recovery program would preserve the significant information the archaeological resource is expected to contain. The ARDTP shall identify the scientific/historic research questions applicable to the expected resource, the data classes the

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		resource is expected to possess, and how the expected data classes would address the applicable research questions. The ARDTP shall include the analysis and specify the curation and storage methods. Data recovery, in general, shall be limited to the portions of the archaeological resource that could be impacted by the proposed project. Destructive data recovery methods shall not be applied to portions of the archaeological resources if nondestructive methods are practicable. Because the intent of the ARDTP is to save as much of the archaeological resource as possible, including moving the resource, if feasible, preparation and implementation of the ARDTP would reduce the potential adverse impact to less than significant. The project applicant shall implement the ARDTP at his/her expense. In the event of excavation of paleontological resources, the project applicant shall submit an excavation plan prepared by a qualified paleontologist to the City for review and approval. All significant cultural materials recovered shall be subject to scientific analysis, professional museum curation, and/or a report prepared by a qualified paleontologist, as appropriate, according to current professional standards and at the expense of the project applicant. **CR2. Archaeologically Sensitive Areas – Pre-Construction Measures** The project applicant shall implement either Provision A (Intensive Pre-Construction Study) or Provision B (Construction ALERT Sheet) concerning archaeological resources. **Provision A: Intensive Pre-Construction Study** The project applicant shall retain a qualified archaeologist to conduct a site-specific, intensive archaeological resources study for review and approval by the City prior to soil-disturbing activities occurring on the project site. The purpose of the site-specific, intensive archaeological resources study is to identify early the potential presence of history-period archaeological resources on the project site. At a minimum, the study shall include: a. Subsurface presence/absence studies of the project site. Field studies may include, but are not limited to, auguring and other common methods used to identify the presence of archaeological resources. b. A report disseminating the results of this research. c. Recommendations for any additional measures that could be necessary to mitigate any adverse impacts to recorded and/or inadvertently discovered cultural resources. If the results of the study indicate a high potential presence of historic-period archaeological resources on the project

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		site, or a potential resource is discovered, the project applicant shall hire a qualified archaeologist to monitor any ground disturbing activities on the project site during construction and prepare an ALERT sheet pursuant to Provision B below that details what could potentially be found at the project site. Archaeological monitoring would include briefing construction personnel about the type of artifacts that may be present (as referenced in the ALERT sheet, required per Provision B below) and the procedures to follow if any artifacts are encountered, field recording and sampling in accordance with the Secretary of Interior's Standards and Guidelines for Archaeological Documentation, notifying the appropriate officials if human remains or cultural resources are discovered, and preparing a report to document negative findings after construction is completed if no archaeological resources are discovered during construction. **Provision B: Construction ALERT Sheet** The project applicant shall prepare a construction "ALERT" sheet developed by a qualified archaeologist for review and approval by the City prior to soil-disturbing activities occurring on the project site. The ALERT sheet shall contain, at a minimum, visuals that depict each type of artifact that could be encountered on the project site. Training by the qualified archaeologist shall be provided to the project's prime contractor, any project subcontractor firms (including demolition, excavation, grading, foundation, and pile driving), and utility firms involved in soil-disturbing activities within the project site. The ALERT sheet shall state, in addition to the basic archaeological resource protection measures contained in other standard conditions of approval, all work must stop and the City's Environmental Review Officer contacted in the event of discovery of the following cultural materials: concentrations of shellfish remains; evidence of fire (ashes, charcoal, burnt earth, fire-cracked rocks); concentrations of bones; recognizable Native American artifacts (arrowheads, shell beads, stone mortars [bowls], humanly shaped rock); building foundation remains; trash pits, privies (outhouse holes); floor remains; wells; concentrations of bottles, broken dishes, shoes, buttons, cut animal bones, hardware, household items, barrels, etc.; thick layers of burned building debris (charcoal, nails, fused glass, burned plaster, burned dishes); wood structural remains (building, ship, wharf); clay roof/floor tiles; stone walls or footings; or gravestones. Prior to any soil-disturbing activities, each contractor shall be responsible for ensuring that the ALERT sheet is circulated to all field personnel, including machine operators, field crew, pile drivers, and supervisory personnel. The ALERT sheet shall also be posted in a visible

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		location at the project site. **CR3. Human Remains – Discovery During Construction** Pursuant to CEQA Guidelines section 15064.5(e)(1), in the event that human skeletal remains are uncovered at the project site during construction activities, all work shall immediately halt and the project applicant shall notify the City and the Alameda County Coroner. If the County Coroner determines that an investigation of the cause of death is required or that the remains are Native American, all work shall cease within 50 feet of the remains until appropriate arrangements are made. In the event that the remains are Native American, the City shall contact the California Native American Heritage Commission (NAHC), pursuant to subdivision (c) of section 7050.5 of the California Health and Safety Code. If the agencies determine that avoidance is not feasible, then an alternative plan shall be prepared with specific steps and timeframe required to resume construction activities. Monitoring, data recovery, determination of significance, and avoidance measures (if applicable) shall be completed expeditiously and at the expense of the project applicant. ***Source Documents:*** 34, 35, 36,37, 38, Appendix G
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes ☒ No ☐	The project would include construction of a residential building with 101 affordable units and a community building consisting of office spaces, community room, and utility spaces that support the residential building. The primary noise generation from the long-term operation of the project would occur as a result of increased vehicular traffic on area roads and the use of mechanical heating, ventilation, and air conditioning (HVAC) systems. <u>Traffic Noise</u> The existing ambient noise levels along Pine Street are approximately 72 dBA L_{dn}. Generally, during the peak traffic hour under normal traffic conditions, Ldn is within plus or minus 2 dBA of the L_{eq}. Therefore, the existing AM and PM peak hour traffic noise levels range from approximately 70-74 dBA L_{eq}. A Transportation Assessment for a Preliminary Development Plan (PDP) to redevelop APN 006-0047-001-00 (including the proposed project and other components that would also generate vehicular traffic) found the PDP would generate 84 peak AM trips and 97 peak PM trips, and that the proposed project would generate approximately 23 AM peak hour trips and 27 PM peak hour trips. Using the FHWA TNM Version 2.5 model and conservatively assuming all the peak hour traffic (for the PDP) is generated on one roadway segment, these trips would generate noise levels of approximately 49.0 and 49.7 dBA Leq respectively, at 50 feet from the centerline of the road. Therefore, the ambient

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		noise levels are more than 10 dBA higher than the potential traffic noise generated by the project. When the difference between two co-located sources of noise is 10 dBA or more, the higher noise source dominates and the lower noise source makes no perceptible difference in what people can hear or measure. Therefore, the traffic noise generated by the project would not have a perceivable increase in the ambient noise levels (i.e., less than a 3 dBA increase). Consequently, the potential of the proposed project to result in a significant increase in ambient noise due to the increased vehicular traffic on area roads is not considerable. <u>HVAC Systems</u> During operation of the project, noise would be generated from HVAC systems. However, operations are not expected to generate noise levels that would be considered substantial in terms of existing or future noise levels in the area. Future noise levels in the project vicinity will continue to result from local transportation related noise sources. Occasional audible noises from the proposed residential land uses will not measurably contribute to daily average noise. <u>Construction Noise</u> The primary noise effects from construction of the project would occur from the noise generated by the operation of heavy construction equipment on the project site. The project would not involve pile driving, which, if included, could generate extreme levels of noise. The closest noise-sensitive receptors are residences located approximately 55 feet to the east of the project site across Pine Street. Baseline Environmental Consulting calculated that the two typical noisiest pieces of equipment[8] located at 55 feet away could generate noise levels of about 87 dBA. The existing ambient noise levels along Pine Street are approximately 72 dBA Ldn. Therefore, construction equipment could cause a substantial temporary increase in noise levels at surrounding land uses. However, construction noise will be subject to Section 17.120 of City of Oakland Planning Code and Section 8.18 of the Municipal Code. The City has adopted Uniformly Applied Development Standards imposed as Standard Conditions of Approval (SCAs) that apply to potential construction noise. Application of these standards would ensure that the project would have a less than significant impact with respect to construction noise impacts. *SCAs Required:*

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[8] It is assumed that each noisiest piece of equipment would generate noise of 85 dBA at 50 feet.

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		N1. Operational Noise Noise levels from the project site after completion of the project (i.e., during project operation) shall comply with the performance standards of chapter 17.120 of the Oakland Planning Code and chapter 8.18 of the Oakland Municipal Code. If noise levels exceed these standards, the activity causing the noise shall be abated until appropriate noise reduction measures have been installed and compliance verified by the City. **N2. Construction Days/Hours** The project applicant shall comply with the following restrictions concerning construction days and hours: a. Construction activities are limited to between 7:00 a.m. and 7:00 p.m. Monday through Friday, except that pier drilling and/or other extreme noise generating activities greater than 90 dBA shall be limited to between 8:00 a.m. and 4:00 p.m. b. Construction activities are limited to between 9:00 a.m. and 5:00 p.m. on Saturday. In residential zones and within 300 feet of a residential zone, construction activities are allowed from 9:00 a.m. to 5:00 p.m. only within the interior of the building with the doors and windows closed. No pier drilling or other extreme noise generating activities greater than 90 dBA are allowed on Saturday. c. No construction is allowed on Sunday or federal holidays. Construction activities include, but are not limited to, truck idling, moving equipment (including trucks, elevators, etc.) or materials, deliveries, and construction meetings held on-site in a non-enclosed area. Any construction activity proposed outside of the above days and hours for special activities (such as concrete pouring which may require more continuous amounts of time) shall be evaluated on a case-by-case basis by the City, with criteria including the urgency/emergency nature of the work, the proximity of residential or other sensitive uses, and a consideration of nearby residents'/occupants' preferences. The project applicant shall notify property owners and occupants located within 300 feet at least 14 calendar days prior to construction activity proposed outside of the above days/hours. When submitting a request to the City to allow construction activity outside of the above days/hours, the project applicant shall submit information concerning the type and duration of proposed construction activity and the draft public notice for City review and approval prior to distribution of the public notice.

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		N3. Construction Noise The project applicant shall implement noise reduction measures to reduce noise impacts due to construction. Noise reduction measures include, but are not limited to, the following: a. Equipment and trucks used for project construction shall utilize the best available noise control techniques (e.g., improved mufflers, equipment redesign, use of intake silencers, ducts, engine enclosures and acoustically-attenuating shields or shrouds) wherever feasible. b. Except as provided herein, impact tools (e.g., jack hammers, pavement breakers, and rock drills) used for project construction shall be hydraulically or electrically powered to avoid noise associated with compressed air exhaust from pneumatically powered tools. However, where use of pneumatic tools is unavoidable, an exhaust muffler on the compressed air exhaust shall be used; this muffler can lower noise levels from the exhaust by up to about 10 dBA. External jackets on the tools themselves shall be used, if such jackets are commercially available, and this could achieve a reduction of 5 dBA. Quieter procedures shall be used, such as drills rather than impact equipment, whenever such procedures are available and consistent with construction procedures. c. Applicant shall use temporary power poles instead of generators where feasible. d. Stationary noise sources shall be located as far from adjacent properties as possible, and they shall be muffled and enclosed within temporary sheds, incorporate insulation barriers, or use other measures as determined by the City to provide equivalent noise reduction. e. The noisiest phases of construction shall be limited to less than 10 days at a time. Exceptions may be allowed if the City determines an extension is necessary and all available noise reduction controls are implemented. **N4. Construction Noise Complaints** The project applicant shall submit to the City for review and approval a set of procedures for responding to and tracking complaints received pertaining to construction noise, and shall implement the procedures during construction. At a minimum, the procedures shall include: a. Designation of an on-site construction complaint and enforcement manager for the project; b. A large on-site sign near the public right-of-way containing permitted construction days/hours, complaint procedures, and phone numbers for the project complaint manager and City Code Enforcement unit; c. Protocols for receiving, responding to, and tracking

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
		received complaints; and d. Maintenance of a complaint log that records received complaints and how complaints were addressed, which shall be submitted to the City for review upon the City's request. **N5. Extreme Construction Noise** a. Construction Noise Management Plan Required Prior to any extreme noise generating construction activities (e.g., pier drilling, pile driving and other activities generating greater than 90dBA), the project applicant shall submit a Construction Noise Management Plan prepared by a qualified acoustical consultant for City review and approval that contains a set of site-specific noise attenuation measures to further reduce construction impacts associated with extreme noise generating activities. The project applicant shall implement the approved Plan during construction. Potential attenuation measures include, but are not limited to, the following: i. Erect temporary plywood noise barriers around the construction site, particularly along on sites adjacent to residential buildings; ii. Implement "quiet" pile driving technology (such as pre-drilling of piles, the use of more than one pile driver to shorten the total pile driving duration), where feasible, in consideration of geotechnical and structural requirements and conditions; iii. Utilize noise control blankets on the building structure as the building is erected to reduce noise emission from the site; iv. Evaluate the feasibility of noise control at the receivers by temporarily improving the noise reduction capability of adjacent buildings by the use of sound blankets for example and implement such measure if such measures are feasible and would noticeably reduce noise impacts; and v. Monitor the effectiveness of noise attenuation measures by taking noise measurements. b. Public Notification Required The project applicant shall notify property owners and occupants located within 300 feet of the construction activities at least 14 calendar days prior to commencing extreme noise generating activities. Prior to providing the notice, the project applicant shall submit to the City for review and approval the proposed type and duration of extreme noise generating activities and the proposed public notice. The public notice shall provide the estimated start and end dates of the extreme noise generating activities and describe noise attenuation measures to be implemented. Source Document(s): 39, 40, 41

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	Yes ☐ No ☒	The project activities do not affect a sole source aquifer, as there are no aquifers subject to a MOU between EPA and HUD in Alameda County. ***Source Documents:*** 42
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes ☐ No ☒	The site does not appear on the National Wetlands Inventory database. The site does not contain any on-site wetlands or jurisdictional waters. No further consultations are required. ***Source Documents:*** 43, Appendix B
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes ☐ No ☒	No wild and scenic rivers are located within Alameda County. ***Source Documents:*** 44, 45

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance Determinations**
ENVIRONMENTAL JUSTICE		
Environmental Justice Executive Order 12898	Yes ☐ No ☒	According to EPA EJ Screen, the EPA's Environmental Justice Screening and Mapping Tool, the project site is in a low-income and minority neighborhood. Racial and/or ethnic minorities make up the majority of the area; the population of the project site and its surrounding area is 72 percent minority, which puts it in the 56th percentile in the State, 60th percentile in the region, and 79th percentile in the nation. The project site and surrounding area's population has a low-income population of 38 percent, which puts it in the 61st percentile in the state and region and the 63rd percentile in the nation. Because the project is in a low-income/minority neighborhood, it meets the definition of an Environmental Justice Community. Adverse environmental conditions in the area consist of air quality (including particulate matter, diesel particulate matter, cancer risk, and traffic proximity), and hazardous materials (lead paint, superfund site proximity, hazardous waste proximity, and underground storage tank). The project site is in the 75th percentile or higher for the nation (i.e., only 25 percent of the US population has a high block ground value than the average person on the project site). The analysis in this Environmental Assessment indicates that there are no unmitigated adverse environmental impacts. As described under the Clean Air Act compliance factors, the proposed project would include air filtration devices rated MERV-13 or higher, which would reduce the cumulative excess cancer risk and $PM_{2.5}$ concentrations at the project site below the BAAQMD's thresholds. As described under the Contamination and Toxic Substances compliance factors, the project site can be remediated to achieve residential land use standards by implementing the cleanup measures identified in the final CAIP. As described under the Explosive and Flammable Hazards compliance factors, the project site is located at an acceptable distance from the existing ASTs and would not be affected by potential explosion or fire hazards. All identified impacts can be reduced to less-than-significant levels with implementation of mitigation measures and/or Standard Conditions of Approval. Therefore, the project will not raise environmental justice issues and has no potential for new or continued disproportionately high and adverse human health and environmental effects on minority or low-income population. The project is suitable for it proposed use. ***Source Documents:*** 46, Appendix J

ENVIRONMENTAL ASSESSMENT FACTORS [24 CFR 58.40; REF. 40 CFR 1508.8 &1508.27]

Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features and resources of the project area. Each factor has been evaluated and documented, as appropriate and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits of approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. **All conditions, attenuation or mitigation measures have been clearly identified.**

Impact Codes: Use an impact code from the following list to make the determination of impact for each factor.

1. Minor beneficial impact
2. No impact anticipated
3. Minor Adverse Impact – May require mitigation
4. Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement

Environmental Assessment Factor	Impact Code	Impact Evaluation
CLIMATE AND ENERGY		
Climate Change Impacts	2	**Climate Change Impacts on the Project** The frequency and severity of natural hazards may be affected by climate changed, including: flooding; sea level rise; hurricanes and extreme storms; drought; extreme heat; wildfire; landslides; and extreme cold. Similarly, climate change may alter site suitability factors, such as: air quality; urban heat island effects; soil stability; and water resources. According to FEMA, the only natural hazard that has a moderate, high, or very high risk to impact the project site is earthquake hazards, which do not appear to be influenced by climate change. The proposed project is not anticipated to be subject to extreme weather of natural hazards that would require additional design measures beyond what is already required by the California Building Code (CBC). Similarly, compliance with the CBC and the provisions of C.3 of the NPDES permit would ensure that soil stability and water resources would not be affected by climate change. Finally, the proposed project would promote land use patterns and densities that help improve regional air quality emissions. **Project Contributions to Climate Change** According to the City of Oakland's thresholds of significance, a project would have a significant impact if it would produce more than 1,100 metric tons of carbon dioxide equivalents (CO_2e) annually and more than 4.6 metric tons of CO_2e per service population annually. The City's quantitative GHG thresholds were designed to ensure compliance with the State's AB 32 reduction goals, as set forth in CARB's Climate Change Scoping Plan. The proposed project estimated CO_2e emissions per service population would be 2.0 metric tons annually, and therefore the proposed project would not exceed the City's GHG thresholds. In addition, the project site is located within a Priority Development Area designated by Plan Bay Area, which is the Sustainable Communities Strategy adopted for the purpose of achieving the GHG reduction target established by CARB for the region's transportation and land use sector pursuant to the AB 32 scoping plan. As stated by Plan Bay Area, a Priority Development Area is a geographic area "where new development will support the day-to-day needs of residents and workers in a pedestrian-friendly environment served by transit." By focusing new development within a Priority Development Area, Plan Bay Area establishes a preferred development scenario, which will achieve the plan's GHG reduction targets. Since the proposed project would be constructed within a Priority Development Area with land uses at a density and intensity higher than the minimum recommendation included in Plan Bay Area (i.e., >20 dwelling units per acre; 0.75 FAR), the proposed project would further, and not conflict with, Plan Bay Area's GHG reduction targets. The City has adopted Uniformly Applied Development Standards imposed as Standard Conditions of Approval (SCAs) that would also reduce GHG emissions. Application of these standards would ensure that the project would have a less than significant impact with respect to climate change impacts.

Environmental Assessment Factor	Impact Code	Impact Evaluation
		Waste1. Construction and Demolition Waste Reduction and Recycling The project applicant shall comply with the City of Oakland Construction and Demolition Waste Reduction and Recycling Ordinance (chapter 15.34 of the Oakland Municipal Code) by submitting a Construction and Demolition Waste Reduction and Recycling Plan (WRRP) for City review and approval, and shall implement the approved WRRP. Projects subject to these requirements include all new construction, renovations/alterations/modifications with construction values of $50,000 or more (except R-3 type construction), and all demolition (including soft demolition) except demolition of type R-3 construction. The WRRP must specify the methods by which the project will divert construction and demolition debris waste from landfill disposal in accordance with current City requirements. The WRRP may be submitted electronically at www.greenhalosystems.com or manually at the City's Green Building Resource Center. Current standards, FAQs, and forms are available on the City's website and in the Green Building Resource Center. **WS1. Recycled Water** Pursuant to section 16.08.030 of the Oakland Municipal Code, the project applicant shall provide for the use of recycled water in the project for feasible recycled water uses unless the City determines that there is a higher and better use for the recycled water, the use of recycled water is not economically justified for the project, or the use of recycled water is not financially or technically feasible for the project. Feasible recycled water uses may include, but are not limited to, landscape irrigation, commercial and industrial process use, and toilet and urinal flushing in non-residential buildings. The project applicant shall contact the New Business Office of the East Bay Municipal Utility District (EBMUD) for a recycled water feasibility assessment by the Office of Water Recycling. If recycled water is to be provided in the project, the project drawings submitted for construction-related permits shall include the proposed recycled water system and the project applicant shall install the recycled water system during construction. **EC1. Green Building Requirements** a. <u>Compliance with Green Building Requirements During Plan-Check</u> The project applicant shall comply with the requirements of the California Green Building Standards (CALGreen) mandatory measures and the applicable requirements of the Green Building Ordinance (Chapter 18.02 of the Oakland Municipal Code). The following information shall be submitted to the City for review and approval with the application for a building permit: • Documentation showing compliance with Title 24 of the current version of the California Building Energy Efficiency Standards. • Completed copy of the final green building checklist approved during the review of the Planning and Zoning permit. • Copy of the Unreasonable Hardship Exemption, if granted, during the review of the Planning and Zoning permit. • Permit plans that show, in general notes, detailed design drawings, and specifications as necessary, compliance with the items listed in subsection (ii) below. • Copy of the signed statement by the Green Building Certifier approved during the review of the Planning and Zoning permit

Environmental Assessment Factor	Impact Code	Impact Evaluation
		that the project complied with the requirements of the Green Building Ordinance. • Signed statement by the Green Building Certifier that the project still complies with the requirements of the Green Building Ordinance, unless an Unreasonable Hardship Exemption was granted during the review of the Planning and Zoning permit. • Other documentation as deemed necessary by the City to demonstrate compliance with the Green Building Ordinance. The set of plans in subsection (a) shall demonstrate compliance with the following: • CALGreen mandatory measures. • Green building point level/certification requirement per the appropriate checklist approved during the Planning entitlement process. • All green building points identified on the checklist approved during review of the Planning and Zoning permit, unless a Request for Revision Plan-check application is submitted and approved by the Bureau of Planning that shows the previously approved points that will be eliminated or substituted. • The required green building point minimums in the appropriate credit categories. b. <u>Compliance with Green Building Requirements During Construction</u> The project applicant shall comply with the applicable requirements of CALGreen and the Oakland Green Building Ordinance during construction of the project. The following information shall be submitted to the City for review and approval: • Planning and Zoning permit and during the review of the building permit. • Signed statement(s) by the Green Building Certifier during all relevant phases of construction that the project complies with the requirements of the Green Building Ordinance. • Other documentation as deemed necessary by the City to demonstrate compliance with the Green Building Ordinance. c. Compliance with Green Building Requirements After Construction Prior to the finaling the Building Permit, the Green Building Certifier shall submit the appropriate documentation to City staff and attain the minimum required point level. **EC2. Plug-In Electric Vehicle (PEV) Charging Infrastructure** a. <u>PEV-Ready Parking Spaces</u> The applicant shall submit, for review and approval of the Building Official and the Zoning Manager, plans that show the location of parking spaces equipped with full electrical circuits designated for future PEV charging (i.e. "PEV-Ready) per the requirements of Chapter 15.04 of the Oakland Municipal Code. Building electrical plans shall indicate sufficient electrical capacity to supply the required PEV-Ready parking spaces. b. <u>PEV-Capable Parking Spaces</u> The applicant shall submit, for review and approval of the Building

Environmental Assessment Factor	Impact Code	Impact Evaluation
		Official, plans that show the location of inaccessible conduit to supply PEV-capable parking spaces per the requirements of Chapter 15.04 of the Oakland Municipal Code. Building electrical plans shall indicate sufficient electrical capacity to supply the required PEV-capable parking spaces. c. <u>ADA-Accessible Spaces</u> The applicant shall submit, for review and approval of the Building Official, plans that show the location of future accessible EV parking spaces as required under Title 24 Chapter 11B Table 11B-228.3.2.1, and specify plans to construct all future accessible EV parking spaces with appropriate grade, vertical clearance, and accessible path of travel to allow installation of accessible EV charging station(s). ***Source Documents:*** 3, 27, 76

Environmental Assessment Factor	Impact Code	Impact Evaluation
Energy Efficiency	2	The proposed project is located within close proximity to transit, shopping and services, schools, and employment locations. The project is located approximately 0.5 miles northwest of the West Oakland BART Station at 1451 7th street. This site affords residents the opportunity to look for work outside the immediate area, as reliable, convenient and cost-effective public transportation is readily available. The project site is in an urbanized area where there are food markets, ATMs and banks, auto service facilities, pharmacies, and other commercial and retail establishments within a 3 mile radius. The additional residents would not constitute a significant impact on the demand for commercial facilities in the area. Additionally, the project would include a community building with space to host support services for residents. The City of Oakland has imposed Green Building conditions of approval on all projects pursuant to Oakland Municipal Code Chapter 18.02, the Green Building Ordinance. The applicant is required to comply with California Green Building Standards (CALGreen) and score a minimum of 50 points on the GreenPoint Rated checklist and be certified by Build It Green. Based on the size of the community Building (7,800 square feet total), the minimum required is a completed Green Building Checklist. No LEED certification is required based on the size and scope of work. As described above, the proposed project estimated CO_2e emissions per service population would be 2.0 metric tons annually, and therefore the proposed project would not exceed the City's GHG thresholds. The City has adopted Uniformly Applied Development Standards imposed as SCAs that apply to green building, energy efficiency and water conservation. Application of these standards and implementation of these measures would further ensure that impacts to sustainability are less than significant. *SCAs Required:* **EC1. Green Building Requirements** a. <u>Compliance with Green Building Requirements During Plan-Check</u> The project applicant shall comply with the requirements of the California Green Building Standards (CALGreen) mandatory measures and the applicable requirements of the Green Building Ordinance (Chapter 18.02 of the Oakland Municipal Code). The following information shall be submitted to the City for review and approval with the application for a building permit: • Documentation showing compliance with Title 24 of the current version of the California Building Energy Efficiency Standards. • Completed copy of the final green building checklist approved during the review of the Planning and Zoning permit. • Copy of the Unreasonable Hardship Exemption, if granted, during the review of the Planning and Zoning permit. • Permit plans that show, in general notes, detailed design drawings, and specifications as necessary, compliance with the items listed in subsection (ii) below. • Copy of the signed statement by the Green Building Certifier

Environmental Assessment Factor	Impact Code	Impact Evaluation
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Environmental Assessment Factor	Impact Code	Impact Evaluation
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Environmental Assessment Factor	Impact Code	Impact Evaluation
LAND DEVELOPMENT		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	The City of Oakland approved the project's planning application in December 2018. A summary of the findings that support the planning application approval that pertain to plans, land use, zoning and design are cited below. **Oakland General Plan** The project site is split between two General Plan land use designations: Housing and Business Mix and Business Mix. The Housing and Business portion is located adjacent to Pine Street with the Business Mix designation behind and closer to the frontage road and I-880. The intent of the Housing and Business Mix designation is to guide a transition from heavy industry to low impact light industrial and other businesses that can co-exist compatibly with residential development. The Business Mix designation is intended to create, preserve, and enhance areas of the city that are appropriate for a wide variety of business and related commercial and industrial establishments. The project, which would redevelop a now-vacant lot previously used for industrial uses, was found to be consistent with these land uses designations, especially since the General Plan designations are not meant to be parcel specific and the proposal is not required to be an exact match to applicable general plan. The project only need to be compatible with the objectives, policies, general land uses, and programs specified in' the applicable plan. Furthermore, the project site is located at the southern end of the parcel closer to residential uses across Pine and civic uses across Shorey Street. The project would help facilitate a transition from heavy industrial and transportation land uses to land uses more compatible with the existing neighborhood by adding a mid-rise residential building and small community building with office and gathering spaces. The project is also consistent with the following General Plan Land Use and Transportation Element (LUTE) objectives and policies: • *Objective N3: Encourage the construction, conservation, and enhancement of housing resources in order to meet the current and future housing needs of the Oakland community.* The project will provide the community with 101 new affordable housing units. • *Policy N3.1, Facilitating Housing Construction: Facilitating the construction of housing units should be considered a high priority for the City of Oakland.* The City of Oakland's Bureau of Planning has streamlined its systems to facilitate the construction of new homes and assist developers with navigating the permitting process smoothly and in a timely manner. • *Policy N3.2, Encouraging Infill Development: In order to facilitate the construction of needed housing units, infill development that is consistent with the General Plan should take place throughout the City Oakland.* The project is proposed as an urban infill replacement of existing vacant site. By creating more continuity and connection between residential and industrial uses in this area and improving the range of housing opportunities, the project also fulfills the policy strategies for this portion of the West Oakland Specific Plan, as discussed below.

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		West Oakland Specific Plan (WOSP) The project site is also located within the WOSP which was adopted by the City in 2014 to provide a framework focusing on land use, job generation, traffic, infrastructure, urban design and a number of other topics that shape a ‘‘vision’’ for the future physical development of West Oakland. The project site is within the 7th Street Opportunity Area of the WOSP and is part of WOSP Opportunity Site #28. The project is consistent with the plan policies for the 7th Street Opportunity Area, which contemplate higher-density housing, commercial office, and government/institutional office space around the core of the BART Station and neighborhood-serving retail as well as custom manufacturing/industrial arts/artist exhibition space on the ground floor. The WOSP envisions redevelopment of the site with uses that “transform the surrounding areas” yet “maintain and enhance the residential edge along Pine Street.” The proposed project’s scale and massing has been carefully designed to respect the homes across Pine Street. The proposed mix of housing types and income levels accommodated make it a compatible development that will add activity to the area while maintaining consistency with the City’s Policy-Based Strategies of the WOSP. The project is consistent with the City’s Policy-Based Strategies of the WOSP and the following policies, strategies, and objectives: • *Low Dens. Res.-1: Encourage infill residential development within the West Oakland Residential Areas that is compatible in scale and character with the surrounding neighborhood.* The project is on a vacant, infill site and complies with the Pine Street Design Guidelines. The project has been designed to be compatible with the existing neighborhood. • *Ind. Conv.-1: Phoenix Iron Works Site: This site is located on the west side of Pine Street between Shorey Street and 9th Street. It is a long-vacant property remaining from a prior industrial use, with ongoing surface storage of large steel pipes. Change this site to enable residential and live/work uses along the Pine Street frontage (approximately 1.5 acres), resulting in similar densities and massing as the surrounding residential area, and better defining the residential/industrial edge along this portion of the neighborhood.* The project site makes up a portion of the Phoenix Iron Works site. The project would realize this policy by redeveloping a portion of the site with residential and commercial uses that respect and enhance the existing neighborhood. The project helps facilitate a transition from industrial land uses. • *AH (Affordable Housing)-3: In addition to providing market-rate new units, expand, stabilize, and improve affordable housing opportunities for extremely low to moderate income renters and homebuyers.* Half of the project’s 101 residential units will be affordable to low-income households and the other half will be permanent supportive housing (PSH) for people who formerly experienced homelessness. **Zoning Analysis and Entitlements** The project is located in two zoning districts: Housing and Business Mix 4 (HBX-4) and West Oakland Plan Area Commercial Industrial Mix-1B (CIX-

Environmental Assessment Factor	Impact Code	Impact Evaluation
		1B). The HBX-4 zone provides development standards for Live/Work, Work/Live, and housing in areas with industrial and commercial activities. The CIX-1B zoning district is intended to support industrial areas in the WOSP Area that are appropriate for light manufacturing, light industrial, warehouse, research and development, and service commercial uses. The project uses, which include multi-family residential and commercial office uses for supportive housing services, would meet the intentions of the two zones. Furthermore, a Conditional Use Permit and Density Bonus concessions and waivers allowed by state law were used to extend residential land uses permitted in the HBX-4 zone 150 feet into the CIX-1B zone per OMC Section 17.102.110-Expansion of Use into Adjacent Zones. The 150-foot Expansion of Use zone would cover the entirety of structures and uses proposed for Phase I. The project is also consistent with the approved Planned Unit Development (PUD) permit issued for APN 006-0047-001-00 on December 19, 2018. The preliminary development plan (PDP) for the PUD covers 4.65 acres, including the project site, and envisions a mix of market-rate, affordable, and supportive housing with artist/maker space on the 9th Street edge. On the project site, the PDP includes two- to four-story buildings with supportive housing and common amenities. The project's 101 affordable housing units (approximately half of which are supportive housing) and community building are consistent with the PUD vision and the illustrative PDP. The project proposes to redevelop a vacant site with a four-story residential building and two-story community building. Adoption/approval of the CEQA Findings, Design Review, and Major and Minor Conditional Use Permits were required. The City of Oakland approved the project's planning application and issued the required entitlements. **Design** The project site falls within the WOSP, which requires compliance with Design Guidelines (see below). The project was approved December 19, 2018 with a project-specific condition of approval (COA) for a subsequent Design Review Committee (DRC) approval. Per this COA and in order to meet the guidelines of the WOSP, the project made adjustments and further changes to comply. These changes included creating further building articulation, the addition of a triple track door, and pushing a primary pedestrian entrance closer to the street line. The project received DRC approval on August 28th, 2019. Additionally, the project will work with the Public Arts Advisory Committee to incorporate public art on a portion of the project where further articulation is not feasible. All the changes made further compliance with the specific guidelines referenced below: • Pine 1- Site Planning: Create entries facing Pine Street that are compatible with the porches and entrances on historic houses on the opposite side of the street. • Pine 2- Massing: Articulate facades on the west side of the Pine Street into segments that are generally 25 to 35 feet wide to roughly match the scale of historic housing on the opposite side of the street. Bay windows and porches are encouraged. • Pine 3- Height: Buildings directly facing Pine Street should relate

Environmental Assessment Factor	Impact Code	Impact Evaluation
		to the scale of historic housing on the opposite side of the street. - Pine 4- Fenestration and Materials: Employ, clear, logical, and high-quality building openings appropriate detail around entries and primary windows. - Pine 5- Landscape: Establish landscaped yards between the sidewalk and the face of the building. **Finding** The project is consistent with the applicable General Plan land use designations and zoning districts, which encourage a transition from industrial land use to land uses more compatible with the existing neighborhood. The project has been approved and the design has been deemed appropriate and compliant with City standards. ***Source Documents:*** 1, 47, 48, 49

Environmental Assessment Factor	Impact Code	Impact Evaluation
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	3	**Soil Suitability** A Geotechnical Investigation was prepared for the project by Rockridge Geotechnical in December 2019. A summary from the report follows. The objective of the investigation was to evaluate subsurface conditions at the site and develop conclusions and recommendations regarding the geotechnical aspects of the proposed project. Scope of work consisted of evaluating subsurface conditions at the site by drilling two exploratory borings, advancing four cone penetration tests (CPTs) and performing engineering analyses to develop conclusions and recommendations regarding: • Site seismicity and seismic hazards, including the potential for liquefaction and liquefaction-induced ground failure • The most appropriate foundation type(s) for the proposed structure • Design criteria for the recommended foundation type(s) • Estimates of foundation settlement • Rigid and flexible pavement design • Design groundwater level • Subgrade preparation for floor slabs, pavements, and exterior concrete flatwork • Site preparation and grading, including criteria for fill quality and compaction • 2019 California Building Code (CBC) site class and design spectral response acceleration parameters • Soil corrosivity • Construction considerations **Exploratory Borings** Subsurface conditions at the site were investigated by performing Cone Penetration Tests (CPTs) and hand-auger borings. Nineteen CPTs (designated CPT-1 though CPT-19) were advanced to depths between 30 and 100 feet below the existing ground surface (bgs). The CPTs were performed during two mobilizations with the first 7 CPTs advanced on December 4, 2017 and the remaining 12 on November 19-20, 2019. Four borings (HA-8, HA-9, HA-13, and HA-17) were hand-augered to a depth of about 5 feet bgs. The borings were advanced using a three-inch-diameter hand auger. **Subsurface Conditions** The site is generally underlain by a layer of loose to medium dense sand, which is typically 4 to 7 feet thick. This layer could represent geologically young material, reworked native material, or fill. The layer is underlain by Merritt sand. Merritt sand consists of sand, silty sand, and clayey sand, which are typically dense to very dense with occasional medium dense layer. At CPT-16, the Merritt sand extends to a depth of about 63 feet bgs and is underlain by the San Antonio formation. The San Antonio formation typically consists of very stiff to hard clays with occasional interbeds of dense to very dense sand. Groundwater was measured in CPTs at approximately 9.5 to 10 feet bgs at the time of testing. Review of previous environmental borings indicates that the groundwater level at the site is expected to fluctuate

Environmental Assessment Factor	Impact Code	Impact Evaluation
		several feet seasonally with potentially larger fluctuations annually, depending on the amount of rainfall. As described below in Hazards and Nuisances, the site can be developed as planned, provided the recommendations presented in the Geotechnical report are incorporated into the project plans and specifications and implemented during construction, as required by Mitigation Measure G1. **G1. Adherence to Geotechnical Recommendations.** Follow all recommendations laid forth in the Geotechnical Investigation prepared for the PUD, including this project, by Rockridge Geotechnical and dated December 29, 2017 (see Appendix H) including site preparation and grading subgrade preparation, fill material and compaction criteria, utility trench backfill, drainage and landscaping, foundation design, deepened footings, rapid impact compaction, floor slabs, site retaining walls, pavement design and seismic design. **Slope** The site and vicinity are relatively flat. The site does not contain any slopes. **Erosion** The site as it exists now is not subject to erosion. However, if not properly managed, erosion could occur during construction of the project. Plans demonstrating the Best Management Practices for erosion control, sedimentation, and water quality impacts to the maximum extent practicable must be submitted for review and approval by the City. At a minimum, appropriate filter materials shall be provided at nearby catch basins to prevent debris and dirt from flowing into the City's storm drain system and creeks. **Drainage/Storm Water Runoff** Redevelopment of the site could affect drainage patterns and increase the overall amount of impervious surfaces, thus creating changes to stormwater flows and water quality. Increasing the total area of impervious surfaces can result in a greater potential to introduce pollutants to receiving waters. Urban runoff can carry a variety of pollutants, such as oil and grease, metals, sediments, and pesticide residues from roadways, parking lots, rooftops, and landscaped areas and deposit them into an adjacent waterway via the storm drain system. New construction could also result in the degradation of water quality with the clearing and grading of sites, releasing sediment, oil and greases, and other chemicals to nearby water bodies. The site is already covered in impervious surfaces. There will be no significant increase in impervious surfaces over current conditions as a result of the project. The City of Oakland requires Best Management Practices to minimize the generation, discharge, and runoff of stormwater pollution during construction of projects in the City. Post-construction stormwater management on the site will be required

Environmental Assessment Factor	Impact Code	Impact Evaluation
		to comply with the requirements of Provision C.3 of the National Pollutant Discharge Elimination System (NPDES) permit issued to the Alameda Countywide Clean Water Program. A stormwater management plan will be developed to manage stormwater run-off and limit discharge of pollutants in stormwater after construction of the project. The plan will include hydromodification measures, if required, and stormwater treatment measures to remove pollutants and hydraulic sizing for treatment measures proposed. The project will be required to fund any repairs or infrastructure improvements to the surrounding stormwater system. The City has adopted Uniformly Applied Development Standards imposed as Standard Conditions of Approval (SCAS) that apply to stormwater control, runoff, the storm-drain system and water quality. Application of these standards and implementation of these measures and plans would ensure that impacts to stormwater and water quality are less than significant. *SCAs Required:* **SW1. Erosion and Sedimentation Control Measures for Construction** The project applicant shall implement Best Management Practices (BMPs) to reduce erosion, sedimentation, and water quality impacts during construction to the maximum extent practicable. At a minimum, the project applicant shall provide filter materials deemed acceptable to the City at nearby catch basins to prevent any debris and dirt from flowing into the City's storm drain system and creeks. **SW2. NPDES c.3 Stormwater Requirements for Regulated Projects** a. Post-Construction Stormwater Management Plan Required The project applicant shall comply with the requirements of Provision C.3 of the Municipal Regional Stormwater Permit issued under the National Pollutant Discharge Elimination System (NPDES). The project applicant shall submit a Post-Construction Stormwater Management Plan to the City for review and approval with the project drawings submitted for site improvements, and shall implement the approved Plan during construction. The Post-Construction Stormwater Management Plan shall include and identify the following: i. Location and size of new and replaced impervious surface; ii. Directional surface flow of stormwater runoff; iii. Location of proposed on-site storm drain lines; iv. Site design measures to reduce the amount of impervious surface area; v. Source control measures to limit stormwater pollution; vi. Stormwater treatment measures to remove pollutants from stormwater runoff, including the method used to hydraulically size the treatment measures; and vii. Hydromodification management measures, if required by Provision C.3, so that post-project stormwater runoff flow and duration match pre-project runoff. b. Maintenance Agreement Required The project applicant shall enter into a maintenance agreement with the City, based on the Standard City of Oakland Stormwater Treatment

<table>
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<tr><th>Environmental Assessment Factor</th><th>Impact Code</th><th>Impact Evaluation</th></tr>
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<tbody>
<tr><td></td><td></td><td>Measures Maintenance Agreement, in accordance with Provision C.3, which provides, in part, for the following:
i. The project applicant accepting responsibility for the adequate installation/construction, operation, maintenance, inspection, and reporting of any on-site stormwater treatment measures being incorporated into the project until the responsibility is legally transferred to another entity; and
ii. Legal access to the on-site stormwater treatment measures for representatives of the City, the local vector control district, and staff of the Regional Water Quality Control Board, San Francisco Region, for the purpose of verifying the implementation, operation, and maintenance of the on-site stormwater treatment measures and to take corrective action if necessary.

The maintenance agreement shall be recorded at the County Recorder’s Office at the applicant’s expense.

<i>Source Documents:</i> 50, 51, 52, Appendix G</td></tr>
<tr><td>Hazards and Nuisances including Site Safety and Noise</td><td>3</td><td>Site Safety
The project will not create a risk of explosion, release of hazardous substances or other dangers to public health. The project is not located near any hazardous operations. The project will provide a safe place for residents.

A Geotechnical Investigation was prepared for the project by Rockridge Geotechnical on December 18, 2019. A summary from the report about geologic hazards follows.

Regional Seismicity
The project site is located within the seismically active San Francisco Bay region. The major active faults in the area are the Hayward, San Andreas, and Calaveras faults. Table 6 shows these and other active faults within a 50-kilometer radius of the site.

Table 6: Regional Earthquake Faults and Seismicity
<table>
<thead>
<tr><th>Fault Segment</th><th>Distance from Site (km)</th><th>Direction from Site</th><th>Mean MM</th></tr>
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<tbody>
<tr><td>Total Hayward</td><td>7.7</td><td>East</td><td>7.00</td></tr>
<tr><td>Total Hayward-Rogers Creek</td><td>7.7</td><td>East</td><td>7.33</td></tr>
<tr><td>N. San Andres (1906 Event)</td><td>21</td><td>West</td><td>8.05</td></tr>
<tr><td>N. San Andreas – North Coast</td><td>24</td><td>West</td><td>7.50</td></tr>
<tr><td>Mount Diablo Thrust</td><td>24</td><td>East</td><td>6.70</td></tr>
<tr><td>Total Calaveras</td><td>26</td><td>East</td><td>7.03</td></tr>
<tr><td>San Gregorio Connected</td><td>27</td><td>West</td><td>7.50</td></tr>
<tr><td>Rodgers Creek</td><td>33</td><td>North</td><td>7.07</td></tr>
<tr><td>West Napa</td><td>40</td><td>North</td><td>6.70</td></tr>
<tr><td>Monte Vista-Shannon</td><td>42</td><td>South</td><td>6.50</td></tr>
<tr><td>Greenville Connected</td><td>42</td><td>East</td><td>7.00</td></tr>
<tr><td>Great Valley 5, Pittsburg Kirby Hills</td><td>46</td><td>East</td><td>6.70</td></tr>
<tr><td>Point Reyes</td><td>49</td><td>West</td><td>6.90</td></tr>
</tbody>
</table>
Notes: MM = moment magnitude

The U.S. Geological Survey's 2014 Working Group on California Earthquake Probabilities has compiled the earthquake fault research for</td></tr>
</tbody>
</table>

Environmental Assessment Factor	Impact Code	Impact Evaluation
		the San Francisco Bay area in order to estimate the probability of fault segment rupture. They have determined that the overall probability of moment magnitude 6.7 or greater earthquake occurring in the San Francisco Bay Region during the next 30 years (starting from 2014) is 72 percent. The highest probabilities are assigned to the Hayward Fault, Calaveras Fault, and the northern segment of the San Andreas Fault. These probabilities are 14.3, 7.4, and 6.4 percent, respectively. **Seismic Hazards** During a major earthquake on a segment of one of the nearby faults, strong to very strong shaking is expected to occur at the project site. Strong shaking during an earthquake can result in ground failure such as that associated with soil liquefaction, lateral spreading and cyclic densification. The results of borings and CPTs were used to evaluate the potential of these phenomena occurring at the project site. **Ground Shaking** The ground shaking intensity felt at the project site will depend on: 1) the size of the earthquake (magnitude), 2) the distance from the site to the fault source, 3) the directivity (focusing of earthquake energy along the fault in the direction of the rupture), and 4) subsurface conditions. The site is approximately 8 kilometers from the Hayward Fault. Therefore, the potential exists for a large earthquake to induce strong to violent ground shaking at the site during the life of the project. **Fault Rupture** Historically, ground surface displacements closely follow the trace of geologically young faults. The site is not within an Earthquake Fault Zone, as defined by the Alquist-Priolo Earthquake Fault Zoning Act, and no known active or potentially active faults exist on the site. The risk of fault offset at the site from a known active fault is very low. In a seismically active area, the remote possibility exists for future faulting in areas where no faults previously existed; however, the Geotechnical Report states that the risk of surface faulting and consequent secondary ground failure from previously unknown faults is also very low. **Liquefaction** Liquefaction analyses indicate there are layers of potentially liquefiable material at a depth of approximately 26 feet below ground surface (bgs) where the upper loose/medium dense sand layer extends below the assumed groundwater table. The potentially liquefiable layers of sand on the project site are generally about 2 feet think. The estimated total free-field ground settlement associated with liquefaction (referred to as post-liquefaction reconsolidation) within these layers after a major event on a nearby fault will be less than 1/2-inch, with differential settlement of about 1/4 inch over a horizontal distance of 30 feet. Considering the depth and plasticity of the potentially liquefiable soil layers, analysis indicates the risk of lateral spreading is low. **Cyclic Densification** Cyclic densification (also referred to as differential compaction) of non-saturated sand (sand above groundwater table) can occur during an earthquake, resulting in settlement of the ground surface and overlying improvements. The soil in the upper 5 to 6 feet of the site consists of

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		loose to medium dense undocumented fill material, which is potentially susceptible to cyclic densification. Analysis indicates that the site could experience as much as 2 inches of ground surface settlement due to cyclic densification during a major earthquake, if the density of the sand fill is not improved. **Conclusions** From a geotechnical standpoint, Rockridge Geotechnical concludes the site can be developed as planned, provided the recommendations presented in the Geotechnical report are incorporated into the project plans and specifications and implemented during construction. The primary geotechnical concerns affecting the proposed development include: • The presence of 5 to 6 feet of undocumented fill blanketing the site; • The potential for as much as 1/2 inch of liquefaction-induced free-field ground settlement following a major earthquake; and • The potential for as much as 2 inches of ground surface settlement due to cyclic densification of the loose to medium dense sands in the upper 5 to 6 feet following a major earthquake. *Mitigations Required:* **G1. Adherence to Geotechnical Recommendations.** Follow all recommendations laid forth in the Geotechnical Investigation prepared for the PUD, including this project, by Rockridge Geotechnical and dated December 29, 2017 (see Appendix G) including site preparation an grading subgrade preparation, fill material and compaction criteria, utility trench backfill, drainage and landscaping, foundation design, deepened footings, rapid impact compaction, floor slabs, site retaining walls, pavement design and seismic design.. The City has adopted Uniformly Applied Development Standards imposed as Standard Conditions of Approval (SCAs) that apply to geology and soils. Application of these standards and implementation of these measures, reports, and recommendations, would ensure that impacts to geology and soils are less than significant. *SCAs Required:* **G2. Construction-Related Permit** The project applicant shall obtain all required construction-related permits/approvals from the City. The project shall comply with all standards, requirements and conditions contained in construction-related codes, including but not limited to the Oakland Building Code and the Oakland Grading Regulations, to ensure structural integrity and safe construction. **G3.Soils Report** The project applicant shall submit a soils report prepared by a registered geotechnical engineer for City review and approval. The soils report shall contain, at a minimum, field test results and observations regarding the nature, distribution and strength of existing soils, and recommendations

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		for appropriate grading practices and project design. The project applicant shall implement the recommendations contained in the approved report during project design and construction. **G4. Seismic Hazards Zone (Landslide/Liquefaction)** The project applicant shall submit a site-specific geotechnical report, consistent with California Geological Survey Special Publication 117 (as amended), prepared by a registered geotechnical engineer for City review and approval containing at a minimum a description of the geological and geotechnical conditions at the site, an evaluation of site-specific seismic hazards based on geological and geotechnical conditions, and recommended measures to reduce potential impacts related to liquefaction and/or slope stability hazards. The project applicant shall implement the recommendations contained in the approved report during project design and construction. **Noise** A Noise Study was conducted for the project by Charles M. Salter Associates Inc. (Salter) in September 2022, which is included in Appendix I. *Regulatory Setting* U.S. Department of Housing and Urban Development The U.S. Department of Housing and Urban Development (HUD) environmental noise regulations are set forth in 24CFR Part 51B (Code of Federal Regulations). Section 51.103.(c) includes the following exterior noise standards for new housing construction that would be applicable to this project: • 65 dBA L_{dn} or less – acceptable. • Exceeding 65 dBA Ldn but not exceeding 75 dBA L_{dn} – normally unacceptable (appropriate sound attenuation measures must provide an additional 5 decibels of attenuation over that typically provided by standard construction in the 65 dBA L_{dn} to 70 dBA L_{dn} zone; 10 decibels additional attenuation in the 70 dBA L_{dn} to 75 dBA L_{dn} zone). • Exceeding 75 dBA DNL – unacceptable. According to Section 51.103.(c), these noise standards also apply to "a location 2 meters from the building housing noise sensitive activities in the direction of the predominant noise source" and to "other locations where it is determined that quiet outdoor space is required in an area ancillary to the principal use on the site." Section 51.101 specifies the interior noise goal of 45 dBA Ldn. *City of Oakland General Plan* The Oakland General Plan contains guidelines for determining the compatibility of various land uses with different outdoor noise environments. According to the City's land use compatibility matrix for residential uses, noise levels between 60 to 70 dBA Ldn are considered "conditionally acceptable" and noise levels between 70 to 75 dBA Ldn are considered "normally unacceptable" for residential land uses. Both conditionally acceptable and normally unacceptable noise levels require detailed noise analysis and additional noise reduction requirements for

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new development. However, it is also noted that conventional construction will usually suffice as long as it incorporates air conditioning or forced-air-supply systems for areas characterized as having "conditionally acceptable" noise levels.

Existing Noise Environment

The project site is located along Interstate 880 in West Oakland. The site is bordered by vacant land and 9th Street to the north, Shorey Street to the south, Pine Street to the east, and Frontage Road to the west. The Bay Area Rapid Transit (BART) tracks are located two blocks to the south of the project site. The main sources of noise at the project site are traffic from I-880/Frontage Road, vehicular traffic on 7th Street, and BART trains.

A noise monitoring survey was conducted to quantify existing ambient noise levels at the project site. The noise monitoring survey included two long-term noise measurements and three short-term noise measurements. The calculated day-night average noise level within the project site range from 59 to 74 dBA Ldn. Ambient noise levels near 7th Street are approximately 83 dBA Ldn while noise levels near Pine Street are approximately 72 dBA Ldn.

Table 7: Existing Noise Calculation Summary and Effect of Noise Barrier

Identifier[a]	DNL without Barrier[b]	Barrier Effect	Actual DNL	DNL with Future Traffic Increase
NAL1	77	0	77	78
NAL2	74	-3	72	73
NAL3	73	-17	58	59
NAL4	74	-17	59	60
NAL5	75	-15	61	62
NAL6	76	-3	74	75
NAL7	74	-11	64	65

a: Refer to Appendix I for noise measurement locations.
b: All DNL values in this table are the combined DNL, which includes the following sources: I-880/Frontage Road, 7th Street, and BART. Some values may not add up due to rounding.

Acceptable Noise Levels

An adverse effect would result if noise levels at the project site would exceed HUD Guidelines for acceptability. Exterior noise levels exceeding 65 dBA Ldn or interior noise levels exceeding 45 dBA Ldn would exceed HUD's noise compatibility criteria.

Future Exterior Noise Environment

Pursuant to the HUD Guidelines, the noise exposure at least 10 years in the future must be considered in addition to the existing noise exposure. A future traffic analysis was not provided for this project. However, the Noise Study has accounted for the potential future increase in traffic volumes (and associated increased noise levels) using the published 2017 traffic volumes (AADT), from the California Department of Transportation (DOT) for I-880/Frontage Road, the 2018 AADT for 7th Street from the Transportation Study, and BART train schedules. For I-

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		880/Frontage Road 7th Street, 1 dB was added to the measured existing ambient noise levels to account for these traffic volumes. The traffic volume increase along I-880 and Frontage Road is based on the California DOT's historical average of a three-percent increase per year, which accounts for a 1 dB noise level increase over 10 years. The West Oakland Specific Plan Environmental Impact Report assumed a 3.95 percent increase in total traffic volume on local roads (such as 7th Street) by 2035, which would equate to an approximately 0.2 dB increase in noise. Therefore, a 3.95 percent increase was assumed for 7th Street. The recommendations for noise control measures also have accounted for future traffic increases. Based on the noise monitoring survey, existing noise levels at the exterior of the building at NAL1 would reach 78 dBA DNL with Future Traffic Increase and would be considered unacceptable (exceeding 75 dBA DNL). Existing noise levels at the exterior of the building at NAL2 and NAL6 would also reach 72 and 74 dB and would be considered normally unacceptable (65 to 75 dB DNL). Therefore, a noise waiver would be required. Based on the noise monitoring survey existing noise levels at the outdoor open space location are about 69 dBA Ldn, which exceeds the exterior noise compatibility criterion of 65 dBA. However, the outdoor open space would be shielded by the proposed residential building to the west and to the north, as well as the proposed community building to the east and to the south. Salter calculated the exterior noise levels using the HUD DNL Calculator and Barrier Performance Module, the worksheets for which are included as appendices to the Noise Study in Appendix I. At the central courtyard, the noise level was calculated to be less than DNL 65 dB, which is considered "Acceptable" under the HUD guidelines described above. <u>Future Interior Noise Environment</u> Based on the drawings dated 15 November 2019, Salter calculated noise levels at the various building facades using the Sound Transmission Classification Assessment Tool (STraCAT). Based on these calculations, the Noise Study provides recommendations for window Sound Transmission Class (STC) ratings and exterior wall STC ratings that are needed to meet the interior noise levels of 45 dBA Ldn in residences. STC is a single-number rating defined in ASTM E90 that quantifies the airborne sound insulating performance of a partition under laboratory conditions. Increasing STC ratings correspond to improved airborne sound insulation. The Salter recommendations are based on the following assumptions: • Bedrooms will have carpet. • All other rooms will have hard-surface flooring. • Ceilings are 9 feet high. • Window sizes and locations are as shown on the drawings dated 15 November 2019. • The typical exterior wall assembly (e.g. Type WE1) achieves minimum STC 45. • The recommended STC ratings are for full window assemblies (glass and frame) rather than just the glass itself. Tested sound-rated assemblies should be used.

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		The proposed project would include STC 53 walls and STC 40 windows. The Noise Study concludes that noise can be reduced to DNL 45 dB with the planned exterior wall and window assemblies and planned upgraded exterior wall and STC 40 windows that would be included in the proposed project. Mitigation Measure N1 would be required in order to ensure that residential units are dependent on not opening doors and windows. *Mitigation Required:* **N6. Comply with Noise Reduction Recommendations**. The project shall implement STC 53 walls and STC 40 windows on at least the the north facade and the south facade closest to Shorey Street and the west façade. as set forth in the Noise Study prepared by Charles Salter Associates, June 16, 2022 and the Noise Waiver (see Appendix I) based on the following assumptions: • Bedrooms will have carpet. • All other rooms will have hard-surface flooring. • Ceilings are 9 feet high. • Window sizes and locations are as shown on the drawings dated 15 November 2019. • The typical exterior wall assembly (e.g. Type WE1) achieves minimum STC 45. • The recommended STC ratings are for full window assemblies (glass and frame) rather than just the glass itself. Tested sound-rated assemblies should be used. If the assumptions change, the applicant shall retain a noise consultant to prepare a revised STraCAT analysis to ensure suitable STC wall and window assemblies. **N7. Ventilation, and Operations and Maintenance Plan.** The Project shall provide mechanically ventilated residential units that are not dependent on opening doors or windows, and shall develop and implement an Operations and Maintenance Plan that provides for periodic inspection of seals, and repair or replacement of building components at private decks or balconies when their noise attenuation performance diminishes The City has Uniformly Applied Development Standards imposed as SCAs that apply to noise. Application of these standards and implementation of these measures would ensure that impacts related to noise are less than significant. *SCAs Required:* **N8. Exposure to Community Noise** The project applicant shall submit a Noise Reduction Plan prepared by a qualified acoustical engineer for City review and approval that contains noise reduction measures (e.g., sound-rated window, wall, and door assemblies) to achieve an acceptable interior noise level in accordance with the land use compatibility guidelines of the Noise Element of the Oakland General Plan. The applicant shall implement the approved Plan during construction. To the maximum extent practicable, interior noise levels shall not exceed the following:

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		a. 45 dBA: Residential activities, civic activities, hotels b. 50 dBA: Administrative offices; group assembly activities c. 55 dBA: Commercial activities d. 65 dBA: Industrial activities Implementation of the project with the Salter recommendations would ensure that impacts to noise are less than significant. ***Source Documents:*** 39, 50, Appendix H and I

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Energy Consumption	3	The City of Oakland has imposed Green Building conditions of approval on all projects pursuant to Oakland Municipal Code Chapter 18.02, the Green Building Ordinance. The applicant is required to comply with California Green Building Standards (CALGreen) and score a minimum of 50 points on the GreenPoint Rated checklist and be certified by Build It Green. Based on the size of the community Building (7,800 square feet total), the minimum required is a completed Green Building Checklist. No LEED certification is required based on the size and scope of work. The City has adopted Uniformly Applied Development Standards imposed as SCAs that apply to green building, energy efficiency and water conservation. Application of these standards and implementation of these measures would further ensure that impacts to sustainability are less than significant. *SCAs Required:* **EC1. Green Building Requirements** e. Compliance with Green Building Requirements During Plan-Check The project applicant shall comply with the requirements of the California Green Building Standards (CALGreen) mandatory measures and the applicable requirements of the Green Building Ordinance (Chapter 18.02 of the Oakland Municipal Code). The following information shall be submitted to the City for review and approval with the application for a building permit: • Documentation showing compliance with Title 24 of the current version of the California Building Energy Efficiency Standards. • Completed copy of the final green building checklist approved during the review of the Planning and Zoning permit. • Copy of the Unreasonable Hardship Exemption, if granted, during the review of the Planning and Zoning permit. • Permit plans that show, in general notes, detailed design drawings, and specifications as necessary, compliance with the items listed in subsection (ii) below. • Copy of the signed statement by the Green Building Certifier approved during the review of the Planning and Zoning permit that the project complied with the requirements of the Green Building Ordinance. • Signed statement by the Green Building Certifier that the project still complies with the requirements of the Green Building Ordinance, unless an Unreasonable Hardship Exemption was granted during the review of the Planning and Zoning permit. • Other documentation as deemed necessary by the City to demonstrate compliance with the Green Building Ordinance. The set of plans in subsection (a) shall demonstrate compliance with the following: • CALGreen mandatory measures. • Green building point level/certification requirement per the appropriate checklist approved during the Planning entitlement process. • All green building points identified on the checklist approved

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		during review of the Planning and Zoning permit, unless a Request for Revision Plan-check application is submitted and approved by the Bureau of Planning that shows the previously approved points that will be eliminated or substituted. • The required green building point minimums in the appropriate credit categories. f. <u>Compliance with Green Building Requirements During Construction</u> The project applicant shall comply with the applicable requirements of CALGreen and the Oakland Green Building Ordinance during construction of the project. The following information shall be submitted to the City for review and approval: • Planning and Zoning permit and during the review of the building permit. • Signed statement(s) by the Green Building Certifier during all relevant phases of construction that the project complies with the requirements of the Green Building Ordinance. • Other documentation as deemed necessary by the City to demonstrate compliance with the Green Building Ordinance. g. Compliance with Green Building Requirements After Construction Prior to the finaling the Building Permit, the Green Building Certifier shall submit the appropriate documentation to City staff and attain the minimum required point level. **EC2. Plug-In Electric Vehicle (PEV) Charging Infrastructure** h. <u>PEV-Ready Parking Spaces</u> The applicant shall submit, for review and approval of the Building Official and the Zoning Manager, plans that show the location of parking spaces equipped with full electrical circuits designated for future PEV charging (i.e. “PEV-Ready) per the requirements of Chapter 15.04 of the Oakland Municipal Code. Building electrical plans shall indicate sufficient electrical capacity to supply the required PEV-Ready parking spaces. i. <u>PEV-Capable Parking Spaces</u> The applicant shall submit, for review and approval of the Building Official, plans that show the location of inaccessible conduit to supply PEV-capable parking spaces per the requirements of Chapter 15.04 of the Oakland Municipal Code. Building electrical plans shall indicate sufficient electrical capacity to supply the required PEV-capable parking spaces. j. <u>ADA-Accessible Spaces</u> The applicant shall submit, for review and approval of the Building Official, plans that show the location of future accessible EV parking spaces as required under Title 24 Chapter 11B Table 11B-228.3.2.1, and specify plans to construct all future accessible EV parking spaces with appropriate grade, vertical clearance, and accessible path of travel to allow installation of accessible EV charging station(s). ***Source Documents:*** 47, 48, 53

<table>
<tr><th>Environmental Assessment Factor</th><th>Impact Code</th><th>Impact Evaluation</th></tr>
<tr><td colspan="3">SOCIOECONOMIC</td></tr>
<tr><td>Employment and Income Patterns</td><td>2</td><td>
<p>The project by its definition is to provide affordable and supportive housing for low-income individuals. The project will provide 82 studios, 3 one-bedroom units, and 16 two-bedroom units (with 1 two-bedroom unit reserved for the property manager). The target demographic will be provided with affordable rental apartments and on-site services.</p>
<p>Using HUD guidelines for the maximum number of residents, the project will house 253 persons (see calculation in the Demographic Character Changes, Displacement Section below). According to 2019 Census data, the city of Oakland has 429,082 residents. The project represents 0.06 percent of the population.</p>
<p>In addition to independent living, the project will accommodate supportive service activities, including on-site workshops, group sessions, life skills, job training, informal gatherings and one-on-one meetings. The project itself will generate temporary construction jobs and permanent jobs, including property managers, case managers, and front desk attendants which include a range of skill sets.</p>
<p>It is estimated that approximately 9 persons would be permanently employed on the project site. Construction jobs would be temporary and permanent jobs would not significantly alter employment opportunities in the area. Therefore, the impact to employment and income patterns is less than significant.</p>
<p><i>Source Documents:</i> 1, 54</p>
</td></tr>
<tr><td>Demographic Character Changes, Displacement</td><td>2</td><td>
<p>Demographic Character Changes
As a 101-unit affordable and supportive housing project in an urbanized area, the project is not anticipated to induce substantial population growth in the neighborhood. The project will help to address the need for housing projected in the Regional Housing Needs Allocation.
Based on guidelines provided by HUD, the maximum number of residents appropriate to multi-family unit dwellings is two persons per bedroom, plus one per unit. Thus, at most there would be seven persons in a three-bedroom apartment, and five persons in a two-bedroom unit. The proposed project would provide 82 studios, 3 one-bedroom units, and 16 two-bedroom units. As shown in Table 7 below, the maximum number of persons the project could accommodate per HUD guidelines, is 253. However, it is not expected that two people will occupy a studio.</p>
<p>Table 8: Unit Mix and Number of Residents</p>
<table>
<tr><th>Unit Mix</th><th>Number of Units</th><th>Number of Allowed Residents</th><th>Total</th></tr>
<tr><td>Studio</td><td>82</td><td>2</td><td>164</td></tr>
<tr><td>1-BR</td><td>3</td><td>3</td><td>9</td></tr>
<tr><td>2-BR</td><td>16</td><td>5</td><td>80</td></tr>
<tr><td>Total</td><td>101</td><td>--</td><td>253</td></tr>
</table>
<p>According to Census data, Oakland’s population was 429,082 in 2019, so the additional 253 people housed by the project would represent 0.06</p>
</td></tr>
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		percent of that population. A less-than-significant impact is expected to result from the proposed project, as it would not create a significant change to the demographics of the area. **Displacement** The Uniform Relocation Act (URA), passed by Congress in 1970, establishes minimum standards for federally funded programs and projects that require the acquisition of real property (real estate) or displace persons from their homes, businesses, or farms. The Uniform Act's protections and assistance apply to the acquisition, rehabilitation, or demolition of real property for federal or federally funded projects. Section 205 of the URA requires that, "Programs or projects undertaken by a federal agency or with federal financial assistance shall be planned in a manner that (1) recognizes, at an early stage in the planning of such programs or projects and before the commencement of any actions which will cause displacements, the problems associated with the displacement of individuals, families, businesses, and farm operations, and (2) provides for the resolution of such problems in order to minimize adverse impacts on displaced persons and to expedite program or project advancement and completion." The developer/project proponent owns the site and it is currently vacant. No tenants lease the space that would require relocation prior to construction. A relocation plan is not required. ***Source Documents:*** 55, 56, 57
Environmental Justice	2	As previously discussed, the project site is located in a low-income/minority neighborhood and meets the definition of an Environmental Justice Community. The analysis in this Environmental Assessment indicates that there are no unmitigated adverse environmental impacts. As described under the Clean Air Act compliance factors, the proposed project would include air filtration devices rated MERV-13 or higher, which would reduce the cumulative excess cancer risk and PM2.5 concentrations at the project site below the BAAQMD's thresholds. As described under the Contamination and Toxic Substances compliance factors, the project site can be remediated to achieve residential land use standards by implementing the cleanup measures identified in the final CAIP. As described under the Explosive and Flammable Hazards compliance factors, the project site is located at an acceptable distance from the existing ASTs and would not be affected by potential explosion or fire hazards. All identified impacts can be reduced to less-than-significant levels with implementation of mitigation measures and/or Standard Conditions of Approval. Therefore, the project will not raise environmental justice issues and has no potential for new or continued disproportionately high and adverse human health and environmental effects on minority or low-income population. The project is suitable for it proposed use. ***Source Documents:*** 46, Appendix J

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COMMUNITY FACILITIES AND SERVICES		
Educational and Cultural Facilities	2	**Educational Facilities** The project by its definition is to provide supportive housing for individuals, with at most a population of 253 people. Families are not the primary demographic target of the project, but school-aged children may reside at the project. School-age children would likely attend the nearest schools, which include Prescott Elementary School at 920 Campbell St, approximately 0.4 miles east or a 4-minute drive. For middle school children, West Oakland Middle is located at 991 14th St, approximately 1.4 miles east of the site or a 6-minute drive. Ralph J. Bunche Academy (high school) is located 1.2 miles northeast of the project site, or a 5-minute drive. The project is required to pay Capital Improvement Impact and School Fees which reduce impacts to public schools to less than significant. Impacts to educational facilities are considered less than significant. **Cultural Facilities** The City of Oakland and the San Francisco Bay Area is rich in culture and opportunities for cultural experiences. Several cultural facilities are within five miles of the project site, including cinemas, theaters and music venues, galleries, libraries, and museums. The project's location near high-quality transit also offers opportunities for cultural enrichment outside the immediate area. The project represents an incremental demand for cultural facilities; impacts are considered less than significant. ***Source Documents:*** 8, 10, 27
Commercial Facilities	1	The project site is in an urbanized area where there are food markets, ATMs and banks, auto service facilities, pharmacies, and other commercial and retail establishments within a 3 mile radius. The additional residents would not constitute a significant impact on the demand for commercial facilities in the area. Additionally, the project would include a community building with space to host support services for residents. ***Source Documents:*** 8, 10

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Health Care and Social Services	2	**Health Care** Hospitals with full-service emergency rooms near the project site include Alta Bates Medical Center located at 350 Hawthorne Avenue, approximately 2.4 miles northeast; Kaiser Permanente Oakland Medical Center at 3600 Broadway, approximately 2.7 miles northeast; and Highland Hospital located at 1411 E 31st Street, approximately 4.0 miles east. There are numerous smaller health care facilities including clinics, urgent care, and specialty services in the area. There are no significant impacts to healthcare facilities or delivery systems anticipated as a result of the proposed project. **Supportive Services for Residents** The project itself will provide supportive services to residents, tailored to their needs. Services include on-site workshops, group sessions, life skills, job training, informal gatherings and one-on-one meetings. Case managers will work with permanent residents to develop an individualized housing and service plan with the goal of accessing the range of services they need to ensure long term stability. **Social Services** Alameda County Social Services Agency is located at 200 San Pablo Avenue in Oakland, approximately 2.7 miles east of the project site. The Agency provides services for children and families, the elderly, disabled adults, and veterans. Services include food assistance, medical and health, employment, training, housing services, and financial assistance. Supportive services provided include childcare, transportation, mental health, alcohol and drug addiction treatment and Social Security Insurance advocacy. There are numerous social service providers in the Oakland area, including Mental Health Association of Alameda County, St. Vincent de Paul Society, Oakland Family Resource Center, and the American Red Cross, to name a few. The project does not represent a significant change to the demographics of the area or on area social services as it serves the existing population. Implementation of the project represents a less than significant impact to social services. ***Source Documents:*** 58, 59, 60, 61
Solid Waste Disposal / Recycling	3	**Operational Waste** Franchise waste hauler Waste Management, Inc. (Waste Management) provides solid waste services to the site and vicinity. Waste Management is the largest garbage company in North American with nearly 20 million customers and over 5,000 municipal contracts. Waste Management has been moving operations into green services that extract value from waste rather than the traditional model of isolating waste in disposal sites. Since 2018, Waste Management has had a sustainability team dedicated to tracking and reporting progress on sustainability goals and as well as advocating on sustainability issues.

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		The City of Oakland has been a partner in these efforts. Chapter 17.118 of the Oakland Municipal Code defines the Recycling Space Allocation Ordinance in an effort to divert solid waste generated by operation of the project from landfills. An Operational Diversion Plan (ODP) must be submitted to the Environmental Services Division of the Public Works Agency for review and approval. The adjacent properties are already served with solid waste disposal service, and the site would gain access to this service. The project does represent a net increase in demand, but this incremental increase would not exceed the capacity of or reduce the capability of services in the City of Oakland and would not require the construction of additional solid waste management facilities. As described in the WOSP EIR, all development in the WOSP Area would be designed in accordance with State and local solid waste regulations and therefore impacts associated with solid waste would be less than significant. Nonhazardous solid waste in the WOSP Area is ultimately hauled to the Altamont Landfill and Resource Facility. The Altamont Landfill would have sufficient capacity to accept waste generated by development under the WOSP. Impacts are considered less than significant. **Construction Waste** To reduce landfill waste and divert debris from construction to recycling facilities, the City of Oakland established section 15.34 of the Oakland Municipal Code with the goal to divert debris waste from landfill disposal. The project proponent is required to submit a Construction & Demolition Waste Reduction and Recycling Plan (WRRP) for review and approval by the Oakland Public Works Agency. In addition, waste generated by demolition and construction will be required to be diverted from landfills to reduce impacts to landfills and encourage the reuse of such materials. Impacts after adherence to the Oakland Municipal Code are less than significant. The City has adopted Uniformly Applied Development Standards imposed as Standard Conditions of Approval (SCAs) that apply to waste disposal and recycling. Application of these standards and implementation of these measures would further ensure that impacts to waste facilities are less than significant. *SCAs Required:* **Waste1. Construction and Demolition Waste Reduction and Recycling** The project applicant shall comply with the City of Oakland Construction and Demolition Waste Reduction and Recycling Ordinance (chapter 15.34 of the Oakland Municipal Code) by submitting a Construction and Demolition Waste Reduction and Recycling Plan (WRRP) for City review and approval, and shall implement the approved WRRP. Projects subject to these requirements include all new construction, renovations/ alterations/modifications with construction values of $50,000 or more (except R-3 type construction), and all demolition (including soft demolition) except demolition of type R-3 construction. The WRRP must specify the methods by which the project will divert construction and demolition debris waste from landfill disposal in accordance with current City requirements. The WRRP may be submitted electronically at www.greenhalosystems.com or manually at the City's Green Building

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		Resource Center. Current standards, FAQs, and forms are available on the City's website and in the Green Building Resource Center. **Waste2. Recycling Collection and Storage Space** The project applicant shall comply with the City of Oakland Recycling Space Allocation Ordinance (chapter 17.118 of the Oakland Planning Code). The project drawings submitted for construction-related permits shall contain recycling collection and storage areas in compliance with the Ordinance. For residential projects, at least two (2) cubic feet of storage and collection space per residential unit is required, with a minimum of ten (10) cubic feet. For nonresidential projects, at least two (2) cubic feet of storage and collection space per 1,000 square feet of building floor area is required, with a minimum of ten (10) cubic feet. ***Source Documents:*** 62, 63, 64
Waste Water / Sanitary Sewers	3	Waste water (sewage) is collected and treated by the East Bay Municipal Utility District or EBMUD. EBMUD has been operating in the East Bay of the San Francisco Bay Area for over 50 years and services approximately 650,000 people. Waste water is collected from homes and businesses through privately-owned sewer laterals that feed into a network of city sewers. EBMUD's interceptors carry the wastewater to a treatment plant in Oakland. EBMUD treats the waste water, removing solids and cleaning it before it is discharged into San Francisco Bay. Stormwater is collected through a separate community-owned system. The City has adopted Uniformly Applied Development Standards imposed as Standard Conditions of Approval (SCAs) that apply to utility and service systems, including the sanitary sewer system. Application of these standards and implementation of these measures would further ensure that impacts related to waste water and sanitary sewers are less than significant. *SCAs Required:* **WW1. Sanitary Sewer System** The project applicant shall prepare and submit a Sanitary Sewer Impact Analysis to the City for review and approval in accordance with the City of Oakland Sanitary Sewer Design Guidelines. The Impact Analysis shall include an estimate of pre-project and post-project wastewater flow from the project site. In the event that the Impact Analysis indicates that the net increase in project wastewater flow exceeds City-projected increases in wastewater flow in the sanitary sewer system, the project applicant shall pay the Sanitary Sewer Impact Fee in accordance with the City's Master Fee Schedule for funding improvements to the sanitary sewer system. ***Source Documents:*** 65, 66
Water Supply	3	**Water Supplier** Potable water at the project site will be supplied by the East Bay Municipal Utility District (EBMUD). Ninety percent of EBMUD's water comes from the 577-square mile watershed of the Mokelumne River on the western slope of the Sierra Nevada. This area is mostly national

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		forest, EBMUD-owned lands and other undeveloped lands little affected by human activity. The Mokelumne watershed collects snowmelt from Alpine, Amador and Calaveras counties. The snowmelt flows into Pardee Reservoir near the town of Valley Springs. Three aqueducts carry water more than 90 miles from Pardee Reservoir to the East Bay and protect it from pesticides, agricultural and urban runoff, municipal sewage and industrial discharges. When water demand is high or during times of operational need, EBMUD also draws water from protected local watersheds. EBMUD has prepared a Water Supply Management Plan 2040 to estimate water supply needs over a 30-year planning period and proposes a diverse portfolio of policy initiatives and potential projects to ensure that needs are being met in dry years. The portfolio of solutions includes increased conservation and provision of recycled water, as well as rationing and a mix of possible supplemental supply projects that can be adjusted and implemented in a step-wise manner over the next 30 years as necessary to respond to changes in demand, changes in supplies, and future uncertainties, including the potential for climate change effects on both supply and demand. In addition to including aggressive conservation goals and an increase in the provision of recycled water, a mix of possible supplemental supply projects intended to be pursued in progressive stages is included, with the projects involving the fewest regulatory and institutional challenges undergoing study in order to respond to water need in the short-term, while the other more complex, regional projects to be pursued in the longer-term, beyond 2025, if the demand arises and other short-term projects do not provide sufficient yield to meet dry year needs. In addition, the Water Supply Assessment prepared by the East Bay Municipal Utility District (EBMUD) for the West Oakland Specific Plan (WOSP) EIR concluded that EBMUD has sufficient water supplies to meet current demand and future water demand through 2035, including the increased water demand associated with the WOSP, during normal, single dry, and multiple dry years. The City has adopted Uniformly Applied Development Standards imposed as Standard Conditions of Approval (SCAs) that apply to utility and service systems and water conservation measures. Application of these standards and implementation of these measures would further ensure that impacts related to water supply are less than significant. *SCAs Required:* **WS1. Recycled Water** Pursuant to section 16.08.030 of the Oakland Municipal Code, the project applicant shall provide for the use of recycled water in the project for feasible recycled water uses unless the City determines that there is a higher and better use for the recycled water, the use of recycled water is not economically justified for the project, or the use of recycled water is not financially or technically feasible for the project. Feasible recycled water uses may include, but are not limited to, landscape irrigation, commercial and industrial process use, and toilet

Environmental Assessment Factor	Impact Code	Impact Evaluation
		and urinal flushing in non-residential buildings. The project applicant shall contact the New Business Office of the East Bay Municipal Utility District (EBMUD) for a recycled water feasibility assessment by the Office of Water Recycling. If recycled water is to be provided in the project, the project drawings submitted for construction-related permits shall include the proposed recycled water system and the project applicant shall install the recycled water system during construction. **WS2. Water Efficient Landscape Ordinance (WELO)** The project applicant shall comply with California's Water Efficient Landscape Ordinance (WELO) in order to reduce landscape water usage. For the specific ordinance requirements, see the link below: http://www.water.ca.gov/wateruseefficiency/ landscapeordinance/docs/Title%2023%20extract%20-%20Official%20CCR%20pages.pdf For any landscape project with an aggregate (total noncontiguous) landscape area equal to 2,500 sq. ft. or less, the project applicant may implement either the Prescriptive Measures or the Performance Measures, of, and in accordance with the California's Model Water Efficient Landscape Ordinance. For any landscape project with an aggregate (total noncontiguous) landscape area over 2,500 sq. ft., the project applicant shall implement the Performance Measures in accordance with the WELO. Prescriptive Measures: Prior to construction, the project applicant shall submit the Project Information (detailed below) and documentation showing compliance with Appendix D of California's Model Water Efficient Landscape Ordinance (see page 38.14(g) in the link above): Performance Measures: Prior to construction, the project applicant shall prepare and submit a Landscape Documentation Package for review and approval, which includes the following: a. Project Information • Date • Applicant and property owner name • Project address • Total landscape area • Project type (new, rehabilitated, cemetery, or home owner installed) • Water supply type and water purveyor • Checklist of documents in the package • Project contacts • Applicant signature and date with the statement: "I agree to comply with the requirements of the water efficient landscape ordinance and submit a complete Landscape Documentation Package." b. Water Efficient Landscape Worksheet: • Hydrozone Information Table • Water Budget Calculations with Maximum Applied Water Allowance (MAWA) and Estimated Total Water Use c. Soil Management Report d. Landscape Design Plan e. Irrigation Design Plan

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		f. Grading Plan Upon installation of the landscaping and irrigation systems, and prior to the final of a construction-related permit, the Project applicant shall submit a Certificate of Completion (see page 38.6 in the link above) and landscape and irrigation maintenance schedule for review and approval by the City. The Certificate of Completion shall also be submitted to the local water purveyor and property owner or his or her designee. ***Source Documents:*** 3, 62, 65, 66
Public Safety - Police, Fire and Emergency Medical	2	**Police** The Oakland Police Department (OPD) provides police services to the area. The site is located in Beat 02Y within Area 1. The nearest station is located at 455 7th St, 1.8 miles east. Area 1 comprises ten community policing beats. Although the demand for police services would incrementally increase, it is not expected that the project would require construction or expansion of law enforcement facilities or the number of sworn officers; therefore the impact is considered less than significant. **Fire and Emergency Medical** The Oakland Fire Department provides emergency services to the site and vicinity. The nearest fire station is Fire Station No. 3 located at 1445 14th Street, approximately 0.8 miles east. Emergency response starts with the 9-1-1 Dispatch Center. This Accredited Center of Excellence provides the highest level of emergency dispatch; the Fire Prevention Bureau is knowledgeable of the fire code and the vegetation management system; the Public Education Division has built strong partnerships with local schools, libraries, head start programs, and senior and community centers. Emergency preparedness is a core function of the Oakland Fire Department. Communities of Oakland Responding to Emergencies (CORE) teaches self-reliance skills and helps establish response teams to take care of neighborhoods until professional emergency response personnel arrive. Because first responders will be overwhelmed during a catastrophic event such as a major earthquake on the Hayward fault, it is critical that community members are prepared to be self-sufficient for the first 72 hours or longer during an emergency. The Oakland Fire Department is comprised of eight divisions including the Operations Division. The Operations Division responds out of 25 Fire Stations, located throughout the City and the International Airport, operating a fleet of 24 Engines, 7 Trucks, and numerous other special operations, support, and reserve units throughout 3 Battalions. The OFD responds to approximately 60,000 emergency calls annually, with over 80% being emergency medical services calls. The project would only have a significant impact if it were to exceed the ability of fire and emergency medical providers to adequately serve the existing and future residents and require new or expanded facilities. However, planned projects such as this one would incrementally increase service needs but the impact would be less than significant.

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		Although the demand for fire and emergency medical services would increase, it would not require the new construction or expansion of Fire or Emergency Medical facilities; therefore the impact is considered less than significant. ***Source Documents:*** 67, 68, 69
Parks, Open Space and Recreation	2	The project site has numerous parks and recreational opportunities nearby. A smaller pocket park, Bertha Port Park, is located 0.1 mile south of the project site. Cypress Freeway Memorial Park is located approximately 1 mile east which offers a copious network of running and walking trails along Mandela Parkway. Raimondi Park is 1 mile north of the project site and offers recreational amenities such as a multisport field, playground, putting green, and baseball diamond. Martin Luther King Jr. Regional Shoreline, Damon Slough Staging Area is part of the East Bay Regional Park District and is located at Doolittle Drive and Swan Way, approximately 7.5 miles southeast of the project site. The area is next to Oakland International Airport and is 741-acres that include marshland, trails and the Tidewater Boating Center. Activities at the park include picnicking, birdwatching, hiking, biking, fishing and boating. The City of Oakland's Parks and Recreation Department is over 105 years old. They have 140 parks maintained by Public Works, 66 ball fields, 44 tennis courts, 28 recreation centers, 14 rental venues, 5 swimming pools, 17 community gardens, 3 golf courses, a digital arts and culinary center, 2 boating centers, an inclusionary center, and a host of programs designed for tiny tots to seniors, collectively serving over 95,000 enrolled participants and over a million drop-in users annually. The project represents an incremental demand for recreational facilities therefore impacts are considered less than significant. ***Source Documents:*** 10, 70, 71
Transportation and Accessibility	3	**Transportation** Transportation impacts caused by the proposed project to traffic vary depending upon the number of vehicle miles traveled the project will generate, the availability of public transit, the bicycle network, and the completeness of the nearby pedestrian network. Close amenities serve to further reduce the impacts to traffic. <u>Pedestrian and Bicycle</u> The project is consistent with both the City's Pedestrian Master Plan and Bicycle Master Plan as it would not make major modifications to existing pedestrian or bicycle facilities in the surrounding areas and would not adversely affect installation of future facilities. The project site and vicinity are walkable and the sidewalk network is complete. The City of Oakland is bicycle-friendly and has an extensive bicycle network for access throughout the city. The site is adjacent to 8th Street, a Class II bikeway. Three blocks north, Peralta Street is also a Class II bikeway. The City also requires that projects comply with the City of Oakland Bicycle

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		Parking Requirements (chapter 17.118 of the Oakland Planning Code). <u>Public Transit</u> Bay Area Rapid Transit (BART) is a heavy-rail and subway system that connects San Francisco with cities in the East Bay and suburbs in Northern San Mateo County. BART's rapid transit system operates 7 routes on 121 miles of line with 48 stations in multiple counties. The project is located approximately 0.5 miles northwest of the West Oakland BART Station at 1451 7th street. This site affords residents the opportunity to look for work outside the immediate area, as reliable, convenient and cost-effective public transportation is readily available. AmTrak and Capitol Corridor trains can be caught at the Oakland Coliseum/Airport Station (OAC) accessible from the BART Station. AmTrak provides state-wide and country-wide train services between Auburn, Sacramento, Emeryville, Oakland, and San Jose. Alameda County-Contra Coast Transit (AC Transit) The site's location will afford residents with many options to meet their transportation needs. The project is located approximately 0.1 miles from frequent bus service along Wood street (AC Transit Route 14, with 15-minute peak headways). <u>Personal Vehicles</u> According to the Institute of Transportation Engineers (ITE) Trip Generation, 10th Edition for land use code 221 (Mid-Rise Apartment, General Urban/Suburban) the project would generate 23 AM peak hour trips and 27 PM peak hour trips. The additional 7,503 square feet of office and gathering space in the community building will serve the neighboring residents in the supportive housing and would also generate a minimal amount of additional peak trips. The proposed project is estimated to add fewer than 100 peak hour trips to any intersection and fewer than 50 peak hour trips to any minor-street movements. In addition, the proposed project would not add 50 or more peak hour trips to any intersections operate at Level of Service D or lower. The proposed project would provide new on-street parking on Shorey Street, in addition to off-street surface parking lots on the west side of the project, which would be accessed through driveways on Shorey Street. Motorists would travel to and from the site using Shorey, 9th, and/or Pine Streets. Shorey Street would be re-opened to provide perpendicular parking spaces on the north side of the street adjacent to the proposed project and the west end of the cul-de-sac adjacent to the sound wall, as well as parallel parking spaces on the south side of the street. The proposed on-street and off-street parking areas would provide adequate circulation for passenger vehicles. Vehicles would have adequate space to wait and maneuver into and out of spaces with minimal conflict. Once the rest of the phases are constructed and the access driveway is completed, vehicles would exit the off-street parking area onto 9th or Shorey Streets, both of which would connect with

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		intersections at Pine Street. The driveway on Shorey Street would have minimal conflicts with pedestrians because it is located at the end of a cul-de-sac and would have few pedestrians crossing. Additionally, the driveway would provide adequate sight distance between vehicles entering and exiting and pedestrians on the adjacent sidewalks. Adequate sight distance is defined as a continuous line-of-sight between an exiting motorist ten feet back from the sidewalk and a pedestrian ten feet away on the adjacent sidewalk on either side of the driveway. The internal driveways providing access to the parking courts would cross internal pedestrian walkways, but these driveways provide adequate sight distance, as presented in the most recent site plan. The project would increase vehicle traffic and pedestrian crossings at the Shorey Street-8th Street/ Pine Street intersection. Pedestrians would likely cross the Shorey Street approach of this intersection to travel between the project site and BART station or other destinations. The project would provide curb extensions and a directional curb-ramp across the west approach of the intersection, improving sight distance between vehicles and pedestrians at that crossing. The intersection would continue to be all-way stop-controlled. <u>Parking</u> The subject site is located at the corner of Pine Street and Shorey Street, two local access roads. The project would encourage the use of non-automobile transportation modes by providing residential and commercial uses in a dense, walkable urban environment approximately 0.5 miles from the West Oakland BART Station and 0.1 miles from frequent bus service along Wood Street (Route 14, with 15-minute peak headways). The proximity to public transit stations and bus lines makes the project an excellent candidate to encourage use of multi-modal forms of transportation that supports reduced parking. Hence, the project provides 24 parking spaces, including 2 accessible stalls and 1 EV-ready stall. The proposed project would be consistent Section 15.04 of the Oakland Municipal Code, which includes requirement for plug-in electric vehicle (PEV) infrastructure. The project's 24 parking spaces are approximately 50 percent of the 51 spaces required spaces for a 100 percent affordable housing project within a half mile of BART (0.5 spaces per unit). The project utilized concessions under the State Density Bonus Law to reduce the parking. An additional 12 street-parking spaces are located along Shorey Street. <u>Conclusion</u> Pedestrian, bicycle and transit facilities are expected to adequately serve the project. The project is transit-oriented by nature of its proximity to public rail and bus transit services and its reduced parking supply. Project impacts to traffic are considered less than significant. **Accessibility** The project will comply with all HUD and local requirements for accessibility at the site. The proposed project would re-open Shorey

Environmental Assessment Factor	Impact Code	Impact Evaluation
		Street and would install curbs and sidewalks along the project frontage on Shorey Street. The sidewalks provided on Shorey Street would be at least five feet wide, according to the site plan. A six-foot wide pedestrian walkway would also be provided along Shorey Lane. As discussed above, the project would provide curb extensions and a directional curb-ramp across the west approach of the Shorey Street-8th Street/Pine Street intersection, improving sight distance between vehicles and pedestrians at that crossing. The City has adopted Uniformly Applied Development Standards imposed as Standard Conditions of Approval (SCAs) that apply to transportation. Application of these standards and implementation of these measures would further ensure that impacts related to transportation are less than significant. *SCAs Required:* **TA1. Bicycle Parking** The project applicant shall comply with the City of Oakland Bicycle Parking Requirements (chapter 17.118 of the Oakland Planning Code). The project drawings submitted for construction-related permits shall demonstrate compliance with the requirements. **TA2. Public Improvements** The project applicant shall obtain all necessary permits/approvals, such as encroachment permits, obstruction permits, curb/gutter/sidewalk permits, and public improvement ("p-job") permits from the City for work in the public right-of-way, including but not limited to, streets, curbs, gutters, sidewalks, utilities, and fire hydrants. Prior to any work in the public right-of-way, the applicant shall submit plans for review and approval by the Bureau of Planning, the Bureau of Building, Engineering Services, Department of Transportation, and other City departments as required. Public improvements shall be designed and installed to the satisfaction of the City. ***Source Documents:*** 1, 72, 73, 74
NATURAL FEATURES		
Unique Natural Features, Water Resources	2	There are no unique natural features or water resources on the site. The site is predominately flat topographically with a concrete surface covering much of the lot and is not near any creeks, streams, water courses, seasonal wetlands or other water resources. There is no impact in this regard. ***Source Documents:*** 9, 10, 40
Vegetation, Wildlife	2	Neither the City of Oakland's LUTE or Open Space, Conservation, and Recreation Element (OSCAR) identify the site as hosting protected habitat, special status plant or animal species, or the four native plant communities of conservation value identified by the OSCAR. Additionally, no protected, candidate, or special status plant or animal species has its habitat in the type of landscape that exists at the project site. There are no habitat conservation plans or natural community conservation plans applicable to the site.

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		There are four trees on the project site that would be removed and one near the site at the intersection of Shorey Street and Pine Street that would remain. Compliance with the City of Oakland Standard Conditions of Approval (SCAs) would ensure proper tree protections and replacement plantings are implemented to reduce impacts to a less-than-significant level. See Endangered Species section for full SCA language. *SCAs Required:* **BR1. Tree Removal During Bird Breeding Season.** To the extent feasible, removal of any tree and/or other vegetation suitable for nesting of birds shall not occur during the bird breeding season of February 1 to August 15 (or during December 15 to August 15 for trees located in or near marsh, wetland, or aquatic habitats). If tree removal must occur during the bird breeding season, all trees to be removed shall be surveyed by a qualified biologist to verify the presence or absence of nesting raptors or other birds. Pre-removal surveys shall be conducted within 15 days prior to the start of work and shall be submitted to the City for review and approval. If the survey indicates the potential presence of nesting raptors or other birds, the biologist shall determine an appropriately sized buffer around the nest in which no work will be allowed until the young have successfully fledged. The size of the nest buffer will be determined by the biologist in consultation with the California Department of Fish and Wildlife, and will be based to a large extent on the nesting species and its sensitivity to disturbance. In general, buffer sizes of 200 feet for raptors and 50 feet for other birds should suffice to prevent disturbance to birds nesting in the urban environment, but these buffers may be increased or decreased, as appropriate, depending on the bird species and the level of disturbance anticipated near the nest. **BR2. Tree Permit.** a. <u>Tree Permit Required</u> Pursuant to the City's Tree Protection Ordinance (OMC chapter 12.36), the project applicant shall obtain a tree permit and abide by the conditions of that permit. b. <u>Tree Protection During Construction</u> Adequate protection shall be provided during the construction period for any trees which are to remain standing, including the following, plus any recommendations of an arborist: i. Before the start of any clearing, excavation, construction, or other work on the site, every protected tree deemed to be potentially endangered by said site work shall be securely fenced off at a distance from the base of the tree to be determined by the project's consulting arborist. Such fences shall remain in place for duration of all such work. All trees to be removed shall be clearly marked. A scheme shall be established for the removal and disposal of logs, brush, earth and other debris which will avoid injury to any protected tree. ii. Where proposed development or other site work is to encroach upon the protected perimeter of any protected tree, special measures shall be incorporated to allow the roots to breathe and

Environmental Assessment Factor	Impact Code	Impact Evaluation
		obtain water and nutrients. Any excavation, cutting, filling, or compaction of the existing ground surface within the protected perimeter shall be minimized. No change in existing ground level shall occur within a distance to be determined by the project's consulting arborist from the base of any protected tree at any time. No burning or use of equipment with an open flame shall occur near or within the protected perimeter of any protected tree. iii. No storage or dumping of oil, gas, chemicals, or other substances that may be harmful to trees shall occur within the distance to be determined by the project's consulting arborist from the base of any protected trees, or any other location on the site from which such substances might enter the protected perimeter. No heavy construction equipment or construction materials shall be operated or stored within a distance from the base of any protected trees to be determined by the project's consulting arborist. Wires, ropes, or other devices shall not be attached to any protected tree, except as needed for support of the tree. No sign, other than a tag showing the botanical classification, shall be attached to any protected tree. iv. Periodically during construction, the leaves of protected trees shall be thoroughly sprayed with water to prevent buildup of dust and other pollution that would inhibit leaf transpiration. v. If any damage to a protected tree should occur during or as a result of work on the site, the project applicant shall immediately notify the Public Works Department and the project's consulting arborist shall make a recommendation to the City Tree Reviewer as to whether the damaged tree can be preserved. If, in the professional opinion of the Tree Reviewer, such tree cannot be preserved in a healthy state, the Tree Reviewer shall require replacement of any tree removed with another tree or trees on the same site deemed adequate by the Tree Reviewer to compensate for the loss of the tree that is removed. vi. All debris created as a result of any tree removal work shall be removed by the project applicant from the property within two weeks of debris creation, and such debris shall be properly disposed of by the project applicant in accordance with all applicable laws, ordinances, and regulations. c. <u>Tree Replacement Plantings</u> Replacement plantings shall be required for tree removals for the purposes of erosion control, groundwater replenishment, visual screening, wildlife habitat, and preventing excessive loss of shade, in accordance with the following criteria: i. No tree replacement shall be required for the removal of nonnative species, for the removal of trees which is required for the benefit of remaining trees, or where insufficient planting area exists for a mature tree of the species being considered. ii. Replacement tree species shall consist of Sequoia sempervirens (Coast Redwood), Quercus agrifolia (Coast Live Oak), Arbutus menziesii (Madrone), Aesculus californica (California Buckeye), Umbellularia californica (California Bay Laurel), or other tree species acceptable to the Tree Division. iii. Replacement trees shall be at least twenty-four (24) inch box size, unless a smaller size is recommended by the arborist, except that three fifteen (15) gallon size trees may be substituted for each twenty-four (24) inch box size tree where appropriate.

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		iv. Minimum planting areas must be available on-site as follows: • For Sequoia sempervirens, three hundred fifteen (315) square feet per tree; • For other species listed, seven hundred (700) square feet per tree. v. In the event that replacement trees are required but cannot be planted due to site constraints, an in lieu fee in accordance with the City's Master Fee Schedule may be substituted for required replacement plantings, with all such revenues applied toward tree planting in city parks, streets and medians. The project applicant shall install the plantings and maintain the plantings until established. The Tree Reviewer of the Tree Division of the Public Works Department may require a landscape plan showing the replacement plantings and the method of irrigation. Any replacement plantings which fail to become established within one year of planting shall be replanted at the project applicant's expense. ***Source Documents:*** 8, 10
Other Factors	2	The project will provide much needed affordable housing with a supportive service environment on-site for residents. The project will provide a safe, clean, and sanitary place for mixed-income residents, including permanent supportive housing for families experiencing homelessness. The project is beneficial to both residents and the community.

Additional Studies Performed

See Source Documentation List

Field Inspection (Date and completed by)

May 5, 2020, by Julia Karnowski

List of Sources, Agencies and Persons Consulted [40 CFR 1508.9(b)]

See Source Documentation List

List of Permits Obtained

The City of Oakland's Planning Commission has approved the project's planning application (December 19, 2018; PLN18-252 with further design changes approved August 28th, 2019) which includes design review approval, subdivision, and CEQA findings. No other permits have been obtained yet, as the moment the use of federal funds was contemplated, all project actions were halted to conduct this environmental review.

Public Outreach [24 CFR 50.23 & 58.43]

The project results in a Finding of No Significant Impact (FONSI) which will be published in the newspaper and circulated to public agencies, interested parties, and landowners/occupants of parcels located within the project's Area of Potential Effects (APE). Information about where the public may find the Environmental Review Record pertinent to the project will be included in the FONSI Notice.

The City of Oakland Planning Commission approved the project on December 19, 2018 at a public hearing where seven community members made public comments on the project. Six speakers openly supported the project and one speaker had a mixed opinion and concern regarding the project. The project was also presented to the Prescott Neighborhood Council. The Design Review Committee approved further design changes on August 28th, 2019.

The proposed project is part of the West Oakland Specific Plan, for which the Oakland Planning Department conducted five public workshops over 10 months in addition to multiple community meetings and public hearings to provide opportunities to gather feedback.

Presentations and regular updates will be provided to the community as the project progresses.

Cumulative Impact Analysis [24 CFR 58.32]

This project has been approved by the City of Oakland as to design, use, and variances as of December 2018 and thus has been considered as an “approved project” in subsequent cumulative impacts analysis of later projects. No negative cumulative impact is anticipated.

Alternatives [24 CFR 58.40(e); 40 CFR 1508.9]

A reduced-density alternative to the project site was considered but deemed infeasible. The project would be inconsistent with the planning application approvals already achieved and not meet the goal of providing as many supportive housing units as possible.

No Action Alternative [24 CFR 58.40(e)]

No change to the site would occur. The impacts discussed in the Environmental Assessment would not occur. The site would continue in its current state. Additional affordable housing units would not be created. The site may be sold for residential housing, commercial, light industrial, or other uses. The approvals achieved so far would not be utilized.

Summary of Findings and Conclusions

The project is suitable from an environmental standpoint. As long as the SCAs and mitigation measures are adhered to, there is no anticipated significant impact from the project. The project will provide a safe, sanitary, and affordable place for residents.

MITIGATION MEASURES AND CONDITIONS [40 CFR 1505.2(C)]

Summarize below all mitigation measures adopted by the Responsible Entity to reduce, avoid, or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements, and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

The Standard Conditions of Approval were initially and formally adopted by the Oakland City Council on November 3, 2008 (Ordinance No. 12899 C.M.S.), pursuant to Public Resources Code section 21083.3 and CEQA Guidelines section 15183 (and now section 15183.3), and incorporate development policies and standards from various adopted plans, policies, and ordinances (such as the Oakland Planning and Municipal Codes, Oakland Creek Protection, Stormwater Management and Discharge Control Ordinance, Oakland Tree Protection Ordinance, Oakland Grading Regulations, National Pollutant Discharge Elimination System (NPDES) requirements, Housing Element and other General Plan Element-related mitigation measures, California Building Code, Uniform Fire Code, Energy and Climate Action Plan, Complete Streets Policy, and Green Building Ordinance, among others), which have been found to substantially mitigate environmental effects.

Where there are peculiar circumstances associated with a project or project site that will result in significant environmental impacts despite implementation of the Standard Conditions of Approval, mitigation measures have been identified to reduce the impact to less than significant levels. A Standard Conditions of Approval/Mitigation Monitoring and Reporting Program is attached as a separate document.

** A Standard Condition of Approval /Mitigation Monitoring and Reporting Program is attached as a separate document.

Law, Authority, or Factor	Mitigation Measure
Clean Air	**AQ1. Dust Controls – Construction Related.** The project applicant shall implement all of the following applicable dust control measures during construction of the project: a. Water all exposed surfaces of active construction areas at least twice daily. Watering should be sufficient to prevent airborne dust from leaving the site. Increased watering frequency may be necessary whenever wind speeds exceed 15 miles per hour. Reclaimed water should be used whenever feasible. b. Cover all trucks hauling soil, sand, and other loose materials or require all trucks to maintain at least two feet of freeboard (i.e., the minimum required space between the top of the load and the top of the trailer). c. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited. d. Limit vehicle speeds on unpaved roads to 15 miles per hour. e. All demolition activities (if any) shall be suspended when average wind speeds exceed 20 mph. f. All trucks and equipment, including tires, shall be washed off prior to leaving the site. g. Site accesses to a distance of 100 feet from the paved road shall be treated

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	with a 6 to 12 inch compacted layer of wood chips, mulch, or gravel. **AQ2. Criteria Air Pollutant Controls – Construction Related.** The project applicant shall implement all of the following applicable basic control measures for criteria air pollutants during construction of the project as applicable: a. Idling times on all diesel-fueled commercial vehicles over 10,000 lbs. shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to two minutes (as required by the California airborne toxics control measure Title 13, Section 2485, of the California Code of Regulations). Clear signage to this effect shall be provided for construction workers at all access points. b. Idling times on all diesel-fueled off-road vehicles over 25 horsepower shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to two minutes and fleet operators must develop a written policy as required by Title 23, Section 2449, of the California Code of Regulations ("California Air Resources Board Off-Road Diesel Regulations"). c. All construction equipment shall be maintained and properly tuned in accordance with the manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation. Equipment check documentation should be kept at the construction site and be available for review by the City and the Bay Area Air Quality District as needed. d. Portable equipment shall be powered by grid electricity if available. If electricity is not available, propane or natural gas generators shall be used if feasible. Diesel engines shall only be used if grid electricity is not available and propane or natural gas generators cannot meet the electrical demand. e. Low VOC (i.e., ROG) coatings shall be used that comply with BAAQMD Regulation 8, Rule 3: Architectural Coatings. f. All equipment to be used on the construction site shall comply with the requirements of Title 13, Section 2449, of the California Code of Regulations ("California Air Resources Board Off-Road Diesel Regulations") and upon request by the City (and the Air District if specifically requested), the project applicant shall provide written documentation that fleet requirements have been met. **AQ3. Diesel Particulate Matter Controls – Construction Related** The project applicant shall implement appropriate measures during construction to reduce potential health risks to sensitive receptors due to exposure to diesel particulate matter (DPM) from construction emissions. The project applicant shall choose one of the following methods: i. The project applicant shall retain a qualified air quality consultant to prepare a Health Risk Assessment (HRA) in accordance with current guidance from the California Air Resources Board (CARB) and Office of Environmental Health and Hazard Assessment to determine the health risk to sensitive receptors exposed to DPM from project construction emissions. The HRA shall be submitted to the City (and the Air District if specifically requested) for review and approval. If the HRA concludes that the health risk is at or below acceptable levels, then DPM reduction measures are not required. If the HRA concludes that the health risk exceeds acceptable levels, DPM reduction measures shall be identified to reduce the health risk to acceptable levels as set forth under subsection b below. Identified DPM reduction measures shall be submitted to the City for review and approval prior to the issuance of building permits and the approved DPM reduction measures shall be implemented during construction. -or- ii. All off-road diesel equipment shall be equipped with the most effective Verified Diesel Emission Control Strategies (VDECS) available for the engine type (Tier 4

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	engines automatically meet this requirement) as certified by CARB. The equipment shall be properly maintained and tuned in accordance with manufacturer specifications. This shall be verified through an equipment inventory submittal and Certification Statement that the Contractor agrees to compliance and acknowledges that a significant violation of this requirement shall constitute a material breach of contract. **AQ4. Exposure to Air Pollution (Toxic Air Contaminants)** a. <u>Health Risk Reduction Measures</u> The project applicant shall incorporate appropriate measures into the project design in order to reduce the potential health risk due to exposure to toxic air contaminants. The project applicant shall choose one of the following methods: i. The project applicant shall retain a qualified air quality consultant to prepare a Health Risk Assessment (HRA) in accordance with California Air Resources Board (CARB) and Office of Environmental Health and Hazard Assessment requirements to determine the health risk of exposure of project residents/occupants/users to air pollutants. The HRA shall be submitted to the City for review and approval. If the HRA concludes that the health risk is at or below acceptable levels, then health risk reduction measures are not required. If the HRA concludes that the health risk exceeds acceptable levels, health risk reduction measures shall be identified to reduce the health risk to acceptable levels. Identified risk reduction measures shall be submitted to the City for review and approval and be included on the project drawings submitted for the construction-related permit or on other documentation submitted to the City. The approved risk reduction measures shall be implemented during construction and/or operations as applicable. - or - ii. The project applicant shall incorporate the following health risk reduction measures into the project. These features shall be submitted to the City for review and approval and be included on the project drawings submitted for the construction-related permit or on other documentation submitted to the City: • Installation of air filtration to reduce cancer risks and Particulate Matter (PM) exposure for residents and other sensitive populations in the project that are in close proximity to sources of air pollution. Air filter devices shall be rated MERV-13 [insert MERV-16 for projects located in the West Oakland Specific Plan area] or higher. As part of implementing this measure, an ongoing maintenance plan for the building's HVAC air filtration system shall be required. • Where appropriate, install passive electrostatic filtering systems, especially those with low air velocities (i.e., 1 mph). • Phasing of residential developments when proposed within 500 feet of freeways such that homes nearest the freeway are built last, if feasible. • The project shall be designed to locate sensitive receptors as far away as feasible from the source(s) of air pollution. Operable windows, balconies, and building air intakes shall be located as far away from these sources as feasible. If near a distribution center, residents shall be located as far away as feasible from a loading dock or where trucks concentrate to deliver goods. • Sensitive receptors shall be located on the upper floors of buildings, if feasible. • Planting trees and/or vegetation between sensitive receptors and pollution source, if feasible. Trees that are best suited to trapping PM shall be planted, including one or more of the following: Pine (Pinus nigra var. maritima), Cypress (X Cupressocyparis leylandii), Hybrid poplar (Populus deltoids X trichocarpa), and Redwood (Sequoia sempervirens). • Sensitive receptors shall be located as far away from truck activity areas, such as loading docks and delivery areas, as feasible. • Existing and new diesel generators shall meet CARB's Tier 4 emission

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	standards, if feasible. • Emissions from diesel trucks shall be reduced through implementing the following measures, if feasible: o Installing electrical hook-ups for diesel trucks at loading docks. o Requiring trucks to use Transportation Refrigeration Units (TRU) that meet Tier 4 emission standards. o Requiring truck-intensive projects to use advanced exhaust technology (e.g., hybrid) or alternative fuels. o Prohibiting trucks from idling for more than two minutes. o Establishing truck routes to avoid sensitive receptors in the project. A truck route program, along with truck calming, parking, and delivery restrictions, shall be implemented. b. <u>Maintenance of Health Risk Reduction Measures</u> The project applicant shall maintain, repair, and/or replace installed health risk reduction measures, including but not limited to the HVAC system (if applicable), on an ongoing and as-needed basis. Prior to occupancy, the project applicant shall prepare and then distribute to the building manager/operator an operation and maintenance manual for the HVAC system and filter including the maintenance and replacement schedule for the filter.
Contamination and Toxic Substances	**CT1. Compliance with Corrective Action Implementation Plan (CAIP).** Ensure all measures identified in the final CAIP approved by Alameda County Department of Environmental Health for the project site are implemented during project construction. **CT2. Asbestos in Structures.** The project applicant shall comply with all applicable laws and regulations regarding demolition and renovation of Asbestos Containing Materials (ACM), including but not limited to California Code of Regulations, Title 8; California Business and Professions Code, Division 3; California Health and Safety Code sections 25915-25919.7; and Bay Area Air Quality Management District, Regulation 11, Rule 2, as may be amended. Evidence of compliance shall be submitted to the City upon request. **CT3. Hazardous Materials Related to Construction.** The project applicant shall ensure that Best Management Practices (BMPs) are implemented by the contractor during construction to minimize potential negative effects on groundwater, soils, and human health. These shall include, at a minimum, the following: a. Follow manufacture's recommendations for use, storage, and disposal of chemical products used in construction; b. Avoid overtopping construction equipment fuel gas tanks; c. During routine maintenance of construction equipment, properly contain and remove grease and oils; d. Properly dispose of discarded containers of fuels and other chemicals; e. Implement lead-safe work practices and comply with all local, regional, state, and federal requirements concerning lead (for more information refer to the Alameda County Lead Poisoning Prevention Program); and f. If soil, groundwater, or other environmental medium with suspected contamination is encountered unexpectedly during construction activities (e.g., identified by odor or visual staining, or if any underground storage tanks, abandoned drums or other hazardous materials or wastes are encountered), the project applicant shall cease work in the vicinity of the suspect material, the area shall be secured as necessary, and the applicant shall take all appropriate measures to protect human health and the environment. Appropriate measures shall include notifying the City and applicable regulatory agency(ies) and

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	implementation of the actions described in the City's Standard Conditions of Approval, as necessary, to identify the nature and extent of contamination. Work shall not resume in the area(s) affected until the measures have been implemented under the oversight of the City or regulatory agency, as appropriate. **CT4. Hazardous Building Materials and Site Contamination.** a. <u>Hazardous Building Materials Assessment</u> The project applicant shall submit a comprehensive assessment report to the Bureau of Building, signed by a qualified environmental professional, documenting the presence or lack thereof of asbestos-containing materials (ACMs), lead-based paint, polychlorinated biphenyls (PCBs), and any other building materials or stored materials classified as hazardous materials by State or federal law. If lead-based paint, ACMs, PCBs, or any other building materials or stored materials classified as hazardous materials are present, the project applicant shall submit specifications prepared and signed by a qualified environmental professional, for the stabilization and/or removal of the identified hazardous materials in accordance with all applicable laws and regulations. The project applicant shall implement the approved recommendations and submit to the City evidence of approval for any proposed remedial action and required clearances by the applicable local, state, or federal regulatory agency. b. <u>Environmental Site Assessment Required</u> The project applicant shall submit a Phase I Environmental Site Assessment report, and Phase II Environmental Site Assessment report if warranted by the Phase I report, for the project site for review and approval by the City. The report(s) shall be prepared by a qualified environmental assessment professional and include recommendations for remedial action, as appropriate, for hazardous materials. The project applicant shall implement the approved recommendations and submit to the City evidence of approval for any proposed remedial action and required clearances by the applicable local, state, or federal regulatory agency. c. <u>Health and Safety Plan Required</u> The project applicant shall submit a Health and Safety Plan for the review and approval by the City in order to protect project construction workers from risks associated with hazardous materials. The project applicant shall implement the approved Plan. d. <u>Best Management Practices (BMPs) Required for Contaminated Sites</u> The project applicant shall ensure that Best Management Practices (BMPs) are implemented by the contractor during construction to minimize potential soil and groundwater hazards. These shall include the following: i. Soil generated by construction activities shall be stockpiled on-site in a secure and safe manner. All contaminated soils determined to be hazardous or non-hazardous waste must be adequately profiled (sampled) prior to acceptable reuse or disposal at an appropriate off-site facility. Specific sampling and handling and transport procedures for reuse or disposal shall be in accordance with applicable local, state, and federal requirements. ii. Groundwater pumped from the subsurface shall be contained on-site in a secure and safe manner, prior to treatment and disposal, to ensure environmental and health issues are resolved pursuant to applicable laws and policies. Engineering controls shall be utilized, which include impermeable barriers to prohibit groundwater and vapor intrusion into the building. **CT5. Regulatory Permits and Authorizations from Other Agencies** The project applicant shall obtain all necessary regulatory permits and authorizations from applicable resource /regulatory agencies including, but not limited to, the

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	Regional Water Quality Control Board, Bay Area Air Quality Management District, Bay Conservation and Development Commission, California Department of Fish and Wildlife, U. S. Fish and Wildlife Service, and Army Corps of Engineers and shall comply with all requirements and conditions of the permits/authorizations. The project applicant shall submit evidence of the approved permits/authorizations to the City, along with evidence demonstrating compliance with any regulatory permit/authorization conditions of approval.
Historic Preservation	**CR1: Archaeological and Paleontological Resources – Discovery During Construction** Pursuant to CEQA Guidelines section 15064.5(f), in the event that any historic or prehistoric subsurface cultural resources are discovered during ground disturbing activities, all work within 50 feet of the resources shall be halted and the project applicant shall notify the City and consult with a qualified archaeologist or paleontologist, as applicable, to assess the significance of the find. In the case of discovery of paleontological resources, the assessment shall be done in accordance with the Society of Vertebrate Paleontology standards. If any find is determined to be significant, appropriate avoidance measures recommended by the consultant and approved by the City must be followed unless avoidance is determined unnecessary or infeasible by the City. Feasibility of avoidance shall be determined with consideration of factors such as the nature of the find, project design, costs, and other considerations. If avoidance is unnecessary or infeasible, other appropriate measures (e.g., data recovery, excavation) shall be instituted. Work may proceed on other parts of the project site while measures for the cultural resources are implemented. In the event of data recovery of archaeological resources, the project applicant shall submit an Archaeological Research Design and Treatment Plan (ARDTP) prepared by a qualified archaeologist for review and approval by the City. The ARDTP is required to identify how the proposed data recovery program would preserve the significant information the archaeological resource is expected to contain. The ARDTP shall identify the scientific/historic research questions applicable to the expected resource, the data classes the resource is expected to possess, and how the expected data classes would address the applicable research questions. The ARDTP shall include the analysis and specify the curation and storage methods. Data recovery, in general, shall be limited to the portions of the archaeological resource that could be impacted by the proposed project. Destructive data recovery methods shall not be applied to portions of the archaeological resources if nondestructive methods are practicable. Because the intent of the ARDTP is to save as much of the archaeological resource as possible, including moving the resource, if feasible, preparation and implementation of the ARDTP would reduce the potential adverse impact to less than significant. The project applicant shall implement the ARDTP at his/her expense. In the event of excavation of paleontological resources, the project applicant shall submit an excavation plan prepared by a qualified paleontologist to the City for review and approval. All significant cultural materials recovered shall be subject to scientific analysis, professional museum curation, and/or a report prepared by a qualified paleontologist, as appropriate, according to current professional standards and at the expense of the project applicant. **CR2. Archaeologically Sensitive Areas – Pre-Construction Measures** The project applicant shall implement either Provision A (Intensive Pre-Construction Study) or Provision B (Construction ALERT Sheet) concerning archaeological resources. **Provision A: Intensive Pre-Construction Study** The project applicant shall retain a qualified archaeologist to conduct a site-specific, intensive archaeological resources study for review and approval by the City prior to soil-disturbing activities occurring on the project site. The purpose of the site-specific,

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	intensive archaeological resources study is to identify early the potential presence of history-period archaeological resources on the project site. At a minimum, the study shall include: a. Subsurface presence/absence studies of the project site. Field studies may include, but are not limited to, auguring and other common methods used to identify the presence of archaeological resources. b. A report disseminating the results of this research. c. Recommendations for any additional measures that could be necessary to mitigate any adverse impacts to recorded and/or inadvertently discovered cultural resources. If the results of the study indicate a high potential presence of historic-period archaeological resources on the project site, or a potential resource is discovered, the project applicant shall hire a qualified archaeologist to monitor any ground disturbing activities on the project site during construction and prepare an ALERT sheet pursuant to Provision B below that details what could potentially be found at the project site. Archaeological monitoring would include briefing construction personnel about the type of artifacts that may be present (as referenced in the ALERT sheet, required per Provision B below) and the procedures to follow if any artifacts are encountered, field recording and sampling in accordance with the Secretary of Interior's Standards and Guidelines for Archaeological Documentation, notifying the appropriate officials if human remains or cultural resources are discovered, and preparing a report to document negative findings after construction is completed if no archaeological resources are discovered during construction. **Provision B: Construction ALERT Sheet** The project applicant shall prepare a construction "ALERT" sheet developed by a qualified archaeologist for review and approval by the City prior to soil-disturbing activities occurring on the project site. The ALERT sheet shall contain, at a minimum, visuals that depict each type of artifact that could be encountered on the project site. Training by the qualified archaeologist shall be provided to the project's prime contractor, any project subcontractor firms (including demolition, excavation, grading, foundation, and pile driving), and utility firms involved in soil-disturbing activities within the project site. The ALERT sheet shall state, in addition to the basic archaeological resource protection measures contained in other standard conditions of approval, all work must stop and the City's Environmental Review Officer contacted in the event of discovery of the following cultural materials: concentrations of shellfish remains; evidence of fire (ashes, charcoal, burnt earth, fire-cracked rocks); concentrations of bones; recognizable Native American artifacts (arrowheads, shell beads, stone mortars [bowls], humanly shaped rock); building foundation remains; trash pits, privies (outhouse holes); floor remains; wells; concentrations of bottles, broken dishes, shoes, buttons, cut animal bones, hardware, household items, barrels, etc.; thick layers of burned building debris (charcoal, nails, fused glass, burned plaster, burned dishes); wood structural remains (building, ship, wharf); clay roof/floor tiles; stone walls or footings; or gravestones. Prior to any soil-disturbing activities, each contractor shall be responsible for ensuring that the ALERT sheet is circulated to all field personnel, including machine operators, field crew, pile drivers, and supervisory personnel. The ALERT sheet shall also be posted in a visible location at the project site. **CR3. Human Remains – Discovery During Construction** Pursuant to CEQA Guidelines section 15064.5(e)(1), in the event that human skeletal remains are uncovered at the project site during construction activities, all work shall immediately halt and the project applicant shall notify the City and the Alameda

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	County Coroner. If the County Coroner determines that an investigation of the cause of death is required or that the remains are Native American, all work shall cease within 50 feet of the remains until appropriate arrangements are made. In the event that the remains are Native American, the City shall contact the California Native American Heritage Commission (NAHC), pursuant to subdivision (c) of section 7050.5 of the California Health and Safety Code. If the agencies determine that avoidance is not feasible, then an alternative plan shall be prepared with specific steps and timeframe required to resume construction activities. Monitoring, data recovery, determination of significance, and avoidance measures (if applicable) shall be completed expeditiously and at the expense of the project applicant.
Noise Abatement and Control	**N1. Operational Noise** Noise levels from the project site after completion of the project (i.e., during project operation) shall comply with the performance standards of chapter 17.120 of the Oakland Planning Code and chapter 8.18 of the Oakland Municipal Code. If noise levels exceed these standards, the activity causing the noise shall be abated until appropriate noise reduction measures have been installed and compliance verified by the City. **N2. Construction Days/Hours** The project applicant shall comply with the following restrictions concerning construction days and hours: a. Construction activities are limited to between 7:00 a.m. and 7:00 p.m. Monday through Friday, except that pier drilling and/or other extreme noise generating activities greater than 90 dBA shall be limited to between 8:00 a.m. and 4:00 p.m. b. Construction activities are limited to between 9:00 a.m. and 5:00 p.m. on Saturday. In residential zones and within 300 feet of a residential zone, construction activities are allowed from 9:00 a.m. to 5:00 p.m. only within the interior of the building with the doors and windows closed. No pier drilling or other extreme noise generating activities greater than 90 dBA are allowed on Saturday. c. No construction is allowed on Sunday or federal holidays. Construction activities include, but are not limited to, truck idling, moving equipment (including trucks, elevators, etc.) or materials, deliveries, and construction meetings held on-site in a non-enclosed area. Any construction activity proposed outside of the above days and hours for special activities (such as concrete pouring which may require more continuous amounts of time) shall be evaluated on a case-by-case basis by the City, with criteria including the urgency/emergency nature of the work, the proximity of residential or other sensitive uses, and a consideration of nearby residents'/occupants' preferences. The project applicant shall notify property owners and occupants located within 300 feet at least 14 calendar days prior to construction activity proposed outside of the above days/hours. When submitting a request to the City to allow construction activity outside of the above days/hours, the project applicant shall submit information concerning the type and duration of proposed construction activity and the draft public notice for City review and approval prior to distribution of the public notice. **N3. Construction Noise** The project applicant shall implement noise reduction measures to reduce noise impacts due to construction. Noise reduction measures include, but are not limited to, the following: a. Equipment and trucks used for project construction shall utilize the best available noise control techniques (e.g., improved mufflers, equipment redesign, use of intake silencers, ducts, engine enclosures and acoustically-attenuating shields or

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	shrouds) wherever feasible. b. Except as provided herein, impact tools (e.g., jack hammers, pavement breakers, and rock drills) used for project construction shall be hydraulically or electrically powered to avoid noise associated with compressed air exhaust from pneumatically powered tools. However, where use of pneumatic tools is unavoidable, an exhaust muffler on the compressed air exhaust shall be used; this muffler can lower noise levels from the exhaust by up to about 10 dBA. External jackets on the tools themselves shall be used, if such jackets are commercially available, and this could achieve a reduction of 5 dBA. Quieter procedures shall be used, such as drills rather than impact equipment, whenever such procedures are available and consistent with construction procedures. c. Applicant shall use temporary power poles instead of generators where feasible. d. Stationary noise sources shall be located as far from adjacent properties as possible, and they shall be muffled and enclosed within temporary sheds, incorporate insulation barriers, or use other measures as determined by the City to provide equivalent noise reduction. e. The noisiest phases of construction shall be limited to less than 10 days at a time. Exceptions may be allowed if the City determines an extension is necessary and all available noise reduction controls are implemented. **N4. Construction Noise Complaints** The project applicant shall submit to the City for review and approval a set of procedures for responding to and tracking complaints received pertaining to construction noise, and shall implement the procedures during construction. At a minimum, the procedures shall include: a. Designation of an on-site construction complaint and enforcement manager for the project; b. A large on-site sign near the public right-of-way containing permitted construction days/hours, complaint procedures, and phone numbers for the project complaint manager and City Code Enforcement unit; c. Protocols for receiving, responding to, and tracking received complaints; and d. Maintenance of a complaint log that records received complaints and how complaints were addressed, which shall be submitted to the City for review upon the City's request. **N5. Extreme Construction Noise** a. <u>Construction Noise Management Plan Required</u> Prior to any extreme noise generating construction activities (e.g., pier drilling, pile driving and other activities generating greater than 90dBA), the project applicant shall submit a Construction Noise Management Plan prepared by a qualified acoustical consultant for City review and approval that contains a set of site-specific noise attenuation measures to further reduce construction impacts associated with extreme noise generating activities. The project applicant shall implement the approved Plan during construction. Potential attenuation measures include, but are not limited to, the following: i. Erect temporary plywood noise barriers around the construction site, particularly along on sites adjacent to residential buildings; ii. Implement "quiet" pile driving technology (such as pre-drilling of piles, the use of more than one pile driver to shorten the total pile driving duration), where feasible, in consideration of geotechnical and structural requirements and conditions; iii. Utilize noise control blankets on the building structure as the building is erected to reduce noise emission from the site; iv. Evaluate the feasibility of noise control at the receivers by temporarily improving the noise reduction capability of adjacent buildings by the use of sound blankets

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	for example and implement such measure if such measures are feasible and would noticeably reduce noise impacts; and v. Monitor the effectiveness of noise attenuation measures by taking noise measurements. b. <u>Public Notification Required</u> The project applicant shall notify property owners and occupants located within 300 feet of the construction activities at least 14 calendar days prior to commencing extreme noise generating activities. Prior to providing the notice, the project applicant shall submit to the City for review and approval the proposed type and duration of extreme noise generating activities and the proposed public notice. The public notice shall provide the estimated start and end dates of the extreme noise generating activities and describe noise attenuation measures to be implemented.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	**SW1. Erosion and Sedimentation Control Measures for Construction** The project applicant shall implement Best Management Practices (BMPs) to reduce erosion, sedimentation, and water quality impacts during construction to the maximum extent practicable. At a minimum, the project applicant shall provide filter materials deemed acceptable to the City at nearby catch basins to prevent any debris and dirt from flowing into the City's storm drain system and creeks. **SW2. NPDES c.3 Stormwater Requirements for Regulated Projects** a. <u>Post-Construction Stormwater Management Plan Required</u> The project applicant shall comply with the requirements of Provision C.3 of the Municipal Regional Stormwater Permit issued under the National Pollutant Discharge Elimination System (NPDES). The project applicant shall submit a Post-Construction Stormwater Management Plan to the City for review and approval with the project drawings submitted for site improvements, and shall implement the approved Plan during construction. The Post-Construction Stormwater Management Plan shall include and identify the following: i. Location and size of new and replaced impervious surface; ii. Directional surface flow of stormwater runoff; iii. Location of proposed on-site storm drain lines; iv. Site design measures to reduce the amount of impervious surface area; v. Source control measures to limit stormwater pollution; vi. Stormwater treatment measures to remove pollutants from stormwater runoff, including the method used to hydraulically size the treatment measures; and vii. Hydromodification management measures, if required by Provision C.3, so that post-project stormwater runoff flow and duration match pre-project runoff. b. <u>Maintenance Agreement Required</u> The project applicant shall enter into a maintenance agreement with the City, based on the Standard City of Oakland Stormwater Treatment Measures Maintenance Agreement, in accordance with Provision C.3, which provides, in part, for the following: i. The project applicant accepting responsibility for the adequate installation/construction, operation, maintenance, inspection, and reporting of any on-site stormwater treatment measures being incorporated into the project until the responsibility is legally transferred to another entity; and Legal access to the on-site stormwater treatment measures for representatives of the City, the local vector control district, and staff of the Regional Water Quality Control Board, San Francisco Region, for the purpose of verifying the implementation, operation, and maintenance of the on-site stormwater treatment measures and to take corrective action if necessary.
Hazards and Nuisances including Site Safety and	**G1. Adherence to Geotechnical Recommendations.** Follow all recommendations laid forth in the Geotechnical Investigation prepared for

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Noise	the PUD, including this project, by Rockridge Geotechnical and dated December 29, 2017 (see Appendix H) including site preparation an grading subgrade preparation, fill material and compaction criteria, utility trench backfill, drainage and landscaping, foundation design, deepened footings, rapid impact compaction, floor slabs, site retaining walls, pavement design and seismic design. **G2. Construction-Related Permit** The project applicant shall obtain all required construction-related permits/approvals from the City. The project shall comply with all standards, requirements and conditions contained in construction-related codes, including but not limited to the Oakland Building Code and the Oakland Grading Regulations, to ensure structural integrity and safe construction. **G3.Soils Report** The project applicant shall submit a soils report prepared by a registered geotechnical engineer for City review and approval. The soils report shall contain, at a minimum, field test results and observations regarding the nature, distribution and strength of existing soils, and recommendations for appropriate grading practices and project design. The project applicant shall implement the recommendations contained in the approved report during project design and construction. **G4. Seismic Hazards Zone (Landslide/Liquefaction)** The project applicant shall submit a site-specific geotechnical report, consistent with California Geological Survey Special Publication 117 (as amended), prepared by a registered geotechnical engineer for City review and approval containing at a minimum a description of the geological and geotechnical conditions at the site, an evaluation of site-specific seismic hazards based on geological and geotechnical conditions, and recommended measures to reduce potential impacts related to liquefaction and/or slope stability hazards. The project applicant shall implement the recommendations contained in the approved report during project design and construction. **N6**. **Comply with Noise Reduction Recommendations**. The project shall implement STC 53 walls and STC 40 windows on at least the the north facade and the south facade closest to Shorey Street and the west façade. as set forth in the Noise Study prepared by Charles Salter Associates, June 16, 2022 and the Noise Waiver (see Appendix I) based on the following assumptions: • Bedrooms will have carpet. • All other rooms will have hard-surface flooring. • Ceilings are 9 feet high. • Window sizes and locations are as shown on the drawings dated 15 November 2019. • The typical exterior wall assembly (e.g. Type WE1) achieves minimum STC 45. • The recommended STC ratings are for full window assemblies (glass and frame) rather than just the glass itself. Tested sound-rated assemblies should be used. If the assumptions change, the applicant shall retain a noise consultant to prepare a revised STraCAT analysis to ensure suitable STC wall and window assemblies. **N7. Ventilation, and Operations and Maintenance Plan.** The Project shall provide mechanically ventilated residential units that are not dependent on opening doors or windows, and shall develop and implement an Operations and Maintenance Plan that provides for periodic inspection of seals, and repair or replacement of building components at private decks or balconies when their noise attenuation performance diminishes.

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	N8. Exposure to Community Noise The project applicant shall submit a Noise Reduction Plan prepared by a qualified acoustical engineer for City review and approval that contains noise reduction measures (e.g., sound-rated window, wall, and door assemblies) to achieve an acceptable interior noise level in accordance with the land use compatibility guidelines of the Noise Element of the Oakland General Plan. The applicant shall implement the approved Plan during construction. To the maximum extent practicable, interior noise levels shall not exceed the following: a. 45 dBA: Residential activities, civic activities, hotels b. 50 dBA: Administrative offices; group assembly activities c. 55 dBA: Commercial activities d. 65 dBA: Industrial activities
Energy Consumption	**EC1. Green Building Requirements** e. <u>Compliance with Green Building Requirements During Plan-Check</u> The project applicant shall comply with the requirements of the California Green Building Standards (CALGreen) mandatory measures and the applicable requirements of the Green Building Ordinance (Chapter 18.02 of the Oakland Municipal Code). The following information shall be submitted to the City for review and approval with the application for a building permit: • Documentation showing compliance with Title 24 of the current version of the California Building Energy Efficiency Standards. • Completed copy of the final green building checklist approved during the review of the Planning and Zoning permit. • Copy of the Unreasonable Hardship Exemption, if granted, during the review of the Planning and Zoning permit. • Permit plans that show, in general notes, detailed design drawings, and specifications as necessary, compliance with the items listed in subsection (ii) below. • Copy of the signed statement by the Green Building Certifier approved during the review of the Planning and Zoning permit that the project complied with the requirements of the Green Building Ordinance. • Signed statement by the Green Building Certifier that the project still complies with the requirements of the Green Building Ordinance, unless an Unreasonable Hardship Exemption was granted during the review of the Planning and Zoning permit. • Other documentation as deemed necessary by the City to demonstrate compliance with the Green Building Ordinance. The set of plans in subsection (a) shall demonstrate compliance with the following: • CALGreen mandatory measures. • Green building point level/certification requirement per the appropriate checklist approved during the Planning entitlement process. • All green building points identified on the checklist approved during review of the Planning and Zoning permit, unless a Request for Revision Plan-check application is submitted and approved by the Bureau of Planning that shows the previously approved points that will be eliminated or substituted. • The required green building point minimums in the appropriate credit categories. f. <u>Compliance with Green Building Requirements During Construction</u> The project applicant shall comply with the applicable requirements of CALGreen and the Oakland Green Building Ordinance during construction of the project.

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	The following information shall be submitted to the City for review and approval: • Planning and Zoning permit and during the review of the building permit. • Signed statement(s) by the Green Building Certifier during all relevant phases of construction that the project complies with the requirements of the Green Building Ordinance. • Other documentation as deemed necessary by the City to demonstrate compliance with the Green Building Ordinance. g. Compliance with Green Building Requirements After Construction Prior to the finaling the Building Permit, the Green Building Certifier shall submit the appropriate documentation to City staff and attain the minimum required point level. **EC2. Plug-In Electric Vehicle (PEV) Charging Infrastructure** h. PEV-Ready Parking Spaces The applicant shall submit, for review and approval of the Building Official and the Zoning Manager, plans that show the location of parking spaces equipped with full electrical circuits designated for future PEV charging (i.e. "PEV-Ready) per the requirements of Chapter 15.04 of the Oakland Municipal Code. Building electrical plans shall indicate sufficient electrical capacity to supply the required PEV-Ready parking spaces. i. PEV-Capable Parking Spaces The applicant shall submit, for review and approval of the Building Official, plans that show the location of inaccessible conduit to supply PEV-capable parking spaces per the requirements of Chapter 15.04 of the Oakland Municipal Code. Building electrical plans shall indicate sufficient electrical capacity to supply the required PEV-capable parking spaces. j. ADA-Accessible Spaces The applicant shall submit, for review and approval of the Building Official, plans that show the location of future accessible EV parking spaces as required under Title 24 Chapter 11B Table 11B-228.3.2.1, and specify plans to construct all future accessible EV parking spaces with appropriate grade, vertical clearance, and accessible path of travel to allow installation of accessible EV charging station(s).
Solid Waste Disposal / Recycling	**Waste1. Construction and Demolition Waste Reduction and Recycling** The project applicant shall comply with the City of Oakland Construction and Demolition Waste Reduction and Recycling Ordinance (chapter 15.34 of the Oakland Municipal Code) by submitting a Construction and Demolition Waste Reduction and Recycling Plan (WRRP) for City review and approval, and shall implement the approved WRRP. Projects subject to these requirements include all new construction, renovations/ alterations/modifications with construction values of $50,000 or more (except R-3 type construction), and all demolition (including soft demolition) except demolition of type R-3 construction. The WRRP must specify the methods by which the project will divert construction and demolition debris waste from landfill disposal in accordance with current City requirements. The WRRP may be submitted electronically at www.greenhalosystems.com or manually at the City's Green Building Resource Center. Current standards, FAQs, and forms are available on the City's website and in the Green Building Resource Center. **Waste2. Recycling Collection and Storage Space** The project applicant shall comply with the City of Oakland Recycling Space Allocation Ordinance (chapter 17.118 of the Oakland Planning Code). The project drawings submitted for construction-related permits shall contain recycling collection and storage areas in compliance with the Ordinance. For residential projects, at least two (2) cubic feet of storage and collection space per residential unit is required, with a

Law, Authority, or Factor	Mitigation Measure
	minimum of ten (10) cubic feet. For nonresidential projects, at least two (2) cubic feet of storage and collection space per 1,000 square feet of building floor area is required, with a minimum of ten (10) cubic feet.
Waste Water/Sanitary Sewers	**WW1. Sanitary Sewer System** The project applicant shall prepare and submit a Sanitary Sewer Impact Analysis to the City for review and approval in accordance with the City of Oakland Sanitary Sewer Design Guidelines. The Impact Analysis shall include an estimate of pre-project and post-project wastewater flow from the project site. In the event that the Impact Analysis indicates that the net increase in project wastewater flow exceeds City-projected increases in wastewater flow in the sanitary sewer system, the project applicant shall pay the Sanitary Sewer Impact Fee in accordance with the City's Master Fee Schedule for funding improvements to the sanitary sewer system.
Water Supply	**WS1. Recycled Water** Pursuant to section 16.08.030 of the Oakland Municipal Code, the project applicant shall provide for the use of recycled water in the project for feasible recycled water uses unless the City determines that there is a higher and better use for the recycled water, the use of recycled water is not economically justified for the project, or the use of recycled water is not financially or technically feasible for the project. Feasible recycled water uses may include, but are not limited to, landscape irrigation, commercial and industrial process use, and toilet and urinal flushing in non-residential buildings. The project applicant shall contact the New Business Office of the East Bay Municipal Utility District (EBMUD) for a recycled water feasibility assessment by the Office of Water Recycling. If recycled water is to be provided in the project, the project drawings submitted for construction-related permits shall include the proposed recycled water system and the project applicant shall install the recycled water system during construction. **WS2. Water Efficient Landscape Ordinance (WELO)** The project applicant shall comply with California's Water Efficient Landscape Ordinance (WELO) in order to reduce landscape water usage. For the specific ordinance requirements, see the link below: http://www.water.ca.gov/wateruseefficiency/ landscapeordinance/docs/Title%2023%20extract%20- %20Official%20CCR%20pages.pdf For any landscape project with an aggregate (total noncontiguous) landscape area equal to 2,500 sq. ft. or less, the project applicant may implement either the Prescriptive Measures or the Performance Measures, of, and in accordance with the California's Model Water Efficient Landscape Ordinance. For any landscape project with an aggregate (total noncontiguous) landscape area over 2,500 sq. ft., the project applicant shall implement the Performance Measures in accordance with the WELO. Prescriptive Measures: Prior to construction, the project applicant shall submit the Project Information (detailed below) and documentation showing compliance with Appendix D of California's Model Water Efficient Landscape Ordinance (see page 38.14(g) in the link above): Performance Measures: Prior to construction, the project applicant shall prepare and submit a Landscape Documentation Package for review and approval, which includes the following: a. Project Information • Date • Applicant and property owner name • Project address • Total landscape area

Law, Authority, or Factor	Mitigation Measure
	• Project type (new, rehabilitated, cemetery, or home owner installed) • Water supply type and water purveyor • Checklist of documents in the package • Project contacts • Applicant signature and date with the statement: "I agree to comply with the requirements of the water efficient landscape ordinance and submit a complete Landscape Documentation Package." b. Water Efficient Landscape Worksheet: • Hydrozone Information Table • Water Budget Calculations with Maximum Applied Water Allowance (MAWA) and Estimated Total Water Use c. Soil Management Report d. Landscape Design Plan e. Irrigation Design Plan f. Grading Plan Upon installation of the landscaping and irrigation systems, and prior to the final of a construction-related permit, the Project applicant shall submit a Certificate of Completion (see page 38.6 in the link above) and landscape and irrigation maintenance schedule for review and approval by the City. The Certificate of Completion shall also be submitted to the local water purveyor and property owner or his or her designee.
Transportation and Accessibility	**TA1. Bicycle Parking** The project applicant shall comply with the City of Oakland Bicycle Parking Requirements (chapter 17.118 of the Oakland Planning Code). The project drawings submitted for construction-related permits shall demonstrate compliance with the requirements. **TA2. Public Improvements** The project applicant shall obtain all necessary permits/approvals, such as encroachment permits, obstruction permits, curb/gutter/sidewalk permits, and public improvement ("p-job") permits from the City for work in the public right-of-way, including but not limited to, streets, curbs, gutters, sidewalks, utilities, and fire hydrants. Prior to any work in the public right-of-way, the applicant shall submit plans for review and approval by the Bureau of Planning, the Bureau of Building, Engineering Services, Department of Transportation, and other City departments as required. Public improvements shall be designed and installed to the satisfaction of the City.
Vegetation, Wildlife	**BR1. Tree Removal During Bird Breeding Season.** To the extent feasible, removal of any tree and/or other vegetation suitable for nesting of birds shall not occur during the bird breeding season of February 1 to August 15 (or during December 15 to August 15 for trees located in or near marsh, wetland, or aquatic habitats). If tree removal must occur during the bird breeding season, all trees to be removed shall be surveyed by a qualified biologist to verify the presence or absence of nesting raptors or other birds. Pre-removal surveys shall be conducted within 15 days prior to the start of work and shall be submitted to the City for review and approval. If the survey indicates the potential presence of nesting raptors or other birds, the biologist shall determine an appropriately sized buffer around the nest in which no work will be allowed until the young have successfully fledged. The size of the nest buffer will be determined by the biologist in consultation with the California Department of Fish and Wildlife, and will be based to a large extent on the nesting species and its sensitivity to disturbance. In general, buffer sizes of 200 feet for raptors and 50 feet for other birds should suffice to prevent disturbance to

Law, Authority, or Factor	Mitigation Measure
	birds nesting in the urban environment, but these buffers may be increased or decreased, as appropriate, depending on the bird species and the level of disturbance anticipated near the nest. **BR2. Tree Permit.** a. <u>Tree Permit Required</u> Pursuant to the City's Tree Protection Ordinance (OMC chapter 12.36), the project applicant shall obtain a tree permit and abide by the conditions of that permit. b. <u>Tree Protection During Construction</u> Adequate protection shall be provided during the construction period for any trees which are to remain standing, including the following, plus any recommendations of an arborist: i. Before the start of any clearing, excavation, construction, or other work on the site, every protected tree deemed to be potentially endangered by said site work shall be securely fenced off at a distance from the base of the tree to be determined by the project's consulting arborist. Such fences shall remain in place for duration of all such work. All trees to be removed shall be clearly marked. A scheme shall be established for the removal and disposal of logs, brush, earth and other debris which will avoid injury to any protected tree. ii. Where proposed development or other site work is to encroach upon the protected perimeter of any protected tree, special measures shall be incorporated to allow the roots to breathe and obtain water and nutrients. Any excavation, cutting, filling, or compaction of the existing ground surface within the protected perimeter shall be minimized. No change in existing ground level shall occur within a distance to be determined by the project's consulting arborist from the base of any protected tree at any time. No burning or use of equipment with an open flame shall occur near or within the protected perimeter of any protected tree. iii. No storage or dumping of oil, gas, chemicals, or other substances that may be harmful to trees shall occur within the distance to be determined by the project's consulting arborist from the base of any protected trees, or any other location on the site from which such substances might enter the protected perimeter. No heavy construction equipment or construction materials shall be operated or stored within a distance from the base of any protected trees to be determined by the project's consulting arborist. Wires, ropes, or other devices shall not be attached to any protected tree, except as needed for support of the tree. No sign, other than a tag showing the botanical classification, shall be attached to any protected tree. iv. Periodically during construction, the leaves of protected trees shall be thoroughly sprayed with water to prevent buildup of dust and other pollution that would inhibit leaf transpiration. v. If any damage to a protected tree should occur during or as a result of work on the site, the project applicant shall immediately notify the Public Works Department and the project's consulting arborist shall make a recommendation to the City Tree Reviewer as to whether the damaged tree can be preserved. If, in the professional opinion of the Tree Reviewer, such tree cannot be preserved in a healthy state, the Tree Reviewer shall require replacement of any tree removed with another tree or trees on the same site deemed adequate by the Tree Reviewer to compensate for the loss of the tree that is removed. vi. All debris created as a result of any tree removal work shall be removed by the project applicant from the property within two weeks of debris creation, and such debris shall be properly disposed of by the project applicant in accordance with all applicable laws, ordinances, and regulations. c. <u>Tree Replacement Plantings</u>

Law, Authority, or Factor	Mitigation Measure
	Replacement plantings shall be required for tree removals for the purposes of erosion control, groundwater replenishment, visual screening, wildlife habitat, and preventing excessive loss of shade, in accordance with the following criteria: vii. No tree replacement shall be required for the removal of nonnative species, for the removal of trees which is required for the benefit of remaining trees, or where insufficient planting area exists for a mature tree of the species being considered. viii. Replacement tree species shall consist of Sequoia sempervirens (Coast Redwood), Quercus agrifolia (Coast Live Oak), Arbutus menziesii (Madrone), Aesculus californica (California Buckeye), Umbellularia californica (California Bay Laurel), or other tree species acceptable to the Tree Division. ix. Replacement trees shall be at least twenty-four (24) inch box size, unless a smaller size is recommended by the arborist, except that three fifteen (15) gallon size trees may be substituted for each twenty-four (24) inch box size tree where appropriate. x. Minimum planting areas must be available on-site as follows: • For Sequoia sempervirens, three hundred fifteen (315) square feet per tree; • For other species listed, seven hundred (700) square feet per tree. xi. In the event that replacement trees are required but cannot be planted due to site constraints, an in lieu fee in accordance with the City's Master Fee Schedule may be substituted for required replacement plantings, with all such revenues applied toward tree planting in city parks, streets and medians. xii. The project applicant shall install the plantings and maintain the plantings until established. The Tree Reviewer of the Tree Division of the Public Works Department may require a landscape plan showing the replacement plantings and the method of irrigation. Any replacement plantings which fail to become established within one year of planting shall be replanted at the project applicant's expense.

Determination:

☒ **Finding of No Significant Impact** [24 CFR 58.40(g)(1); 40 CFR 1508.27]
The project will not result in a significant impact on the quality of the human environment.

☐ **Finding of Significant Impact** [24 CFR 58.40(g)(2); 40 CFR 1508.27]
The project may significantly affect the quality of the human environment.

Preparer Signature: ____ Date: 11/18/22

Name/Title/Organization: Matthew Wiswell, AICP, Senior Environmental Planner
LSA

Certifying Officer Signature: _____________________________________ Date: 11/18/22

Name/Title: William Gilchrist
Director of Planning and Building and NEPA Certifying Officer

This original, signed document and related supporting material must be retained on file by the Responsible Entity in an Environmental Review Record (ERR) for the activity/project (ref: 24 CFR Part 58.38) and in accordance with recordkeeping requirements for the HUD program(s).

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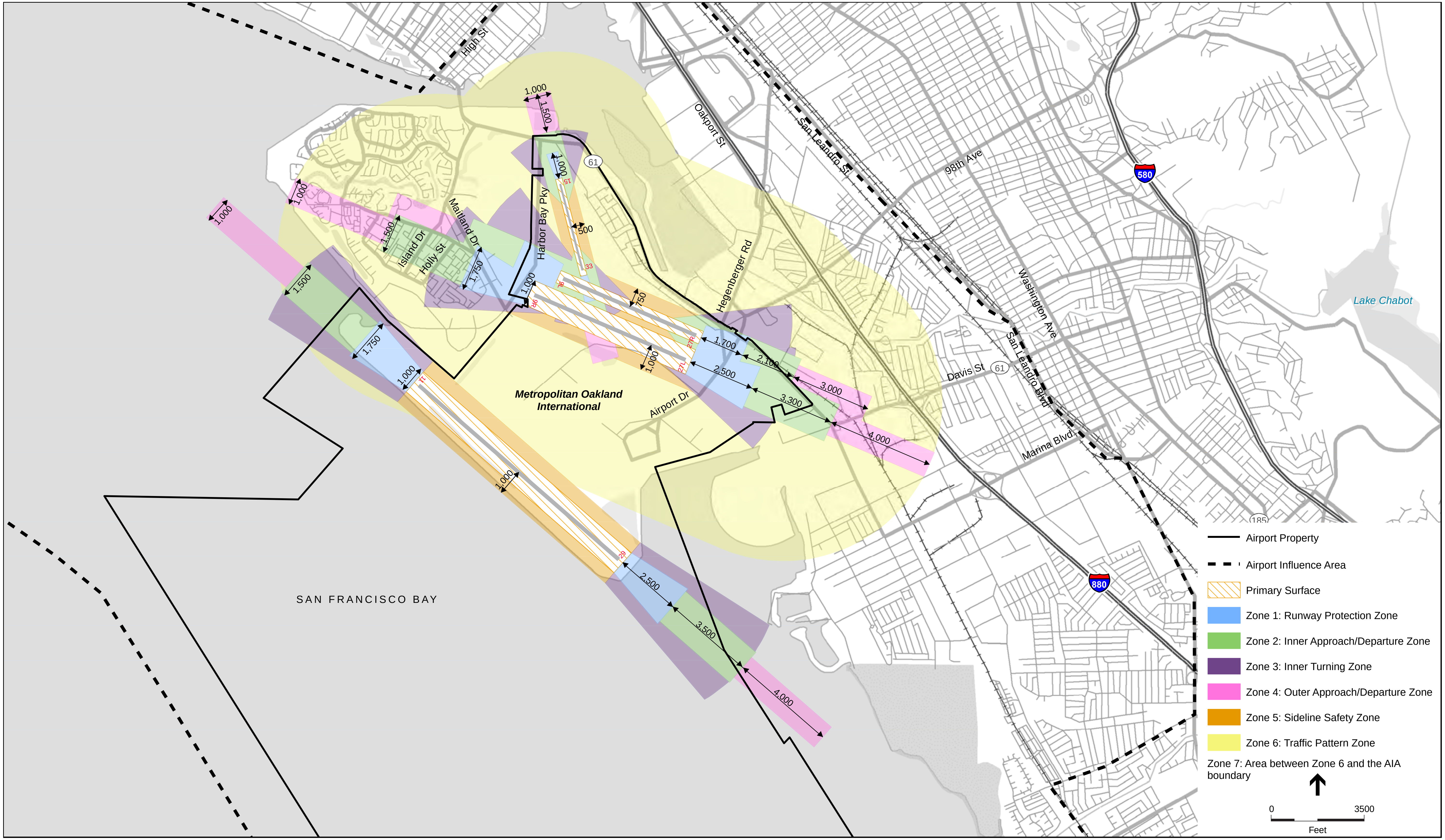
APPENDIX A

AIRPORT CLEAR ZONES

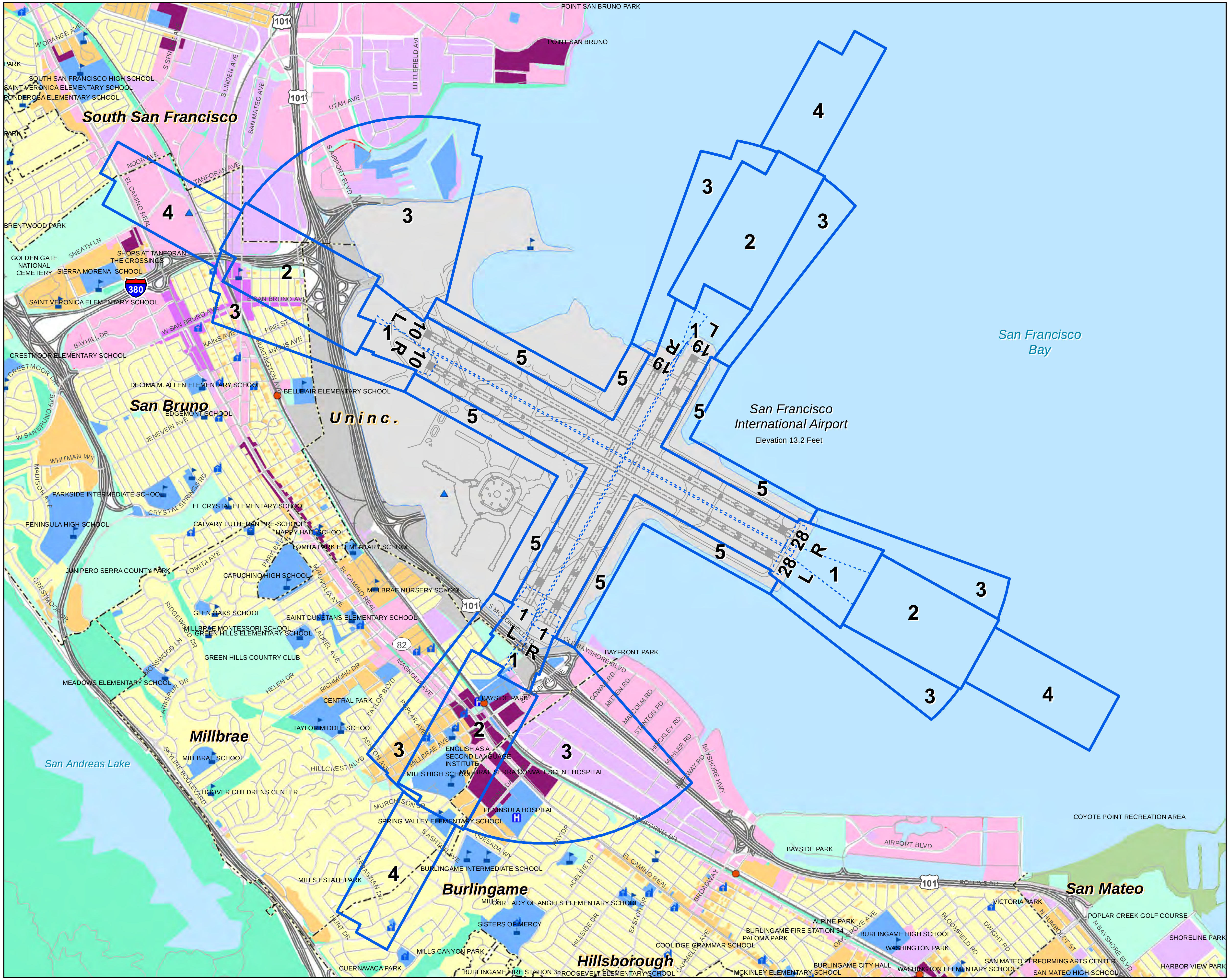


SOURCE: ESA Airports, ESRI, OAK Airport Master Plan, 2006, Caltrans California Airport Land Use Planning Handbook, 2002

Oakland International Airport Land Use Compatibility Plan . 202229

Figure 3-4

Safety Compatibility Zones



LEGEND

Safety Compatibility Zones

▭ 1 - Runway Protection Zone-Object Free Area
2 - Inner Approach/Departure Zone
3 - Inner Turning Zone
4 - Outer Approach/Departure Zone
5 - Sideline Zone

- - - Internal boundaries of ALP-defined areas

▭ Airport Property

▲ BART Station

● CALTRAIN Station

School

Place of Worship

H Hospital

Municipal Boundary

Railroad

Freeway

Road

Planned Land Use Per General Plans:

🟦 Public

🟧 Multi-Family Residential

🟨 Single Family Residential

🟪 Mixed Use

🟪 Transit Oriented Development

▨ Commercial

▨ Industrial, Transportation, and Utilities

▨ Local Park, Golf Course, Cemetery

🟩 Regional Park or Recreation Area

🟩 Open Space

☐ Planned use not mapped

Sources:

Safety Compatibility Zones:
- Jacobs Consultancy Team, 2009; Ricondo & Associates, Inc., 2011

County Base Maps:
- San Mateo County Planning & Building Department, 2007

Local Plans:
- Burlingame Bayfront Specific Area Plan, August 2006
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- North Burlingame/ Rollins Road Specific Plan, February 2007
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- San Bruno General Plan, December 2008
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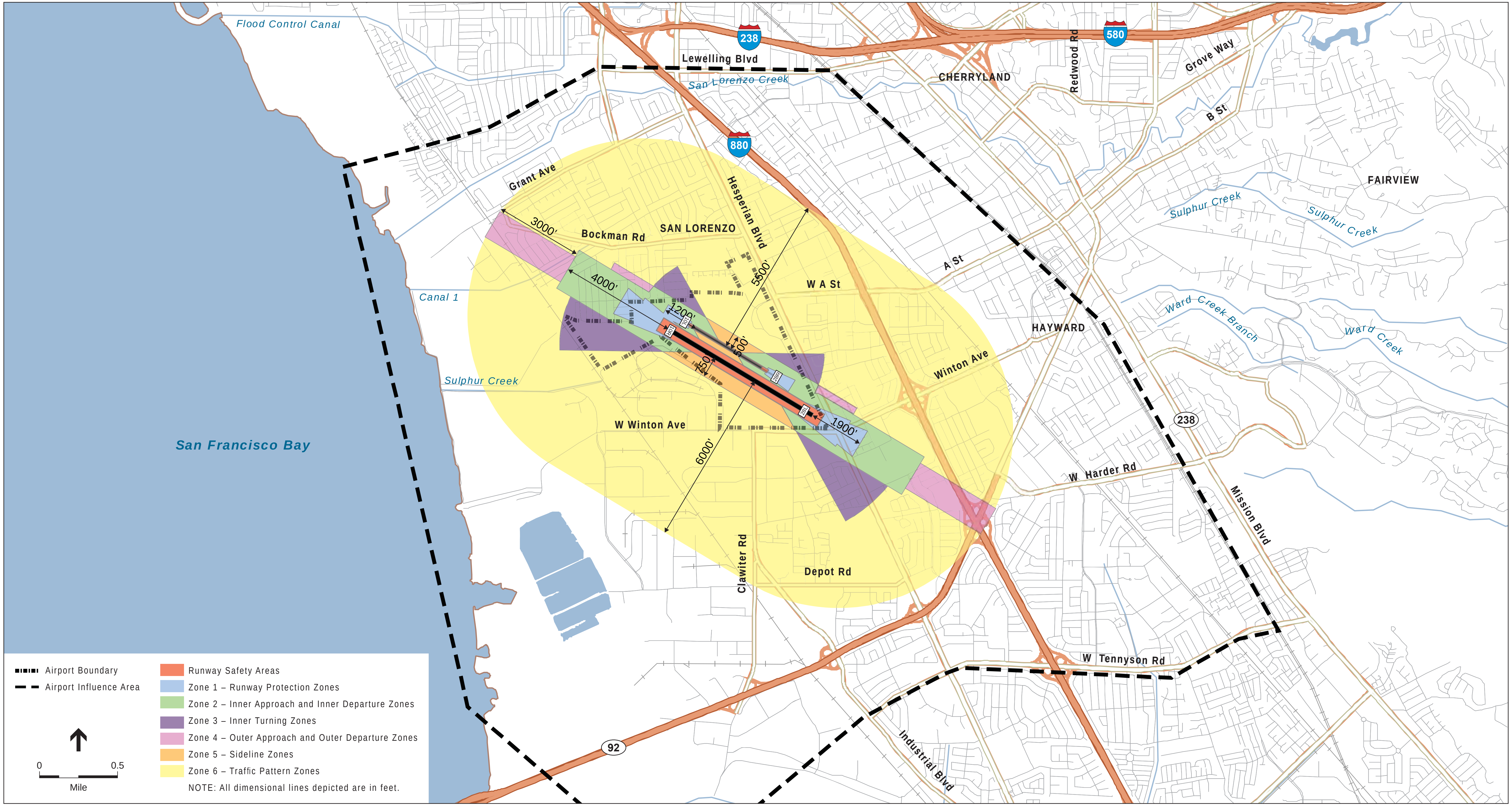
- San Mateo County Zoning Map, 1992
- South San Francisco General Plan, 1998

NORTH

0 0.125 0.25 0.5 Miles

Exhibit IV-7
SAFETY COMPATIBILITY ZONES
Comprehensive Airport Land Use Plan
for the Environs of San Francisco International Airport

C/CAG
City/County Association of Governments
of San Mateo County, California



SOURCE: ESA Airports, 2010; California Airport Land Use Planning Handbook, 2000; ESRI

Hayward Executive Airport Land Use Compatibility Plan . 202229

Figure 3-4
HWD Safety Compatibility Zones

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APPENDIX B

FLOODPLAINS AND WETLANDS

National Flood Hazard Layer FIRMette

USGS The National Map: Orthoimagery. Data refreshed April, 2019.

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS	🟦	Without Base Flood Elevation (BFE) *Zone A, V, A99* With BFE or Depth *Zone AE, AO, AH, VE, AR*
	▨	Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD	🟧	0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
	▨	Future Conditions 1% Annual Chance Flood Hazard *Zone X*
	▨	Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
	▨	Area with Flood Risk due to Levee *Zone D*
OTHER AREAS	NO SCREEN	Area of Minimal Flood Hazard *Zone X*
	▭	Effective LOMRs
	▭	Area of Undetermined Flood Hazard *Zone D*
GENERAL STRUCTURES	— — —	Channel, Culvert, or Storm Sewer
	I I I I I I I	Levee, Dike, or Floodwall
OTHER FEATURES	B 20.2 17.5	Cross Sections with 1% Annual Chance Water Surface Elevation
	8 — —	Coastal Transect
	513	Base Flood Elevation Line (BFE)
	—	Limit of Study
	—	Jurisdiction Boundary
	— - —	Coastal Transect Baseline
	—	Profile Baseline
	—	Hydrographic Feature
MAP PANELS	☐	Digital Data Available
	⬚	No Digital Data Available
	☒	Unmapped
	📍	The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/25/2020 at 6:57:46 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

U.S. Fish and Wildlife Service

National Wetlands Inventory

The Phoenix

March 25, 2020

Wetlands

🟦 Estuarine and Marine Deepwater

🟩 Estuarine and Marine Wetland

🟩 Freshwater Emergent Wetland

🟩 Freshwater Forested/Shrub Wetland

🟦 Freshwater Pond

🟪 Lake

🟫 Other

🟦 Riverine

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APPENDIX C

AIR QUALITY

BASELINE
ENVIRONMENTAL CONSULTING

MEMORANDUM

Date: 28 February 2020

To: Meredith Rupp, Planner, Urban Planning Partners Inc.

From: Ivy Tao, Baseline Environmental Consulting

Subject: **The Phoenix, 801 Pine Street, Oakland, California**
Draft Air Quality Health Risk Memorandum

The project proposes to construct supportive housing and commercial buildings on a 0.9-acre site at 801 Pine Street in the West Oakland neighborhood of the City of Oakland, located within the West Oakland Specific Plan area. The proposed mixed-use project would construct:

1) A four-story building consisting of 101 supportive and affordable residential units;

2) A two-story building of approximately 7,500 square feet consisting of office space and community room and utility spaces that support the residential building.[1]

This air quality health risk memorandum evaluates the potential health risk impacts associated with implementation of the proposed project to support environmental review of the project in accordance with the National Environmental Policy Act and the Department of Housing and Urban Development (HUD) environmental standards. The primary health risk concerns associated with the project are related to toxic air contaminant (TAC) emissions during construction and the exposure of future residential receptors on the project site to emissions of TACs from existing and reasonably foreseeable future sources.

PROJECT ANALYSIS

Health Risk Screening Thresholds

For risk assessment purposes, TACs are separated into carcinogens and non-carcinogens. Carcinogens are assumed to have no safe threshold below which health impacts would not occur, and cancer risk is expressed as excess cancer cases per 1 million exposed individuals over a lifetime of exposure. Non-carcinogenic substances are generally assumed to have a safe threshold below which health impacts would not occur. Acute and chronic exposure to non-carcinogens is expressed as a hazard index (HI), which is the sum of expected exposure levels divided by the corresponding acceptable exposure levels.

The Bay Area Air Quality Management District (BAAQMD) has established health risk screening thresholds to evaluate significant adverse health effects from exposure to TACs.[2] The health risk

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[1] Lowney Arch, 2019. Site Built Permit Set; The Phoenix, Oakland, California. November 15.

[2] Bay Area Air Quality Management District (BAAQMD), 2017. California Environmental Quality Act Air Quality Guidelines, May.

screening thresholds, presented below, are supported by substantial evidence presented in the BAAQMD's Revised Draft Options and Justification Reports.[3]

Table 1: BAAQMD Health Risk Screening Thresholds

Impact Analysis	Pollutant	Screening Thresholds
Project	TACs	Cancer risk increase > 10 in one million Chronic HI > 1.0
Cumulative Sources	TACs	Cancer risk increase > 100 in one million Chronic HI > 10.0
	Exhaust $PM_{2.5}$	0.8 μg/m^3 (annual average)

Note: TACs = Toxic air contaminants; HI = Hazard index; $PM_{2.5}$ = Fine particulate matter; μg/m^3 = micrograms per cubic meter.
Source: BAAQMD, 2017.

Construction Health Risk Impacts

Construction emissions of diesel particulate matter (DPM) and fine particulate matter ($PM_{2.5}$) from off-road diesel construction equipment and on-road heavy-duty diesel trucks can contribute to a range of health problems. In 1998, the California Air Resources Board (CARB) identified DPM from diesel-powered engines as a TAC based on its potential to cause cancer and other adverse health effects.[4] However, project construction would not involve substantial uses of diesel equipment and vehicles because the project would assemble modular housing units that have been built off-site. Therefore, the use of diesel construction equipment would be substantially less than a non-modular construction project and construction would not be expected to result in substantially elevated levels of TACs near the project site. Furthermore, the project applicant is committed to the use of the most effective Verified Diesel Emission Control Strategies (VDECS) on all off-road diesel construction equipment in accordance with the City of Oakland's SCA 22: *Diesel Particulate Matter Controls-Construction Related*. Implementation of SCA 22 would further reduce DPM and $PM_{2.5}$ emissions from construction activity to the maximum extent technologically feasible. Therefore, project construction will not result in substantial health risk impacts to nearby sensitive receptors.

Operational Health Risk Impacts

Operation of the proposed project could expose future residents to TAC emissions from nearby stationary sources, major roadways, freeways, railroads, and a seaport. In accordance with the City of Oakland's SCA 22: *Exposure to Air Pollution (Toxic Air Contaminants)*, the following analysis estimates the cumulative health risk impact on future project residents exposed to TACs from existing sources.

---

[3] Bay Area Air Quality Management District (BAAQMD), 2009. Revised Draft Options and Justification Report; California Environmental Quality Act Thresholds of Significance, October.

[4] California Air Resources Board (CARB), 1998. Initial Statement of Reasons for Rulemaking; Proposed Identification of Diesel Exhaust as a Toxic Air Contaminant, June.

The BAAQMD recommends that projects within the West Oakland Specific Plan area use the West Oakland Community Action Plan (WOCAP) Technical Assessment[5] as a part of the air quality assessment.[6] The WOCAP Technical Assessment spatially mapped the contribution of air pollutants emissions from major emissions sources to pollutant concentrations and estimated cancer risks within the West Oakland community that may potentially impact current and future residents. The supporting data package from the WOCAP Technical Assessment for year 2018 was used in this analysis.[7] A detailed summary of cumulative health risks at the project site from the WOCAP Technical Assessment data package is included in Attachment A.

Health risks and major source contributions estimated at the project site by the WOCAP Technical Assessment are summarized in Table 2, below. There is one stationary source of TAC emissions within 1,000 feet of the project site (California Waste Solutions – 10th Street, Facility 15739).[8] There are also major roadways, freeways, railroads, and other non-stationary sources of TAC emissions within 1,000 feet of the project site. The WOCAP Technical Assessment used community-scale air dispersion modelling for TACs to quantify source contributions within and beyond 1,000 feet of receptors. There are no foreseeable future projects within 1,000 feet of the proposed project that could contain new stationary sources of TAC emissions.

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[5] Bay Area Air Quality Management District (BAAQMD) and West Oakland Environmental Indicators Project, 2019. Owning Our Air, the West Oakland Community Action Plan, Volume 2, Appendices. October.

[6] From: Areana Flores at the Bay Area Air Quality Management District (BAAQMD); to: Ivy Tao at Baseline Environmental Consulting, 2020. Re: Stationary source information request for Phoenix Housing in Oakland. February 7.

[7] Bay Are Air Quality Management District (BAAQMD), 2019. Data Package for AB 617 West Oakland Community Action Plan – Technical Assessment (v1.0). Available from: http://www.baaqmd.gov/ab617woak. Accessed on February 10. 2020.

[8] From: Areana Flores at the Bay Area Air Quality Management District (BAAQMD); to: Ivy Tao at Baseline Environmental Consulting, 2020. Re: Stationary source information request for Phoenix Housing in Oakland. February 7.

Table 2: Summary of Cumulative Health Risks to Future Project Receptors

Sources	**Cancer Risk**		**$PM_{2.5}$**		**Chronic HI from DPM**	
	Per million	**Percent contribution**	**$\mu g/m^3$**	**Percent contribution**	**Unitless**	**Percent contribution**
Highways	130	30	1.4	43	0.031	27
Streets	23	5	1.1	34	0.005	4
Port	167	37	0.3	9	0.045	38
Railroads	114	26	0.1	4	0.153	26
Permitted Stationary Sources						
- California Waste Solutions	<1	<1	0.1	4	<0.001	<1
- Other Stationary Sources	6	1	0.3	7	<0.001	<1
Other Non-Stationary Sources	7	1	<0.1	<1	0.002	1
Total Health Risk	**447**		**3.3**		0.24	
Total Health Risk with MERV-13	67.0		0.5		0.04	
Total Health Risk with MERV-16	4.5		<0.1		<0.01	
BAAQMD's Health Risk Screening Thresholds	100		0.8		10	

Note: PM = Particulate matter; HI = Hazard index; $\mu g/m^3$ = micrograms per cubic meter; DPM = Diesel particulate matter; MERV = minimum efficiency reporting value.
Bold and shaded indicates exceedance of the applicable BAAQMD's screening level.

Source: BAAQMD, 2019.
Appendix A.

As shown in Table 2, chronic HI at the proposed project site would be below the BAAQMD's health risk screening threshold; however, cancer risk and $PM_{2.5}$ concentrations at the proposed project site would be above the BAAQMD's health risk screening thresholds. Therefore, the project is required to identify health risk reduction measures to reduce the health risk to acceptable levels under SCA 22: *Exposure to Air Pollution (Toxic Air Contaminants)*. To reduce the potential excess cancer risk and $PM_{2.5}$ concentrations at the proposed project site, the project could install air filtration devices with minimum efficiency reporting value (MERV) equal to or higher than 13 (MERV-13). MERV rating system provides a scale showing the effectiveness of air filtration devices at removing particles at different sizes. CARB has identified high-efficiency filtration as the most effective method for residences to reduce incoming DPM from outdoor air.[9] An air filtration device rated MERV-13 or MERV-16 can reduce levels of indoor DPM and $PM_{2.5}$ by at least 85 and 99 percent, respectively, relative to the incoming outdoor air.[10] Therefore, as shown in Table 2, implementation of MERV-13 or MERV-16 devices would reduce the cumulative excess cancer risk and $PM_{2.5}$ concentrations at the project site to acceptable levels.

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[9] California Air Resources Board, 2012. Status of Research on Potential Mitigation Concepts to Reduce Exposure to Nearby Traffic Pollution. 23 August.

[10] South Coast Air Quality Management District, 2009. Pilot Study of High Performance Air Filtration for Classrooms Applications. October.

CONCLUSION

With the implementation of the applicable SCAs, described above, the proposed project would not result in substantial increases in health risks during construction or operation.

Attachment A

Air Quality Health Risk Memorandum

Supporting Information

West Oakland Community Action Plan Technical Assessment Data

ID: 891

Excess Cancer Risk (30-yr, per million)		
Highway		
Passenger vehicles	20.6	5%
Heavy/Medium HD trucks	105.2	24%
Light HD trucks	4.2	1%
Road dust	0.0	0%
Street		
Passenger vehicles	4.0	1%
Heavy/Medium HD trucks	17.1	4%
Light HD trucks	1.5	0%
Road dust	0.0	0%
Port		
OGV (maneuvering)	18.9	4%
OGV (berthing)	21.1	5%
Harbor craft	53.7	12%
Dredging	16.1	4%
Bunkering (tugs + pumps)	3.6	1%
Drayage trucks	10.8	2%
Road dust	0.0	0%
Cargo handling	10.1	2%
Railyard (OGRE)	27.4	6%
Railyard (BNSF)	5.6	1%
Rail		
Rail lines	52.8	12%
Railyard (UP)	61.4	14%
Permitted		
Schnitzer (stationary)	4.3	1%
EBMUD	0.6	0%
Dynegy	0.0	0%
Pinnacle Ag	0.0	0%
Sierra Pacific	0.0	0%
CASS	0.0	0%
California Cereal	0.0	0%
CA Waste (10th St)	0.0	0%
Other facilities	1.1	0%
Other		
Ferries	4.1	1%
Schnitzer (ships)	1.8	0%
Schnitzer (trucks)	0.1	0%
Truck-related businesses	0.7	0%
	446.8	**100%**

Modeled impacts from local sources.

2019-10-02 (BASE_YEAR_2017).
Due to rounding, values may not sum to total,
and "0%" may be greater than zero.

Excess Cancer Risk (30-yr, per million)

[*] Drayage trucks at any location (Port, street, or highway).

ID: 891

Local Diesel PM ($\mu g/m^3$)		
Highway		
Passenger vehicles	0.012	2%
Heavy/Medium HD trucks	0.140	24%
Light HD trucks	0.005	1%
Road dust	0.000	0%
Street		
Passenger vehicles	0.002	0%
Heavy/Medium HD trucks	0.023	4%
Light HD trucks	0.002	0%
Road dust	0.000	0%
Port		
OGV (maneuvering)	0.025	4%
OGV (berthing)	0.028	5%
Harbor craft	0.072	13%
Dredging	0.022	4%
Bunkering (tugs + pumps)	0.005	1%
Drayage trucks	0.014	2%
Road dust	0.000	0%
Cargo handling	0.014	2%
Railyard (OGRE)	0.037	6%
Railyard (BNSF)	0.008	1%
Rail		
Rail lines	0.071	12%
Railyard (UP)	0.082	14%
Permitted		
Schnitzer (stationary)	0.000	0%
EBMUD	0.001	0%
Dynegy	0.000	0%
Pinnacle Ag	0.000	0%
Sierra Pacific	0.000	0%
CASS	0.000	0%
California Cereal	0.000	0%
CA Waste (10th St)	0.000	0%
Other facilities	0.001	0%
Other		
Ferries	0.006	1%
Schnitzer (ships)	0.002	0%
Schnitzer (trucks)	0.000	0%
Truck-related businesses	0.001	0%
	0.573	**100%**

Modeled impacts from local sources.

2019-10-02 (BASE_YEAR_2017).
Due to rounding, values may not sum to total,
and "0%" may be greater than zero.

Local Diesel PM (μg/m³)

[*] Drayage trucks at any location (Port, street, or highway).

ID: 891

Local $PM_{2.5}$ ($\mu g/m^3$)

Highway		
Passenger vehicles	0.803	25%
Heavy/Medium HD trucks	0.187	6%
Light HD trucks	0.026	1%
Road dust	0.350	11%
Street		
Passenger vehicles	0.128	4%
Heavy/Medium HD trucks	0.030	1%
Light HD trucks	0.008	0%
Road dust	0.934	29%
Port		
OGV (maneuvering)	0.026	1%
OGV (berthing)	0.052	2%
Harbor craft	0.070	2%
Dredging	0.021	1%
Bunkering (tugs + pumps)	0.005	0%
Drayage trucks	0.025	1%
Road dust	0.029	1%
Cargo handling	0.014	0%
Railyard (OGRE)	0.034	1%
Railyard (BNSF)	0.007	0%
Rail		
Rail lines	0.067	2%
Railyard (UP)	0.076	2%
Permitted		
Schnitzer (stationary)	0.044	1%
EBMUD	0.022	1%
Dynegy	0.001	0%
Pinnacle Ag	0.153	5%
Sierra Pacific	0.011	0%
CASS	0.001	0%
California Cereal	0.012	0%
CA Waste (10th St)	0.116	4%
Other facilities	0.016	0%
Other		
Ferries	0.005	0%
Schnitzer (ships)	0.002	0%
Schnitzer (trucks)	0.001	0%
Truck-related businesses	0.001	0%
	3.277	**100%**

Modeled impacts from local sources.

2019-10-02 (BASE_YEAR_2017).
Due to rounding, values may not sum to total,
and "0%" may be greater than zero.

Local $PM_{2.5}$ ($\mu g/m^3$)

[*] Drayage trucks at any location (Port, street, or highway).

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APPENDIX D

CONTAMINATION AND TOXIC SUBSTANCES

RECEIVED
AUG 28 1992

1689-019-00

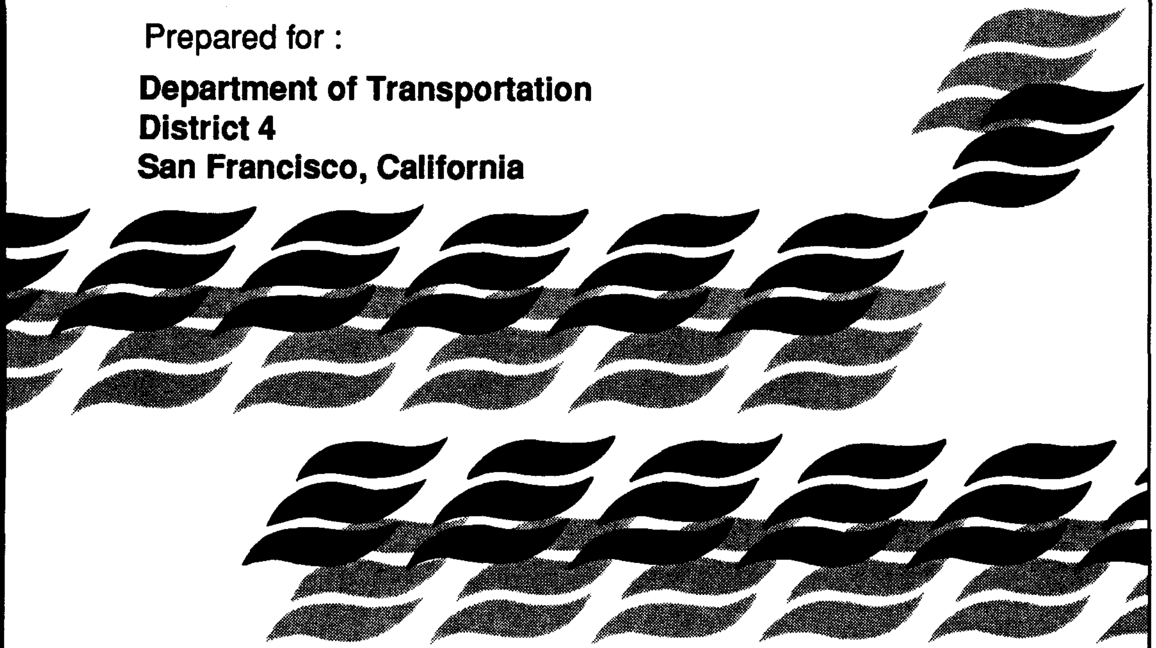
SITE INVESTIGATION REPORT - AREA 4

Department of Transportation
T.O. Number : 04-192201-01
Highway 880, Cypress Reconstruction
Oakland, California

August 1992

Prepared for :

Department of Transportation
District 4
San Francisco, California



Geo/Resource Consultants, Inc.
GEOLOGISTS / ENGINEERS / ENVIRONMENTAL SCIENTISTS
505 BEACH STREET, SAN FRANCISCO, CALIFORNIA 94133

Geo/Resource Consultants, Inc.

505 Beach Street
[illegible] California 94133
(415) 775-2359

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
9-140
SEP 14 1992
STATE OF
CALIFORNIA,
EPA
RECEIVED

August 28, 1992
1689-019-00

Mr. Jim Ross
DEPARTMENT OF TRANSPORTATION
Box 7310
San Francisco, California 94120

RE: SITE INVESTIGATION REPORT
DEPARTMENT OF TRANSPORTATION
HIGHWAY 880, CYPRESS RECONSTRUCTION - AREA 4
OAKLAND, CALIFORNIA

Dear Mr. Ross,

Geo/Resource Consultants, Inc. (GRC) is pleased to submit the Site Investigation Report for the Department of Transportation, Highway 880, Cypress Reconstruction - Area 4.

If you should have any questions with regard to the enclosed Report or related information to the project, please do not hesitate to call us at (415) 775-3177.

Sincerely,
GEO/RESOURCE CONSULTANTS, INC.

Eva Vanek

Eva Vanek
Senior Hydrogeologist

Alan D. Tryhorn

Alan D. Tryhorn, C.E.G. #1019
Senior Vice President

cc: GRC Project File
GRC Chron

3EPD2:1689L

SITE INVESTIGATION REPORT
DEPARTMENT OF TRANSPORTATION
AREA 4
HIGHWAY 880, CYPRESS RECONSTRUCTION
OAKLAND, CALIFORNIA

PREPARED FOR:

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
CONTRACT NUMBER: 53P614
TASK ORDER NUMBER: 04-192201-01

PREPARED BY:

GEO/RESOURCE CONSULTANTS, INC.
505 BEACH STREET
SAN FRANCISCO, CALIFORNIA

AUGUST 1992
JOB NUMBER: 1689-019-00

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1.0 INTRODUCTION

Geo/Resource Consultants, Inc. (GRC) was contracted under Contract Number 53P614 and Task Order Number 04-192201-01 by the State of California Department of Transportation (Caltrans) to complete a subsurface investigation for three parcels owned by the Phoenix Project; (See Figure 1). The purpose of this investigation was to determine if contamination is present, to estimate the potential areal and vertical extent of contamination, and to provide cost estimates for remedial actions, if deemed necessary.

The investigations described in this report are consistent with investigations proposed in the Workplan prepared by GRC and approved by Caltrans (dated June 17, 1992).

1.1 TASK ORDER MEETINGS

The Phoenix Properties were visited by GRC and Caltrans personnel on May 21 and May 28, 1992. These facilities were also visited by GRC and Bruce Waenas of West Hazmat (the drilling subcontractor) on June 19 to verify site access conditions.

1.2 SITE BACKGROUND

The three Phoenix Properties are located within proximity to each other on Cedar Street in Oakland. A brief discussion regarding facility operations and prior investigative activities (if known) was provided in the Caltrans Task Order (May 4, 1992) and is summarized below. These descriptions provided the basis for the subsurface investigations conducted at each site.

Three of the four parcels owned by the Phoenix Properties were part of the historical Independent Iron Works operation from the 1950's. Soil sampling and laboratory analyses were performed by others for the properties listed below in September, 1990. The results of these analyses are summarized below.

Phoenix Properties
800 Cedar Street
Oakland, California 94607

One gasoline and one diesel underground storage tank (UST) are maintained on this parcel. One sample taken at 2.0 to 2.5 feet below the ground surface, contained lead at 52 milligram/kilogram (mg/kg). A Waste Extraction Test (WET) test of the sample showed a Soluble Threshold Limit Concentration (STLC) of 2.26 mg/L.

Phoenix Properties
766 Cedar Street
Oakland, California 94607

Soils on this parcel were previously sampled within the vadose zone and tested for hydrocarbons (gasoline, diesel and benzene, toluene, xylenes and ethyl benzene). Laboratory results apparently did not indicate detectable levels of the compounds analyzed for.

Phoenix Properties
524 Cedar Street
Oakland, California 94607

Soil samples were collected at 1.5 to 2.2 feet and 2.5 to 3.0 feet below the ground surface. Test results indicated lead concentrations of 180 mg/kg and 750 mg/kg, respectively. WET tests performed on the soil samples reported STLC levels of 1.47 mg/L and 2.89 mg/L, for the above respective sample depth intervals. Additional soil samples collected within the vadose zone were tested for hydrocarbons. These laboratory results were not available for inclusion in this report.

2.0 FIELD METHODOLOGY

Soil boring drilling, monitoring well construction and sampling was conducted in general accordance with the California Site Mitigation Decision Tree (December, 1986), the Environmental Protection Agency (EPA) Ground-Water Monitoring Technical Enforcement Guidance Document (TEGD, September, 1986), and Geo/Resource Consultants Field Procedure Manual (September, 1989). Descriptions of standard methodologies are included in Appendix A. Specific field activities and methodologies are described below.

2.1. PHOENIX PROPERTIES-800 CEDAR

On June 23, 1992, one soil boring (PP800/B-1) was drilled using a rig equipped with 8-inch-diameter, hollow-stem augers. On June 24, 1992, two more borings (PP800/H-1 and PP800/W-1) were drilled. The borings were drilled in the area of the USTs. The location of the borings are shown in Figure 2. Borings PP800/B-1, PP800/H-1, and PP800/W-1 were drilled to 8 feet, 13 feet and 27 feet below ground surface (bgs), respectively. Soil samples were collected in PP880/B-1 at 0.5 feet, 3.0 feet, and 6.5 feet bgs; in PP880/H-1 at 0.5 feet, 1.5 feet, 4.0 feet, and 6.5 feet bgs; and in well boring PP880/W-1 at approximately 1 foot, 5 feet, and 8 feet bgs (See Appendix B).

One ground-water sample was collected by the "Hydropunch" sampling technique from a depth of approximately 13 feet bgs in PP800/H-1.

Upon completion of soil sampling, the borings PP800/B-1 and PP800/H-1 were backfilled with cement grout, and the cuttings were disposed of in 55-gallon United States Department of Transportation (U.S. DOT) approved drums.

A 2-inch-diameter monitoring well was constructed at boring PP800/W-1. The well was screened between 5 feet and 25 feet bgs and was constructed of 0.020-inch slotted schedule 40 Poly Vinyl Chloride (PVC) pipe. The annular space was filled with No. 3 RMC Lonestar sand to a depth of 4 feet bgs and bentonite pellets were placed to a depth of approximately 3 feet bgs. The remainder of the annular space was filled with cement grout and an underground locking monument well box was cemented into place.

The monitoring well was developed on June 26, 1992 using the surge and bail technique. Approximately 37 gallons of water were purged from the well during development. Well development logs are included in Appendix C.

The monitoring well was sampled on July 1, 1992. Prior to sampling, the water level was measured and the well was subsequently purged of 16 gallons of water. The ground-water parameters, pH, electrical conductivity, and temperature, were measured during purging. Water sampling logs are included in Appendix C.

Soil cuttings, development water and purge water were disposed of in 55-gallon U.S. DOT approved drums.

2.2 PHOENIX PROPERTIES-766 CEDAR

On June 22, 1991, six soil borings (PP766/B-1, PP766/B-2, PP766/B-3, PP766/B-4, PP766/B-5, and PP766/B-6) were drilled using a drill rig equipped with 8-inch-diameter, hollow-stem augers. The borings were located within a random grid pattern across the site. The locations of the borings are shown in Figure 2. Borings PP766/B-1, PP766/B-2, PP766/B-3, PP766/B-4, PP766/B-5, and PP766/B-6 were all terminated at 3.0 feet bgs. A continuous soil sample was collected from all six borings from the ground surface to the bottom of the hole at 3 feet bgs.

Upon completion of the soil sampling, the borings were backfilled with cement grout and the cuttings were disposed of in 55-gallon U.S. DOT approved drums.

2.3 PHOENIX PROPERTIES-524 CEDAR

On June 22, 1992 five soil borings (PP524/B-1, PP524/B-2, PP524/B-3, PP524/B-4, and PP524/B-5) were drilled using a drill rig equipped with 8-inch-diameter, hollow-stem augers. The locations of the borings are shown in Figure 2. Borings PP524/B-1, PP524/B-2, PP524/B-3, PP524/B-4, and PP524/B-5 were all terminated at 6.5 feet bgs. Soil samples were collected at 0.5, and 5 feet bgs in all the borings.

Upon completion of the soil sampling the borings were backfilled with cement grout and the cuttings were disposed of in 55-gallon U.S. DOT approved drums.

3.0 FINDINGS

This section describes subsurface conditions encountered during the field investigation and includes analytical findings.

3.1 SUBSURFACE CONDITIONS

Subsurface conditions at each site were evaluated from lithologic logs, water level measurements and photoionization (PID) readings from the on-site HnU meter. These data are included in Appendices B and C.

3.1.1 Phoenix Properties 800 Cedar

The area investigated at 800 Cedar is underlain by silty sands and sands (See Appendix B). The silty sand was observed to be light brown to dark gray/black in color, and medium to very dense, based on blow counts during sampling. The silty sand was present from the ground surface to a depth of approximately 3.5 feet bgs (in PP800/B-1) to 15 feet bgs (in PP800/W-1). The silty sand was underlain by medium to very dense, gray and brown sand to a depth of at least 27 feet bgs. Soil moisture content generally ranged from moist in the upper 6 feet and very moist to wet with increasing depth. Strong odors (suspected hydrocarbons) were noted in the silty sands of borings PP800/B-1 and PP800/H-1 at respective depths of 3.5 and 6.5 feet bgs. Based on debris noted in soils from the borings, the site area is interpreted to be underlain by fill to approximately 3.5 to 6.5 feet bgs.

Ground water was measured at approximately 7 feet bgs on July 1, 1992 in well PP800/W-1.

HnU readings were obtained from each of the soil samples collected. Hydrocarbons were present above detection limits in boring PP800/B-1 at a maximum of 50 parts per million (ppm) at a depth of 1 foot bgs and in boring PP800/H-1 at 2 ppm at 7 feet bgs. In general, higher HnU readings occur near the ground surface and decrease with depth.

3.1.2 Phoenix Properties 766 Cedar

The area investigated at 766 Cedar is underlain by silty sand (See Appendix B). The silty sand was observed to be dark brown in color to a depth of 3 feet bgs, the bottom of the exploration borings. Relative soil density ranged from loose to dense and moisture content was dry to damp. Rock fragments were encountered in several of the borings suggesting that the soil within the area of investigation is fill in origin to depths explored. HnU readings were very low (0 to 3 ppm) in all of the borings.

3.1.3 Phoenix Properties 524 Cedar

The area investigated at the 524 Cedar site is underlain by light to predominantly dark brown, medium to fine-grained silty sand to the maximum depth of exploration of 6.5 feet bgs in all the borings. (See Appendix B). Soils encountered in the borings were observed to be moist, ranging from medium dense to dense. The soils encountered to the depths explored were interpreted to be fill in origin as construction debris was commonly observed. HnU readings showed no detection of hydrocarbons in any of the soil samples tested.

3.2 ANALYTICAL FINDINGS

Soil and ground-water samples were submitted to CKY, Inc. (CKY) for chemical analyses based on site background and suspected contaminants. The analytical results are summarized on Tables 1, 2 and 3. and are included in Appendix D. The findings are briefly described below.

3.2.1 Phoenix Properties 800 Cedar

Three soil samples were collected from the unsaturated zone at each boring location (for a total of nine samples) and one "Hydropunch" sample and one ground-water sample were collected from PP800/H-1 and PP800/W-1. All of the samples were chemically analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and diesel (TPH-D) by EPA Method 8015.

Soil

TPH-G was detected in boring PP800/H-1 at relatively low concentrations of 10 to 17 milligrams per kilogram (mg/kg), at 1.5 and 4 feet bgs, respectively. TPH-D was detected at high concentration levels in soil samples from borings PP800/B-1 and PP800/H-1. In boring PP800/B-1, TPH-D was detected at a concentration of 1,600 mg/kg in a soil sample at a depth of 1.5 feet bgs. In boring PP800/H-1, TPH-D was detected in soil samples at concentration levels of 1,600 and 2,400 ppm at depths of 1.5 and 4 feet bgs, respectively. These data suggest that leakage may have occurred primarily from associated pipelines.

Ground Water

Neither the "Hydropunch" ground-water sample collected from PP800/B-1 or the ground-water sample collected from PP800/W-1 contained detectable concentrations of either TPH-G or TPH-D.

3.2.2 Phoenix Properties 766 Cedar

Soil borings PP766/B-1 through PP766/B-6 were all drilled to depth of 3.0 feet bgs. Two soil samples were collected from the unsaturated zone at each boring location (for a total of 12 samples). These samples were analyzed for heavy metals by EPA Method 6010.

Soil

Most of the heavy metals analyzed for were detected in the soil samples tested with the exception of the metals selenium and silver. Metal concentrations were highest near the ground surface and decreased with depth. The highest lead concentrations were detected at 3,600 mg/kg in boring PP766/B-1 at a sample depth of 1 foot bgs. In addition, lead exceeded ten times the STLC requirements for soil samples collected from PP766/B-3 (at 1 foot), PP766/B-4 (at 1 foot), and PP766/B-5 (at 1 foot and 3 feet). These samples were re-submitted for STLC testing by the WET method. The test results indicated lead exceeded STLC limits at all the above listed sample locations and that soluble lead concentrations ranged from 8 mg/l to 31 mg/l.

Ground Water

Ground water was not encountered at this location and, therefore, ground-water samples were not collected.

3.2.3 Phoenix Properties 524 Cedar

Soil borings PP524/B-1 through PP524/B-5 were all drilled to depth of 6.5 feet bgs. Two soil samples were collected from the unsaturated zone from each of the wells (for a total of ten samples). The samples were chemically analyzed for total recoverable petroleum hydrocarbons (TRPH) by EPA Method 418.1 and for heavy metals by EPA Method 6010.

Soils

TRPH was detected in all the soil samples analyzed. Elevated TRPH levels above 100 mg/kg were detected in borings PP524/B-4 and PP524/B-5. In boring PP524/B-4, TRPH was detected at a concentration levels of 210 mg/kg (at 1.5 feet) and at 1,200 mg/kg (at 6 feet). In boring PP524/B-5 (at 1.5 feet) TRPH was detected at a concentration of 250 mg/kg. Most of the heavy metals analyzed for were detected in the soil samples tested with the exception of the metals selenium and silver. Lead was detected in soil samples up to 1,100 mg/kg, 3,500 mg/kg, and 23,000 mg/kg, respectively, in borings PP524/B-4 (at 1.5 feet), PP524/B-4 (at 6 feet), and PP524/B-5 (at 1.5 feet). Copper was identified at ten times STLC in PP524/B-4 (at 6 feet). This sample was re-submitted for testing by the WET method. The test result showed the level for copper well below the STLC limit.

Ground Water

Ground water was not encountered at this location, therefore, ground-water samples were not collected.

4.0 REGULATORY FRAMEWORK

The regulatory framework as it pertains to this site investigation is described in Appendix E. Regulatory agencies that set forth guidelines and statutes that may impact these sites include the California Environmental Protection Agency (CalEPA), the California Regional Water Quality Control Board (RWQCB), the Alameda County Water District (ACWD), and the Alameda County Department of Environmental Health (ACDEH). This section the potential applicability of various waste characterization regulations and criteria of each of the sites in Area 4.

4.1 PHOENIX PROPERTIES 800 CEDAR

Soil

Concentrations of TPH-D were found in several samples collected from the 800 Cedar site that may be considered hazardous waste by the RWQCB (greater than 1,000 mg/kg). Hazardous waste levels of TPH-D were found in soil boring PP800/B-1 to a depth of 1.5 feet bgs and in soil boring PP800/H-1 to a depth of 4 feet bgs. The remaining samples did not contain hydrocarbons above laboratory detection limits.

Ground Water

No detectable levels of either TPH-G or TPH-D were found in the groundwater samples tested.

4.2 PHOENIX PROPERTIES 766 CEDAR

Soil

At the 766 Cedar site, concentrations of lead exceeding hazardous waste criteria Total Threshold Limit Concentration (TTLC) were detected in one soil boring (PP766/B-1). Lead concentrations exceeding ten times STLC were detected in borings PP766/B-3, PP766/B-4, PP766/B-5, and PP766/B-6. Depth of contamination was found to of 3 feet bgs, the maximum depth of exploration.

4.3 PHOENIX PROPERTIES 524 CEDAR

Soil

An elevated concentration level of TRPH was found in one soil sample collected from the 524 Cedar site, that may be considered hazardous waste by the RWQCB (greater than 1,000 mg/kg). TRPH was found in soil boring PP524/B-4 at 1,200 mg/kg at a depth of 6 feet bgs. In addition, concentrations of TRPH were found in soil samples that may be considered designated waste (between 100 and 1,000 mg/kg). The designated waste levels were found in soil samples in borings PP524/B-4 and PP524/B-5 at depths of 1.5 feet bgs.

Lead was detected above TTLC at PP524/B-4 and PP524/B-5. One sample collected from PP524/B-4 had been re-submitted for the WET for copper and was shown to be well below minimum STLC limit.

5.0 REMEDIAL ACTIONS

Very limited data points were obtained at the sites investigated for this Task Order. Therefore, potential contaminant plume boundaries cannot be determined. However, for the purposes of providing very generalized estimates remedial volumes of potentially contaminated soil have been derived from the limited data available regarding soil conditions, and types and concentrations of contaminants. These very preliminary estimates should not be construed as final, and at all of the sites where contamination was detected, further investigation is recommended to define its lateral and vertical extent. Only from subsequent investigations can accurate contaminated soil volume estimates for remedial actions be provided.

5.1 PHOENIX PROPERTIES-800 CEDAR

Soils at 800 Cedar were found to be contaminated with elevated levels of TPH-D.

Soil

TPH was detected in soil samples at concentrations above hazardous waste levels from borings PP800/B-1 and PP800/H-1 located just north of the former underground diesel fuel storage tank. In borings PP800/B-1 and PP800/H-1 elevated levels of TPH-D were detected soil at a depths of 1.5 to a maximum of 4 feet bgs and TPH-D was not present above laboratory detection limits in samples collected from 7.5 feet bgs.

Based on these data, it appears that soil contamination could be related to potential pipeline leakage or spillage during tank filling activities. Information regarding the orientation of the fill pipe and associated piping was unavailable for this report. These data suggest that soil contamination may be relatively localized. To determine the extent of contamination, additional borings would be required. However, for purposes of preparing a cost estimate, it is assumed that potential soil contamination within the vadose zone could encompass a 20-foot area near the north end of the diesel tank to a depth of 7 feet bgs. Based on this assumption, an estimated 104 cubic yards (135 tons) may require disposal at either a Class II landfill or recycling facility.

Ground Water

No contaminants were detected in ground water at the 800 Cedar site and thus no remediation measures are warranted at this time.

5.2 PHOENIX PROPERTIES-766 CEDAR

At the 766 Cedar site hazardous waste level concentrations (TTLC and/or STLC) of lead were detected in soil samples collected from 1 foot at borings PP766/B-1, PP766/B-3, PP766/B-4 and PP766/B-5. Samples collected from the two remaining borings, PP766/B-2 and PP766/B-6 contained relatively low metal concentrations.

Soil

Since the majority of shallow soil samples tested contained hazardous waste levels of lead, it is assumed that the majority of shallow soils across the site is hazardous. Based on currently available data, potential soil contamination within the subsurface soil is suspected to extend across the site to a depth of 3 feet. Thus, an estimated 2,200 cubic yards (2,900 tons) could require disposal at either a Class I landfill or recycling facility.

5.3 PHOENIX PROPERTIES-524 CEDAR

Hazardous waste levels of TRPH was found in a soil one sample collected at the 524 Cedar site. Hazardous waste levels of lead (TTLC and STLC) were detected in samples collected from PP524/B-4 at 1.5 feet and from PP524/B-5 at 1.5 feet.

Soil

Elevated levels of TRPH and lead were detected in borings PP524/B-4 and PP524/B-5. Due to limited number of sampling points and the lack of information regarding previous site activities, estimates of soil contamination cannot be made. It is recommended that previous site activities be identified as best as possible and that additional drilling be conducted to determine the extent of contamination. Unit costs per ton for disposal at Class I and Class II facilities are presented in discussions for the 800 and 766 Cedar properties.

6.0 CONCLUSIONS

Three soil borings, including one "hydropunch" and one monitoring well, were drilled at 800 Cedar to investigate potential leakage from two existing USTs. Leakage from pipelines associated with the diesel tank appears to have occurred. Hazardous waste levels of TPH-D were detected in two soil samples and a volume of contaminated soil requiring remediation was estimated. Groundwater samples did not contain either TPH-D or TPH-G over laboratory detection limits.

Six soil borings were drilled at the 766 Cedar site to investigate shallow soil contamination from metals. One sample contained lead over TTLC and several samples contained lead in excess of 10 times the STLC. When these samples were resubmitted for testing by the WET method results indicated all the soil samples contained lead levels the exceeded regulatory STLC requirements to be classified as hazardous waste. Based on consistent high lead concentrations across the site, it was assumed that the upper 3 feet of soil may require disposal as a hazardous waste.

Five soil borings were drilled at the 524 Cedar site to investigate potential contamination from hydrocarbons or metals. One soil sample was found to contain hazardous levels of TRPH and several soil samples contained lead in excess of TTLC. Based on these limited data, volumes of soil requiring remediation have been estimated.

7.0 REFERENCES

Alameda County Water District, February 1990 Revision, "Groundwater Monitoring Guidelines".

California Department of Health Services (CalEPA), "Persistent and Bioaccumulative Toxic Substance", California Code of Regulations, Title 22, Division 4, Section 66699.

California Department of Health Services (CalEPA), July 2, 1990, "Memorandum from the Toxic Substances Control Program regarding Total Petroleum Hydrocarbons".

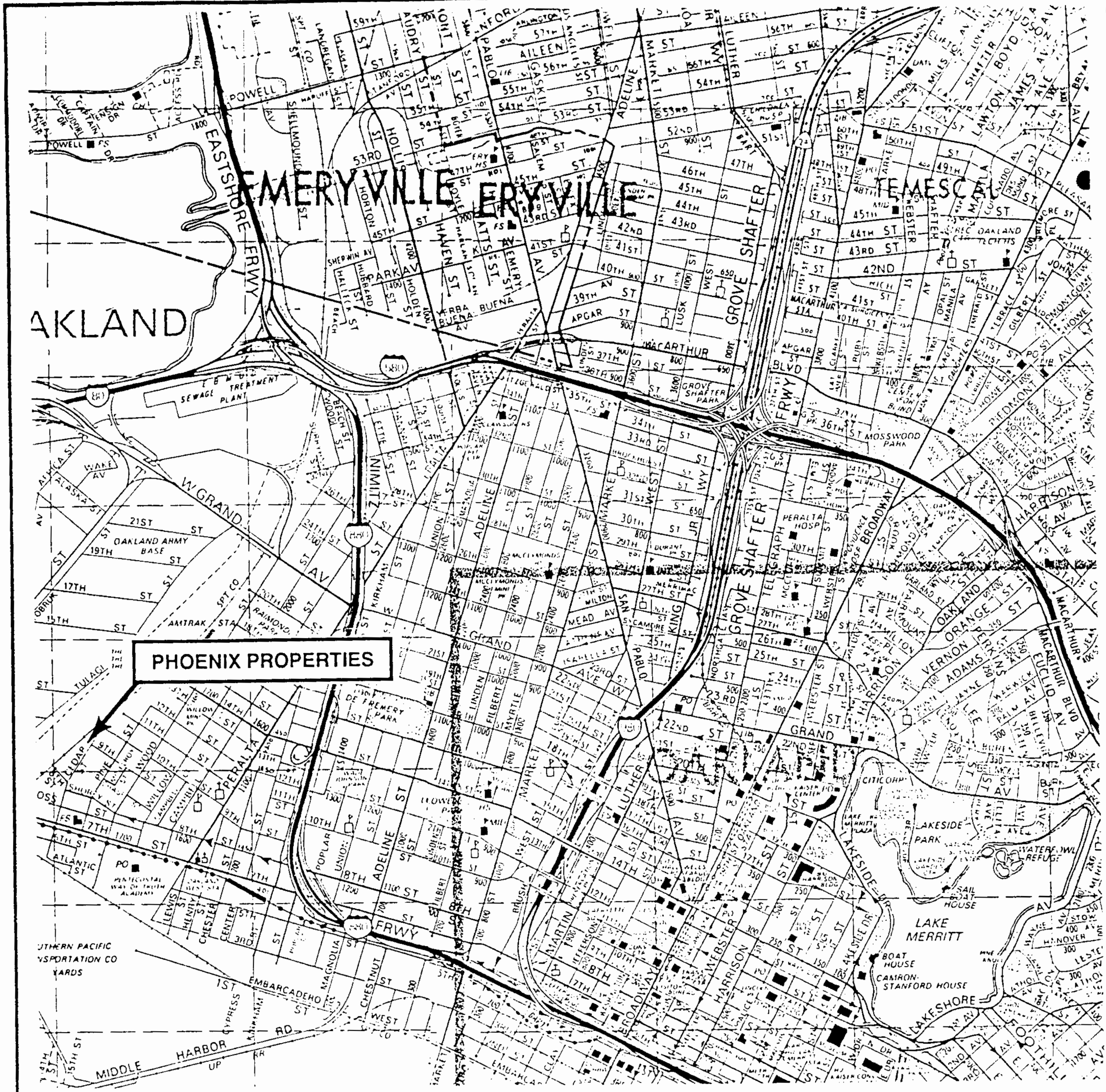
California Department of Health Services (CalEPA), Public Water Supply Branch, June 1989, "Recently Adopted Maximum Contaminant Levels for Contaminants in Drinking Water", "Regulated Organic Chemicals" and "Drinking Water Action Levels Recommended by the Department of Health Services".

California Department of Transportation, May 4, 1992, "Task Order 04-192201-01".

California Regional Water Quality Control Board, August 10, 1990, "Tri-Regional Board Staff recommendation for Preliminary Evaluation and Investigation of Underground Tank Sites".

California Regional Water Quality Control Board, April, 1989, "LUFT Field Manual Revision".

FIGURES



REFERENCE :Thomas Bros Maps,
Alameda, Contra Costa Counties

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SCALE IN FEET

Geo/ Resource Consultants, Inc.
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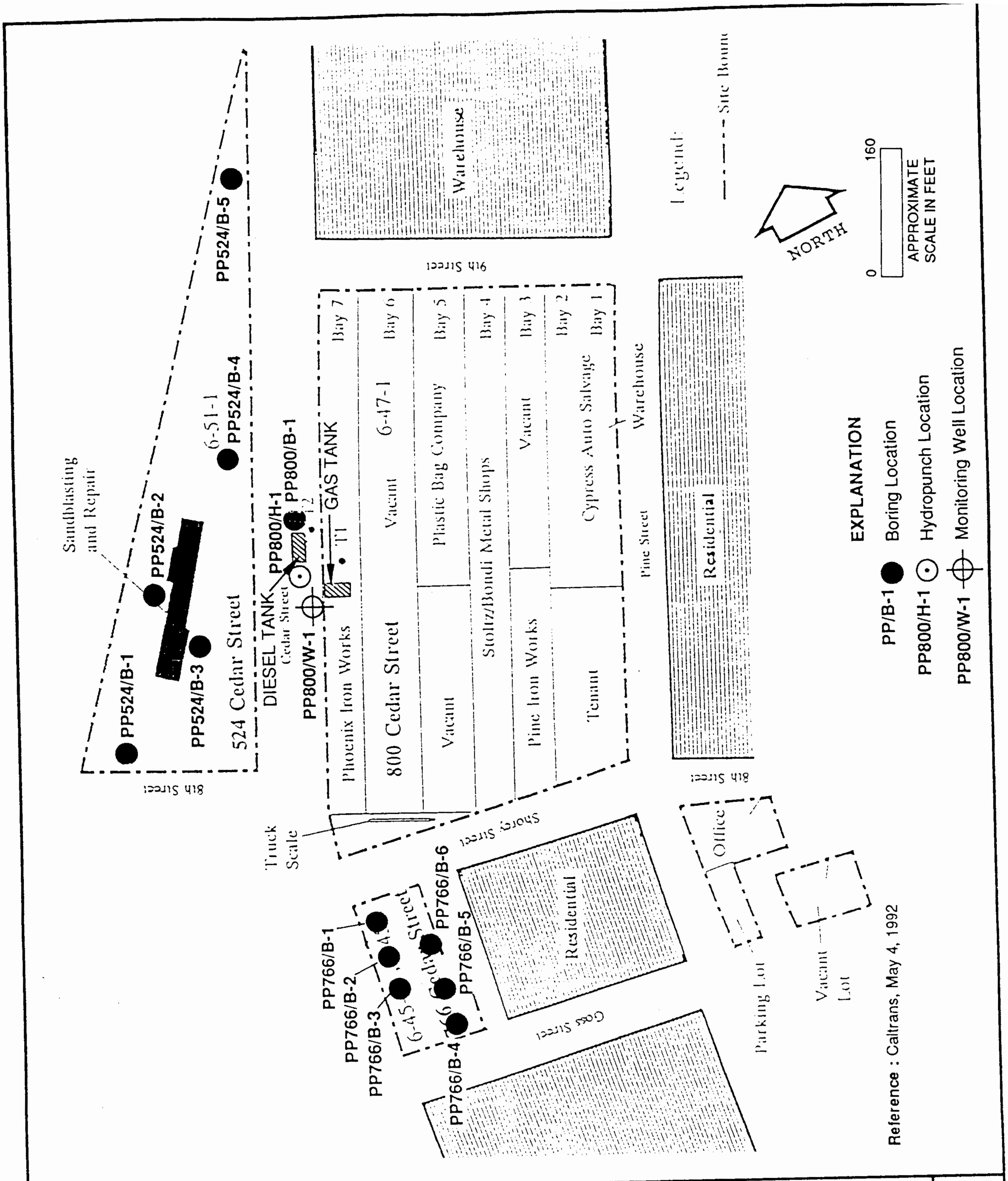
Job No. 1689-019-00 Appr. ______ Date 7/23/92

VICINITY MAP - AREA No.4
SITE INVESTIGATION REPORT
DEPARTMENT OF TRANSPORTATION
INTERSTATE 880,
CYPRESS STRUCTURE RECONSTRUCTION
OAKLAND, CALIFORNIA

FIGURE
1



Reference : Caltrans, May 4, 1992

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Job No. 1689-019-00 Appr. ________ Date 7/20/92

SITE PLAN - AREA 4
PHOENIX PROPERTIES - PARCEL No.17
D.O.T. - INTERSTATE 880
CYPRESS STRUCTURE RECONSTRUCTION
OAKLAND, CALIFORNIA

FIGURE
2

TABLES

TABLE 1
AREA 4

DOT - CYPRESS
SUMMARY OF ANALYTICAL RESULTS - SOIL
GENERAL

UNITS EPA No.	TRPH mg/kg 418.1	TPH-G mg/kg 8015m	TPH-D mg/kg 8015m
PHOENIX PROPERTIES, 524			
-Boring			
PP524/B-1-2	7	-	-
PP524/B-1-6	31	-	-
PP524/B-2-6	6	-	-
PP524/B-2-15	10	-	-
PP524/B-3-1.5	8	-	-
PP524/B-3-6	14	-	-
PP524/B-4-1.5	210(10)	-	-
PP524/B-4-6	1,200(150)	-	-
PP524/B-5-1.5	250	-	-
PP524/B-5-6	31	-	-
PHOENIX PROPERTIES, 800			
-Boring			
PP800/B-1-1.5	-	-	1,600
PP800/B-1-4	-	-	ND
PP800/B-1-7.5	-	-	ND
-Hydropunch			
PP800/H-1-1.5	-	10	1,600
PP800/H-1-4	-	17	2,400
PP800/H-1-7.5	-	ND	ND
-Well			
PP800/W-1-1.5	-	ND(25)	ND
PP800/W-1-6	-	ND	ND
PP800/W-1-8	-	ND	ND
Detection Limit	5.0	5.0	5

NOTES: ND = Not Detected at Detection Limit on Laboratory Data Sheets
- = Not analyzed
( ) = Detection Limit
TRPH = Total Recoverable Petroleum Hydrocarbons
TPH-G = Total Petroleum Hydrocarbons as Gasoline
TPH-D = Total Petroleum Hydrocarbons as Diesel
Laboratory Analyses performed by CKY

TABLE 2
AREA 4

DOT - CYPRESS
SUMMARY OF ANALYTICAL RESULTS - SOIL
METALS

	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CHROMIUM TOTAL	COBALT	COPPER	LEAD	MERCURY	MOLYBDENUM	NICKEL	SELENIUM	SILVER	THALLIUM	VANADIUM	ZINC
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EPD No.	6010	6010	6010	6010	6010	6010	6010	6010	6010	6010	6010	6010	6010	6010	6010	6010	6010
PHOENIX PROPERTIES, 524																	
-Boring																	
PP524/B-1-2	ND	ND	30	ND	2	27	3.3	5.7	9.5	ND	ND	14	ND	ND	ND	21	15
PP524/B-1-6	5.6	21	67	0.81	5.2	57	2.9	8.4	N25	0.09	ND	27	ND	ND	ND	47	21
PP524/B-2-1.5	6.5	ND	47	ND	2.1	28	4.5	8.5	13	ND	ND	15	ND	ND	ND	21	17
PP524/B-2-6	ND	12	68	0.64	4	44	7.4	14	17	ND	ND	40	ND	ND	ND	35	29
PP524/B-3-1.5	6	ND	51	0.51	2.8	29	4.9	11	18	ND	ND	18	ND	ND	ND	23	23
PP524/B-3-6	6.1	10	73	0.65	4.8	52	5.4	11	18	ND	0.70	42	ND	ND	16	41	31
PP524/B-4-1.5	7.9	19	160	0.55	9.7	120	7.3	120	1,100**	0.24	2.8	30	ND	ND	ND	32	500
PP524/B-4-6	55	22	970	0.55	30	150	11	250*	3,500**	0.66	5.6	57	ND	ND	ND	37	2,300
WET	-	-	-	-	-	-	-	1.3(0.01)mg/l	-	-	-	-	-	-	-	-	-
PP524/B-5-1.5	12	15	540	0.55	12	75	9	130	23,000**	1	1.7	40	ND	ND	ND	29	1,400
PP524/B-5-6	6	12	51	0.55	4.3	36	5.9	9.3	20	ND	ND	33	ND	ND	13	29	26
PHOENIX PROPERTIES, 766																	
-Boring																	
PP766/B-1-1	8.4	35	280	0.56	12	39	10	89	3,600**	0.33	1.1	30	ND	ND	ND	26	500
PP766/B-1-3	ND	ND	47	0.51	2.6	29	5.1	6.5	11	ND	0.80	18	ND	ND	ND	22	18
PP766/B-2-1	ND	ND	50	ND	2.5	30	4.9	6.4	12	ND	ND	15	ND	ND	16	22	16
PP766/B-2-3	5.8	ND	50	0.50	2.4	29	5.4	7	11	ND	ND	19	ND	ND	ND	21	17
PP766/B-3-1	5.3	10	150	0.5	2.6	29	5.5	24	160*	0.18	0.60	21	ND	ND	ND	23	160
WET	-	-	-	-	-	-	-	-	8(0.10)mg/l	-	-	-	-	-	-	-	-
PP766/B-3-3	ND	ND	46	ND	2.4	27	4.5	6.8	10	ND	ND	18	ND	ND	ND	22	16
PP766/B-4-1	ND	10	170	0.50	2.8	30	5.5	23	170*	0.28	0.80	19	ND	ND	ND	22	110
WET	-	-	-	-	-	-	-	-	13(0.10)mg/l	-	-	-	-	-	-	-	-
PP766/B-4-3	5.1	ND	45	ND	2.8	27	5.3	9.5	9	0.07	ND	16	ND	ND	11	22	18
PP766/B-5-1	ND	ND	200	0.55	4.9	28	5.1	30	390*	0.58	1.2	19	ND	ND	ND	27	170
WET	-	-	-	-	-	-	-	-	31(0.10)mg/l	-	-	-	-	-	-	-	-
PP766/B-5-3	ND	ND	72	ND	2.9	27	4.6	18	110*	0.07	0.60	17	ND	ND	ND	24	67
PP766/B-6-1	ND	ND	41	ND	2.3	28	4.9	9.9	24	0.07	0.50	16	ND	ND	11	22	25
PP766/B-6-3	ND	ND	57	ND	1.8	27	4	8.1	15	ND	0.70	17	ND	ND	10	21	20
TTLC(mg/kg)	500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
STLC(mg/L)	15	5.0	100	0.75	1.0	560	80	25	5.0	0.2	350	20	1.0	5	7.0	24	250
Detection Limit	5.0	10	2.5	0.50	0.50	0.50	1.0	0.50	5.0	0.05	0.50	2.5	10	0.50	10	1.0	0.50

NOTES:
ND = Not Detected at Detection Limit on Laboratory Data Sheets
( ) = Detection Limit
- = Not Analyzed
TTLC = Total Threshold Lomit Concentration (mg/kg)
STLC = Soluble Threshold Limit Concentration (mg/l)
* = Concentration values 10x greater than STLC values, according to CCR Title 22
** = Concentration values greater than TTLC values, according to CCR Title 22
Laboratory Analyses performed by CKY

EPD6: 1689-019T4-2

TABLE 3

AREA 4

DOT - CYPRESS

SUMMARY OF ANALYTICAL RESULTS - GROUNDWATER

	EPA No.	PP800/H-1	PP800/W-1	DETECTION LIMIT
TPH-G (mg/L)	**8015m**	ND	ND(1.0)	0.1
TPH-D (mg/L)	**8015m**	ND	ND	1.0

NOTES: ND = Not Detected at Detection Limit on Laboratory Data Sheets

- = Not analyzed

TPH-G = Total Petroleum Hydrocarbons as Gasoline

TPH-D = Total Petroleum Hydrocarbons as Diesel

Laboratory Analyses performed by CKY

APPENDIX A

FIELD METHODOLOGY

Area 4

APPENDIX A - FIELD METHODOLOGY

The Highway 880, Cypress Structure Reconstruction Site Investigation performed by GRC in June, 1992 included drilling and sampling of both drill rig borings and hand auger borings. Ground-water samples were collected at some boring locations, using "hydropunch" sampling techniques or by the installation and sampling of ground-water monitoring wells.

General boring locations and field methodologies were determined during several pre-work site visits conducted by GRC and Caltrans personnel prior to initiating the field investigation. Pre-work site visits were conducted May 21, May 28, and June 5, 1992. Subsequent to the site visits, a Workplan was prepared and approved by Caltrans in June, 1992. Variations from the Workplan, such as well construction materials and re-locations of boring locations, were communicated to Caltrans during the field investigation.

A.1 PRELIMINARY ACTIVITIES

Prior to beginning field activities, GRC performed the following tasks at drilling locations as appropriate.

Utility Clearance

Underground Service Alert (USA) was notified by GRC 48-hours in advance of field work of our intent to drill. USA notified the utility companies of our proposed work locations. GRC met with utility company representatives to clear each boring location of buried utilities. GRC also met with site owners and tenants during pre-work site visits to discuss the location of potential underground utility lines.

Above Ground Utility Clearance

Above ground utilities were visually examined by GRC to assure that the drill rig boom would not be within 15 feet of overhead power lines. Boring locations were confirmed with the subcontracted drilling company on June 19 prior to initiating the field investigation.

Permits

This investigation required monitoring well installation permits and right-to-enter permits. As part of the monitoring well permitting process, an application for well permits were submitted to the Alameda County Flood Control District. The well permits were granted as a group and is included at the end of this Appendix. Permits to enter each of the project sites were obtained by Caltrans personnel prior to beginning field work and right-to-enter permits are maintained within Caltran's files. All appropriate permits were kept on-site during field work.

A.2 DRILLING AND SAMPLING METHODOLOGY

This section describes the field methodology used to drill and sample both hand auger borings and drill rig borings, and to collect "hydropunch" ground-water samples from drill rig soil borings and "grab" ground-water samples from hand auger soil borings.

Drill Rig Borings - Drilling and Soil Sample Collection

Soil borings were drilled by a three-man crew from West Hazmat Drilling Company of Hayward California. West Hazmat maintained two drill rigs operating at the project site which included a truck-mounted Mobile B-57 and a truck-mounted CME 75. Soil borings were drilled using hollow stem auger methods with 8-inch augers. A GRC hydrogeologist was present during all field activities to make detailed observations of field conditions and maintain a continuous log of each soil boring. Soil boring logs are contained in Appendix B and soil boring locations are illustrated within the text.

Generally, soil borings were drilled through the unsaturated zone to the water table and soil samples collected from the unsaturated zone were submitted for chemical analysis. The sampling interval in the unsaturated zone was dependant on the number of samples to be analyzed as outlined in the Workplan. Soil borings converted to monitoring wells were further advanced into the saturated zone.

Soil samples were collected at each boring location using a California Modified split spoon sampler. Soil samples were collected in three, clean 6-inch stainless steel sleeves. At each sampling interval, the split spoon sampler was driven with a 140-pound hammer dropping 30-inches. Upon retrieval, the sampler was placed on a relatively clean surface and carefully opened. One of the sample sleeves was immediately covered on both ends with aluminum foil, capped, labeled, and placed a plastic bag and then in a cooled ice chest prior to transport to the chemical laboratory. The two remaining sleeves were used for sample description and field screening using an photoionization meter (HnU).

Field screening was conducted by placing a portion of the remaining soil sample in a zip-lock bag. The head space of the zip-lock bag was then screened for organic vapors using a HnU. and the readings were recorded on the boring log. Soil sample descriptions were maintained on a continuous soil boring log. Soil samples were described according to color, texture, moisture, density, any other appropriate observations, and classified using the Unified Soil Classification System.

Hand Auger - Drilling and Soil Sample Collection

Selected soil boring locations were drilled and sampled by a GRC hydrogeologist using a hand auger. Generally, hand augered soil borings were drilled through the unsaturated zone to the water table. Soil samples collected from the unsaturated zone were submitted for chemical analysis. The sampling interval in the unsaturated zone was dependant on the number of samples to be analyzed as outlined in the Workplan.

Soil samples were collected at each hand auger boring location using two six-inch stainless sleeves attached to a hand held sampler and slide hammer. The slide hammer was used to advance the stainless steel sleeve containing sampler into the soil in advance of the augered hole. Upon retrieval the sampler was placed on a relatively clean surface and carefully opened. One of the sample sleeves was immediately covered on the ends with aluminum foil, capped, labeled, and placed a plastic bag and then in a cooled ice chest for possible chemical analysis. The remaining sleeve was used for sample description and field screening. A portion of the remaining soil sample was placed in a zip-lock bag. The head space of the zip-lock bag was then screened for organic vapors using a HnU and the readings were recorded on the boring log. Soil sample descriptions were maintained on a continuous soil boring log. Soil samples were described according to color, texture, moisture, density, any other appropriate observations, and classified using the Unified Soil Classification System.

"Hydropunch" Ground-Water Sampling

Discrete ground-water samples were collected at selected soil boring locations using a "hydropunch". A "hydropunch" is a hollow rod-shaped device constructed of stainless steel and Teflon. The "hydropunch" was lowered down through the hollow stem augers, hydraulically pushed into the saturated soil, and retracted approximately 1.5 feet to expose the perforated intake pipe. The "hydropunch" was then allowed to fill with ground water. A clean Teflon bailer was lowered down the "hydropunch" to collect the ground-water sample.

Upon retrieval of the bailer, the ground-water sample was carefully transferred into laboratory provided sample containers and placed in a cooled ice chest.

"Grab" Ground-Water Sample Collection

As described in the Workplan, ground-water samples were collected at selected hand auger soil borings. Following soil sample collection, these borings were continued into the saturated zone for approximately two feet. Ground-water samples were collected using a disposable bailer in the open borehole. Upon collection, the ground water was carefully transferred into laboratory-provided containers, labeled, and placed in a cooled ice chest.

A.3 MONITORING WELL INSTALLATION, DEVELOPMENT, AND SAMPLING

Some soil borings within the project site area were converted to ground-water monitoring wells. The locations of monitoring wells are presented within the text. Monitoring well construction diagrams are presented in Appendix B.

Monitoring Well Installation

All monitoring wells are constructed of 2-inch diameter, threaded schedule 40 PVC. Blank casing was flesh mounted on machine slotted 0.010-inch or 0.020-inch slot size well casing. The wells were installed by lowering the casing down the hollow stem auger. As the augers were removed, a filter pack consisting of No. 2/12 or No. 3 Monterey sand was carefully poured down the augers around the well screen to a depth of approximately 1 to 2 feet above the top of the screen. During pouring, the sand depth was measured continuously to prevent bridging.

The width of the slots and sand depended on the formation materials encountered during drilling. Generally, silty sands were encountered and the slot width and sand size used consisted of 0.020-inch and No. 3 sand, respectively. When the formation consisted predominantly of clayey materials, the slot width and sand size used was 0.010-inch and No. 2/12 sand, respectively.

Following sand pack installation, bentonite pellets were placed to a minimum thickness of 1-foot above the filter pack. An annular seal of a cement bentonite slurry was then placed above the bentonite seal to an approximately depth of 1 foot. A locking cap was placed on top of well casing and a water-tight, flush-mounted well cover was cemented into place approximately 2-inches above grade, sloping away from the well head to prevent the ponding of surface water.

Monitoring Well Development

Monitoring wells were developed by West Hazmat under the supervision of a GRC hydrogeologist utilizing the "surge and bail" technique. Each monitoring well was initially surged by attaching a 1.5-inch O.D. surge block to the drive rods. The surge block was slowly raised and lowered inside the well screen section of the casing to create a flushing action until the sand pack was stabilized. Subsequently, a bailer was used to purge the well until relatively sediment-free water was produced by the well.

Monitoring Well Ground-Water Sample Collection

The monitoring wells were allowed to stabilize approximately 72-hours following development prior to sampling. Water levels were then measured to an accuracy of 0.1 foot using an electric sounder. Prior to sample collection, approximately three casing volumes were removed from each monitoring well using a Teflon bailer. During purging, pH, specific conductance, and temperature were monitored. Monitoring wells were purged until the pH, specific conductance, and the temperature stabilized to within 10% over two successive sampling intervals, and at least three casing volumes of ground-water has been purged. Monitoring wells which pumped dry were allowed to recover to within 80 percent of the original well volume, and then sampled.

Following purging, a ground-water sample was collected by slowly lowering a Teflon bailer into the well. Ground-water was carefully placed in laboratory-provided containers, labeled, and placed in a cooled ice chest.

A.5 DECONTAMINATION PROCEDURES

The following decontamination procedures were followed in order to maintain sample integrity and to prevent cross-contamination from occurring between sampling locations:

- All sampling equipment was cleaned with Liquinox and rinsed twice with deionized water prior to use at a new sampling location. Sampling equipment included:

  Split spoons;

  Stainless steel tubes;

  "Hydropunch" equipment;

  Sampling utensils;

  - Hand auger equipment; and
  - Ground-water sampling equipment.

- Hollow stem augers and drill bits were steam-cleaned between each drilling location.

- Rinsate water was retained and stored in labeled 55-gallon DOT 17H drums pending laboratory results.

A.5 STORAGE AND DISPOSAL OF GENERATED WASTES

Soil cuttings, development water, purge water and decontamination water generated from each parcel were not combined in drums with soil and ground water from other parcels. All soil cuttings and water were placed into DOT-approved 17H, 55-gallon drums. Following completion of drilling, all drums were moved to the former Kelly's Truck Repair yard located at Cypress and 7th Streets for storage.

A.5 ANALYTICAL PROGRAM

A summary of the projects analytical program is outlined below. Specific analyses performed and results for parcels are described within the text. All soil and ground-water samples were transported to CKY, Inc. in Pleasanton, California for chemical analyses.

A comprehensive list of the analytical methods used during this investigation is provided below:

Total Petroleum Hydrocarbons	
(TPH-Gasoline)	EPA Method 8015M-G
(TPH-Diesel)	EPA Method 8015M-D
Aromatic Volatile Organics	EPA Method 8020
Total Recoverable Petroleum Hydrocarbons (TRPH)	EPA Method 418.1
Total Metals (CAM metals by ICP/AAS)	EPA Method 6010
Volatile Organics (GC/MS)	EPA Method 8240
Semi-Volatile Organics (GC/MS)	EPA Method 8270
Pesticides & Polychlorinated Biphenyls (PCBs)	EPA Method 8080

All chemical analysis was performed on a one-week turn-around basis.

A.6 FIELD QUALITY CONTROL/QUALITY ASSURANCE

The following field documentation procedures were implemented by GRC field personnel.

Sample Identification

Each soil and ground-water sample was labeled, as applicable, with the following information:

- Boring or Monitoring Well Identification (I.D.) Number;
- Sample I.D. Number;
- Depth of Soil Sample Collection;
- Date and Time of Sample Collection; and
- Name of Person Collecting Sample.

Chain-of-Custody Procedures

Chain-of-custody records were used to document sample handling and shipping. Information recorded on the Chain-of-Custody Records included location of sample collection, sample identification (I.D.) number, date and time of collection, number and type of sample containers and analyses requested.

Sample Preservation

Samples were preserved upon collection by placing them in ice chests containing blue ice. Care was taken not to allow the samples to come into direct contact with the ice.

APPENDIX B

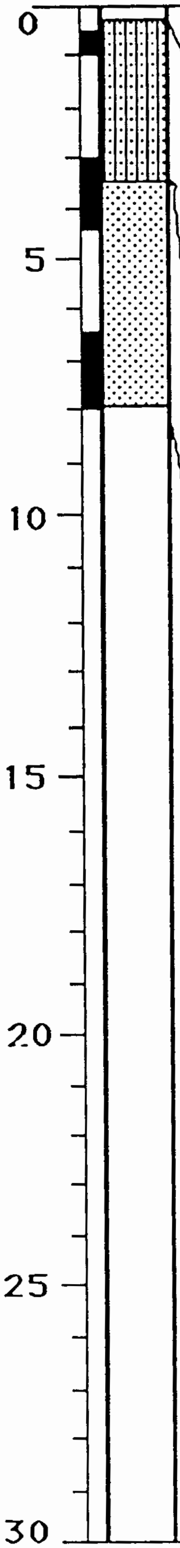
SOIL BORING LOGS

LOG OF BORING PP800/B-1

Equipment Hollow Stem Auger

Elevation N.A. Date 6/24/92

Laboratory Analysis	Blows/ft.	OVA Readings	Hnu Readings (ppm)
	50/6"		50
	19		30
	53		2



3" ASPHALT

SILTY SAND (SM)
light brown, slightly moist, with gravel,
medium to fine-grained
black wood pieces in drill cuttings @ 1.5',
changes to dark gray-black, strong odors,
grinding on obstruction @ 1.5' (rocks),
40% gravel to 2" dia. very dense,

Fill

SAND (SP)
gray, moist, medium to fine-grained,
with silt, medium dense

color changes to gray and brown mottled,
very moist, very dense

Boring terminated @ 8.0 feet.
Ground water not encountered during drilling.

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Geologists / Engineers / Environmental Scientists

Job No. 1689-019-00 Appr: ADT Date 7/7/92

LOG OF BORING PP800/B-1
SITE INVESTIGATION REPORT
DEPARTMENT OF TRANSPORTATION
INTERSTATE 880
CYPRESS RECONSTRUCTION
OAKLAND, CALIFORNIA

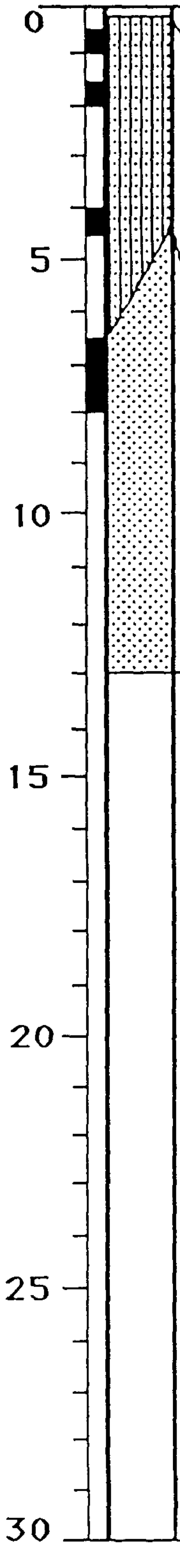
FIGURE
B-1

LOG OF BORING PP800/H-1

Equipment Hollow Stem Auger

Elevation N.A. Date 6/24/92

Laboratory Analysis	Blows/ft.	OVA Readings	Hnu Readings (ppm)
	50/4"		-
	50/6"		-
			-
	36		2



3" ASPHALT

SILTY SAND (SM)
dark gray to black, slightly moist, medium to fine-grained, strong hydrocarbon odor, gravel to 0.5" dia.,
abundant wood fragments in upper 2 feet

Fill

SAND (SP)
mottled gray and brown, very moist, dense, with silt

Hydropunch to 13.0 feet.
Boring terminated @ 13.0 feet.
Ground water not encountered during drilling.

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LOG OF BORING PP800/H-1
SITE INVESTIGATION REPORT
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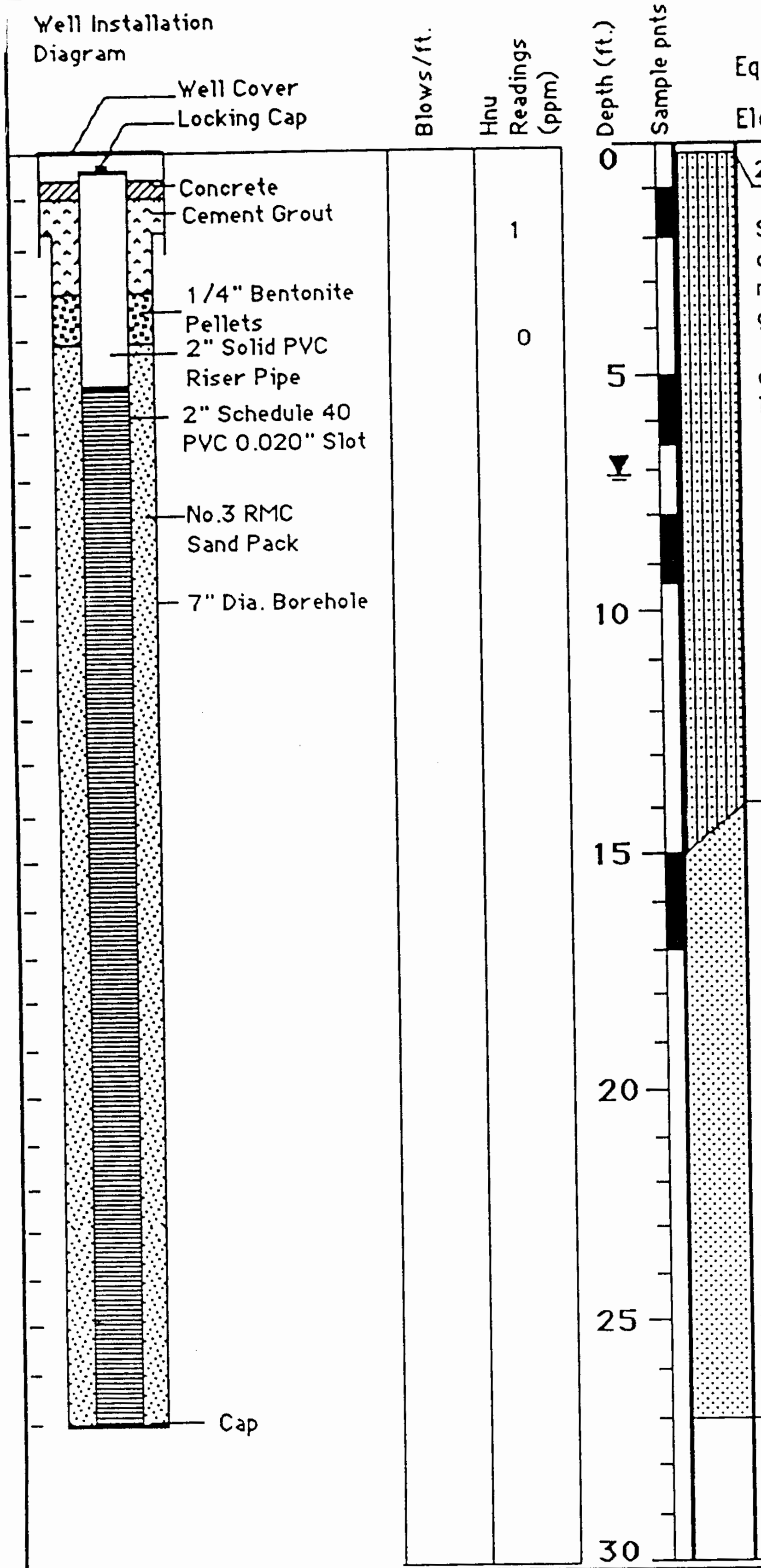
INTERSTATE 880
CYPRESS RECONSTRUCTION
OAKLAND, CALIFORNIA

FIGURE
B-2

LOG OF BORING PP800/W-1

Equipment Hollow Stem Auger

Elevation N.A. Date 6/23/92



2" ASPHALT OVER 6" BASE ROCK

SILTY SAND (SM)
dark gray-black, slightly moist,
medium to fine-grained, very dense,
gravel to 1.5" dia.

Fill ?

color changes to brown and gray, medium dense,
less gravel to 0.5" dia.

color changes to brown @ 8.2', samples wet,
very dense

SAND (SP)

wet, fine-grained, dense,
with some silt and clay

very dense

Boring terminated @ 27.0 feet.

Ground water measured @ 7.2 feet July 1, 1992.

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LOG OF BORING PP800/W-1
SITE INVESTIGATION REPORT
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CYPRESS RECONSTRUCTION
OAKLAND, CALIFORNIA

FIGURE
B-3

LOG OF BORING PP766/B-1

Equipment Hollow Stem Auger

Elevation N.A. Date 6/22/92

Laboratory Analysis	Blows/ft.	OVA Readings	Hnu Readings (ppm)	Depth (ft.)	Sample pnts.		
	56		3	0	■	SILTY SAND (SM) dark brown, dry, medium dense to dense, rock fragments	Fill
	20		1		■		
						Boring terminated @ 3.0 feet. Ground water not encountered during drilling.	
				5			
				10			
				15			
				20			
				25			
				30			

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LOG OF BORING PP766/B-1
SITE INVESTIGATION REPORT
DEPARTMENT OF TRANSPORTATION
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CYPRESS RECONSTRUCTION
OAKLAND, CALIFORNIA

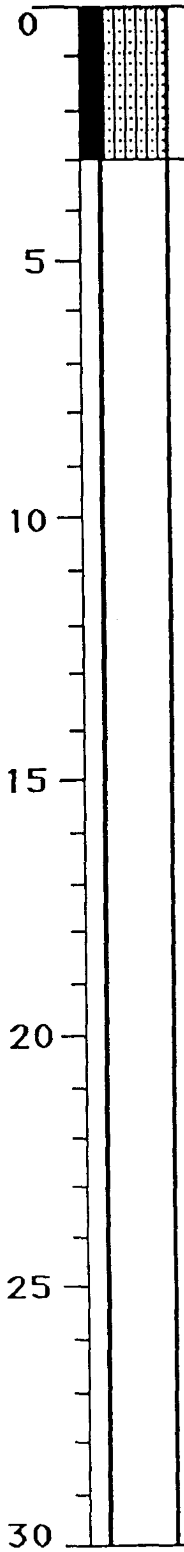
FIGURE
B-4

LOG OF BORING PP766/B-2

Equipment Hollow Stem Auger

Elevation N.A. Date 6/22/92

Laboratory Analysis	Blows/ft.	OVA Readings	Hnu Readings (ppm)
	48		2
	27		1



SILTY SAND (SM)
dark brown, dry, medium dense to dense,
rock fragments
slightly moist, loose to medium dense

Fill

Boring terminated @ 3.0 feet.
Ground water not encountered during drilling.

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LOG OF BORING PP766/B-2

SITE INVESTIGATION REPORT
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OAKLAND, CALIFORNIA

FIGURE
B-5

LOG OF BORING PP766/B-3

Equipment Hollow Stem Auger

Elevation N.A. Date 6/22/92

Laboratory Analysis	Blows/ft.	OVA Readings	Hnu Readings (ppm)	Depth (ft.)	Sample pnts.	Description
	22		2	0		SILTY SAND (SM) dark brown, dry, loose to medium dense, fine-grained. rock fragments slightly moist
	18		2			Fill
						Boring terminated @ 3.0 feet. Ground water not encountered during drilling.
				5		
				10		
				15		
				20		
				25		
				30		

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LOG OF BORING PP766/B-3
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INTERSTATE 880
CYPRESS RECONSTRUCTION
OAKLAND, CALIFORNIA

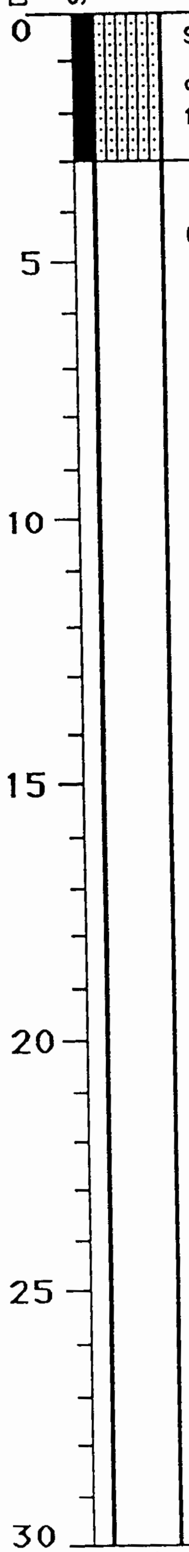
FIGURE
B-6

LOG OF BORING PP766/B-4

Equipment Hollow Stem Auger

Elevation N.A. Date 6/22/92

Laboratory Analysis	Blows/ft.	OVA Readings	Hnu Readings (ppm)	Depth (ft.)	Sample pnts.	Description	
	19		3	0		SILTY SAND (SM) dark brown, dry, loose to medium dense, fine-grained	Fill
	25		1				
				3		Boring terminated @ 3.0 feet. Ground water not encountered during drilling.	



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LOG OF BORING PP766/B-4
SITE INVESTIGATION REPORT
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OAKLAND, CALIFORNIA

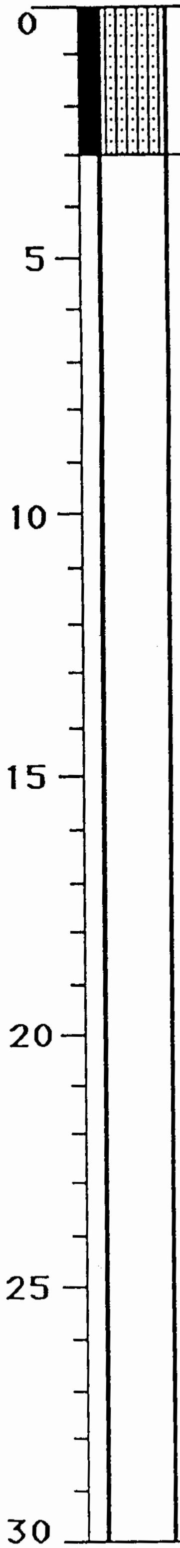
FIGURE
B-7

LOG OF BORING PP766/B-5

Equipment Hollow Stem Auger

Elevation N.A. Date 6/22/92

Laboratory Analysis	Blows/ft.	OVA Readings	Hnu Readings (ppm)
	20		1
	18		1



SILTY SAND (SM)

dark brown, dry to moist,
loose to medium dense

Fill

Boring terminated @ 3.0 feet.
Ground water not encountered during drilling.

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LOG OF BORING PP766/B-5

SITE INVESTIGATION REPORT
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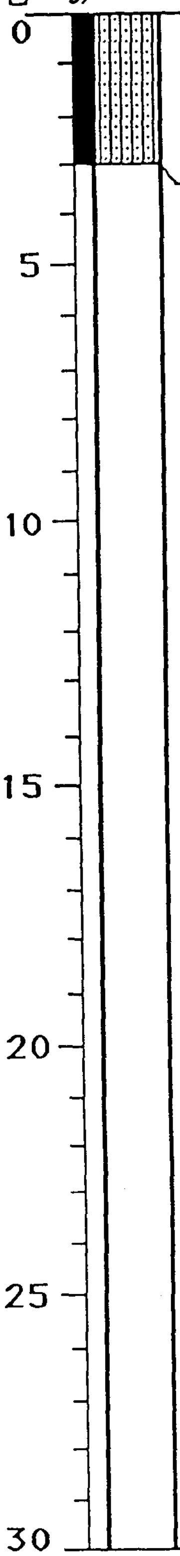
FIGURE
B-8

LOG OF BORING PP766/B-6

Equipment Hollow Stem Auger

Elevation N.A. Date 6/22/92

Laboratory Analysis	Blows/ft.	OVA Readings	Hnu Readings (ppm)
	30		1
	18		3



SILTY SAND (SM)
dark brown, dry, medium dense,
some rock fragments
color changes to light brown, loose to
medium dense, slightly moist

Fill

Boring terminated @ 3.0 feet.

Ground water not encountered during drilling.

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LOG OF BORING PP766/B-6

SITE INVESTIGATION REPORT
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CYPRESS RECONSTRUCTION
OAKLAND, CALIFORNIA

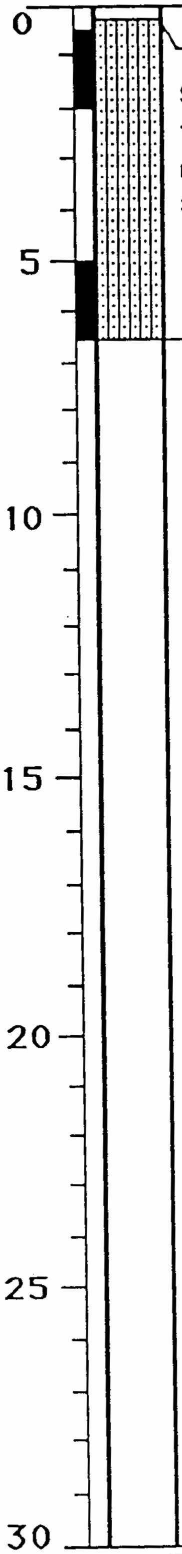
FIGURE
B-9

LOG OF BORING PP524/B-1

Equipment Hollow Stem Auger

Elevation N.A. Date 6/23/92

Laboratory Analysis	Blows/ft.	OVA Readings	Hnu Readings (ppm)
	30		0
	23		0



3" CONCRETE

SILTY SAND (SM)
light brown, slightly moist,
medium to fine-grained, medum dense,
some gravel

Fill

wet, no gravel, some brick fragments

Boring terminated @ 6.5 feet.

Ground water not encountered during drilling.

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LOG OF BORING PP524/B-1
SITE INVESTIGATION REPORT
DEPARTMENT OF TRANSPORTATION
INTERSTATE 880
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OAKLAND, CALIFORNIA

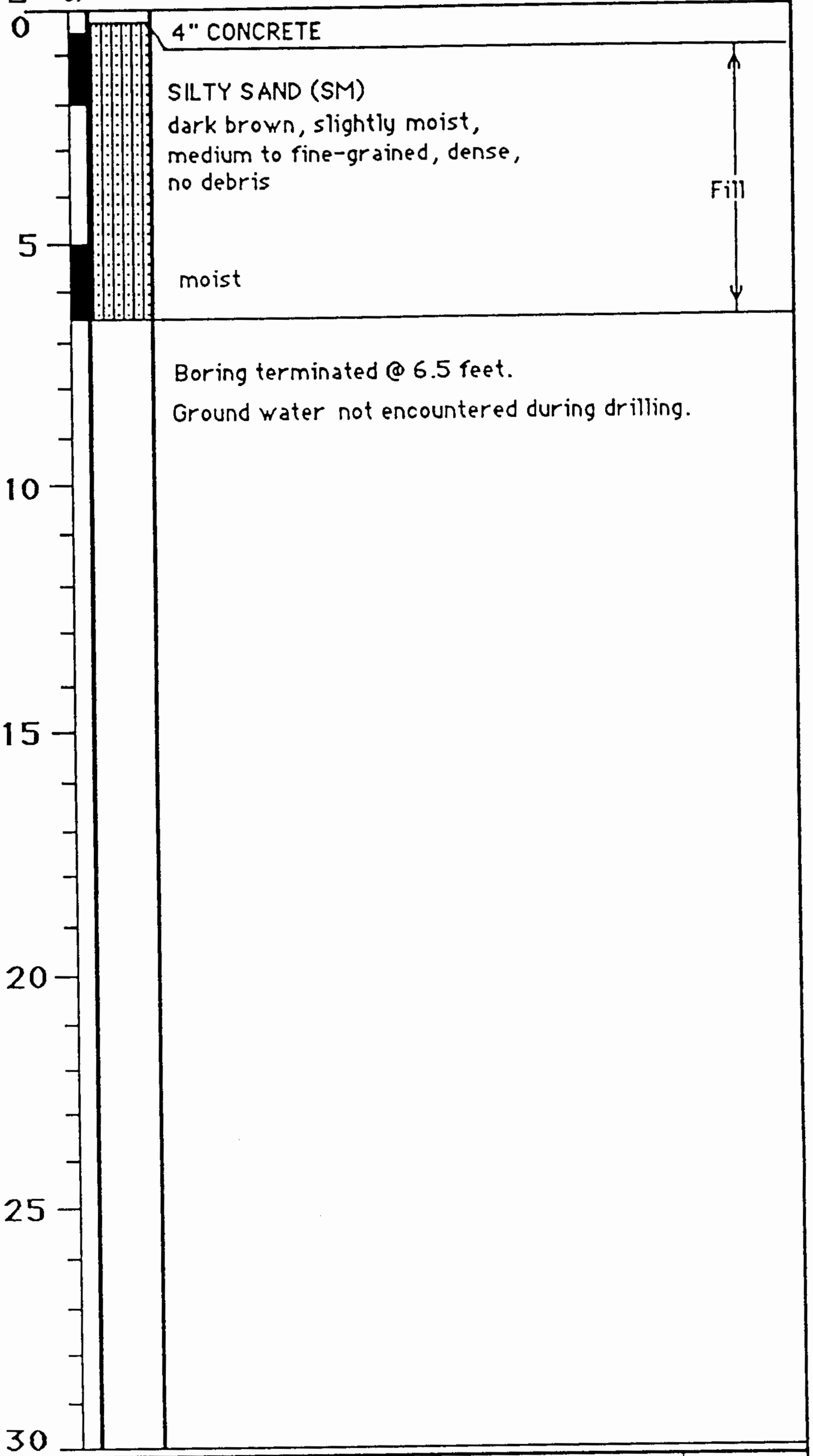
FIGURE
B-10

LOG OF BORING PP524/B-2

Equipment Hollow Stem Auger

Elevation N.A. Date 6/23/92

Laboratory Analysis	Blows/ft.	OVA Readings	Hnu Readings (ppm)	Depth (ft.)
	30		0	0–2
	49		0	5–6.5



4" CONCRETE

SILTY SAND (SM)
dark brown, slightly moist,
medium to fine-grained, dense,
no debris

moist

Boring terminated @ 6.5 feet.

Ground water not encountered during drilling.

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LOG OF BORING PP524/B-2
SITE INVESTIGATION REPORT
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INTERSTATE 880
CYPRESS RECONSTRUCTION
OAKLAND, CALIFORNIA

FIGURE B-11

LOG OF BORING PP524/B-3

Equipment Hollow Stem Auger

Elevation N.A. Date 6/23/92

Laboratory Analysis	Blows/ft.	OVA Readings	Hnu Readings (ppm)	Depth (ft.)	Description	
				0	SILTY SAND (SM) dark brown, slightly moist, medium to fine-grained, dense,	Fill
	61		0		some gravel to 1.0" dia., construction debris, very dense	
				5	changes to fine-grained, moist, dense	
	44					
					Boring terminated @ 6.5 feet. Ground water not encountered during drilling.	
				10		
				15		
				20		
				25		
				30		

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LOG OF BORING PP524/B-3

SITE INVESTIGATION REPORT
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OAKLAND, CALIFORNIA

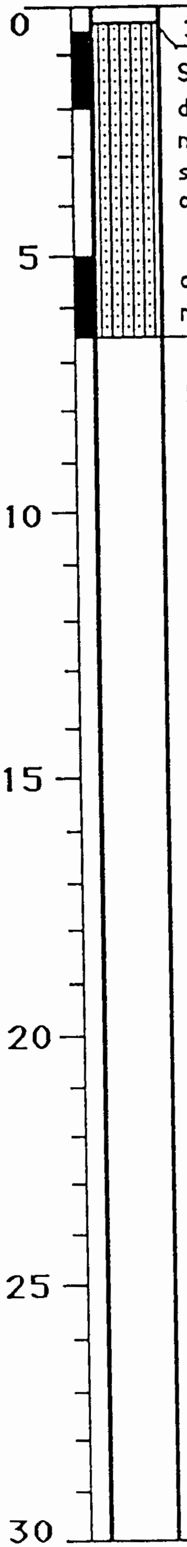
FIGURE
B-12

LOG OF BORING PP524/B-4

Equipment Hollow Stem Auger

Elevation N.A. Date 6/23/92

Laboratory Analysis	Blows/ft.	OVA Readings	Hnu Readings (ppm)
	42		0
	14		0



3" ASPHALT

SILTY SAND (SM)
dark brown, slightly moist,
medium to fine-grained, dense,
some gravel to 0.5" dia.,
construction debris, wood

Fill

color changes to dark gray @ 6.0 ',
medium dense

Boring terminated @ 6.5 feet.

Ground water not encountered during drilling.

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LOG OF BORING PP524/B-4
SITE INVESTIGATION REPORT
DEPARTMENT OF TRANSPORTATION
INTERSTATE 880
CYPRESS RECONSTRUCTION
OAKLAND, CALIFORNIA

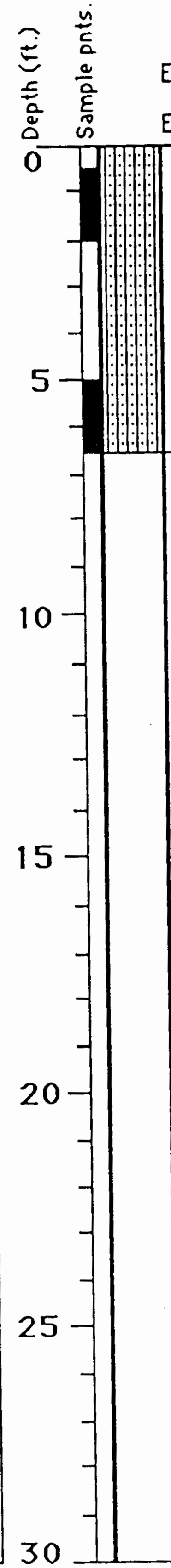
FIGURE
B-13

LOG OF BORING PP524/B-5

Equipment Hollow Stem Auger

Elevation N.A. Date 6/23/92

Laboratory Analysis	Blows/ft.	OVA Readings	Hnu Readings (ppm)
	34		0
	45		0



SILTY SAND (SM)
brown, slightly moist, medium to fine-grained, dense,
with gravel to 1.5" dia., construction debris, glass fragments

color changes to green-gray @ 6.0', moist, dense, some clay, wood fragments

Fill

Boring terminated @ 6.5 feet.

Ground water not encountered during drilling.

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LOG OF BORING PP524/B-5
SITE INVESTIGATION REPORT
DEPARTMENT OF TRANSPORTATION
INTERSTATE 880
CYPRESS RECONSTRUCTION
OAKLAND, CALIFORNIA

FIGURE
B-14

APPENDIX C

GROUND-WATER DEVELOPMENT LOGS AND SAMPLING LOGS

Geo/Resource Consultants, Inc.
GEOLOGISTS / ENGINEERS / ENVIRONMENTAL SCIENTISTS
851 HARRISON STREET, SAN FRANCISCO, CALIFORNIA 94107

WELL DEVELOPMENT LOG

DATE 6-26-92 MW I.D. PP800-W-1
PROJECT DoT Cypress PROJECT NO. 1689-019-00
WEATHER CONDITIONS Sunny Breezy 70°F
OBSERVATIONS/COMMENTS
DEVELOPMENT COMPLETED BY West Hazmat Drilling

QUALITY CONTROL

Development Method Surge & pump
Method to Measure Water Level Electric Sounder Equip Decon Steam clean
Comments Phoenix 800

DEVELOPMENT DATA

Water Level 7.17 Start 1500 End

Reference Point Top of Casing

Time	Pump Rate	Discharge (gallons)	Color	% Sediment /Time	Turbidity	Comments
1500						water level & set up
1501		1.0 gallons	orange Brown		Highly	Bail 1
1510						Begin Surge 1
1515						Begin Surge 1
1518		1.0 gallon	orange Brown		Highly	Bail 2
1520	2gpm					Begin Pump 1
1530		20 gallons	orange Brown		Highly	End Pump 1 -
					mod at 15 gal.	Ran dry
1531						Recharge 1
1533						End recharge 1
1534						Begin pump 2
1536	2.5gpm	5 gallons	orange Brown		mod T	Ran dry 2
1538						Begin Surge 2
1543						End Surge 2
1545	1gpm	10 gallons	orange Brown		mod T.	Begin pump 3
1555						Ran Dry
1556						Begin Cleanup.

Total Discharge 37 gallons Casing Volumes Extracted

24.95

Sheet ____ of ____

Geo/ Resource Consultants, Inc.
GEOLOGISTS / ENGINEERS / ENVIRONMENTAL SCIENTISTS
851 HARRISON STREET, SAN FRANCISCO, CALIFORNIA 94107

GROUND WATER SAMPLING LOG

DATE July 1, 1992 MW I.D. ~~[illegible]~~ - PP-W-1
PROJECT DOT Cypress PROJECT NO. 1688-014-00
WEATHER CONDITIONS Clear 70°F winds 5-10 NW
OBSERVATIONS/COMMENTS
SAMPLING COMPLETED BY Keith B Crazy

QUALITY CONTROL

Purging Method Bail Sampling Method Bail
Method to Measure Water Level Electric Sounder Equip Decon Liquinox wash, Double DI water wash
pH Meter see TSC-W-1
Calibration Start / Units / Time
Temperature Start / / Time
Calibration End / Units / Time
Temperature End / / Time
Comments

Conductivity Meter see TSC-W-1
Calibration Start Time
Temperature Start Time
Calibration End Time
Temperature End Time
Comments

SAMPLING DATA

Water Level 7.20' Start 13:55 End
Reference Point Top of Casing

	Time	Pump Rate	Discharge (gallons)	pH	Conductivity	Temp.	Comments (Color/Turb./Etc.)
1	1350						set-up
2	1355						water level
3	1405						Begin Purge
4	1410		2.0	7.30	720	20.8	
5	1415		3.0	6.81	780	20.5	
6	1420		3.0	6.78	750	19.5	
7	1425		3.0	6.74	700	19.0	
8	1428		3.0	6.70	700	19.5	
9	1432		2.0	6.64	710	19.4	-
10	1438						Begin Sampling
11	1455						End Sampling
12	1505						Clean-up
13							
14							
15							

Total Discharge Casing Volumes Extracted
Sheet of

APPENDIX D

LABORATORY ANALYTICAL RESULTS

EPA METHOD 418.1
TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

CLIENT:	Geo/Resource	**DATE REC'D:**	06/24/92
PROJECT:	Dot Cypress	**DATE EXTRACTED:**	06/30/92
CONTROL NO:	N9206-15	**DATE ANALYZED:**	06/30/92
MATRIX:	Soil		

SAMPLE ID:	CONTROL NO:	RESULTS (mg/kg)	DETECTION LIMIT (mg/kg)
[illegible]	~~N9206-15-12~~	~~1500~~	[illegible]
~~FC/B-4-5~~	~~N9206-15-13~~	~~1300~~	~~50~~
~~FC/B-4-8~~	~~N9206-15-14~~	~~5~~	~~5~~
~~A/H-1-2~~	~~N9206-15-1~~[illegible]	~~43~~	~~5~~
[illegible]	~~N9206-15-20~~	~~10~~	~~5~~
PP524/B-1-2	N9206-15-22	7	5
PP524/B-1-6	N9206-15-23	31	5
PP524/B-2-15	N9206-15-24	10	5
PP524/B-2-6	N9206-15-25	6	5
PP524/B-3-1.5	N9206-15-26	8	5
PP524/B-3-6	N9206-15-27	14	5
PP524/B-4-1.5	N9206-15-28	210	10
PP524/B-4-6	N9206-25-29	1200	150
PP524/B-5-1.5	N9206-25-30	250	5
PP524/B-5-6	N9206-25-31	31	5

QUALITY CONTROL DATA

CLIENT: Geo/Resource
PROJECT: Dot Cypress
CONTROL NO: N9206-15

METHOD EPA 418.1
MATRIX: Soil

SAMPLE ID: N9206-15-22

COMPOUND	SAMPLE RESULTS (mg/kg)	AMOUNT SPIKED (mg/kg)	% REC.	DUP. % REC.	RPD
IR REF STD	10	150	93	94	1

QUALITY CONTROL DATA

CLIENT: Geo/Resource
PROJECT: Dot Cypress
CONTROL NO: N9206-15

METHOD EPA 418.1
MATRIX: Soil

SAMPLE ID: N9206-15-14

COMPOUND	SAMPLE RESULTS (mg/kg)	AMOUNT SPIKED (mg/kg)	% REC.	DUP. % REC.	RPD
IR REF STD	5	150	104	104	0

QUALITY CONTROL DATA

CLIENT: Geo/Resource
PROJECT: Dot Cypress
CONTROL NO: N9206-15

METHOD EPA 418.1
MATRIX: Soil

SAMPLE ID: N9206-15-31

COMPOUND	SAMPLE RESULTS (mg/kg)	AMOUNT SPIKED (mg/kg)	% REC.	DUP. % REC.	RPD
IR REF STD	31	150	96	98	2

EPA METHOD 5030/Mod. 8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

CLIENT:	Geo/Resource	**DATE REC'D:**	06/24/92
PROJECT:	Dot Cypress	**DATE ANALYZED:**	06/27/92
CONTROL NO:	N9206-15	**MATRIX:**	Soil

SAMPLE ID:	CONTROL NO:	**RESULTS** (mg/kg)	**DET. LIMIT** (mg/kg)	**% SURRO** RECOVERY
~~CFC/H-1-2~~	~~N9206-15-15~~	~~ND~~	~~5.0~~	~~100~~
[illegible]	~~N9206-15-16~~	[illegible]	~~5.0~~	~~85~~
~~CFC/H-1-9~~	~~N9206-15-17~~	~~500~~	~~5.0~~	[illegible]
PP800/W-1-1.5	N9206-15-32	ND	5.0	80
PP800/W-1-6	N9206-15-33	ND	5.0	78
PP800/W-1-8	N9206-15-34	ND	5.0	114

EPA METHOD 5030/Mod. 8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

CLIENT:	Geo/Resource	**DATE REC'D:**	06/25/92
PROJECT:	Dot Cypress	**DATE ANALYZED:**	06/27/92
CONTROL NO:	N9206-19	**MATRIX:**	Soil

SAMPLE ID:	CONTROL NO:	**RESULTS** (mg/kg)	**DET. LIMIT** (mg/kg)	**% SURRO** RECOVERY
PP800/H-1-1.5	N9206-19-1	10	1.0	114
PP800/H-1-4	N9206-19-2	17	1.0	75
PP800/H-1-7.5	N9206-19-3	ND	1.0	77

EPA METHOD Mod. 8015
TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

CLIENT: Geo/Resource
PROJECT: Dot Cypress
CONTROL NO: N9206-15
MATRIX: Soil

DATE REC'D: 06/24/92
DATE EXTRACTED: 06/24/92
DATE ANALYZED: 06/24/92

SAMPLE ID:	CONTROL NO:	RESULTS (mg/kg)	H-C RANGE
~~MC1/H-1-8~~	~~N9206-15-1~~	~~ND~~	~~N.A.~~
~~MC1/H-1-16~~	~~N9206-15-2~~	~~ND~~	~~N.A.~~
~~MC1/H-1-21~~	~~N9206-15-3~~	~~ND~~	~~N.A.~~
~~FS/W-1-2~~	~~N9206-15-5~~	~~ND~~	~~N.A.~~
~~FS/W-1-5~~	~~N9206-15-6~~	~~ND~~	~~N.A.~~
~~FS/W-1-8~~	~~N9206-15-7~~	~~ND~~	~~N.A.~~
~~FS/H-1-2~~	~~N9206-15-8~~	~~ND~~	~~N.A.~~
~~FS/H-1-5~~	~~N9206-15-9~~	~~ND~~	~~N.A.~~
~~FS/H-1-8~~	~~N9206-15-10~~	~~ND~~	~~N.A.~~
PP800/W-1-1.5	N9206-15-32	ND	N.A.
PP800/W-1-6	N9206-15-33	ND	N.A.
PP800/W-1-8	N9206-15-34	ND	N.A.

DETECTION LIMIT: 5.0 mg/kg

EPA METHOD Mod. 8015
TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

CLIENT:	Geo/Resource	**DATE REC'D:**	06/24/92
PROJECT:	Dot Cypress	**DATE EXTRACTED:**	96/24/92
CONTROL NO:	N9206-16	**DATE ANALYZED:**	06/24/92
MATRIX:	Soil		

SAMPLE ID:	CONTROL NO:	**RESULTS** (mg/kg)	**H-C RANGE**
PP800/B-1-1.5	N9206-16-13	1600	C12-C24
PP800/B-1-4	N9206-16-14	ND	N.A.
PP800/B-1-7.5	N9206-16-15	ND	N.A.

DETECTION LIMIT: 5.0 mg/kg

EPA METHOD Mod. 8015
TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

CLIENT:	Geo/Resource	**DATE REC'D:**	06/25/92
PROJECT:	Dot Cypress	**DATE EXTRACTED:**	06/25/92
CONTROL NO:	N9206-19	**DATE ANALYZED:**	06/25/92
MATRIX:	Soil		

SAMPLE ID:	CONTROL NO:	**RESULTS** (mg/kg)	**H-C RANGE**
PP800/H-1-1.5	N9206-19-1	1600	C12-C24
PP800/H-1-4	N9206-19-2	2400	C12-C24
PP800/H-1-7.5	N9206-19-3	ND	N.A.
~~CTF/B-1-1.5~~	~~N9206-19-5~~	~~ND~~	N.A.
CTF/B-1-4	N9206-19-6	ND	N.A.
CTF/B-1-8	N9206-19-7	ND	N.A.
CTF/B-2-0.5	N9206-19-8	ND	N.A.
CTF/B-2-3	N9206-19-9	ND	N.A.
CTF/B-3-1.5	N9206-19-11	ND	N.A.
CTF/B-3-3	N9206-19-12	ND	N.A.
CTF/H-1-1.5	N9206-19-13	ND	N.A.
CTF/H-1-3	N9206-19-14	ND	N.A.

DETECTION LIMIT: 5.0 mg/kg

QUALITY CONTROL DATA

CLIENT: Geo/Resource
PROJECT: Dot Cypress
CONTROL NO: N9206-15

METHOD EPA M8015G
MATRIX: Soil

SAMPLE ID: N9206-15-32

COMPOUND	SAMPLE RESULTS (mg/kg)	AMOUNT SPIKED (mg/kg)	% REC.	DUP. % REC.	RPD
Gasoline	ND	2	105	120	13

QUALITY CONTROL DATA

CLIENT: Geo/Resource
PROJECT: Dot Cypress
CONTROL NO: N9206-19

METHOD EPA M8015G
MATRIX: Soil

SAMPLE ID: N9206-25-6

COMPOUND	SAMPLE RESULTS (mg/kg)	AMOUNT SPIKED (mg/kg)	% REC.	DUP. % REC.	RPD
Gasoline	ND	2	65	75	14

EPA 3050/6010/7000
TTLC CAM METALS BY ICP/AAS

CLIENT:	Geo/Resource	**DATE REC'D:**	06/24/92
PROJECT:	Dot Cypress	**DATE EXTRACTED:**	06/25/92
SAMPLE ID:	PP524/B-1-2	**DATE ANALYZED:**	06/26/92
CONTROL NO:	N9206-15-22	**MATRIX:**	Soil

PARAMETERS	**RESULTS (mg/kg)**	**DETECTION LIMIT (mg/kg)**
Antimony	ND	5.0
Arsenic	ND	10
Barium	30	2.5
Beryllium	ND	0.50
Cadmium	2	0.50
Chromium - Total	27	0.50
Cobalt	3.3	1.0
Copper	5.7	0.50
Lead	9.5	5.0
Mercury	ND	0.05
Molybdenum	ND	0.50
Nickel	14	2.5
Selenium	ND	10
Silver	ND	0.50
Thallium	ND	10
Vanadium	21	1.0
Zinc	15	0.50

EPA 3050/6010/7000
TTLC CAM METALS BY ICP/AAS

CLIENT:	Geo/Resource	**DATE REC'D:**	06/24/92
PROJECT:	Dot Cypress	**DATE EXTRACTED:**	06/25/92
SAMPLE ID:	PP524/B-1-6	**DATE ANALYZED:**	06/26/92
CONTROL NO:	N9206-15-23	**MATRIX:**	Soil

PARAMETERS	**RESULTS (mg/kg)**	**DETECTION LIMIT (mg/kg)**
Antimony	5.6	5.0
Arsenic	21	10
Barium	67	2.5
Beryllium	.81	0.50
Cadmium	5.2	0.50
Chromium - Total	57	0.50
Cobalt	2.9	1.0
Copper	8.4	0.50
Lead	25	5.0
Mercury	.09	0.05
Molybdenum	ND	0.50
Nickel	27	2.5
Selenium	ND	10
Silver	ND	0.50
Thallium	ND	10
Vanadium	47	1.0
Zinc	21	0.50

EPA 3050/6010/7000
TTLC CAM METALS BY ICP/AAS

CLIENT:	Geo/Resource	**DATE REC'D:**	06/24/92
PROJECT:	Dot Cypress	**DATE EXTRACTED:**	06/25/92
SAMPLE ID:	PP524/B-2-1.5	**DATE ANALYZED:**	06/26/92
CONTROL NO:	N9206-15-24	**MATRIX:**	Soil

PARAMETERS	**RESULTS (mg/kg)**	**DETECTION LIMIT (mg/kg)**
Antimony	6.5	5.0
Arsenic	ND	10
Barium	47	2.5
Beryllium	ND	0.50
Cadmium	2.1	0.50
Chromium - Total	28	0.50
Cobalt	4.5	1.0
Copper	8.5	0.50
Lead	13	5.0
Mercury	ND	0.05
Molybdenum	ND	0.50
Nickel	15	2.5
Selenium	ND	10
Silver	ND	0.50
Thallium	ND	10
Vanadium	21	1.0
Zinc	17	0.50

EPA 3050/6010/7000
TTLC CAM METALS BY ICP/AAS

CLIENT:	Geo/Resource	**DATE REC'D:**	06/24/92
PROJECT:	Dot Cypress	**DATE EXTRACTED:**	06/25/92
SAMPLE ID:	PP524/B-2-6	**DATE ANALYZED:**	06/26/92
CONTROL NO:	N9206-15-25	**MATRIX:**	Soil

PARAMETERS	**RESULTS (mg/kg)**	**DETECTION LIMIT (mg/kg)**
Antimony	ND	5.0
Arsenic	12	10
Barium	68	2.5
Beryllium	.64	0.50
Cadmium	4	0.50
Chromium - Total	44	0.50
Cobalt	7.4	1.0
Copper	14	0.50
Lead	17	5.0
Mercury	ND	0.05
Molybdenum	ND	0.50
Nickel	40	2.5
Selenium	ND	10
Silver	ND	0.50
Thallium	ND	10
Vanadium	35	1.0
Zinc	29	0.50

EPA 3050/6010/7000
TTLC CAM METALS BY ICP/AAS

CLIENT:	Geo/Resource	**DATE REC'D:**	06/24/92
PROJECT:	Dot Cypress	**DATE EXTRACTED:**	06/25/92
SAMPLE ID:	PP524/B-3-1.5	**DATE ANALYZED:**	06/26/92
CONTROL NO:	N9206-15-26	**MATRIX:**	Soil

PARAMETERS	**RESULTS (mg/kg)**	**DETECTION LIMIT (mg/kg)**
Antimony	6	5.0
Arsenic	ND	10
Barium	51	2.5
Beryllium	.51	0.50
Cadmium	2.8	0.50
Chromium - Total	29	0.50
Cobalt	4.9	1.0
Copper	11	0.50
Lead	18	5.0
Mercury	ND	0.05
Molybdenum	ND	0.50
Nickel	18	2.5
Selenium	ND	10
Silver	ND	0.50
Thallium	ND	10
Vanadium	23	1.0
Zinc	23	0.50

EPA 3050/6010/7000
TTLC CAM METALS BY ICP/AAS

CLIENT:	Geo/Resource	**DATE REC'D:**	06/24/92
PROJECT:	Dot Cypress	**DATE EXTRACTED:**	06/25/92
SAMPLE ID:	PP524/B-3-6	**DATE ANALYZED:**	06/29/92
CONTROL NO:	N9206-15-27	**MATRIX:**	Soil

PARAMETERS	**RESULTS (mg/kg)**	**DETECTION LIMIT (mg/kg)**
Antimony	6.1	5.0
Arsenic	10	10
Barium	73	2.5
Beryllium	.65	0.50
Cadmium	4.8	0.50
Chromium - Total	52	0.50
Cobalt	5.4	1.0
Copper	11	0.50
Lead	18	5.0
Mercury	ND	0.05
Molybdenum	.70	0.50
Nickel	42	2.5
Selenium	ND	10
Silver	ND	0.50
Thallium	16	10
Vanadium	41	1.0
Zinc	31	0.50

EPA 3050/6010/7000
TTLC CAM METALS BY ICP/AAS

CLIENT:	Geo/Resource	**DATE REC'D:**	06/24/92
PROJECT:	Dot Cypress	**DATE EXTRACTED:**	06/25/92
SAMPLE ID:	PP524/B-4-1.5	**DATE ANALYZED:**	06/29/92
CONTROL NO:	N9206-15-28	**MATRIX:**	Soil

PARAMETERS	**RESULTS (mg/kg)**	**DETECTION LIMIT (mg/kg)**
Antimony	7.9	5.0
Arsenic	19	10
Barium	160	2.5
Beryllium	.55	0.50
Cadmium	9.7	0.50
Chromium - Total	120	0.50
Cobalt	7.3	1.0
Copper	120	0.50
Lead	1100	5.0
Mercury	.24	0.05
Molybdenum	2.8	0.50
Nickel	30	2.5
Selenium	ND	10
Silver	ND	0.50
Thallium	ND	10
Vanadium	32	1.0
Zinc	500	0.50

EPA 3050/6010/7000
TTLC CAM METALS BY ICP/AAS

CLIENT:	Geo/Resource	**DATE REC'D:**	06/24/92
PROJECT:	Dot Cypress	**DATE EXTRACTED:**	06/25/92
SAMPLE ID:	PP524/B-4-6	**DATE ANALYZED:**	06/29/92
CONTROL NO:	N9206-15-29	**MATRIX:**	Soil

PARAMETERS	**RESULTS (mg/kg)**	**DETECTION LIMIT (mg/kg)**
Antimony	55	5.0
Arsenic	22	10
Barium	970	2.5
Beryllium	.55	0.50
Cadmium	30	0.50
Chromium - Total	150	0.50
Cobalt	11	1.0
Copper	250	0.50
Lead	3500	5.0
Mercury	.66	0.05
Molybdenum	5.6	0.50
Nickel	57	2.5
Selenium	ND	10
Silver	ND	0.50
Thallium	ND	10
Vanadium	37	1.0
Zinc	2300	0.50

EPA 3050/6010/7000
TTLC CAM METALS BY ICP/AAS

CLIENT:	Geo/Resource	**DATE REC'D:**	06/24/92
PROJECT:	Dot Cypress	**DATE EXTRACTED:**	06/25/92
SAMPLE ID:	PP524/B-5-1.5	**DATE ANALYZED:**	06/29/92
CONTROL NO:	N9206-15-30	**MATRIX:**	Soil

PARAMETERS	**RESULTS (mg/kg)**	**DETECTION LIMIT (mg/kg)**
Antimony	12	5.0
Arsenic	15	10
Barium	540	2.5
Beryllium	.55	0.50
Cadmium	12	0.50
Chromium - Total	75	0.50
Cobalt	9	1.0
Copper	130	0.50
Lead	23000	5.0
Mercury	1	0.05
Molybdenum	1.7	0.50
Nickel	40	2.5
Selenium	ND	10
Silver	ND	0.50
Thallium	ND	10
Vanadium	29	1.0
Zinc	1400	0.50

EPA 3050/6010/7000
TTLC CAM METALS BY ICP/AAS

CLIENT:	Geo/Resource	**DATE REC'D:**	06/24/92
PROJECT:	Dot Cypress	**DATE EXTRACTED:**	06/25/92
SAMPLE ID:	PP524/B-5-6	**DATE ANALYZED:**	06/29/92
CONTROL NO:	N9206-15-31	**MATRIX:**	Soil

PARAMETERS	**RESULTS (mg/kg)**	**DETECTION LIMIT (mg/kg)**
Antimony	6	5.0
Arsenic	12	10
Barium	51	2.5
Beryllium	.55	0.50
Cadmium	4.3	0.50
Chromium - Total	36	0.50
Cobalt	5.9	1.0
Copper	9.3	0.50
Lead	20	5.0
Mercury	ND	0.05
Molybdenum	ND	0.50
Nickel	33	2.5
Selenium	ND	10
Silver	ND	0.50
Thallium	13	10
Vanadium	29	1.0
Zinc	26	0.50

LABORATORY CONTROL SAMPLE

CLIENT: Geo/Resource
PROJECT: Dot Cypress
CONTROL NO: N9206-15

METHOD EPA 3050/6010
MATRIX: Soil

LOT NO:: 212

COMPOUND	FOUND (mg/kg)	TRUE VALUE (mg/kg)	% REC
Thallium	96	99	97
Molybdenum	15	16	94
Antimony	61	52	117
Zinc	57	53	108
Lead	84	74	114
Cadmium	95	109	87
Cobalt	194	211	92
Barium	129	134	96
Nickel	27	28	96
Vanadium	73	57	128
Beryllium	14	15	93
Copper	21	20	105
Silver	33	37	89

QUALITY CONTROL DATA

CLIENT: Geo/Resource
PROJECT: Dot Cypress
CONTROL NO: N9206-15

METHOD EPA 3050/6010
MATRIX: Soil

SAMPLE ID: N9206-11-15

COMPOUND	SAMPLE RESULTS (mg/kg)	AMOUNT SPIKED (mg/kg)	% REC.	DUP. % REC.	RPD
Lead	9.5	100	87	87	0
Barium	30	100	92	91	1
Thallium	ND	100	94	97	3
Cadmium	2	100	85	83	2
Nickel	14	100	96	90	6
Cobalt	3.3	100	93	87	7
Chromium	27	100	96	89	8

EPA 3050/6010/7000
TTLC CAM METALS BY ICP/AAS

CLIENT:	Geo/Resource	**DATE REC'D:**	06/22/92
PROJECT:	Dot Cypress	**DATE EXTRACTED:**	06/25/92
SAMPLE ID:	PP/B-1-1	**DATE ANALYZED:**	06/26/92
CONTROL NO:	N9206-12-26	**MATRIX:**	Soil

PARAMETERS	**RESULTS (mg/kg)**	**DETECTION LIMIT (mg/kg)**
Antimony	8.4	5.0
Arsenic	35	10
Barium	280	2.5
Beryllium	.56	0.50
Cadmium	12	0.50
Chromium - Total	39	0.50
Cobalt	10	1.0
Copper	89	0.50
— Mercury	.33	0.05
—Lead	3600	5.0
Molybdenum	1.1	0.50
Nickel	30	2.5
Selenium	ND	10
Silver	ND	0.50
Thallium	ND	10
Vanadium	26	1.0
Zinc	500	0.50

EPA 3050/6010/7000
TTLC CAM METALS BY ICP/AAS

CLIENT:	Geo/Resource	**DATE REC'D:**	06/22/92
PROJECT:	Dot Cypress	**DATE EXTRACTED:**	06/25/92
SAMPLE ID:	PP/B-1-3	**DATE ANALYZED:**	06/26/92
CONTROL NO:	N9206-12-27	**MATRIX:**	Soil

PARAMETERS	**RESULTS (mg/kg)**	**DETECTION LIMIT (mg/kg)**
Antimony	ND	5.0
Arsenic	ND	10
Barium	47	2.5
Beryllium	.51	0.50
Cadmium	2.6	0.50
Chromium - Total	29	0.50
Cobalt	5.1	1.0
Copper	6.5	0.50
Mercury	ND	0.05
Lead	11	5.0
Molybdenum	.80	0.50
Nickel	18	2.5
Selenium	ND	10
Silver	ND	0.50
Thallium	ND	10
Vanadium	22	1.0
Zinc	18	0.50

EPA 3050/6010/7000
TTLC CAM METALS BY ICP/AAS

CLIENT:	Geo/Resource	**DATE REC'D:**	06/22/92
PROJECT:	Dot, Cypress	**DATE EXTRACTED:**	06/25/92
SAMPLE ID:	PP 7A /B-2-1	**DATE ANALYZED:**	06/26/92
CONTROL NO:	N9206-12-28	**MATRIX:**	Soil

PARAMETERS	**RESULTS (mg/kg)**	**DETECTION LIMIT (mg/kg)**
Antimony	ND	5.0
Arsenic	ND	10
Barium	50	2.5
Beryllium	ND	0.50
Cadmium	2.5	0.50
Chromium - Total	30	0.50
Cobalt	4.9	1.0
Copper	6.4	0.50
Lead	12	5.0
Mercury	ND	0.05
Molybdenum	ND	0.50
Nickel	15	2.5
Selenium	ND	10
Silver	ND	0.50
Thallium	16	10
Vanadium	22	1.0
Zinc	16	0.50

EPA 3050/6010/7000
TTLC CAM METALS BY ICP/AAS

CLIENT: Geo/Resource
PROJECT: Dot Cypress
SAMPLE ID: PP/B-2-3
CONTROL NO: N9206-12-29
DATE REC'D: 06/22/92
DATE EXTRACTED: 06/25/92
DATE ANALYZED: 06/26/92
MATRIX: Soil

PARAMETERS	**RESULTS (mg/kg)**	**DETECTION LIMIT (mg/kg)**
Antimony	5.8	5.0
Arsenic	ND	10
Barium	50	2.5
Beryllium	.50	0.50
Cadmium	2.4	0.50
Chromium - Total	29	0.50
Cobalt	5.4	1.0
Copper	7	0.50
Lead	11	5.0
Mercury	ND	0.05
Molybdenum	ND	0.50
Nickel	19	2.5
Selenium	ND	10
Silver	ND	0.50
Thallium	ND	10
Vanadium	21	1.0
Zinc	17	0.50

EPA 3050/6010/7000
TTLC CAM METALS BY ICP/AAS

CLIENT:	Geo/Resource	**DATE REC'D:**	06/22/92
PROJECT:	Dot Cypress	**DATE EXTRACTED:**	06/25/92
SAMPLE ID:	PP7B-3-1	**DATE ANALYZED:**	06/26/92
CONTROL NO:	N9206-12-30	**MATRIX:**	Soil

PARAMETERS	**RESULTS (mg/kg)**	**DETECTION LIMIT (mg/kg)**
Antimony	5.3	5.0
Arsenic	10	10
Barium	150	2.5
Beryllium	.50	0.50
Cadmium	2.6	0.50
Chromium - Total	29	0.50
Cobalt	5.5	1.0
Copper	24	0.50
Lead	160	5.0
Mercury	.18	0.05
Molybdenum	.60	0.50
Nickel	21	2.5
Selenium	ND	10
Silver	ND	0.50
Thallium	ND	10
Vanadium	23	1.0
Zinc	160	0.50

EPA 3050/6010/7000
TTLC CAM METALS BY ICP/AAS

CLIENT:	Geo/Resource	**DATE REC'D:**	06/22/92
PROJECT:	Dot Cypress	**DATE EXTRACTED:**	06/25/92
SAMPLE ID:	PP/B-3-3	**DATE ANALYZED:**	06/26/92
CONTROL NO:	N9206-12-31	**MATRIX:**	Soil

PARAMETERS	**RESULTS** (mg/kg)	**DETECTION LIMIT** (mg/kg)
Antimony	ND	5.0
Arsenic	ND	10
Barium	46	2.5
Beryllium	ND	0.50
Cadmium	2.4	0.50
Chromium - Total	27	0.50
Cobalt	4.5	1.0
Copper	6.8	0.50
Lead	10	5.0
Mercury	ND	0.05
Molybdenum	ND	0.50
Nickel	18	2.5
Selenium	ND	10
Silver	ND	0.50
Thallium	ND	10
Vanadium	22	1.0
Zinc	16	0.50

EPA 3050/6010/7000
TTLC CAM METALS BY ICP/AAS

CLIENT:	Geo/Resource	**DATE REC'D:**	06/22/92
PROJECT:	Dot Cypress	**DATE EXTRACTED:**	06/25/92
SAMPLE ID:	PP76/B-4-1	**DATE ANALYZED:**	06/26/92
CONTROL NO:	N9206-12-32	**MATRIX:**	Soil

PARAMETERS	**RESULTS (mg/kg)**	**DETECTION LIMIT (mg/kg)**
Antimony	ND	5.0
Arsenic	10	10
Barium	170	2.5
Beryllium	.50	0.50
Cadmium	2.8	0.50
Chromium - Total	30	0.50
Cobalt	5.5	1.0
Copper	23	0.50
Lead	170	5.0
Mercury	.28	0.05
Molybdenum	.80	0.50
Nickel	19	2.5
Selenium	ND	10
Silver	ND	0.50
Thallium	ND	10
Vanadium	22	1.0
Zinc	110	0.50

EPA 3050/6010/7000
TTLC CAM METALS BY ICP/AAS

CLIENT:	Geo/Resource	**DATE REC'D:**	06/22/92
PROJECT:	Dot Cypress	**DATE EXTRACTED:**	06/25/92
SAMPLE ID:	PP/B-4-3	**DATE ANALYZED:**	06/26/92
CONTROL NO:	N9206-12-33	**MATRIX:**	Soil

PARAMETERS	**RESULTS (mg/kg)**	**DETECTION LIMIT (mg/kg)**
Antimony	5.1	5.0
Arsenic	ND	10
Barium	45	2.5
Beryllium	ND	0.50
Cadmium	2.8	0.50
Chromium - Total	27	0.50
Cobalt	5.3	1.0
Copper	9.5	0.50
Lead	9	5.0
Mercury	.07	0.05
Molybdenum	ND	0.50
Nickel	16	2.5
Selenium	ND	10
Silver	ND	0.50
Thallium	11	10
Vanadium	22	1.0
Zinc	18	0.50

EPA 3050/6010/7000
TTLC CAM METALS BY ICP/AAS

CLIENT:	Geo/Resource	**DATE REC'D:**	06/22/92
PROJECT:	Dot Cypress	**DATE EXTRACTED:**	06/25/92
SAMPLE ID:	PP/B-5-1	**DATE ANALYZED:**	06/26/92
CONTROL NO:	N9206-12-34	**MATRIX:**	Soil

PARAMETERS	RESULTS (mg/kg)	DETECTION LIMIT (mg/kg)
Antimony	ND	5.0
Arsenic	ND	10
Barium	200	2.5
Beryllium	.55	0.50
Cadmium	4.9	0.50
Chromium - Total	28	0.50
Cobalt	5.1	1.0
Copper	30	0.50
Lead	390	5.0
Mercury	.58	0.05
Molybdenum	1.2	0.50
Nickel	19	2.5
Selenium	ND	10
Silver	ND	0.50
Thallium	ND	10
Vanadium	27	1.0
Zinc	170	0.50

EPA 3050/6010/7000
TTLC CAM METALS BY ICP/AAS

CLIENT:	Geo/Resource	**DATE REC'D:**	06/22/92
PROJECT:	Dot.Cypress	**DATE EXTRACTED:**	06/25/92
SAMPLE ID:	PP/B-5-3	**DATE ANALYZED:**	06/26/92
CONTROL NO:	N9206-12-35	**MATRIX:**	Soil

PARAMETERS	**RESULTS (mg/kg)**	**DETECTION LIMIT (mg/kg)**
Antimony	ND	5.0
Arsenic	ND	10
Barium	72	2.5
Beryllium	ND	0.50
Cadmium	2.9	0.50
Chromium - Total	27	0.50
Cobalt	4.6	1.0
Copper	18	0.50
Lead	110	5.0
Mercury	.07	0.05
Molybdenum	.60	0.50
Nickel	17	2.5
Selenium	ND	10
Silver	ND	0.50
Thallium	ND	10
Vanadium	24	1.0
Zinc	67	0.50

EPA 3050/6010/7000
TTLC CAM METALS BY ICP/AAS

CLIENT:	Geo/Resource	**DATE REC'D:**	06/22/92
PROJECT:	Dot Cypress	**DATE EXTRACTED:**	06/25/92
SAMPLE ID:	PP/B-6-1	**DATE ANALYZED:**	06/26/92
CONTROL NO:	N9206-12-36	**MATRIX:**	Soil

PARAMETERS	**RESULTS (mg/kg)**	**DETECTION LIMIT (mg/kg)**
Antimony	ND	5.0
Arsenic	ND	10
Barium	41	2.5
Beryllium	ND	0.50
Cadmium	2.3	0.50
Chromium - Total	28	0.50
Cobalt	4.9	1.0
Copper	9.9	0.50
Lead	24	5.0
Mercury	.07	0.05
Molybdenum	.50	0.50
Nickel	16	2.5
Selenium	ND	10
Silver	ND	0.50
Thallium	11	10
Vanadium	22	1.0
Zinc	25	0.50

EPA 3050/6010/7000
TTLC CAM METALS BY ICP/AAS

CLIENT:	Geo/Resource	**DATE REC'D:**	06/22/92
PROJECT:	Dot Cypress	**DATE EXTRACTED:**	06/25/92
SAMPLE ID:	PP/B-6-3 756	**DATE ANALYZED:**	06/26/92
CONTROL NO:	N9206-12-37	**MATRIX:**	Soil

PARAMETERS	**RESULTS (mg/kg)**	**DETECTION LIMIT (mg/kg)**
Antimony	ND	5.0
Arsenic	ND	10
Barium	57	2.5
Beryllium	ND	0.50
Cadmium	1.8	0.50
Chromium - Total	27	0.50
Cobalt	4	1.0
Copper	8.1	0.50
Lead	15	5.0
Mercury	ND	0.05
Molybdenum	.70	0.50
Nickel	17	2.5
Selenium	ND	10
Silver	ND	0.50
Thallium	10	10
Vanadium	21	1.0
Zinc	20	0.50

EPA 3050/6010/7000
TTLC CAM METALS BY ICP/AAS

CLIENT:	Geo/Resource	**DATE REC'D:**	06/22/92
PROJECT:	Dot Cypress	**DATE EXTRACTED:**	06/25/92
SAMPLE ID:	Method Blank	**DATE ANALYZED:**	06/26/92
CONTROL NO:	N9206-12	**MATRIX:**	Soil

PARAMETERS	**RESULTS (mg/kg)**	**DETECTION LIMIT (mg/kg)**
Antimony	ND	5.0
Arsenic	ND	10
Barium	ND	2.5
Beryllium	ND	0.50
Cadmium	ND	0.50
Chromium - Total	.70	0.50
Cobalt	ND	1.0
Copper	1.1	0.50
Lead	ND	5.0
Mercury	ND	0.05
Molybdenum	ND	0.50
Nickel	ND	2.5
Selenium	ND	10
Silver	ND	0.50
Thallium	ND	10
Vanadium	ND	1.0
Zinc	1.4	0.50

LABORATORY CONTROL SAMPLE

CLIENT: Geo/Resource
PROJECT: Dot Cypress
CONTROL NO: N9206-12

METHOD EPA 3050/6010
MATRIX: Soil

LOT NO:: 212

COMPOUND	FOUND (mg/kg)	TRUE VALUE (mg/kg)	% REC
Thallium	96	99	97
Molyddenum	15	16	94
Antimony	61	52	117
Zinc	57	53	108
Lead	84	74	114
Cadmium	95	109	87
Cobalt	194	211	92
Barium	129	134	96
Nickel	27	28	96
Vanadium	73	57	128
Beryllium	14	15	93
Copper	21	20	105
Silver	33	37	89

QUALITY CONTROL DATA

CLIENT: Geo/Resource
PROJECT: Dot Cypress
CONTROL NO: N9206-12

METHOD EPA 3050/6010
MATRIX: Soil

SAMPLE ID: N9206-12-8

COMPOUND	SAMPLE RESULTS (mg/kg)	AMOUNT SPIKED (mg/kg)	% REC.	DUP. % REC.	RPD
Lead	9	100	92	90	2
Barium	45	100	96	98	2
Thallium	11	100	81	82	1
Cadmium	2.8	100	84	87	4
Nickel	16	100	94	94	0
Cobalt	5.3	100	92	96	4
Chromium	28	100	87	73	18

WET/EPA 3010/6010
STLC LEAD

CLIENT: Geo/Resource
PROJECT: Dot Cypress
CONTROL NO: N9206-12
MATRIX: Soil

DATE REC'D: 06/22/92
DATE EXTRACTED: 07/28/92
DATE ANALYZED: 07/30/92

SAMPLE ID:	CONTROL NO:	RESULTS (mg/L)	DETECTION LIMIT (mg/L)
Method Blank	N9206-12	.10	.10
PP/B-3-1	N9206-12-30	8	.10
PP/B-4-1	N9206-12-32	13	.10
PP/B-5-1	N9206-12-34	31	.10

QUALITY CONTROL DATA

CLIENT: Geo/Resource
PROJECT: Dot Cypress
CONTROL NO: N9206-12

METHOD EPA 3010
MATRIX: Soil

SAMPLE ID: N9206-24-4

COMPOUND	SAMPLE RESULTS (mg/L)	AMOUNT SPIKED (mg/L)	% REC.	DUP. % REC.	RPD
Lead	.47	1	79	76	4

WET/EPA 3010/6010/7000
STLC METALS by ICP/AA

CLIENT: Geo/Resource
PROJECT: Dot Cypress
CONTROL NO: N9206-15

DATE REC'D: 06/24/92
DATE EXTRACTED: 07/28/92
DATE ANALYZED: 07/30/92

		RESULTS	**(mg/L)**	**DET. LIMIT**
SAMPLE ID:	CONTROL NO:	Hg	Cu	(mg/L)
CFC/B-4-2	N9206-15-12	ND		.0002
PP524/B-4-6	N9206-25-29		1.3	.01

QUALITY CONTROL DATA

CLIENT:	Geo/Resource
PROJECT:	Dot Cypress
CONTROL NO:	N9206-15

METHOD	EPA 3010
MATRIX:	Soil

SAMPLE ID: Blank

COMPOUND	SAMPLE RESULTS (mg/L)	AMOUNT SPIKED (mg/L)	% REC.	DUP. % REC.	RPD
Copper	.02	1	74	80	8

METHOD	EPA 7470
MATRIX:	Soil

SAMPLE ID: N9206-15-12

COMPOUND	SAMPLE RESULTS (mg/L)	AMOUNT SPIKED (mg/L)	% REC.	DUP. % REC.	RPD
Mercury	ND	.50	90	94	4

EPA METHOD 5030/Mod. 8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

CLIENT:	Geo/Resource	**DATE REC'D:**	06/25/92
PROJECT:	Dot Cypress	**DATE ANALYZED:**	06/26/92
CONTROL NO:	N9206-19	**MATRIX:**	Water

SAMPLE ID:	CONTROL NO:	**RESULTS** (mg/L)	**DET. LIMIT** (mg/L)	**% SURRO** RECOVERY
PP800/H-1	N9206-19-4	ND	0.1	120

EPA METHOD Mod. 8015
TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

CLIENT: Geo/Resource
PROJECT: Dot Cypress
CONTROL NO: N9206-19
MATRIX: Water

DATE REC'D: 06/25/92
DATE EXTRACTED: 06/25/92
DATE ANALYZED: 06/25/92

SAMPLE ID:	CONTROL NO:	**RESULTS** (mg/L)	**H-C RANGE**
PP800/H-1	N9206-19-4	ND	N.A.
[redacted]	[redacted]	[redacted]	[redacted]

DETECTION LIMIT: 1.0 mg/L

EPA METHOD Mod. 8015
TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

CLIENT: Geo/Resource
PROJECT: Dot Cypress
CONTROL NO: N9207-03
MATRIX: Water

DATE REC'D: 07/02/92
DATE EXTRACTED: 07/03/92
DATE ANALYZED: 07/03/92

SAMPLE ID:	CONTROL NO:	RESULTS (mg/L)	H-C RANGE
~~TSC W-1~~	~~N9207-03-1~~	~~ND~~	~~N.A.~~
~~FS-W-1~~	~~N9207-03-2~~	~~ND~~	~~N.A.~~
PP800/W-1	N9207-03-3	ND	N.A.
~~CDF W-2~~	~~N9207-03-5~~	~~ND~~	~~N.A.~~

DETECTION LIMIT: 1.0 mg/kg

EPA METHOD 5030/Mod. 8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

CLIENT:	Geo/Reosource	**DATE REC'D:**	07/02/92
PROJECT:	Dot Cypress	**DATE ANALYZED:**	07/06/92
CONTROL NO:	N9207-03	**MATRIX:**	Water

SAMPLE ID:	CONTROL NO:	**RESULTS** (mg/L)	**DET. LIMIT** (mg/L)	**% SURRO** RECOVERY
~~TSC-W-1~~	~~N9207-03-1~~	~~1.3~~	~~1.0~~	~~80~~
PP800/W-1	N9207-03-3	ND	1.0	65

QUALITY CONTROL DATA

CLIENT:	Geo/Resource
PROJECT:	Dot Cypress
CONTROL NO:	N9206-19

==

METHOD	EPA M8015G
MATRIX:	Water

SAMPLE ID:	Blank

COMPOUND	SAMPLE RESULTS (mg/L)	AMOUNT SPIKED (mg/L)	% REC.	DUP. % REC.	RPD
Gasoline	ND	2	80	70	13

Geo/Resource Consultants, Inc.
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851 HARRISON STREET, SAN FRANCISCO, CALIFORNIA 94107

CHAIN OF CUSTODY RECORD

PROJECT NO. 1689-019
DATE 6/12/92 PAGE 2 OF 3

PROJECT NAME CYPRESS
Client CALTRANS
Address
SAMPLERS (SIGNATURE) [illegible] Jackson
LABORATORY

ANALYSIS REQUESTED

SAMPLE NO.	DATE	TIME	LOCATION	EPA NO. 6010	EPA NO. 8015-D	EPA NO.	EPA NO.	EPA NO.	NO. OF CONTAINERS	COMMENTS/ CONTAINER TYPE
[illegible]-3-1'	6/12/92	1405	Phoenix 766 Cedar	✓					1	Soil - Steel tube
[illegible]-3-3'		1410	Phoenix 766 Cedar	✓					1	
[illegible]-4-1'		1410	Phoenix 766 Cedar	✓					1	
[illegible] 4-3'		1420	Phoenix 766 Cedar	✓					1	
[illegible]-5-1'		1425	Phoenix 766 Cedar	✓					1	
[illegible]-5-3'		1430	Phoenix 766 Cedar	✓					1	
[illegible]-6-1'		1435	Phoenix 766 Cedar	✓					1	
[illegible] 1-3'		1440	Phoenix 766 Cedar	✓					1	
~~[illegible]~~		~~1505~~	~~Fire Station #3~~		~~✓~~				~~1~~	
~~[illegible] 10-1-1'~~		~~1510~~	~~Fire Station #3~~		~~✓~~				~~1~~	

10 TOTAL NUMBER OF CONTAINERS

1 RELINQUISHED BY:
Signature
Printed Name
Company
DATE 6/12/92
TIME 1410

2 RECEIVED BY:
Signature
Printed Name
Company
DATE 6/[illegible]
TIME [illegible]

3 RELINQUISHED BY:
Signature
Printed Name
Company
DATE
TIME

4 RECEIVED BY:
Signature
Printed Name
Company
DATE
TIME

5 RELINQUISHED BY:
Signature
Printed Name
Company
DATE
TIME

6 RECEIVED BY (LAB):
Signature
Printed Name
Company
DATE
TIME

SAMPLE CONDITIONS
SEALED YES/NO
RECEIVED ON ICE YES/NO

SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS:

SHIPPING TICKET NO.:

SAMPLER-GOLD TRANSPORTER-PINK LAB-YELLOW GRC-WHITE AND GREEN

Geo/ Resource Consultants, Inc.
GEOLOGISTS / ENGINEERS / ENVIRONMENTAL SCIENTISTS
851 HARRISON STREET, SAN FRANCISCO, CALIFORNIA 94107

CHAIN OF CUSTODY RECORD

PROJECT NO. 1009-019
DATE 6/22/92 PAGE 1 OF 1

PROJECT NAME Cypress
Client CALTRANS
Address
SAMPLERS (SIGNATURE) [illegible] Jackson
LABORATORY

SAMPLE NO.	DATE	TIME	LOCATION	EPA NO. 418.1	EPA NO. 8015 G	EPA NO. 8015 D	EPA NO. 8020	EPA NO. 6010						NO. OF CONTAINERS	COMMENTS/ CONTAINER TYPE
~~[illegible]~~	~~6/22~~	~~0845~~	~~Vacant Bldg~~	~~✓~~										~~1~~	~~Soil - Steel tube~~
~~[illegible]-1-6'~~		~~0855~~	~~Vacant Bldg~~	~~✓~~										~~1~~	~~Soil - Steel tube~~
~~[illegible]-1-7'~~		~~0900~~	~~Vacant Bldg~~	~~✓~~										~~1~~	~~Soil - Steel tube~~
~~[illegible]-1~~		~~1015~~	~~Vacant Bldg~~	~~✓~~										~~1~~	~~Water - Amber~~
~~[illegible]-1-[illegible]~~		~~1150~~	~~Vacant Bldg~~		~~✓~~	~~✓~~	~~✓~~							~~1~~	~~Soil - Steel tube~~
~~[illegible]-1-[illegible]~~		~~1200~~	~~Vacant Bldg~~		~~✓~~	~~✓~~	~~✓~~							~~1~~	~~Soil - Steel tube~~
[illegible]-1-1'		1340	Phoenix 766 Cedar					✓						1	Soil - Steel tube
[illegible]-1-3'		1345	Phoenix 766 Cedar					✓						1	Soil - Steel tube
[illegible]-1'		1355	Phoenix 766 Cedar					✓						1	Soil - Steel tube
[illegible]	↓	1400	Phoenix 766 Cedar					✓						1	Soil - Steel tube

1 RELINQUISHED BY: [illegible] Jackson Signature [illegible] Jackson Printed Name GRC Company	DATE 6/22 TIME 1700 hrs	**3** RELINQUISHED BY: Signature Printed Name Company	DATE TIME	**5** RELINQUISHED BY: Signature Printed Name Company	DATE TIME	10 TOTAL NUMBER OF CONTAINERS SAMPLE CONDITIONS SEALED YES/NO RECEIVED ON ICE YES/NO
2 RECEIVED BY: [illegible] Signature [illegible] Printed Name Company	DATE [illegible] TIME [illegible]	**4** RECEIVED BY: Signature Printed Name Company	DATE TIME	**6** RECEIVED BY (LAB): Signature Printed Name Company	DATE TIME	SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS: SHIPPING TICKET NO.:

SAMPLER-GOLD
TRANSPORTER-PINK
LAB-YELLOW
GRC-WHITE AND GREEN

Geo/Resource Consultants, Inc.
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CHAIN OF CUSTODY RECORD

PROJECT NO. 1689-019
DATE 6/24/92 PAGE ___ OF ___

PROJECT NAME DOT - CYPRESS
Client
Address Oakland CA

SAMPLERS (SIGNATURE)
LABORATORY CKY Inc

ANALYSIS REQUESTED

SAMPLE NO.	DATE	TIME	LOCATION	EPA NO. 418.1	EPA NO. 6010	EPA NO. 8015 G	EPA NO. 8020 BTEX	EPA NO. 8015 D						NO. OF CONTAINERS	COMMENTS/ CONTAINER TYPE
~~CE1-7-1.5~~	~~6/24/92~~	~~0920~~	~~Church's~~			~~X~~	~~X~~	~~H/o~~						~~1~~	~~Brass Tube~~
~~CE1-5-4~~		~~0935~~	~~"~~			~~X~~	~~X~~	~~H/o~~						~~1~~	
EP800/B-1-5		1100	Phoenix 800			X		X							
EP800/B-1-4		1115				X		X							
EP800/B-1-7.5		1130				X		X							

1 RELINQUISHED BY: Eva Vinck
Signature
Eva Vinck
Printed Name
GRC
Company
DATE 6/24
TIME 12:00

2 RECEIVED BY:
Signature
Printed Name
Company
DATE [illegible]
TIME [illegible]

3 RELINQUISHED BY:
Signature
Printed Name
Company
DATE
TIME

4 RECEIVED BY:
Signature
Printed Name
Company
DATE
TIME

5 RELINQUISHED BY:
Signature
Printed Name
Company
DATE
TIME

6 RECEIVED BY (LAB):
Signature
Printed Name
Company
DATE
TIME

TOTAL NUMBER OF CONTAINERS

SAMPLE CONDITIONS
SEALED YES/NO
RECEIVED ON ICE YES/NO

SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS:

SHIPPING TICKET NO.:

SAMPLER-GOLD
TRANSPORTER-PINK
LAB-YELLOW
GRC-WHITE AND GREEN

Geo/ Resource Consultants, Inc.
GEOLOGISTS / ENGINEERS / ENVIRONMENTAL SCIENTISTS
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CHAIN OF CUSTODY RECORD

PROJECT NO. 1687-019
DATE 6/23/92 PAGE ____ OF ____

PROJECT NAME DOT-CYPRESS
Client
Address Oakland, CA
SAMPLERS (SIGNATURE)
LABORATORY CKY, INC

SAMPLE NO.	DATE	TIME	LOCATION	EPA NO. 418.1	EPA NO. 6010	EPA NO. 8015D	EPA NO. 8015G	EPA NO. 8020 BTEX						NO. OF CONTAINERS	COMMENTS/ CONTAINER TYPE
✓ P524/B-5-1.5	6/23/92	1050	Phoenix 524	☒	☒									1	BRASS TUBES
✓ P524/B-5-6		1100	↓	☒	☒									1	
✓ P800/W-1-1.5		1205	Phoenix 800			☒	☒							1	
✓ P800/W-1-6		1215				☒	☒							1	
✓ [illegible]/W-1-9		1220				☒	☒							1	

1 RELINQUISHED BY:	DATE 6/24	3 RELINQUISHED BY:	DATE	5 RELINQUISHED BY:	DATE
Signature [illegible] P. Jackson	TIME 1700 pm	Signature	TIME	Signature	TIME
Printed Name GRC		Printed Name		Printed Name	
Company		Company		Company	
2 RECEIVED BY:	DATE 6/24/92	4 RECEIVED BY:	DATE	6 RECEIVED BY (LAB):	DATE
Signature	TIME 12.30	Signature	TIME	Signature	TIME
Printed Name		Printed Name		Printed Name	
Company		Company		Company	

TOTAL NUMBER OF CONTAINERS

SAMPLE CONDITIONS
SEALED YES/NO
RECEIVED ON ICE YES/NO

SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS:

SHIPPING TICKET NO.:

SAMPLER-GOLD
TRANSPORTER-PINK
LAB-YELLOW
GRC-WHITE AND GREEN

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CHAIN OF CUSTODY RECORD

PROJECT NO. 1689-019
DATE 6/23/92 PAGE ___ OF ___

PROJECT NAME DOT - CYPRESS
Client
Address Oakland CA
SAMPLERS (SIGNATURE)
LABORATORY CKY Inc

SAMPLE NO.	DATE	TIME	LOCATION	EPA NO. 418.1	EPA NO. 6010	EPA NO. 8015D	EPA NO. 8015G	EPA NO. 8020 BTEX						NO. OF CONTAINERS	COMMENTS/ CONTAINER TYPE
~~CFC/B-1-0.5~~	~~6/23/92~~	~~0735~~	~~Church's~~											~~1~~	~~Brass Tubes~~
✓ PP524/B-1-1.5		0855	Phoenix 524	☒	☒									1	
✓ PP524/B-1-6		0900		☒	☒									1	
✓ PP524/B-2-1.5		0920		☒	☒									1	
✓ PP524/B-2-6		0925		☒	☒									1	
✓ PP524/B-3-1.5		0950		☒	☒									1	
✓ PP524/B-3-6		0955		☒	☒									1	
✓ PP524/B-4-1.5		1025		☒	☒									1	
✓ PP524/B-4-6		1030		☒	☒									1	

9 TOTAL NUMBER OF CONTAINERS

1 RELINQUISHED BY:
Signature Daniel P. Jackson
Printed Name Daniel P. Jackson
Company GRC
DATE 6/24
TIME 1200 hrs

2 RECEIVED BY:
Signature
Printed Name
Company
DATE 6/24/92
TIME 12:20

3 RELINQUISHED BY:
Signature
Printed Name
Company
DATE
TIME

4 RECEIVED BY:
Signature
Printed Name
Company
DATE
TIME

5 RELINQUISHED BY:
Signature
Printed Name
Company
DATE
TIME

6 RECEIVED BY (LAB):
Signature
Printed Name
Company
DATE
TIME

SAMPLE CONDITIONS
SEALED YES/NO
RECEIVED ON ICE YES/NO

SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS:

SHIPPING TICKET NO.:

SAMPLER-GOLD
TRANSPORTER-PINK
LAB-YELLOW
GRC-WHITE AND GREEN

[illegible]

Geo/Resource Consultants, Inc.
GEOLOGISTS / ENGINEERS / ENVIRONMENTAL SCIENTISTS
851 HARRISON STREET, SAN FRANCISCO, CALIFORNIA 94107

CHAIN OF CUSTODY RECORD

PROJECT NO. 1689-019
DATE 6/24/92 PAGE ___ OF ___

PROJECT NAME DOT-CYPRESS
Client
Address Oakland CA
SAMPLERS (SIGNATURE)
LABORATORY CKY INC

ANALYSIS REQUESTED

SAMPLE NO.	DATE	TIME	LOCATION	EPA NO. 8015 D	EPA NO. 8015 G	EPA NO.	EPA NO.	EPA NO.	NO. OF CONTAINERS	COMMENTS/ CONTAINER TYPE
✓ P800/W-1-1.5	6/24/92	1200	Phoenix 800	X	X				1	Brass Tube
✓ P800/W-1-4		1210		X	X				1	
✓ P800/W-1-2.5		1220		X	X				1	
✓ P800/W-1		1415		X	X				3	2-40 ml VOA 1-1 L AMB Glass
✓ ~~CTF/R-1-1.5~~		~~1525~~	~~Cont. Freight~~	~~X~~					~~1~~	
✓ ~~CTF/R-1-4~~		~~1530~~		~~X~~					~~1~~	
✓ ~~CTF/R-1-8~~		~~1540~~		~~X~~					~~1~~	
✓ ~~CTF/R-2-0.5~~		~~1555~~		~~X~~					~~1~~	
✓ ~~CTF/R-2-3~~		~~1600~~		~~X~~					~~1~~	

[illegible]

11 TOTAL NUMBER OF CONTAINERS

1 RELINQUISHED BY:	DATE 6/25	**3** RELINQUISHED BY:	DATE	**5** RELINQUISHED BY:	DATE
Signature	TIME 9:00	Signature	TIME	Signature	TIME
Printed Name Eva Vanek		Printed Name		Printed Name	
Company GRC		Company		Company	
2 RECEIVED BY:	DATE 6/27/92	**4** RECEIVED BY:	DATE	**6** RECEIVED BY (LAB):	DATE
Signature	TIME 7:25	Signature	TIME	Signature	TIME
Printed Name		Printed Name		Printed Name	
Company		Company		Company	

SAMPLE CONDITIONS
SEALED YES/NO
RECEIVED ON ICE YES/NO
SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS:
SHIPPING TICKET NO.:

SAMPLER-GOLD TRANSPORTER-PINK LAB-YELLOW GRC-WHITE AND GREEN

Geo/Resource Consultants, Inc.
GEOLOGISTS / ENGINEERS / ENVIRONMENTAL SCIENTISTS
851 HARRISON STREET, SAN FRANCISCO, CALIFORNIA 94107

1 Week TA

CHAIN OF CUSTODY RECORD

PROJECT NO. 1689-019-00
DATE 7-1-92 PAGE 1 OF

PROJECT NAME DoT Cypress
Client " Department of Transportation
Address Cypress Section S&O
SAMPLERS (SIGNATURE) [illegible] B Craig
LABORATORY CKY

SAMPLE NO.	DATE	TIME	LOCATION	EPA NO. 418.1 TRPH	EPA NO. 6010 Metals	EPA NO. 8240 Volatile organics	EPA NO. 8270 Semivolatiles	EPA NO. 8015m Diesel	8015m TPH-G	8020 BTXE only				NO. OF CONTAINERS	COMMENTS/ CONTAINER TYPE
✓ ~~[illegible]-W-1~~	~~7-1-92~~	~~11:20~~	~~Thomas Street GW~~						X	X				3	~~3 VOAs 40ml~~
✓ ~~[illegible]-1~~	~~7-1-92~~	~~11:20~~	~~Thomas Short GW~~					X						2	~~2 Ambers 1000ml~~
✓ ~~[illegible]-1~~	~~7-1-92~~	~~1325~~	~~Fire Station GW~~					X						2	~~Ambers 1 Liter~~
✓ PP800/W-1	7-1-92	14:40	Phoenix Prop. GW					X						2	Amber 1 Liter
✓ PP-W-1	7-1-92	14:40	Phoenix Prop GW						X					2	VOAs 40ml
✓ ~~[illegible]-3~~	~~7-1-92~~	~~16:15~~	~~Condor Freight~~			X								2	~~VOAs 40ml~~
✓ ~~[illegible]-3~~	~~7-1-92~~	~~16:15~~	~~Condor Freight~~	X			X							3	~~Ambers 1 Liter~~
✓ ~~[illegible]F-W-3~~	~~7-1-92~~	~~16:15~~	~~Condor Freight~~		X									1	~~Plastic unfiltered~~
✓ ~~[illegible]F-W-2~~	~~7-1-92~~	~~17:[illegible]~~	~~Condor Freight~~					X						2	~~Amber 1 Liter~~

19 TOTAL NUMBER OF CONTAINERS

1 RELINQUISHED BY: Signature [illegible]	DATE 7-1-92	3 RELINQUISHED BY: Signature	DATE	5 RELINQUISHED BY: Signature	DATE
[illegible] B. Craig Printed Name	TIME 5:30	Printed Name	TIME	Printed Name	TIME
Geo/Resource Consultants Inc. Company		Company		Company	
2 RECEIVED BY: Signature [illegible]	DATE 7/1/92	4 RECEIVED BY: Signature	DATE	6 RECEIVED BY (LAB): Signature	DATE
[illegible] Printed Name	TIME 5:30pm	Printed Name	TIME	Printed Name	TIME
CKY Company		Company		Company	

SAMPLE CONDITIONS
SEALED [✓ YES]/NO
RECEIVED ON ICE [✓ YES]/NO

SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS:
CALL EVA VANEK TO CONFIRM ANALYSES

SHIPPING TICKET NO.:

SAMPLER-GOLD
TRANSPORTER-PINK
LAB-YELLOW
GRC-WHITE AND GREEN

APPENDIX E

REGULATORY FRAMEWORK

APPENDIX E - REGULATORY FRAMEWORK

This Appendix describes applicable regulations set forth by the California Environmental Protection Agency (CalEPA), the California Regional Water Quality Control Board (RWQCB), the Alameda County Water District (ACWD), and the Alameda County Department of Environmental Health (ACDEH).

E.1 CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

Under CalEPA regulations, contaminated soils may be characterized as hazardous or as "designated" waste.

Regulations set forth by the CalEPA pertaining to contaminated ground water are based on the contaminants' known or suspected affects on human health. CalEPA provides state action levels and maximum contaminant levels (MCLs) for various organic and inorganic contaminants in drinking water. MCLs are statutes which may be enforced and state action levels are health advisory guidelines.

While CalEPA establishes safe drinking water standards, the California Regional Water Quality Control Board (RWQCB) is the regulating agency for ground-water investigations.

Hazardous Waste

At present, CalEPA has set a total petroleum hydrocarbon (TPH as gasoline) concentration of 1,000 milligrams per kilogram (mg/kg) as a hazardous waste classification criterion. This value is based on ignitability characteristics of gasoline in sandy soil (Memorandum by Toxic Substances Control Program, July 2, 1990). Although this level is not considered to be a sufficient criterion to classify wastes as hazardous by the DHS, The RWQCB Leaking Underground Fuel Tank (LUFT) Task Force recommends that the 1,000 mg/kg TPH value be used by field personnel to classify contaminated soil as hazardous waste until new criteria are released by CalEPA.

Standards pertaining to some oragnic and inorganic compounds (primarily metals) are described in the California Code of Regulations (CCR) Title 22, Division 4, Section 66699. These standards set Total Threshold Limit Concentration (TTLC) values and Soluble Threshold Limit Concentration (STLC) values for some constituents in soils. TTLC values refer to the maximum allowable total concentration of a constituent in soil and STLC values refer to the maximum allowable leachability from the soil. A generally accepted rule-of-thumb is that any compound with a TTLC analytical test result which is greater than 10 times its STLC value could be in excess of the STLC. To determine the constituent's leachability, the sample should be re-submitted for the Waste Extraction Test (WET).

Designated Wastes

In an attempt to provide standards for waste disposal, CCR Title 23 Subchapter 15 defines "desginated waste" as "nonhazardous wastes which consist of , cor contain, pollutants, which, under ambient environmental conditions at the waste management unit, could be released at concentrations in excess of applicable water quality objectives, or could cause degradation of waters of the state". Designated wastes may be discharged to Class II waste management units which have engineered containment features (Marshack, 1989). Designated wastes are addressed by ACDEH and are discussed further below.

State Action Levels and MCLs

California State Action Levels and MCLs are provided by the DHS Public Water Supply Branch (June, 1989). Although ground water within the project site area would probably not be considered as a potable water supply due to the proximity and potential intrusion of saline bay waters, these levels are provided within the text for comparative purposes.

E.2 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

The U.S. Environmental Protection Agency (EPA) has finalized "waste characteristics" regulatory levels for 25 chemical constituents. Many of these chemical are regulated by CalEPA, and have corresponding TTLC and STLC. Benzene is one of the chemicals that are not regulated by CalEPA and are regulated by the U.S. EPA. The Toxic Characteristic Leaching Potential (TCLP) for benzene is 0.5 mg/l. The dilution for the TCLP test is 20:1. Thus, total benzene in concentrations of 20 times the TCLP could possibly exceed the TCLP. TCLP criteria are not provided for toluene, xylenes or ethyl benzene.

E.3 REGIONAL WATER QUALITY CONTROL BOARD

The RWQCB for the North Coast, the San Francisco Bay and the Central Valley have compiled "Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites" (August, 1990). This document describes guidelines for removing and investigating potential contamination from underground tank investigations, as well as procedures for site closures and remediation programs. However, these guidelines do not provide specific action levels or cleanup levels for petroleum constituent.

The RWQCB has also set forth guidelines to conduct a Leaching Potential Analysis for gasoline and diesel using TPH concentrations. These guidelines are set forth in the LUFT Manual (revised April, 1989). The LUFT Manual provides a scoring method for deriving TPH concentrations that may be left in-place without degrading shallow ground water. Through this scoring methods, depth to ground water and other pertinent physical characteristics of the site may be evaluated and a maximum allowable TPH level may be derived. These guidelines should be used when a site is more fully characterized and would not be appropriate for the Cypress Structure project at this preliminary phase of investigation.

E.4 ALAMEDA COUNTY WATER DISTRICT (ACWD)

Alameda County Water District (ACWD) is the agency that requires well permitting for most cities (including Oakland) within Alameda County. Zone 7 has provided guidelines regarding monitoring well construction, soil and ground-water sampling and guidances for underground tank investigations (ACWD, February, 1990 Revision). These guidelines were reviewed prior to initiating the site investigation for this project and should be used for further site investigations at specific sites.

The ACWD guidelines referred to above state that soil contaminated with petroleum products in excess of 1,000 mg/kg is considered a hazardous waste. Storage on site (above or below grade) for more than 90 days is not allowed under Title 22, Article 6 (666508A) without either a variance or permit. Materials shown to contain concentrations between 100 and 1,000 mg/kg TPH or Total Oil & Grease (TOG) are classified as "designated wastes" and may be subject to similar requirements.

E.5 ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

The Alameda County Department of Environmental Health (ACDEH) recommends that underground tank investigations be conducted in accordance with the RWQCB Tri-Regional guidelines as discussed above.

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TECHNICAL REPORT

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VOLUME II

PHOENIX 800
800 CEDAR [illegible] E
OAKLAND, CALIFORNIA

Cypress Reconstruction - Phase 2
Contract No. 53S515
Task Order No. 04-192201-03

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car [illegible] artment of Transportation

Environmental Engineering
Post Office Box 23660
Oakland, California 94623

Prepared by:

On-Site Technologies, Inc.
1715 South Bascom Avenue
Campbell, California 95008

November [illegible]

Project No. 357-7.1

ON-SITE TECHNOLOGIES
1715 S. BASCOM AVE. CAMPBELL, CA 95008
1715 S. BASCOM AVE. CAMPBELL, CA 95008
(408) 371-4810 FAX (408) 371-2010
UC# 549054

UST OF ACRONYMS

Abbreviation	Definition
ACTA	Alameda County Tax Assessor
ACPD	Alameda County Planning Department
USEPA	United States Environmental Protection Agency
CERCLIS	Comprehensive Environmental Response. Compensation, and Liability Information System
HWOMS	Hazardous Waste *Data* Management System (EPA)
OHS	State of California Department of Health Services
TSCP	Toxic Substances Control Program (OHS)
HWIS	Hazardous Waste Information System (TSCP)
USGS	United States Geologic Survey
COPL	City of Oakland Planning Department
RWQCB	State of California Regional Water Quality Control Board
ACEHD	Alameda County Environmental Health Division
COFO	City of Oakland Fire Department
EBMUD	East Bay Municipal Utilities District
SCS	State of California Soil Conservation Service
CDMG	State of California-Resources Agency-Department of Conservation-Division of Mines and Geology
DWR	State of California Department of Water Resources
ACFCD	Alameda County Flood Control District
ACWD	Alameda County Water District
CDFG	State of California Department of Fish & Game
SWRCB	State Water Resources Control Board
NOAA	United States National Oceanic and Atmospheric Administration
NWSO	National Weather Service Office (NOAA)
FAD	State of California Department of Food & Agriculture
OST	On-Site Technologies. Inc.
USBR	United States Bureau of Reclamation
BAAQMD	Bay Area Air Quality Management District
USFS	United States Forest Service
USDA	United States Department of Agriculture
OPR	State of California Department of Parks and Recreation
FPSI	First Phase Site Investigation
SPSI	Second Phase Site Investigation
PEA	Preliminary Endangerment Assessment

PRELIMINARY ENDANGERMENT ASSESSMENT

PHOENIX 800
800 CEDAR STREET
OAKLAND, CALIFORNIA

Cypress Reconstruction Phase 2
Contract No. 53S515
Task Order No. 04-192201-03

November 1993

1.0 INTRODUCTION

This document presents the results of a Preliminary Endangerment Assessment (PEA) conducted by On-Site Technologies, Inc. (OST) for the California Department of Transportation (Caltrans) at 800 Cedar Street, Oakland, Alameda County, California (Site).

The site is located along a portion of the proposed reconstruction alignment of the 1-880 Cypress Structure. Caltrans is in the process of designing the replacement of the Cypress Structure which collapsed in the 1989 Loma Prieta Earthquake and was subsequently demolished.

The State of California Environmental Protection Agency (Cal-EPA) Department of Toxic Substances Control (DTSC) in consultation with Caltrans established the need for preparing PEA Reports tor properties located along the proposed reconstruction alignment.

1.1 Preliminary Endangerment Assessment

The PEA is defined in Section 25319.5, Chapter 6.6 Division 20 of the California Health and Safety Code. The PEA is an activity which is performed to determine whether current or past waste management practices have resulted in the release or threatened release of hazardous substances which pose a threat to public health or the environment. The PEA is designed as a standard approach for evaluating sites contaminated or potentially contaminated with hazardous substances/wastes to determine if a removal or remedial action is required to protect public health and the environment. The basic objectives of the PEA include:

- Determine if a release of hazardous substances/wastes has occurred.

- Determine if the potential for a release of hazardous substances/wastes exists.

- Assess the threat to public health and the environment posed by the site.

- Determine if an emergency removal action is required to reduce the (potential) threat to public health and the environment.

- Determine if remediation actions are required at the site.

- Provide recommendations on the additional data that must be collected to further evaluate the site and how the site should be addressed in order to stabilize and remediate the long-term threats.

The PEA Report presented herein has been prepared in accordance with the DTSC's Interim Guidance for Preparation of a Preliminary Endangerment Assessment Report (June 22, 1990).

The PEA Report also includes a Baseline Risk Assessment (BRA) and Remedial Action Options Report (RAO).

1.2 Baseline Risk Assessment

The BRA has been prepared in accordance with the USEPA's Risk Assessment Guidance for Superiund. Volume 1. Human Health Evaluation Manual (Part Al. Interim Final (December 1989). The BRA is essentially an analysis of the potential adverse human health effects (current and future) caused by hazardous substances releases from the site in the absence of any actions to control or mitigate the releases. BRA's are site-specific. The BRA consists of five basic steps:

- Data collection and analysis
- Exposure assessment
- Toxicity assessment
- Risk characterization
- BRA Report preparation

1.3 Remedial Action Options Report

The RAO Report has been prepared in accordance with Article XXIV - Statement of Work, Part II - Site Investigations, pages 13 and 14, Remedial Action Options of Caltrans Statewide Contract Number 53S515. The RAO Report presents a review of

d} Michael Bondi Metal Design and Michael Bondi Wrought Edge Designs
e) Cypress Used Auto Parts
f) Ivan's Auto Body

Collectively, these businesses will be referred to as Phoenix 800.

Source: City of Oakland, Fictitious Names, Site visit

2.1.2 Street Address

The Assessor's Parcel Number (APN) for the site is defined in Section 2.1.8. Within the site boundaries as defined by the **APN,** the following addresses were found:

a) 800 Cedar Street
b) 888 Cedar Street
c) 1812 Shorey Street
d) 1818 Shorey Street
e) 821 Pine Street

f) 1819 9th Street

Oakland, Alameda County, California 94607

Source: Site visit, Phoenix Properties

2.1.3 Mailing Address ,,·

a) 800 Cedar Street, Oakland, CA 94607
b) Post Office Box 24129, Oakland, CA 94623
c) unknown
d) 1818 Shorey Street, Oakland, CA 94607
e) 821 Pine Street, Oakland, CA 94607
f) 1819 9th Street, Oakland, CA 94607

Source: a,b,d,e, and **f** obtained from operators at each business

2.1.4 Phone Number

a) (510) 835-4118
b) (510) 465-9900
c) (510) 465-1648
d) (510) 763-1327
e) (510) 462-4534 and 451-3034
f} (510) 271-0138

Source: a,b,c,d,e,f - Pacific Bell

2.1.5 Other Site Names

1) Beginning date unknown through 1970 - entire parcel/building was occupied by Phoenix Iron Works; after 1970 building was split into 7 bays.

2) Date unknown, at 1823 Cedar Street (Bay 7) - "Terminal Manufacturing Company".

3) Date unknown (prior to 1970); at Bay 3 (address unknown) -"Vennell Steel".

4) Date unknown; at Bay 5 (address unknown) - plastic bag company

5) Up until 1951, Independent Iron Works occupied the entire building/parcel.

6) Sometime between and/or including 1912 and 1931, Independent Iron Works occupied the southern half of the parcel; California Fireworks Company occupied a portion of the northwest portion of the parcel; 3 dwellings occupied a portion of the northeast section of the parcel; and a soap factory occupied an area on the southern middle boundary of the parcel.

7) Sometime between and/or including 1902 and 1912, California Bedding & Upholstering Company occupied the southwest portion of the parcel; 14 dwellings occupied the northeast quarter of the parcel; The Dunn Cracker Company occupied the northwest area of the parcel. Chase Street bisected the center of the parcel between and perpendicular to Cedar and Pine Streets and New Street bisected the northern-half of the parcel perpendicular to and intersecting 9th Street. "

Source: Site visit, Insurance Maps of Oakland, California, Sanborn Map Company (SIM). BEC Phase I and Phase II Site Assessment, September 1990

2.1.6 EPA Identification Number

EPA Identification Number CAL000010990. This number has been assigned to Pine Iron Works, 800 Cedar Street, Oakland, California.

Source: Department of Toxic Substances Control (DTSC)

2.1.7 DTSC Abandoned Site Program Information System (ASPIS) Database Number

The ASPIS Database is currently referred to as CALSITES. The site is listed on the CALSITES Database as number 01330037.

Source: Cal-EPA Department of Toxic Substances Control (DTSC)

2.1.8 Assessor's Parcel Number (APN) and Map

The Alameda County Tax Assessor's Office (ATCA) identifies the APN for the site as 6-47-1. The ACTA's plat map for the site is illustrated on Figure 2.1.8.

Source: Alameda County Tax Assessor's Office (ACTA)

2.1.9 Township, Range, Section, and Meridian

No township, range, section and meridian has been assigned to the site by the United States Geological Survey (USGS). The site is included within part of the VND Peralta Spanish Land Grant. Approximate longitude is 122° 18' 30". Approximate latitude is 37° 48' 30".

Source: United States Geologic Survey - Menlo Park (USGS)

2.1.10 Map of Site Location

Figure 2.1.1O illustrates the location of the site and vicinity within a one mile radius of the site.

Source: USGS 7.5 Minute West Oakland Quadrangle

2.2 Past and Current ,Site Activities

2.2.1 Business Type

The type of current and past businesses which have operated on the site are listed on Table 2.2.1.

Source: ACTA, SIM, OPL, historic Pacific Telephone and Telegraph directories (PT&T), Oakland Tribune {1945), Buyers Guide for Metropolitan Oakland 1938, 1942 and 1943

2.2.2 Years of Operation

Table 2.2.1 lists the operating dates for the current business operating on the site, and

for businesses that operated on the site in the past.

Source: ACTA, SIM, OPL, historic PT&T directories

2.2.3 Facility Ownership/Operators

Table 2.2.1 lists the persons or corporations which currently own/operate the current business on the site, and those persons or corporations which owned/operated businesses that operated on the site in the past.

Source: ACTA

2.2.4 Property Owners

The current and past owners of the property are listed on Table 2.2.1.

Source: ACTA, SIM, OPL

2.2.5 Site Business Activities or Manufacturing Processes

A summary description of the type of business activities and manufacturing processes undertaken at the site by past and current businesses operating on the site is presented on Table 2.2.5. Figures 2.2.5.a, 2.2.5.b, 2.2.5.c, and 2.2.5.d illustrate features on the site with respect to past and current business activities.

Several 55-gallon, black metal drums were observed in two separate areas along the west side of the building. These drums were not labeled and the contents are unknown.

Source: Site visit, Bay Area Air Quality Management District (BMQMO)

2.3 Hazardous Substance/Waste Management

2.3.1 Hazardous SubstancesjWastes Identification and Quantities

A summary description of hazardous substances/wastes utilized currently and in the past on the site is listed on Table 2.3.1. Amounts of hazardous wastes generated are unknown.

Source: ACDEH, SIM, OPL, Regional Water Quality Control Board (RWQCB)

2.3.2 On-Site Storage, Treatment, Disposal

Two underground diesel storage tanks (1,000 gallon and 300 gallon) are located on the site. Hazardous waste treatment or disposal activities undertaken on the site currently or in the past are unknown. **A** summary description of on-site storage of hazardous substances/wastes/treatment and disposal is presented on Table 2.3.2.

Figure 2.3.2 illustrates the location of the underground storage tanks on the site. Additionally, approximately 13 filled 55-gallon tanks are currently stored against the southwestern side of the building. One drum was open and appeared to contain black medium grained sand-sized material.

Source: ACDEH, RWOCB, BEC Phase I and Phase II Site Assessment, September 1990

2.3.3 Regulatory Status

No record of hazardous substances/waste permits held by businesses on the site were found.

Source: ACDEH, RWOCB

2.3.4 Inspection Results

A summary of regulatory inspections undertaken at the Site is presented on Table 2.3.4.

Source: ACDEH, BAAOMD

3.0 APPARENT PROBLEM

During May 1990, the site owner (Phoenix Properties) contracted Baseline Environmental Consulting (BEC) to conduct a Phase I and Phase II Site Assessment at the subject site. A complete description of the investigations and results attained is presented in Section 5.1 - Past Sampling Activities.

Soil at the site was found to be contaminated with total concentrations of lead at greater than ten times the Soluble Threshold Limit Concentration (STLC) for lead as established in Title 22 California Code of Regulations. Analyses to determine soluble lead concentrations using CalEPA Waste Extraction Test (WET) methods resulted in detecting soluble lead concentrations less than the STLC for lead. Ground water underlying the site was not sampled.

In June 1992, Caltrans contracted Geo/Resource Consultants, Inc. (GRC) to conduct a limited First Phase Site Investigation (FPSI), specifically in the immediate vicinity of the two existing underground storage tanks (Section **2.3.2). A** complete description of the investigation and results attained is presented in Section 5.1 - Past Sampling Activities.

Soil in the immediate vicinity of the two underground storage tanks was found to be contaminated with total petroleum hydrocarbons as gasoline (TPH-G) and diesel (TPH-

D). Ground water underlying the site was not found to be contaminated with TPH-G or TPH-D.

GRC concluded that additional soil borings be drilled to fully characterize the extent of the soil contamination in the immediate vicinity of the two underground storage tanks so remedial alternatives could be determined.

The primary human and environmental resources of concern on and in the immediate vicinity of the site are:

- Residential neighborhoods in the immediate vicinity of the site.
- Workers on-site.

The pathways of exposure to the primary and environmental resources of concern on and in the immediate vicinity of the site in consideration of the existing physical setting of the site may include:

- Incidental ingestion of contaminated soil.
- Dermal contact with contaminated soil.

Ingestion of contaminated ground water by humans is not an exposure pathway because ground water in the region is not used for drinking water purposes. This is further detailed in Section 4.2 - Factors Related to Water Pathways. The likely exposure pathways for this site are described in Section 6.3.

Source: Baseline Environmental Consulting (BEC), Phase I and Phase II Site Assessment, September 1990

Geo/Resource Consultants, Inc., (GRC), Site Investigation Report - Area 4, August 1992

Site visit; ACTA

Final Environmental Impact Statement/Report, I-880/Cypress Replacement, Alameda County, California, Caltrans, 1991

4.0 ENVIRONMENTAL SETTING

4.1 Factors Related to Soil Pathways

There is a documented release of metals and petroleum hydrocarbons to the underlying soil profile.

The site assessment conducted by SEC found elevated concentrations of barium, lead and zinc with respect to the other heavy metals analyzed.

No soil contamination remediation activities have been undertaken at the site.

Source: SEC Phase I & Phase II Site Assessment, September 1990. GRC Site Investigation Report - Area 4, August 1992

4.1.1 Topography of the Site and Surrounding Areas

The topography of the site and surrounding areas **is** generally flat. The topography of the site and vicinity is illustrated on Figure 4.1.1.

The site is located on Cedar Street between Shorey and Goss Streets. It is rectangular in plan, and occupies an area of approximately 77,400 square feet. Currently, the site is occupied by a large metal warehouse from which the various businesses operate. The property is not fenced. The property was part of the historic Independent Iron Works operation dating from the 1950's.

Source: USGS 7.5 Minute West Oakland Quadrangle, ACTA, Site visit

4.1.2 Land Use and Zoning for Site

The site is zoned M-30, General Industrial.

Source: Alameda County Planning Department (ACPD)

4.1.3 Environmental Impacts of Releases from the Site

Evidence of environmental impact from releases at the site were unable to be identified due to the restrictions of the Permit To Entry between Caltrans and the property owner. As stated in Section 4.1.1. the site presently is occupied by a warehouse which is underlain, at least in part, by an earthen floor.

Source: Site visit, ACDEH

4.1.4 Predominant Hydrologic Soil Group

The soil underlying the site is the Urban Land-Baywood Complex. This soil is classified under Hydrologic Soil Group A. Group **A** soils have a high infiltration rate when thoroughly wet and have a low runoff potential. They are mainly deep, well drained, and sandy or gravelly. This soil consists of approximately 60 percent Urban land, 35 percent Saywood loamy sand, and 5 percent other soils, including drained loams. Also included are small areas of a very deep, loamy sand that is weakly cemented below a depth of 30 inches.

Urban Land consists of areas that are covered by buildings and other structures. The soil material has been altered or mixed, but it closely resembles Baywood soil.

The Baywood soil is very deep and somewhat excessively drained. It formed in eolian sediment that derived from old beach deposits. Typically the surface layer is grayish brown and brown, slightly acidic loamy sand about 32 inches thick. The underlying material is pale brown and light yellowish brown, slightly acidic loamy sand and extends to a depth of 60 inches or more.

Permeability is rapid. The available water capacity is 0.06 to 0.10 inches. The root zone is more than 60 inches deep. Runoff is slow to medium. Wind erosion is substantial if this soil is left bare.

This soil has few limitations for urban development.

Source: United States Department of Agriculture (USDA); Soil Conservation Service (SGS) Soil Survey of Alameda County, California, Western Part 1981

4.1.5 Soil Permeability

Table 4.1.5 lists the permeability characteristics of the Urban Land - Baywood Complex underlying the site. The least permeable continuous layer under the site is the Older Bay Mud. Table 4.2.2 describes the lithology, depth, and thickness of this formation.

Source: USDA, SGS Soil Survey of Alameda County, California, Western Part 1981

4.1.6 Surface Slope

The surface slope at the site is to the southwest at approximately 0.003 percent and continues Jo the west towards the Oakland Middle Harbor approximately 1 mile from the site.

Source: USGS 7.5 Minute West Oakland Quadrangle

4.1.7 Soil Stability and Seismic Conditions

The soil underlying the site is stable and shows little to no liquefaction potential.

The maximum earthquake intensity predicted for the site assuming a 8.0 or greater Richter magnitude earthquake along the San Andreas or Hayward Fault is very strong.

Very strong has the capability of:

- Brickwork and masonry badly cracked with occasional collapse.
- Brick and masonry gables thrown down.
- Frame buildings lurched or listed on fair or weak underpinning structures with occasional falling from underpinning or collapse.
- General destruction of chimneys and **of** masonry, brick, or cement veneers.
- Considerable cracking or crushing of foundation walls.

Source: USGS Miscellaneous Field Studies Map MF-709.

4.1.8 Site Access

The entire site is occupied by a metal warehouse. Access to the structure is limited to the various businesses that operate within the structure. Access to the interior of the structure was restricted due to the Permit To Entry between Caltrans and the property owner. In addition, because of the type of activities being undertaken by the various businesses, access may be restricted to persons wearing appropriate health and safety gear. Partial visual access was only obtained at the various businesses exterior openings.

Source: Site visit

4.1.9 Measures to Prevent Exposures to Contaminated Soil

There are numerous drums stored on the western exterior of the warehouse, which are unmarked and sealed. These drums are placed directly on the asphalt on the exterior of the site. The drums are not on pallets, not fenced, and not covered. An earthen floor underlies at least part of the warehouse. Therefore hazardous materials or wastes have the potential to leak, spill or leach to underlying soil within the warehouse.

The remainder of the surticial soil at the site is covered with asphalt concrete pavement.

Source: Site visit, ACDEH-Hazardous Materials Management Plan

4.1.10 Nearby Residential Areas, Schools, Businesses, Day Care Centers, Nursing Homes, Senior Citizen Communities, or Hospitals Within One Mile of the Site

Figure 4.1.10 illustrates the locations of schools, day care centers, nursing homes, senior citizen communities and hospitals within one mile of the site.

Source: Final Environmental Impact Statement/Report, I-880/Cypress Replacement, Alameda County, California, Caltrans, 1991

4.1.11 Nearest Critical Habitat for Sensitive, Threatened, or Endangered Species within one mile of the Site

There are no sensitive, threatened, or endangered species within one mile of the site.

There are no flora, fauna, or sensitive ecosystems in the vicinity of the site known to be affected by contaminants emanating from or attributable to the site.

Source: Natural Diversity Data Base (NDDB), California Department of Fish and Game (CDFG)

4.2 Factors Related to Water Pathways

4.2.1 Net Seasonal Precipitation and One Year, 24-hour Rainfall Collection

The average annual net precipitation at the site is 18.69 inches based on average monthly and annual precipitation data measured over the period 1941 to 1970 at the Oakland International Airport.

The one year, 24-hour rainfall level at the site is approximately 0.10 inches over the period 1951 to 1960.

Source: United States Department of Commerce (USDC) - National Oceanic and Atmospheric Administration **(NOAA)**

4.2.2 Site Geology and Hydrogeology

The geology of the site is presented on Table 4.2.2. The hydrogeology of the site is presented on Table 4.2.2.a. Figure 4.2.2 illustrates the surficial geology of the site and vicinity.

Source: USGS Miscellaneous Geologic Investigation Map 1-239

4.2.3 Aquifer Contamination

Ground water occurring within the soil profile (Urban Land - Baywood Complex) underlying the site is contaminated based on the results of PEA sampling activities described in Section 5.3 -PEA Sampling Activities.

Ground water occurring in the Merritt Sand at depth is threatened as a result of contamination of ground water in the soil profile underlying the site. This is because the site and surrounding vicinity are located within the recharge area for ground water occurring at depth in the Merritt Sand.

Ground water occurring in permeable sediment intervals within the Older Bay Mud may be hydraulically interconnected with ground water occurring in the Merritt Sand. As a result, ground water occurring in the Older Bay Mud may also be threatened. However, there is no data available for determining the direction of ground water movement between the Merritt Sand and the Older Bay Mud.

Source: BEG Phase I & Phase II Site Assessment, September 1990

GRC Site Assessment- Area 4, August 1992

Initial Site Assessment for the Alternative Corridor Study, Route 880/Cypress Replacement, Caltrans. 1990

4.2.4 Aquifer Usage

Table 4.2.4 lists the usage c aracteristics for aquifers identified in Table 4.2.2.a.

Ground water in the vicinity and region of the site is not used for drinking water purposes or for municipal water supply (i.e. firefighting, industrial/manufacturing uses, etc.). Water for drinking and municipal supply is drawn from surface water supplies stored in reservoirs located east of the region which capture precipitation and snowmelt runoff derived from the Sierra Nevada foothills and mountains.

The water purveyor in the region is the East Bay Municipal Utilities District (East Bay MUD).

Source: East Bay Municipal Utility District (EBMUD)
Alameda County Flood Control and Water Conservation District {ACFCWCD)
Initial Site Assessment for the Alternative Corridor Study, Route 880/Cypress Replacement, Caltrans, 1990

4.2.5 Possible Migration Routes to Surface Waters and Critical Habitats

Surface water at the site drains off of the warehouse roof onto the asphalt pavement surrounding the building and either evaporates to the atmosphere or infiltrates into three subsurface drains identified adjacent to the site. These drains are located at: 1) the southwest corner; 2) the northwest corner; and 3) the southeast corner of the building exterior. It is unknown, if there are storm drains existing within the building. It is unknown as to where the existing drains flow. Table 2.2.5.d illustrates the storm drain locations. There is no discernable surface water runoff collection and conveyance system on the site.

Source: Site visit

4.2.6 Surface Waters

Figure 4.2.6 illustrates the locations of surface water, marshlands, wetlands, and critical habitats nearest the site. Table 4.2.6 lists the distances to surface water, marshlands, wetlands, and critical habitats nearest the site.

Source: National Wetlands Inventory, United States Department of the Interior, Department of Fish and Game, 1985; NDDB-CDF&G, 1993

4.2.7 Surface Water Body Intakes

There are no uses of water from San Francisco Bay for drinking water and/or municipal supply. ,

Source: EBMUD

4.2.8 Site Surface Water Runoff Mitigation Measures

There are no structures mitigating surface water runoff from the site.

Source: Site visit, ACDEH Hazardous Materials Management Plan (HMMP)

4.2.9 Location of Flood Plains

The site is not located within a flood plain. Figure 4.2.9 illustrates 100 year flood plains in the vicinity of the site.

Source: USGS Water Resources Investigation 37-73

4.2.10 Population Served by Surface Water Supplies

Water from San Francisco Bay is not used for any beneficial purpose other than to support salt and freshwater marine life and ecosystems. Surface water for drinking water, municipal supply (i.e. firefighting, industrial/manufacturing uses, etc.), irrigation of agricultural lands, and livestock watering in the region of the site is drawn from surface water supplies stored in reservoirs located east of the region which capture precipitation and snowmelt runoff derived from the Sierra Nevada foothills and mountains.

The water purveyor in the region is the EBMUD.

Source: EBMUD

4.2.11 Locations and Populations of Schools, Day Care Centers, Hospitals, Nursing Homes, or Retirement Centers Which Use Surface Water Supplies

Water from San Francisco Bay is not used for any beneficial purpose other than to support salt and freshwater marine life and ecosystems. Surface water for drinking water use by these facilities is drawn from surface water supplies stored in reservoirs located east of the region which capture precipitation and snowmelt runoff derived from the Sierra Nevada foothills and mountains.

The water purveyor in the region is the EBMUD.

Source: EBMUD

4.3 Factors Related to **Air Pathways**

No record of a release to the atmosphere from the site has been documented. D.isturbance of the soil profile underlying the site may result in the release of contaminants to the atmosphere.

Source: Site visit, Bay Area Air Quality Management District (BMOMD)

4.3.1 Potential Source and Mechanism of Release

A potential source of release would be the soil profile underlying the site should the soil profile be disturbed by excavation. The mechanism would be the release of dust contaminated with heavy metals from the soil to the atmosphere.

Source: Site visit

4.3.2 Prevailing Daily Wind Direction and Average Velocity at the Site

Table 4.3.2 lists the prevailing daily wind direction and average wind velocity at the site. Wind direction and velocity data was collected at the Oakland International Airport.

Source: United States Department of Commerce (USDC) - National Oceanic and Atmospheric Administration (NOAA)

4.3.3 Local Climactic Factors

Table 4.3.3 lists the local climactic factors for the site.

Source: USDC - NOAA

4.3.4 Timing of Potential Threatened Release

The potential release and mechanism could occur during excavation of the soil profile underlying the site by heavy equipment.

Source: Site visit

4.3.5 Possible Dispersion Routes for Potential Threatened Release

The possible dispersion routes would include:

- Transport from the site and dispersion with the prevailing wind
- Settlement of heavy metal impregnated dust downwind of the site

Source: USEPA Superfund Exposure Assessment Manual, 1988
USEPA Exposure Factors Handbook, 1987

4.3.6 Population Possibly Exposed to Potential Release from Site

The population possibly exposed to a potential release from the site as outlined in Section 4.3.1 is approximately 20,000 within 1 mile of the site, and approximately 200,000 within 5 miles of the site.

Source: United States Census Bureau, 1990

4.3.7 Schools, Day Care Centers, Hospitals, Nursing Homes, Retirement Communities, and Senior Citizen Communities Possibly Exposed to Potential Release from **Site**

Figure 4.1.1O illustrates the locations of schools, day care centers, hospitals, nursing homes, retirement communities, and senior citizen communities within one mile of the site that may be exposed to a potential release from the site borne by air pathway. Table 4.3.7 lists the distances from the site to these facilities.

Source: Thomas Guide for Alameda County

Final Environmental Impact Statement/Report, I880/Cypress Replacement, Alameda, California, Caltrans, 1991

4.3.8 Additional Areas Possibly Exposed to a Potential Release from the Site

Figures 4.3.8.a and 4.3.8.b illustrate the following areas that may be possibly exposed to a potential release from the site:

- Commercial/industrial areas
- Residential areas
- Historic/landmark sites

Titles shown on Figure 4.3.Ba (e.g., Peralta Villa, etc.) represent> distinct neighborhoods within the project area. Land use within each neighborhood is variable as commercial activities abut residential property; however, commercial/industrial areas are located within the following neighborhoods: Clawson, McClymonds, Ralph Bunche, Prescott and Phoenix. There are no prime and/or non-prime agricultural lands within 1/2 mile of the site.

Source: Final Environmental Impact Statement/Report, I-BO/Cypress Replacement, Alameda County, California, Caltrans, 1991

4.3.9 Sensitive Areas Possibly Exposed to a Potential Release from the Site

Figure 4.2.6 illustrates the locations of surface water, marshlands, wetlands, and critical habitats nearest the site. Table 4.2.6 lists the distances to surface water, marshlands, wetlands, and critical habitats nearest the site.

Source: National Wetlands Inventory, United States Department of the Interior, Department of Fish and Game, 1985

NDDB-CDF&G, 1993

5.0 SAMPLING ACTIVITIES AND REQUIREMENTS

5.1 Past Sampling Activities

During May 1990, the property owner (Phoenix Properties) contracted BEG to conduct a Phase I and Phase II Site Assessment at the subject site. The sampling objective was to determine ii hazardous substances are present in the shallow subsurface soil and/or ground water. Five soil borings were drilled and sampled. Soil borings PP-4, PP-5, and PP-6 were each drilled to 5.5 feet below ground surface (BGS). PP-7 was drilled to 6.0 feet BGS. PP-8 was drilled to 11.5 feet BGS. PP-9 was drilled to 8.5 feet BGS. Eleven soil samples were collected from the five soil borings and submitted for analyses. Laboratory results indicated the presence of lead at 52 milligrams per kilogram (mg/kg) in a soil sample from PP-6. The concentration exceeded ten times the Soluble Threshold Level Concentration (STLC), therefore, a Waste Extraction Test (WET) was performed. The results from the WET test indicate an STLC of 2.26 mg/I which is below the STLC of 5 milligrams per liter (mg/I) for lead. Petroleum hydrocarbon compounds, including semivolatile hydrocarbons, were not detected in any of the soil samples analyzed. Tables 5.1.a, 5.1.b, and 5.1.c summarize the analytical results.

In June 1992, Caltrans contracted GRC to conduct a limited FPSI. The sampling objective was estimated the areal and vertical extent of contamination in the soil and ground water. Two soil borings and one HydroPunch boring were drilled from 8 to 27 FBGS. One boring was converted to a ground water monitoring well. Ground water was measured at approximately 7 feet BGS. Soil and ground water samples were submitted for analyses. Soil samples were found to contain various concentrations of TPH-D (the highest at 2,400 mg/kg) and TPH-G (the highest at 17 mg/kg). Ground water samples did not contain analytically detectable concentrations of TPH-G or TPH-D. GRC concluded that additional soil borings be drilled to fully characterize the extent of the soil contamination so remedial alternatives could be determined. Table 5.1.d summarizes the analytical results.

Copies of BEC's Site Investigation Report, and GRC's FPS! Report - as submitted to Caltrans, are presented in Appendix B.

5.2 PEA Sampling Activities

PEA sampling activities were conducted by OST at the site during the week of March 22 - 26, 1993.

The PEA Sampling and Analyses Plan (SAP) for the site is presented in Appendix C.

5.2.1 PEA Sampling Objectives

The objective of the PEA SAP is to bound the extent of soil and ground water

contamination on the site that was discovered during the conduct of First Phase Site

Investigations (FPSl's) by BEC and GRC, to generate data and information to recommend appropriate remedial action options, and to prepare a PEA report for the site.

5.2.2 Standard and Guidance

The SAP was prepared in accordance with USEPA Preparation of a USEPA Region 9 Sampling Plan, (memorandum from Tom Huetteman-Remedial Project Manager to Sample Plan Writers and Remedial Project Managers, November 18, 1987).

Each SAP consists of a Field Sampling Plan, a Quality Assurance/Quality Control Plan, and a Site Safety Plan.

The Field Sampling Plan describes the investigative methods and procedures to be utilized to ensure the collection of representative soil and ground water samples for analyses. In general, field activities included drilling and collecting soil samples from soil borings, collecting grab ground water samples from the soil borings using HydroPunch apparatus, and analyzing the collected soil and ground water samples in accordance with the analytical protocol.

Both the field activities and the analytical protocol were developed by Caltrans, and are specified in Task Order Number 04-192201-03. Soil and well bore drilling were conducted in accordance with the provisions of Article XXIV - Statement of Work, Part II - Site Investigations, pages 19 through 21 "Drilling", Caltrans Statewide Contract Number 53S515. Soil sampling from soil and well borings will be conducted in accordance with the provisions of Article XXIV -Statement of Work, Part II - Site Investigations, page 21 "Sampling", Caltrans Statewide Contract Number 538515. HydroPunch grab ground water sampling were conducted in accordance with the methods and procedures outlined in the SAP for each property where HydroPunch sampling will take place.

The Site Safety Plan outlines methods and procedures for protecting personnel and the general public during the conduct of the SAPS. The Site Safety Plan was prepared in accordance with the provisions of Article XXIV - Statement of Work, Part II - Site Investigations, pages 15 through 17, "Health and Safety Plans", Caltrans Statewide Contract Number 53S515.

Quality Assurance/Quality Control describes the analytical methods and procedures utilized to analyze the samples collected, and to ensure that the analytical data generated are accurate, precise and complete. Quality Assurance/Quality Control was conducted in accordance with the provisions of Article XXIV - Statement of Work, Part II - Site Investigations, pages 22 through 23, "Quality Assurance/Quality Control", Caltrans Statewide Contract Number 53S515.

5.2.3 Sample Collection and Analyses

Three soil borings were drilled at the site. The SAP called for installing three ground water monitoring wells to collect ground water samples. However, Caltrans opted to collect ground water samples from all three borings using a HydroPunch sampling tool. Figure 5.2.3 illustrates the locations of soil borings for the PEA sampling activities conducted. Table 5.2.3 summarizes the soil boring identification, sampling depths, and general soil classifications.

Soil samples were collected to a depth of 8 feet below grade at each soil sample boring and HydroPunch location based on encountering ground water at a depth of approximately 8 feet below grade. The SAP outlined soil sampling to be conducted to a depth of 6 feet below grade assuming depth to ground water at 6 feet below grade based on the results of the FPSl's conducted at the site.

Subsequent to approval of the Plan, Caltrans requested that selected soil samples (at 2 feet BGS and immediately above ground water) and all ground water samples be analyzed for volatile organic compounds (VOC's).

With the exception of the collection of ground water samples, the soil sampling methods and procedures were conducted in accordance with the SAP. Soil boring logs are presented in Appendix D.

5.3 Evaluation of PEA Sampling Results

5.3.1 Sample Analyses"

Soil and ground water samples were submitted to Chromalab, Inc., for analyses. Table 5.3.1.a lists the soil analytical protocol. Table 5.3.1.b lists the ground water analytical protocol. Table 5.3.1.c lists the soil analytical results. Table 5.3.1.d lists the ground water analytical results. Laboratory analytical results, including QA/QC data, are presented in Appendix D. TPHg in ground water was not analyzed in this phase of the investigation because during the Phase I sampling no TPHg was detected in ground water.

5.3.2 Discussion

Based on the analytical results, which indicated that a release has occurred at the site, and on our review of spike and duplicate spike recoveries, the sampling and data quality objectives have been met. Soil sample analyses detected all metals, except for cadmium. None of the metals detected exceeded ten times their respective STLC; therefore, determination of soluble metal's concentrations using CalEPA WET was not conducted. Petroleum hydrocarbon compounds, including semivolatile and volatile organic compounds, were not detected in any of the soil samples in excess of their respective analytical detection limits. All spike and duplicate spike recoveries are within the respective USEPA Method range.

Ground water sample analyses detected all metals except for cadmium. Concentrations of total chromium and lead exceeded their respective USEPA Maximum Contaminant Levels (MCLs). Total petroleum hydrocarbons as diesel (TPH-D) were detected in all three samples. However, no semivolatile or volatile organic compounds were detected. All spike and duplicate spike recoveries are within the respective USEPA Method range. The data appears to be valid and appropriate methods and QA/QC measures were implemented to ensure data quality.

6.0 BASELINE RISK ASSESSMENT

6.0.1 Introduction

The purpose of this BRA is to evaluate potential public health risks associated with heavy metals and petroleum hydrocarbons detected at the site in soil and ground water samples, in consideration of the existing physical setting of the site and land use conditions, and prior to the implementation of any remedial action.

This BRA evaluates the environmental fate, transport, and toxicological properties of selected indicator chemicals detected in soil and ground water samples during the PEA sampling and analyses activities and earlier FPSl's conducted at the site. Exposure routes via soil and ground water, human populations potentially at risk, and potential carcinogenic and noncarcinogenic health risks relevant to the site are characterized. This BRA evaluates human health risks associated only with those heavy metals and petroleum hydrocarbon compounds identified in the soil and ground water samples collected during the conduct of the PEA sampling and analyses activities and earlier FPSl's.

6.0.2 Methodology

The sections, as outlined below, correspond to steps in the BRA:

- Chemicals of Potential Concern (Section 6.1). This section reviews soil and ground water analytical data to determine the chemicals of concern at the site (indicator chemicals) to be evaluated in the BRA. The methods used to establish indicator chemicals are discussed in this section.
- Exposure Assessment (Section 6.2). Routes of exposure of the indicator chemicals via soil and ground water to human receptors are identified.

- Toxicity Assessment (Section 6.3). Toxicological properties of the indicator chemicals and potential human health risks resulting from exposure to the indicator chemicals via soil and ground water are reviewed.

- Exposure Analysis (Section 6.4). Receptor populations evaluated in the BRA are identified. Exposure routes and intake assumptions for the exposure routes are discussed.

- Risk Characterization (Section 6.5). For chemicals identified in Section 6.1, intakes (doses) are estimated for the routes of exposure via soil and ground water.

- Sources of Uncertainty and Error (Section 6.6). Potential uncertainties in the BRA process are discussed.

- Summary and Conclusions (Section 6.7). The conclusions of this BRA are summarized.

6.0.3 Background

A complete description of the historical background of the site is presented in Section 2.0. The environmental setting of the site is presented in Section 4.0.

6.1 Chemicals of Potential Concern

The analytical data generated by the PEA sampling and analyses activities and earlier FPSI's are reviewed in this section, and indicator chemicals used in the risk characterization are selected. In identifying indicator chemicals the following information is considered:

- Concentrations of detected chemicals
- Detection frequency
- Chemical/physical properties and persistence
- Toxicities

6.1.1 Investigated Media

This section reviews the analytical data for soil and ground water samples collected at the site.

6.1.1.1 Soil

Soil samples were collected from areas on the site as described in Section 5.0. Figure 5.2.3 illustrates the soil sampling locations. Tables 5.1.a, 5.1.b, 5.1.c, and 5.1.d summarize the soil sampling activities and analytical results generated by FPSI's conducted at the site. Table 5.2.3 summarizes the PEA soil boring identification, sampling depths, and general soil classification. Table 5.3.1.c summarizes the soil analytical results generated by the PEA sampling and analyses activities.

The underlying soil profile is contaminated with elevated levels of heavy metals and total petroleum hydrocarbon compounds. The petroleum hydrocarbons are diesel and gasoline fuel compounds.

6.1.1.2 Ground Water

Ground water samples were collected during the FPSI's from one location on the site, and during the PEA sampling and analyses activities from three locations on the site. These locations are illustrated on Figure 5.2.3. Ground water samples collected during the FPSI's were collected from a ground water monitoring well. Samples collected during the PEA sampling and analyses activities were collected using a HydroPunch sampling tool. Table 5.1.d summarizes the ground water analytical results generated by the FPSI's. Table 5.3.1.d summarizes the ground water analytical results generated by the PEA sampling and analyses activities.

Uppermost ground water beneath the site is contaminated with elevated levels of heavy metals and TPH-G and TPH-D.

6.1.2 Selection of Indicator Chemicals

The indicator chemicals that will be used in the BRA are limited to those that were analytically detectable and identifiable by the FPSI and the PEA sampling and analyses activities. These chemicals include heavy metals detected in soil and ground water by the FPSI and the PEA sampling and analyses activities.

The indicator chemical suite does not include petroleum hydrocarbons compounds. Although TPH-G and TPH-D were detected in the FPSI's, and TPH-D in the PEA sampling and analyses activities, the concentrations detected represent only the total mass of diesel and/or gasoline fuel constituents present in the soil and/or ground water samples which were analyzed, and gives no identity as to what type, or types, of constituents were detected. The common gasoline constituents benzene, toluene, ethylbenzene, and total xylenes (BTEX) were not detected. As a result, only the heavy metals that were analytically detected in soil and ground water samples **will** be considered as the indicator chemicals.

An indicator chemical screening process is used which permits a focused study of the heavy metals at the site which pose the greatest potential risk to human health. The heavy metals used for indicator chemicals were selected based on concentrations, frequency, persistence, and toxicity that are most likely to contribute significantly to human health risks calculated for exposure scenarios involving soil and/or ground water. The method for selecting the indicator chemicals for this BRA is presented Risk

Assessment Guidance for Superfund. Volume 1, Human Health Evaluation Manual (Part A). Interim Final (RAGS; United States Environmental Protection Agency [USEPA], 1989).

Each heavy metal detected in soil and ground water is first scored according to its high and low·concentration and toxicity to obtain a risk factor using:

Rij = (Cij)(fij)
where: Rij risk factor for heavy metal i in medium **j;**
Cij Ratio of high to low concentrations of heavy metal i in medium j; and
Tij toxicity value for heavy metal i in medium j.

The toxicity factors used are oral slope factors for carcinogens. and the inverse of the oral Chronic Reference Dose (RID) for noncarcinogens. Separate scores are calculated for each medium and are presented in Table 6.1.2.

Heavy metal-specific risk factors are summed to obtain the total risk factor for all heavy metals of potential concern in soil and ground water using:

Rj = R1j + R2j + R3j + . . . + Rij

where: Rj = total risk factor for medium j; and
R1j + ... + Rij = risk factors for heavy metals 1 through i in medium j.

Separate scores are calculated for each medium and are presented in Table 6.1.2.

The ratio of the risk factor for each heavy metal (Rij) to the total risk factor (Rj) approximates the relative risk for each heavy metal in each medium. These ratios (Rij/Rj) are listed on Table 6.1.2.

6.1.3 Selected Indicator Chemicals

Heavy metals with Rij/Rj ratios greater than 0.05 were selected as the indicator chemicals. These are listed on Table 6.1.3.

Section 6.3 summarizes the toxicological information for each indicator chemical.

6.2 Exposure Assessment

This section identifies the potential human receptors, fate and transport of the indicator chemicals, and exposure pathways associated with the existing land use and physical setting of the site.

6.2.1 Human Receptor Populations

A human receptor population is a person or set of people who can be exposed to the indicator chemicals at the site at a specific exposure point at which human contact with an indicator chemical, or chemicals, can occur.·

The primary human receptors at and in the immediate vicinity of the site are:

- Residents in the immediate vicinity of the site.
- Workers at the site.

All of the human receptors are considered sensitive human populations.

6.2.2 Fate and Transport of the Indicator Chemicals in Soil and Ground Water

The indicator chemicals are heavy metals which are considered to be mobile in the underlying soil profile because of the lack of clay or organic matter within the soil profile and geologic material comprising the uppermost aquifer.

6.2.2.1 Soil

A description of the soil profile underlying the site is presented in Section 4.1.4.

The fate and transport of the indicator chemicals in the soil profile underlying the site are governed by several physical and chemical factors including:

- soil moisture
- leaching
- aeration
- mineralogy
- clay content
- organic matter content
- pH
- biological activity and soil chemical composition

These factors influence the fate-controlling processes of precipitation and dissolution of solids, acid-base reactions, complex formations, redox reactions, exchange and adsorption, and mass transfer.

Soil chemical reactions that may possibly shift the equilibrium in favor of the aqueous solution, such as decreased pH and complex or chelate formation or the presence of reducing conditions, greatly increase the mobility of the indicator chemicals. Lack of information of the chemical form of the heavy metals detected in the underlying soil profile, in addition to soil chemistry, makes it difficult to infer their possible fate. However, because of the lack of organic matter in the soil profile underlying the site, and based on the soil conditions described in Section 4.1.4, and those conditions encountered during the FPSl's and PEA sampling and analyses activities, it can be expected that the indicator chemicals are mobile in the soil profile underlying the site.

Surface water runoff at the site occurs only during storm events. Runoff from the site is captured and conveyed by storm drain to the Oakland Inner Harbor. Some off site transport of the indicator chemicals with runoff may occur in the form of sorbed species in suspended sediment.

6.2.2.2 Ground Water

A description of the hydrogeology of the site and contamination of the uppermost aquifer is presented in Sections 4.2.2 and 4.2.3, respectively.

The fate and transport of the indicator chemicals in uppermost ground water underlying the site are governed by several physical and chemical factors including, adsorption-desorption, ion exchange, complexing, pH, ion filtration, gas generation, precipitation-dissolution, biodegradation, and chemical degradation. These factors influence the fate-controlling processes of molecular diffusion and hydrodynamic dispersion (transverse, longitudinal, and vertical).

Chemical reactions that increase the likelihood of transport, such as decreased pH and complex or chelate formation or the presence of reducing conditions, greatly increase the mobility of the indicator chemicals in aqueous environments. Lack of information of the chemical form,of the indicator chemicals detected in the uppermost ground water samples, in addition to ground water chemistry, makes it difficult to infer their possible fate. However, because the indicator chemicals were detected in ground water samples collected from uppermost ground water beneath the site, the lack of organic matter in the aquifer material, the soil conditions described in Section 4.1.4, and those conditions encountered during the FPSl's and PEA sampling and analyses activities, it can be expected that the indicator chemicals are mobile in the uppermost ground water underlying the site with the potential for off site migration.

6.2.3 Potential Exposure Pathways

Soil and ground water may serve as transport media for the indicator chemicals to migrate from the site to human receptors. The potential exposure pathways are identified on the basis of information on the indicator chemicals and their environmental fate.

Potential exposure routes include inhalation, ingestion, and dermal adsorption. Generally, exposure to the indicator chemicals could occur through one or more of the following potential pathways:

- Soil
- Inhalation of soil particles
- Ingestion of soil
- Dermal adsorption resulting from skin contact **with** soil laden with the indicator chemicals.
- Ground Water
- Ingestion of ground water
- Dermal adsorption of water containing the indicator chemicals during household use (bathing. showering)
- Surface Water
- Ingestion of surface water
- Dermal adsorption of water containing the indicator chemicals during household use (bathing. showering)

Additionally, ingestion of contaminated fish and game or ingestion of plants irrigated with contaminated surface or ground water may be potential exposure pathways. Not all of these pathways are important at the site. The relative importance of each is discussed below, and are based on information presented in the PEA, site conditions, and fate and transport information on the indicator chemicals..

6.2.3.1 Soil

Potential exposure to soil laden with the indicator chemicals at the site may occur by three possible routes: inhalation of particulates, ingestion of soil, or dermal contact with soil.

6.2.3.1.1 Inhalation

Winds and vehicular traffic can suspend particulates in the air which may subsequently be inhaled. However, vehicular activity takes place around the periphery of the site on asphalt paved roads, and no vehicular traffic currently takes place at or inside the warehouse on the site. In addition, the warehouse structure restricts wind movement and therefore restricts wind erosion of the earthen floor of the warehouse and subsequent particulate suspension.

No surficial soil (top 0.5 foot) sampling was performed. Sampling of shallow soils (approximately 2 feet depth) indicates the presence of the indicator chemicals. However, no air sampling has been conducted at the site.

Because of the physical setting of the site, and the lack of air sampling and analyses data, this exposure pathway is not considered in this BRA.

6.2.3.1.2 Ingestion of Soil

Direct and incidental ingestion of soil laden with the indicator chemicals by adult workers is considered a potential pathway of exposure at the site, as limited work-related activities do take place at the site. Residents who live in the immediate vicinity of the site, particularly children, are also susceptible. Children are expected to ingest more soil than adults, because they are more susceptible to the abnormal craving to ingest substances not fit for food (i.e. soil). This is particularly of concern for children 1 to 6 years old.

Access to the site is restricted to the various businesses that operate within the structure on the site. Because access to the site is restricted incidental soil ingestion by children is not considered in this **BRA.**

6.2.3.1.3 Dermal Contact with Soil

The indicator chemicals are present in the surface soil at the site. The warehouse on the site has an earthen floor. Work takes place inside the warehouse. Therefore, direct skin contact is considered. The extent of dermal exposure is determined in part by the nature and concentrations of the indicator chemicals, the duration of the exposure, the surface area of the body in direct contact with the soil, and the presence of abrasions on the skin. Such abrasions provide easy access to the indicator chemicals that may be adsorbed into the bloodstream and circulated to target organs in the body. Because limited work-related activities take place at the site, dermal contact with soil is considered in this BRA.

6.2.3.2 Ground Water

As described in Section 4.2.4, Ground water in the vicinity and region of the site is not used for drinking water purposes or for municipal water supply (i.e. firefighting, industrial/manufacturing uses, etc.).

Water for drinking and municipal supply is drawn from surface water supplies stored in reservoirs located east of the region which capture precipitation and snowmelt runoff derived from the Sierra Nevada foothills and mountains.

For this reason, exposure to the uppermost ground water containing the indicator chemicals underlying the site is not considered an exposure pathway in this BRA.

6.2.3.3 Surface Water

Surface water runoff from the site is limited to storm events. Runoff is captured and conveyed by storm drain to Oakland Middle Harbor where it discharges into San Francisco Bay.

Potential exposure to chemicals in surface water may occur both directly or indirectly. Direct pathways include incidental ingestion, inhalation, and dermal absorption, which could occur during public participation in recreational activities (i.e. swimming, boating, playing). Indirect pathways include consumption of fish, animals, or plants that have been exposed to surface water containing chemicals.

Surface water at the site was not sampled. In addition, runoff from the site would commingle with runoff generated from other locales in the immediate vicinity and region as it travels down the storm drain system to the ciutlet at Oakland Middle Harbor. This action would result in diluting soluble indicator chemicals in the runoff, or adsorbed to sediment included with the runoff, to concentrations that, would not likely represent a threat to human health. For these reasons, exposure pathways related to surface water are not considered in this BRA.

6.2.3.4 Summary of Exposures

Two exposure pathways require further evaluation. these are:

- Direct and incidental soil ingestion
- Dermal contact with soil

Exposure pathways specific to the site are identified and discussed in the following sections.

6.2.3.4.1 Direct and Incidental Ingestion of Soil

Ingestion of contaminated soil is a route of exposure. Adults are far less likely to be exposed from direct ingestion of contaminated soil than children. However, workers at the site may ingest soil incidentally. Standard soil ingestion rates for adults have

been established by the USEPA (Human Health Evaluation Manual, Supplemental

Guidance: "Standard Default Exposure Factors" [SDEF). Memorandum, OSWER Directive 9285.6-03, March 25, 1991.). These values serve as the basis for quantifying ingestion exposures. Concentrations of the indicator chemicals detected at O to 3 FBGS were used to estimate adverse health effects from exposure through this pathway.

6.2.3.4.2 Dermal Contact

Direct dermal contact with soil laden with the indicator chemicals may occur at the site.

Dermal exposure may result in uptake through the skin membranes. The skin is the largest organ of the body, and therefore, more surface area is available for uptake. Uptake through the skin allows the indicator chemicals to cross directly into the circulatory system, where they travel to the target organ(s) to exert their effects. Large open sores or abrasions on the skin allow uptake more readily.

Standard soil dermal exposure rates for adults have been established by the USEPA in RAGS. These values serve as the basis for quantifying the dermal exposures. Concentrations of the indicator chemicals detected at O to 3 FBGS were used to estimate adverse health effects from exposure through this pathway.

6.3 Toxicity Assessment

The toxicological properties of each indicator chemical · are summa ized below (MERCK, Eleventh Edition, 1989).

6.3.1 Arsenic

Most forms of arsenic are toxic. Acute symptoms following ingestion relate to irritation of the gastrointestinal tract. These include nausea, vomiting, and diarrhea. **All** of these can progress to shock and death. Chronic poisoning can result-in exfoliation and pigmentation of skin, herpes, polyneuritis, altered hematopoieses, and degeneration of liver and kidneys.

Arsenic is a known carcinogen.

6.3.2 Antimony

Antimony and its compounds have been reported to cause dermatitis, keratitis, conjunctivitis, and nasal septa! ulceration by contact, fumes, or dust. Hydrogen will react with antimony to form stibine (SbH_3) which is extremely toxic (nausea, vomiting, headache, hemolysis, hematuria, abdominal pain, death). Stibine can be liberated from storage batteries when hydrogen is present, in an acid medium, with antimony present in the battery plates.

6.3.3 Chromium

Irritant effects on the skin and respiratory passages lead to ulceration. Oral ingestion may lead to severe irritation of the gastrointestinal tract, circulatory shock, and renal damage.

6.3.4 Lead

Lead poisoning is most common in young children. Acute symptoms include anorexia, vomiting, malaise, convulsions due to increased intracranial pressure. May leave permanent brain damage. Chronic symptoms show weight loss, weakness, and anemia. A blood lead content of > 0.05% and of urine > 0.08 milligrams/liter support a diagnosis of lead poisoning.

6.3.5 Thallium

Symptoms of acute toxicity include nausea, vomiting, diarrhea, tingling, pain in extremities, weakness, coma, convulsions, death. Chronic symptoms include weakness and pain in the extremities (polyneuritis) and loss of hair. Human systemic effects by ingestion. Nerve or sheath structural changes. Extra-ocular muscle changes.

6.4 Exposure Analysis

This section presents a discussion of the rationale used in selecting the receptor human populations to evaluate potential public health risks and a discussion of the intake assumptions for each exposure route:

6.4.1 Receptor Populations

This section quantifies potential health risks to on-site workers and residents living in the vicinity of the site.

6.4.1.1 On-Site Workers

Analytical results show that the indicator chemicals are present between O and 3 FBGS, from which it may be inferred that workers on-site can be exposed to soil laden with the indicator chemicals. On-site workers ranging in age from 20 to 65 may incidentally ingest soil in the course of normal hand-to-mouth activities, and may come into direct contact with soil. Worker exposure times are limited to those times when they are working on the site.

6.4.2 Routes of Exposure

This section evaluates the routes of exposure to soil laden with the indicator chemicals via ingestion and dermal contact. For both pathways, indicator chemicals in soil between 0 and 3 FBGS are considered because soil disturbance at the site is unlikely to exceed 3 feet under current land use and existing site activities.

To evaluate potential exposures a typical exposure using maximum concentrations of the indicator chemicals detected in the soil between 0 and 3 FBGS was used. This scenario was evaluated for adult worker on-site.

The exposure scenario was used to estimate the potential adverse health effects to the receptor populations. The following sections discuss the assumptions used to estimate these potential health effects.

6.4.2.1 Ingestion

The rate of soil ingestion is based on the quantity of soil a given population might ingest in a given day. Typical estimates of soil ingestion rates range from 100 to 200 milligrams per day, depending on age (SDEF). Soil ingestion exposures to receptor populations were calculated on the basis of these rates. The assumptions used in the ingestion exposure scenarios are summarized below.

6.4.2.1.1 Typical Exposure

For a typical exposure the maximum concentrations of the indicator chemicals from soil samples collected from 0 to 3 FBGS were used to estimate exposures resulting from ingestion of soil at the site.

6.4.2.1.2 Ingestion Exposure Equation

Using these assumptions, potential ingestion routes were calculated using the following equation (RAGS):

$$I = \frac{CS \times IR \times CF \times FI \times EF \times ED}{BW \times AT}$$

where:	I	Intake (mg/kg day ^{1})
	CS	Indicator chemical concentration in soil (mg/kg)
	IR	Ingestion Rate (mg soil/day)
	CF	Conversion Factor (10-^{6} kg/mg)
	FI	Fraction Ingested from Contaminated Source (unitless)
	EF	Exposure Frequency (days/years)

ED	Exposure Duration (years)
BW	Body Weight (kg)
AT	Average Time (period over which exposure is averaged -- days)

The standard default values are:

IR	50 mg (adult worker) [SDEF]
Fl	1 [SDEF]
EF	250 days/year (adult worker) (SDEF]
ED	25 years (adult worker) [SDEF]
BW	70 kg (adult worker) [SDEF]
AT	ED x 365 days/year [SDEF] 9,125 days (adult worker)

The results of these calculations are presented in Section 6.5 (Risk Characterization).

6.4.2.2 Dermal Contact

For the indicator chemicals sorption to soil particles is an important environmental fate mechanism. Therefore, exposure via direct skin contact with soil laden with the indicator chemicals was estimated.

The dermal exposure scenario assumes that on-site workers may come into direct contact with soil laden with the indicator chemicals. It is assumed that workers would be wearing long-sleeved coveralls, thus exposing only their hands.

6.4.2.2.1 Typical Exposure

For a typical exposure the maximum concentrations of the indicator chemicals from soil samples collected from O to 3 FBGS were used to estimate exposures resulting from dermal contact with soil at the site.

6.4.2.2.2 Dermal Contact Exposure Equation

Using these assumptions, potential dermal exposure routes were calculated using the following equation (RAGS):

$$AD = \frac{CS \times CF \times SA \times AF \times ABS \times EF \times ED}{BW \times AT}$$

where:	AD	Adsorbed dose (mg/kg-day)
	CS	Indicator chemical concentration in soil (mg/kg)
	CF	Conversion Factor (10^{-6} kg/mg)

SA	Skin surface area available for contact (cm^2/event)
AF	Soil to skin adherence factor (mg/cm^2)
ABS	Absorption factor (unitless)
EF	Exposure Frequency (events/year)
ED	Exposure Duration (years)
BW	Body Weight (kg)
AT	Average Time (period over which exposure is averaged·· days)

The standard default values are:

SA	820 (adult worker) [RAGS]
AF	1.45 mg/cm^2 (RAGS)
ABS	1% (RAGS)
EF	208 events/year (RAGS)
ED	25 years (adult worker) (SDEF]
BW	70 kg (adult worker) [SDEF]
AT	ED x 365 days/year (RAGS)
	9,125 days (adult worker)

The results of these calculations are presented in Section 6.5 (Risk Characterization).

6.4.3 Summary

The methodologies suggested by USEPA (RAGS and SDEF) were used to estimate potential noncarcinogenic health risks and carcinogenic risks. Potential soil ingestion and dermal risks were quantified for adult workers. Potential exposures to the indicator chemicals via ingestion and dermal absorption were estimated. Maximum concentrations of the indicator chemicals detected in the soil profile underlying the site from 0 to 3 FBGS were used.

6.5 Risk Characterization

This section discusses the methodologies used to evaluate potential adverse noncarcinogenic health effects and carcinogenic risks to the receptor populations that may results from ingestion and dermal contact pathways.

Noncarcinogenic risk is evaluated by comparing the daily dose to the USEPA established Chronic Reference Dose (RID) for chronic exposure to noncarcinogenic chemicals.

To evaluate carcinogenic effects, the daily dose is multiplied by a USEPA established slope factor, formerly called the carcinogenic potency factor. The estimated carcinogenic risk is compared to the acceptable risk range from 10·• to 10·^{1}

established by the USEPA (RAGS). These ranges translate to one excess cancer in 10,000 exposed individuals to one in 10,000,000 individuals, respectively. A 10^{-6} (or one in 1,000,000) risk is the level most often used by USEPA as the guideline for acceptable risk to protect public health and will be used in this BRA. An estimate of 10^{-6} means that over a lifetime of exposure to a carcinogen (70 years), a person experiences a maximum increased chance of one-in-a-million that he or she will develop cancer from exposure to that carcinogen.

6.5.1 Noncarcinogenic Health Effects

Noncarcinogenic health effects resulting from exposure to a single indicator chemical were evaluated through the calculation of a Chronic Hazard Quotient (CHO). The indicator chemicals were collectively evaluated through the calculation of a Chronic Hazard Index (CHI). Both are described in RAGS. The CHO is calculated from a ratio of estimated chemical intake to an established RID for each indicator chemical (representing an "acceptable dose"). An RfD is a USEPA established value that represents the concentration of indicator chemical that a receptor may be exposed for 70 years without experiencing adverse health effects.

The estimated chemical intake specific to each exposure scenario is referred to as the Intake (for ingestion) or the Absorbed Dose (for dermal contact). For the purposes of this discussion, both of these values will be collectively referred to as the Chronic Daily Intake (COi). Both COi's were calculated using equations presented in Section 6.4.2. The COi's represent an estimated "dose" of a chemical through ingestion or dermal pathway to receptor populations. The COi is then divided by the respective RID to derive the respective CHO. The sum of the CHO's represents the CHI.

Where the CHI exceeds unity (1.0) there may be concern for potential health risks. The results of the calculations for CHOls and CHls are presented in Tables 6.5.1.a and 6.5.1.b for ingestion and dermal exposure, respectively.

R!Ds for oral routes were used to calculate CHQs for both exposure routes (ingestion and dermal). This is a conservative approach.

6.5.1.1 Exposure from Ingestion

The calculated CHls for the ingestion pathway are presented in Table 6.5.1.a. Because the CIH value is less than unity (1.0), chronic exposure through the ingestion pathway does not appear to pose a noncarcinogenic health risk to adult workers on the site.

6.5.1.2 Exposure from Dermal Contact

The calculated CHls for the dermal pathway are presented in Table 6.5.1.b. Because the CIH value is less than unity (1.0), chronic exposure through the dermal absorption pathway does not appear to pose a noncarcinogenic health risk to adult workers on the site.

6.5.2 Carcinogenic Health **Risks**

The carcinogenic health risks for arsenic, the single potential carcinogen at the site (LIST), are calculated as follows:

Carcinogenic Risk (CR) = COi x Slope Factor (SF)

As discussed previously, the CDI of a chemical is based on its concentration at the exposure point, the duration of the exposure, and standard intake assumptions. Also, the CDI is a chemical-specific value for each particular exposure route. The CR values for arsenic for the exposure pathways are presented in Table 6.5.2.a for the ingestion pathway, and Table 6.5.2.b for the dermal pathway.

The Slope Factor (SF) is a value established by the USEPA. This value was formerly referred to as the Cancer Potency Factor (CPF) by the USEPA. This value represents the relative carcinogenic "potency" of the chemical and is generally based on laboratory animal or epidemiological studies.

SFs for ingestion were used to calculate CRs for both exposure routes (ingestion and dermal). This is a conservative approach.

6.5.2.1 Exposure from Ingestion

The calculated CR for the ingestion pathway is presented in Table 6.5.2.a. The CR is greater than 1.0 x 10^{-6} (one-in-a-million). Therefore, there does appear to be an excess carcinogenic risk with exposure to arsenic via the ingestion pathway to adult workers on the site.

6.5.2.2 Exposure from Dermal Contact

The calculated CR for the dermal pathway is presented in Table 6.5.2.b. The CR is greater than 1.0 x 10^{-6} (one-in-a-million). Therefore, there does appear to be an excess carcinogenic risk with exposure to arsenic via the dermal absorption pathway to adult workers on the site.

6.5.3 Exposure Summary

In summary, detailed calculations using data generated from PEA sampling and analyses activities and FPSI's conducted at the site indicate that adverse noncarcinogenic health effects to workers on the site do not appear to exist from exposure to indicator chemicals via the ingestion and dermal absorption routes.

However, excess carcinogenic health effect risks appear to exist due to exposure via ingestion and dermal absorption routes.

6.6 Sources of Uncertainty

There are three broad areas where uncertainties may be found in the BRA process:

- Generation of chemical-specific human risk values by Federal agencies through animal tests and/or epidemiological studies.
- Collection of site-specific data.
- Merging chemical-specific risk estimates with site-specific data

For each area, a number of factors may increase or decrease the confidence in the accuracy of the BRA. These factors, as they may apply to this BRA, are as follows.

6.6.1 Animal Tests and/or Epidemiological Studies

- Choice of species, strain, age, and sex of animals
- The number of animals or persons in the study ·
- Similarity in the routes of exposure between tested species and route of interest in humans ·
- Purity of test compound
- Decay of test compound and vehicle contribution
- Selection of dose levels and use of control groups
- Distribution of animals among doses
- Similarity between test animals and humans in metabolism and pharmacokinetics
- Statistical noise; statistical methods used to analyze data
- Proper histopathological examination of animals
- Proper animal husbandry and dietary considerations
- Experimental surroundings

- Consideration of concurrent exposures in epidemiological studies
- Exposure measurements concurrent to the period being evaluated in epidemiological studies
- Selection of proper endpoint in animal or epidemiological studies
- Synergism/antagonism
- Animal to human extrapolism: high dose to low dose, choice of dose/response model, confidence intervals
- Use of most sensitive, inbred animals versus average, heterogeneous animals.

6.6.2 Collection of Site Data

- Rationale for sample locations
- Sample collection methods and **QA/QC** procedures
- Analytical methods, detection limits, and **QA/QC** procedures
- Accurate characterization of area geology and hydrogeology
- Representativeness and completeness of data
- Adequacy of data to describe site conditions
- Characterization of exposed or potentially exposed populations

6.6.3 Development of Site-Specific BRA

- Errors associated with numerical approximation methods
- Laboratory analyses· errors
- Estimations of receptor population characterizations
- Interpretation of laboratory data

6.6.4 Strengths

Uncertainties in this BRA have been reduced because appropriate QA/QC methodologies were used in all field and laboratory activities, and all laboratory data have been validated. The techniques used in preparing this BRA are based upon

USEPA guidance, the current understanding of mechanisms of human exposure, and the toxicological properties of the chemicals identified through site sampling activities. Additionally, conservative assumptions regarding the toxicity of the indicator chemicals have also been used for all calculations. Therefore, any uncertainties in this area will tend to err, if at all, on the conservative side.

6.7 BRA Summary and Conclusions

This BRA was prepared to evaluate the potential adverse impacts to human health for chemicals detected at the site. Soil and ground water data and intake assumptions were used to estimate potential noncarcinogenic and carcinogenic health risks via the ingestion and dermal exposure pathways to identified receptor populations. The following discussion presents the conclusions of this BRA.

On the basis of available data, the indicator chemicals are:

- antimony, arsenic, lead, and thallium

The following receptor populations were defined:

- Adult workers on the site

The methodologies suggested by the USEPA (RAGS and SDEF) were used to estimate the potential noncarcinogenic and carcinogenic health risks of the indicator chemicals to these receptor populations. Ingestion and dermal intakes were estimated and compared to noncarcinogenic indicators of safe chronic daily intakes for each receptor population. For excess carcinogenic risks from exposures to potential carcinogens, slope factors established by the USEPA and average daily doses for each of the populations were used to estimate individual excess lifetime cancer risk.

Based on the results of this BRA, the _following conclusions are made:

- Adverse noncarcinogenic health effects do not appear to exist from potential exposure to the indicator chemicals via the soil ingestion and dermal absorption pathway.
- Excess carcinogenic risks exist from potential exposure to arsenic via the ingestion and dermal absorption pathway.

7.0 PEA CONCLUSIONS AND RECOMMENDATIONS

7.1 Release or Threat of a Release at the Site

Current and past practices of handling and/or storing hazardous substances or waste on the site has resulted in the release of heavy metals and petroleum hydrocarbons to the soil profile and uppermost ground water underlying the site.

7.2 Threat to Public Health and the Environment

The BRA indicates that no adverse noncarcinogenic health effects exist from potential exposure via ingestion and dermal absorption to the heavy metals within the soil profile between O and 3 FBGS.

However, the BRA does indicate that excess carcinogenic risks exist from potential exposure via ingestion and dermal absorption to arsenic within the soil profile between 0 and 3 FBGS.

Ground water in the vicinity and region of the site is not used for drinking water purposes or for municipal water supply (i.e. firefighting, industrial/manufacturing uses, etc.).

No evidence of environmental impact from releases at the site are evident pased on inspection of the site during the conduct of the PEA sampling and analyses program. However, additional investigation is needed to determine if contamination exists in the interior of the warehouse.

There are no flora, fauna, or sensitive ecosystems in the vicinity of the site known to be affected by contaminants that have or can potentially be released from or attributable to the site.

7.3 Need for Emergency Removal Action

Based on the results of the PEA and BRA, there is no need to conduct an emergency removal action of soil between O and 3 FBGS. Although cancer risk from ingestion and dermal absorption of arsenic-laden soil was shown to exist in the BRA, the exposure point would be the earthen floor at the base of the warehouse structure on the site. Access to the warehouse and the earthen floor is restricted only to employees of businesses that operate inside the structure.

The contaminated soil can be removed as part of demolishing the structure.

7.4 Additional Information

Additional information needed includes:

- Conduct a soil remedial investigation to determine the areal extent of heavy metals and petroleum hydrocarbons in the underlying soil profile from 0 to 3 FBGS, particularly those areas inside the structure where the earthen floor is exposed.
- Concomitant with the soil remedial investigation, conduct a ground water remedial investigation to determine the hydraulic characteristics of the uppermost aquifer, and determine the areal extent of heavy metals and petroleum hydrocarbons in uppermost ground water.

The structure on the site should be cleared to allow remedial investigation work to proceed inside the structure unimpeded.

8.0 RECOMMENDATIONS

It is recommended that the remedial investigations described be in Section 7.4 be implemented.

9.0 REMEDIAL ACTION OPTIONS REPORT

This report is based upon the findings of the PEA and previous FPSI's conducted at the site.

9.0.1 Underground Storage Tank Removal

Two underground storage tanks are present on the site. This is detailed in Section 2.3.2. For any remediation scheme, both tanks must be removed in accordance with ACDEH and State of California Water Resources Control Board requirements, and Title 22 California Code of Regulations. Remediation in the event the tanks have leaked must be conducted in accordance with the State of California Water Resources Control Board's Leaking Underground Fuel Tank Manual (LUFT), and the requirements of the State of California Regional Water Quality Control Board - San Francisco Region. Very limited information (Sanborn Insurance Map over 100 years old) is available on the 13,000-gallon oil tank used by the Dunn Cracker Company. Its fate is unknown. If located, the tank will have to be excavated.

9.1 Technical Objectives

The remedial action options proposed for this site are:

- Remove contaminated soil from the site
- Recover contaminated ground water from the site

9.2 Soil Remediation

9.2.1 No Further Action

The no further action scheme is not a viable alternative. This is because the BRA demonstrates that adverse noncarcinogenic health effects or excess cancer risks may exist from potential exposure via ingestion and dermal absorption to the heavy metals within the soil profile between O and 3 FBGS..

9.2.2 Ex-Situ Techniques

9.2.2.1 Removal and Disposal

The lateral extent of heavy metals and petroleum hydrocarbons in the soil profile underlying the site from O to 3 FBGS has not been determined. Further, the types of petroleum hydrocarbons detected by the PEA sampling and analyses activi ies and the FPSl's need to be determined to effect disposal and/or treatment. Based on the limited analytical data it appears that disposal in a Class Ill landfill is appropriate.

This technique involves removing the contaminated soil by excavation followed by disposal of the excavated soil at an off-site landfill facility. This technique offers a permanent solution with respect to remediating the contaminated soil profile and preventing environmental exposures. However, this technique merely moves the contaminated soil from one location to another without any treatment to reduce the toxicity or volume of the material. As a result, the liability of the soils still remains with Caltrans.

9.2.2.2 Removal and Treatment

This technique also involves removal of the contaminated soil by excavation, but the excavated soil is either treated on-site or off-site. The treatment techniques that are currently available include biodegradation, incineration (petroleum hydrocarbons), and chemical fixation (heavy metals).

All three treatment techniques would require open space on the site to treat the excavated soil. Typically, treatment by any technique requires a period of at least 6 months to a year or more to complete, considering the contaminant involved, the volumes of soil to be treated, and regulatory permitting requirements.

All three treatment techniques offer a permanent solution with respect to remediating the contaminated soil profile and preventing environmental exposures. In addition, these techniques eliminate continuing liability because the contaminants are irreversibly remedied by these techniques.

9.2.2.3 Biodegradation

Biodegradation is used exclusively to treat organic compounds, and basically involves uniformly spreading the organic contaminated soil, followed by the addition of nutrients on a regular basis to provide a favorable environment to enhance the proliferation of indigenous bacteria and micro-organisms in the soil being treated, which reduce the concentrations of the organic compound(s) within the spread soil pile metabolically. The treatment process is either further enhanced or initiated by the addition of contaminant-specific, genetically engineered micro-organisms to the spread soil pile. The spread soil pile is turned on a regular basis to allow reduction of the organic compounds in the soil through metabolic action. The effectiveness of the technique depends on the type of organic contaminants involved, the type of soil being treated, the type of indigenous, or introduced, bacteria or micro-organisms available, the volume of soil being treated, and the remediation goal. Biodegradation, generally, is more effective during the summer months when ambient air temperatures are high, thereby enhancing the growth and proliferation of bacteria and micro-organisms indigenous, or introduced to, the treated soil profile. Samples of the treated soil are collected on a regular basis to monitor the biodegradation environment, and the effectiveness of the technique.

9.2.2.4 Incineration

Incineration is used exclusively to destroy organic compounds. The process basically involves volatilizing the organic compounds using a high temperature thermal dryer, followed by destruction of the volatilized organics in an incinerator. The process proceeds until all fugitive volatilized organic material has been destroyed. The effectiveness of the technique depends on the organic contaminants to be incinerated, the type of soil being treated, the volume of soil being treated, the type of thermal drying/incineration equipment used, and the remediation goal.

9.2.2.5 Immobilization

Chemical fixation is used exclusively to treat heavy metals. Basically the process involves uniformly spreading the heavy metal-laden soil, followed by the addition of either a liquid or solid acid or base to precipitate the heavy metals as hydroxides, sulfides, carbonates, or other insoluble salts. Hydroxide precipitation with lime is most common. However, sodium sulfate is sometimes used to achieve lower heavy metal concentrations.

Limitations include that not all heavy metals have a common pH at which they precipitate. Chelating and complexing agents can interfere with the process. Organic compounds are not removed except through adsorptive carryover. The resulting mass may be hazardous by definition but often may be delisted The effectiveness of the technique depends on the type of heavy metals involved, the type of soil being treated, the type of liquid or soiled acid or base compounds available, the volume of soil being treated, and the remediation goal. Samples of the treated soil are collected on a regular basis to monitor the effectiveness of the technique.

9.2.2.6 Implementability

Implementability of excavation and disposal off-site is dependent upon the types of petroleum hydrocarbons and concentrations of heavy metals present in the soil profile underlying the site. Off-site disposal would be severely limited if restricted petroleum hydrocarbons, such as polychlorinated biphenyls (PCBs), are present in the soil, or if heavy metal concentrations exceed their respective STLC's. All of the ex-situ treatment techniques are feasible remediation options. Biodegradation is a feasible alternative but is lengthy in scope.

9.2.3 In-Situ Techniques

These techniques involve treating the contaminated soil in place to physically, biologically, or chemically transform, reduce or remove, the contaminants in the soil. There are three common in-place treatment technologies that are currently available•

- Degradation
- Extraction
- Immobilization

Immobilization is principally applied to soil profiles contaminated with inorganic compounds. Typically, in-situ remediation requires a period of at least 6 months to a year or more to complete, considering the contaminants involved, the type of soils being remediated, the volumes of soil to be treated, regulatory permitting requirements, and the remediation goal.

9.2.3.1 Degradation

This technique is applicable to inorganic or organic compounds and essentially converts the contaminants in the soil into innocuous or less toxic compounds. There are two principal degradation techniques:

- Chemical
- Biological

9.2.3.1.1 Chemical Degradation

Chemical degradation techniques convert contaminants by promoting the natural capacity of the soil to support oxidation or reduction reactions or by adding suitable reagents to the contaminated soil profile through injection well systems. The effectiveness of chemical degradation depends on the types of contaminants in the soil profile, the type of soils comprising the contaminated soil profile, the volume of contaminated soil, the chemistry of the soil profile excluding the contaminants, the geotechnical and hydraulic properties of the affected soil, the ability to sustain a favorable chemical environment to allow degradation to proceed, and the remediation goal. Samples of the treated soil profile are collected on a regular basis to monitor the effectiveness of the treatment, and the treatment environment. Chemical degradation is generally utilized to remediate soils contaminated with inorganic compounds. The petroleum industry has demonstrated in the laboratory that organic compounds can also be chemically degraded in-situ.

9.2.3.1.2 Biologlcal Degradation

Biological degradation techniques utilize the action of indigenous bacteria and/or micro-organisms to metabolize the contaminants into innocuous or less toxic compounds. In-situ biological degradation is utilized principally to remediate soil profiles contaminated with organic compounds. The technique involves enhancing the population growth of bacteria and/or micro-organisms in the contaminated soil profile through the introduction of nutrients into (including oxygen) the soil profile using injection well systems. The technique can be enhanced by introducing specific micro-organisms genetically engineered to metabolize the contaminants into the contaminated soil profile. Samples of the treated soil profile are collected on a regular basis to monitor the effectiveness of the in-situ biological technique and the treatment environment. The effectiveness of the technique depends on the types of contaminants in the soil profile, the type of soils comprising the contaminated soil profile, the volume of affected soils, the geotechnical and hydraulic properties of the contaminated soil profi.le, the ability to sustain a favorable environment in-situ to allow the bacteria/micro-organisms to flourish, and the remediation goal.

9.2.3.2 Extraction

This technique mobilizes the contaminants in the soil profile so that they can be removed by physical means. The removed constituents are then treated on the surface. Extraction techniques are principally applied to - soil profiles that are contaminated with organic compounds exhibiting low to moderate boiling points and high to moderate vapor pressures. There are two principal extraction techniques:

- Heat or steam
- Vacuum

9.2.3.2.1 Heat or Steam Extraction

Heat or steam extraction involves injecting heated air or superheated steam into the contaminated soil profile to vaporize and/or mobilize the contaminants. The mobilized/volatilized contaminants are then either allowed to migrate vertically to ground water where the mobilized contaminants are recovered by ground-water extraction/treatment systems, or the volatilized contaminants are recovered from the soil profile by vacuum extraction/treatment systems. The effectiveness of heat or steam extraction depends on the types of contaminants in the soil profile, the chemical/physical characteristics of the contaminants, the type of soil comprising the contaminated soil profile, the hydraulic characteristics of the contaminated soil profile, the volume of soil to be treated, the efficiency of the injection/extraction system(s), and the remediation goal. Both techniques are monitored for effectiveness and control purposes through the use of monitoring wells completed within the treated soil profile. Samples of the contaminated soil profile are collected on a regular basis to determine decreases in contaminant concentrations in the soil profile being treated by this technique. More commonly, however, the effluent from the extraction system, prior to treatment at the surface, is sampled to determine the decrease in contaminant concentrations in the effluent, which is directly related to the amount of contaminant removed from the treated soil profile. Effectiveness and/or control can be adjusted through an increase or decrease of heat or superheated steam.

9.2.3.2.2 Vacuum Extraction

Vacuum extraction consists of applying a vacuum to the contaminated soil profile to draw off the contaminants for treatment at the surface. The technique is most applicable to organic compounds exhibiting low boiling points and high vapor pressures. The basic principle is that liquid organic compounds will vaporize to a state of equilibrium in the air spaces that surround soil particles, at ambient soil temperatures. If the air is not continuously replenished, the liquid organic compounds adsorbed on the soil particles will remain trapped on the surface of the soil particles until leached by percolating water, or removed by natural diffusion. Both of these natural processes are very slow, and may take many years to remove the organic compounds from the affected soil profile. Soil ventilation draws air between soil particles and thus accelerates the rate of vaporization of the adsorbed organic compounds. The contaminated air is then vented to a treatment system (capture media).

To achieve air flow through the contaminated soil profile, a vacuum is created through a network of well points distributed throughout the volume of contaminated soil. The well point network is connected to a control manifold, which in turn is connected to a fan or blower. The vacuum created by the fan or plower causes air to flow through the volume of contaminated soil, from the high pressure in the contaminated soil to the low pressure at the well point. The flow of air created due to the pressure differential (high to low pressure) causes the liquid organic compounds adsorbed on the soil particles to vaporize. Maintaining the flow of air and the pressure differential continually vaporizes the liquid organic compounds retained on the soil particles. Vaporization continues until all of the liquid organic compounds have been removed from the soil particles. The net effect is a decrease in the concentration of organic compounds within the soil profile.

The amount of vaporized organic compounds that can be vented is directly proportional to the volume of air moving through the zone of contaminated soil and the vacuum head created by the fan or blower. This in turn affects the pressure differential, resulting in increasing the vaporization rate. Enhanced recovery of organic compounds can be realized by increasing the temperature of the contaminated soil profile.

The effectiveness of vacuum extraction depends on the types of contaminants in the soil profile, the physical characteristics of the contaminants, the type of soil comprising the affected soil profile, the permeability of the soil profile, the volume of soil to be treated, the efficiency of the extraction system to maintain a constant air flow and vacuum head, and the remediation goal. The influence of the system on the volume of contaminated soil is determined by measuring the negative head (vacuum) at various distances from a well point. The mass removal rate of the system is determined by correlating the organic compound vapor concentrations measured at each well point, or at the discharge point at the fan or blower, and air flow rates generated by the fan or blower, to mass removal of liquid organic compounds in pounds per day from the volume of contaminated soil. ·,

9.2.3.2.3 Immobilization

This process is basically the same as ex-stu chemical fixation, except that liquid acid or base solutions are injected into the soil profile to precipitate heavy metals.

9.2.3.3 Implementability

The advantage of in-situ techniques is that the remediation takes place within the contaminated soil profile. No removal of the soil profile (excavation) is required. Site closure to conduct in-situ treatment is not required. All of these techniques offer a permanent solution for remediating the contaminated soil profile. In addition, these techniques have the potential for eliminating continuing liability because the contaminants are irreversibly remedied by these techniques.

The disadvantages of in-situ techniques include the high probability that migration of contaminants outside the treatment zone may occur despite properly coordinated injection/extraction controls, thereby increasing the risk of environmental exposures, and the off-site disposal/treatment of capture media which, in all probability, would be regulatory restricted. Chemical reactions generated by these treatment methods may produce organic, or inorganic, compounds that are more toxic/hazardous than the contaminant(s) being targeted. In addition, some of the petroleum hydrocarbons may exhibit high boiling points and low vapor pressures, which would render heat and/or steam extraction techniques marginally suitable, and vapor extraction techniques unsuitable.

9.2.4 Capping

This technique essentially involves the placement of a cap over the contaminated soil profile. The objective is to prevent precipitation from sustaining any lateral and/or vertical migration of contaminants within, or from, the impacted soil profile, and to prevent environmental exposures from occurring. Capping is also considered an interim remedial measure in anticipation of the development, or refinement, of a more technologically and less regulatory restricted remediation.

9.3 Ground Water Remediation

9.3.1 No Further Action

The no further action scheme is not a viable alternative because the concentrations of heavy metals in uppermost ground water exceed Cal-EPA Maximum Contaminant Levels (MCLs). Although uppermost ground water beneath the site is not used for drinking water purposes, there is the potential that it may be used as such in the future. At that time it may be demonstrated that adverse noncarcinogenic health effects or excess cancer risks exist from potential exposure via ingestion ai;id dermal absorption to the heavy metals and petroleum hydrocarbons in uppermost ground water beneath the site.

9.3.2 Extraction and Treatment

Prior to implementing this option it will be necessary to determine the geohydrology of the uppermost aquifer, and the lateral extent of heavy metals and- petroleum hydrocarbons in uppermost ground water beneath the site. Further, the types of petroleum hydrocarbons detected by the PEA sampling and analyses activities need to be identified to determine treatment options.

Therefore, it will be necessary to conduct a ground water remedial investigation to determine the geohydrology of the uppermost aquifer beneath the site, and the areal extent of heavy metals and types of petroleum hydrocarbons in uppermost ground water prior to considering this option.

This option is lengthy in scope. However, the option can be built and operated to accommodate the construction of the 1-880 Cypress Replacement, and operated following completion of the freeway until remediation is complete.

9.3.2.1 Preliminary Treatment Options

The technologies available for remediating surface water all involve treatment to remove the contaminants, and disposal of the treated water. There are four common proven technologies that are available which are specifically used to remove organic compounds from ground water:

- Carbon adsorption
- Air stripping
- Biotreatment
- **S.A.V.E.**

All four treatment techniques have consistently demonstrated the ability to remove organic compounds from ground water to concentrations which meet or are below maximum contaminant levels or primary drinking water standards. Typically, treatment depends upon the contaminants involved, the volume amount of ground water to be treated, the flow rate at which surface water is being treated, and regulatory permitting requirements. Both techniques offer a permanent solution with respect to remediating petroleum hydrocarbons in the uppermost ground water beneath the site. In addition, these techniques eliminate continuing liability because the contaminants are irreversibly remedied by these techniques.

9.3.2.1.1 Carbon Adsorption

This physical treatment mechanism occurs when an organic molecule is brought to an activated carbon surface and held there by adsorptive forces, principally tension. The adsorption mechanism consists of diffusion of an organic molecule in the liquid phase to the carbon granule, diffusion through the pore space within the granule to the adsorption site, and adsorption of the organic molecule to the surface of the granule (adsorption site). The physical characteristics of the organic molecule will determine the rate of each step and, finally, the amount of time required for _the entire adsorption processes. Less soluble organic molecules, for example, **will** diffuse rapidly to the carbon particle. Large organic molecules will move slowly through the pore space distribution of the carbon granule, thereby delaying adsorption. Organic compounds exhibiting low water solubilities and small molecular size are very amenable to activated carbon adsorption, enabling effective use of adsorption surface areas within the carbon granule. What makes activated carbon such an excellent adsorbent is the large degree of surface area contained within the carbon granule that is accessible for the adsorption process. Surface areas of granular carbons range up to 44,000 fl^2 per ounce of material. A wide variety of activated carbons are available, and properties such as surface area and pore size distribution will determine their applicability.

Activated carbon adsorption may be accomplished by utilizing fixed or moving carbon beds in upright cylindrical vessels, arranged in series or parallel to treat the influent.

The fixed beds may employ downflow or upflow of the influent through the static activated carbon bed. Moving beds employ upflow of the influent and downflow of loose activated carbon. The quantity of an organic compound or group of organic compounds that can be adsorbed by activated carbon is determined by a balance between the forces that keep the organic compound in solution and the adsorptive forces that attract the organic compound to the carbon surface. Factors that affect this balance include:

- Adsorptivity, which increases as contaminant solubility decreases.
- The class of the organic compound.
- Temperature• adsorption capacity decreases **with** increasing temperature, although the rate of adsorption may increase.

In addition, carbon adsorption system performance is sensitive to the variations in influent flow and chemical composition of the influent. When the adsorptive capacity of the activated carbon is maximized, the spent carbon is removed from the system and regenerated for subsequent reuse. The contaminants adsorbed are either recycled or effectively destroyed during the regeneration cycle.

9.3.2.1.2 Air Stripping

The basic concept of this technique is to bring the contaminated ground water into intimate contact with ambient air, so that the organic compounds in the ground water can undergo a phase change (liquid to vapor). The vaporized compounds' are then vented directly to the atmosphere, or are discharged to a treatment system before being vented to the atmosphere, depending upon air quality regulatory requirements. The treated water can be discharged directly to waste, or may require further treatment to facilitate discharge to waste. An air stripping system typically consists of an upright cylindrical vessel containing a layer of loose or structured, high-efficiency packing material. Air and contaminated water are conducted counter-current to one another through the packing material. Typically, air is forced upward at the base of the cylinder utilizing a fan or blower, with contaminated water being passed downward through the cylinder utilizing a spray nozzle or distributor tray fitted at the top of the cylinder. The packing media enhances the air/liquid contact by exposing a greater amount of water to the air passing upward through the cylinder. The greater the surface area of the packing material exposed, the greater the opportunity for vaporization into the upward passing air of the organic compounds in the water being treated. The passing air carries the vaporized organic compounds out of the stripper vessel and into the atmosphere. The treated water passes out the base of the stripper vessel to be discharged directly, or to be treated, **if** necessary, to meet discharge requirements.

The effectiveness of an air stripping system depends on the flow rate of both water and air, the influent and effluent concentrations of both air and water, the packing media utilized, the height of the packing media, and the diameter of the cylindrical vessel.

9.3.2.1.3 Biotreatment

Biotreatment is a proven technology for reducing the concentrations of petroleum hydrocarbons in ground water. The relative cost effectiveness of this technology is usually best when diesel or heavier oils are involved which preclude the use of other competing technologies. Biotreatment is the most complex of all the listed treatment technologies to install, start-up, and operate, and requires frequent monitoring and care of the bioculture. The advantage over air stripping is that nearly all of the petroleum hydrocarbons are destroyed by decay and converted into harmless compounds, primarily CO_2 and $H_2$0, rather than simply being transferred to other media. To meet NPDES requirements, polishing the biotreatment effluent is required before discharge.

9.3.2.1.4 S.A.V.E.

The S.A.V.E. system (spray, aeration, vacuum, extraction) is manufactured and distributed by Remediation Service International (RSI}. Since the system integrates three separate remediation methods, it purports to be more efficient than the individual systems for treating both soil and ground water. The three methods are: vapor extraction from soil, spray aeration treatment of ground water, and thermal oxidation using an internal combustion engine for burning hydrocarbon laden vapors. A catalytic convertor is used to control the exhaust emissions.

The soil vapor extraction system consists of a vacuum pump driven by the internal combustion engine. The vacuum on the soil causes the hydrocarbons to volatilize and migrate with the induced flow of air to the engine where they are burned as fuel.

Ground water is remediated using a spray aerator. The spray aerator tank makes use of both vacuum and heat. The reduced pressure caused by the partial vacuum results in a lower temperature at which the hydrocarbons will vaporize. This temperature increase caused by heating the water further increases vaporization. The process includes drawing gasoline contaminated water from an extraction well under a partial vacuum and sprayed in the spray aeration tank where the hydrocarbons are vaporized. The gas vapors are used as fuel in the engine. The water is recirculated in the tank until the level of gasoline removed meets discharge requirements.

9.3.2.2 Implementability

For the treatment methods, the principal disadvantage is the off-site disposal/treatment of capture media, i.e. carbon and stripping tower packing material which may be regulatory restricted. In addition, it is very probable that air stripping contaminated water and discharge to the atmosphere would also be restricted by the regulatory community. However, all of the treatment options are feasible.

10.0 CERTIFICATION

To the best of our knowledge, all statements and information provided in this report are true and correct.

& eWu,/r,0

Ronald **W.** Michelson

Registered Geologist (CA-3875)

RONALD W. MICHELSON
No. 3375
Exp 6/94

TABLE 2.2.1

Preliminary Endangerment Assessment

Phoenix eoo
800 Cedar Street
Oakland, Alameda County, California
Past and Current Site Activities

NAME OF BUSINESS	**TYPE OF BUSINESS**	**DATES OF OPERATION**	**BUSINESS OPERATOR**	**PROPERTY OWNER**
a) J & A Machine Shop	Auto Parts/Valve Manufacturer	1985 to Present	Tanya Skrabo	Phoenix Properties
b) Phoenix Iron Works	Structural Steel Molds Industrial Construction Castings/Bushings	Approximately 1970 to Present	Welden L. Russell	Phoenix Properties
c) Michael Bondi Metal Design	Constructs Wrought Iron Gates, Stairs, Railings, Furniture, & Assessories	1987 to Present	Michael Bondi	Phoenix Properties
d) Cypress Auto Parts	Buy/Sell Auto Parts	Approximately 1970 to Present	Michael K. Percey William S. Percey	Phoenix Properties
e) Ivan's Auto Body	Buy/Sell Auto Parts	Past (Unknown)	Unknown	Phoenix Properties
f) Pine Iron Works	Iron Works	Past (Unknown) to 1990	Arthur Hovack	Phoenix Properties
g) Unknown Plastic Bag Co.	Plastic Bags	Unknown	Unknown	Phoenix Properties
h) Vennell Steel	Steel	Unknown	Unknown	Unknown
i) Independent Iron Works	Manufacturer of Industrial Steel Products	1924 to approximately 1960	Henry Gede, Jr. W.G. Meagher	Henry Gede Jr. W.G. Meagher
j) California Fireworks	Manufacturer of Fireworks (Wholesale & Jobber)	Approximately 1923 to 1927	Henry Graft	Unknown
k) The Dunn Cracker Co.	Crackers	Approximately 1889 to 1902	Unknown	Unknown
l) Calif. Bedding & Upholstering Co.	Bedding/Upholstering	Approximately 1902 to 1912	Unknown	Unknown
m) Unknown	Soap Factory	Possibly between 1912-1931	Unknown	Unknown
n) Terminal Manufacturing	Unknown	Unknown	Unknown	Unknown

TABLE 2.2.5

Preliminary Endangerment Assessment

Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

Site Business Activities or Manufacturing Processes

TYPE OF **BUSINESS**	**TYPES** OF PRODUCTS SOLD	**QUANTITIES** OF **PRODUCTS** SOLD **(ANNUAL)**	**PRIMARY CHEMICALS UTILIZED OR HANDLED**	**MAJOR CHEMICAL AND/OR PHYSICAL PROCESSES**
a) Auto Pans Manufacturer	Auto Pans	Unknown	Unknown	Unknown
b) Iron Works	Structural Steel Molds Industrial Construction Castings/Bushings	Unknown	Iron/Aluminum	Crucible Furnace Careless Induction Furnace
c) Wrought Iron Designs	Wrought Iron Gates Stairs. Railings. Furniture Accessories	Iron	Unknown	Unknown
d) Auto Parts Manufacturer	Auto Pans	Unknown	Unknown	Unknown
e) Auto Parts Sales	Buy/Sell Used Auto Parts	Unknown	Unknown	Unknown
I) Iron Works	Iron Products	Small quantity generator	Unknown	Unknown
g) Unknown Plastic Bag Company	Plastic Bags	Unknown	Unknown	Unknown
h) Steel Company	Unknown	Unknown	Unknown	Unknown
i) Manufacturer of Structural Steel	Steel Buildings Service Stations Tanks - Steel Boats/ Truck Tanks & Bodies/Bridges/Barges Cargo/Booms Bolts/Rods/Prefabricated Ship Parts	Unknown	Unknown	Unknown
j) Manufacturer of Fireworks	Fireworks	Unknown	Unknown	Unknown
k) Bake Crackers	Crackers ,	Unknown	Unknown	Unknown
l) Bedding/Upholstery	Bedding/Upholstery	Unknown	Unknown	Unknown
m) Soap Factory	Soa·p	Unknown	Unknown	Unknown
n) Unknown	Unknown	Unknown	Unknown	Unknown

TABLE 2.3.1

Preliminary Endangerment Assessment

Phoenix 800
soo Cedar Street
Oakland, Alameda County, California

Hazardous Substances/Wastes Identification and Quantities

NAME OF BUSINESS	TYPE OF BUSINESS	DATES OF OPERATION	HAZARDOUS SUBSTANCES UTILIZED AND AMOUNTS	HAZARDOUS WASTES GENERATED AND AMOUNTS
a) J & A Machine Shop	Auto Parts Valve Manufacturer	1985 to Present	Unknown	Unknown
b) Phoenix Iron Works	Structural Steel Molds Industrial Construction Castings/Bushings	Approximately 1970 Present	Unknown	Unknown
c) Michael Bondi Metal Design	Constructs Wrought Iron Gates, Stairs, Railings, Furniture, & Assessories	t987 to Present	Unknown	Unknown
d) Cypress Auto Parts	Buy/Sell Auto Parts	Unknown to Present	Oxygen & Acetylene (variable amounts)	Gasoline and Waste Oil (variable amounts)
e) Ivan's Auto Body	Buy/Sell Auto Parts	Past (Unknown)	Unknown	Unknown
f) Pine Iron Works	Iron Works	Past - 1990	Paint, Napthla (unknown amounts)	Paint, Paint Thinner, Waste Oil (unknown amounts)
g) Unknown Plastic Bag Co.	• Plastic Bags	Unknown	Unknown	Unknown
h) Vennell Steel	Steel	Unknown	Unknown	Unknown
i) Independent Iron Works	Manufacturer of Industrial Steel Products	1924 to Approximately 1960	Unknown	Unknown
j) Calttornia Fireworks	Manufacturer of Fireworks (Wholesale/Jobber)	1923 - 1927	Unknown	Unknown
k) The Dunn Cracker Co.	Crackers	Approximately 1889 - 1901	Unknown	Unknown

TABLE 2.3.2

Preliminary Endangerment Assessment

Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

Hazardous Substances/Wastes On-Site Storage, Treatment, Disposal

NAME OF BUSINESS	TYPE OF BUSINESS	TYPE OF **STORAGE**	NUMBER	**CAPACITY**	**DATES OF OPERATION**	CONTAINM **AND/OR MONITORI**
a) J & A Machine Shop	Auto Parts Valve Manufacturer	Unknown	Unknown	Unknown	Unknown	Unknown
b) Phoenix Iron Works	Structural Steel Molds Industrial Construction Castings and Bushings	Underground Storage Tanks	Two	Unknown	Unknown	Unknown
c) **Michael** Bondi Metal Design	Constructs Wrought Iron Gates, Stairs, Railings Furniture and Assessories	Unknown	Unknown	Unknown	Unknown	Unknown
d) Cypress Auto Parts	Buy/Sell Auto Parts	Unknown	Unknown	Unknown	Unknown	·Unknown
e) Ivan's Auto Body	Buy/Sell Auto Parts	Unknown	Unknown	Unknown	Unknown	Unknown
f) Pine Iron Works	Iron Works	Unknown	Unknown	Unknown	**Unknown**	Unknown
g) Unknown Plastic Bag Company	Plastic Bags	Unknown	Unknown	Unknown	**Unknown**	Unknown
h) Vennell Steel	Steel	Unknown	Unknown	Unknown	Unknown	Unknown
i) Independent Iron Works	Manufacturer of Industrial Steel Products	Unknown	Unknown	Unknown	Unknown	Unknown
j) California Fireworks	Manufacturer of Fireworks	Unknown	**Unknown**	Unknown	Unknown	Unknown
k) The Dunn Cracker Company	**Crackers**	Unknown	Unknown	Unknown	Unknown	Unknown

TABLE 2.3.4

Preliminary Endangerment Assessment

Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

Regulatory Status

BUSINESS	INSPECTION	REGULATORY **AGENCY** CONDUCTING INSPECTION	RESULTS OF INSPECTION
a) J & A Machine Shop	None	None	Not Applicable
b) Phoenix Iron Works	No Violations Between 1/1/89 . 3/11/93	BAAQMD	No Violations
c) Michael Bondi Metal Design	None	None	Not Applicable
d) Cypress Auto Parts	None	None	Not Applicable
e) Ivan's Auto Body	None	None	Not Applicable
f) Pine Iron Works	Air Emissions	BAAQMD	No Violations
g) Unknown Plastic Bag Company	None	None	Not Applicable
h) Vennell Steel	None	None	Not Applicable
i) Independent Iron Works	None	None	Not Applicable
j) California Fireworks	None	None	Not Applicable
k) The Dunn Cracker Company	None	None	Not Applicable

TABLE 4.1.5

Preliminary Endangerment Assessment

Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

Permeability of Site Soils

SOIL TYPE	DEPTH (INCHES)	WATER CAPACITY (INCHES/INCHES)	PERMEABILITY (INCHES/HOUR)
Urban Land - Baywood Complex	o to 16	0.07 to 0.10	6 to 20
Urban Land - Baywood Complex	16 to 60	0.06 to 0.09	6 to 20

TABLE 4.2.2

Preliminary Endangerment Assessment

Phoenix BOO
BOO Cedar Street
Oakland, Alameda County, California

Site Geology

UNIT	LITHOLOGY	DEPTH	THICKNESS
Merritt Sand (includes overlying Urban Land - Baywood Complex Soil)	Fine-grained silty, clayey sand, with lenses of sandy clay and clay. Yellowish-brown to dark yellowish-orange. Well-sorted. Contains small fragments ol roots, twigs, grass. No bedding. Aeolian deposit, erratic distribution.	2.5 feet	2.5 to approximately 3
Older Bay Mud (includes Alameda Formation)	Predominately silty clay with varying thicknesses of interbedded sand and fine gravel. Dark greenish-gray. Frequent lateral and vertical grading of sand and gravel interbeds with surrounding silty clay. Occasional sharp contacts between sand and gravel interbeds and silty clay. Some crossbedding.	Approximately 35 to 50 feet	1 to 200 feet
Franciscan Formation (BEDROCK}	Fractured and sheared sandstone, shale, limestone, chert, and metavolcanic rock. Irregular erosional surface.	Grealer than 350 feet	Unknown

TABLE 4.2.2.a

Preliminary Endangerment Assessment

Phoenix 800
BOO Cedar Street
Oakland, Alameda County, California

Site Hydrogeology

GEOLOGIC UNIT	AQUIFER	AQUITARD	DEPTH TO GROUND WATER	MAGNITUDE AND DIRECTION OF HYDRAULIC GRADIENT	HYDRAULIC CONDUCTIVITY (CM/SEC)	FLOW VELOCITY (FEET/DAY)	WATER QUALITY	PRODUCTION WEL
Merritt Sand (Includes overlying Urban Land - Baywood Complex Soil)	Unconfined in overlying soil and within unit at depth.	Lenses of silty clay and clay. Probably laterally and vertically discontinuous.	6 to 8 feet	Southwest for ground water in soil. Unknown for deeper ground water in unit	Unknown for soil. Unit values range from $10^{\cdot 1}$ to 1ff'	Unknown for Soil Unit values range from 10' to tff'	Regionally, portions of Unit contains ground water that meets California Secondary Drinking Water Quallty Standards. Saltwater intrusion is possible.	No water supply we in vicinity or region the site
Older Bay Mud (includes Alameda Formation)	Semi-confined to confined occurring in interbedded sand and gravels.	Silty clay which separates aquifers. Considered continuous laterally and vertically beneath the site.	200 to 500 feet	Unknown	Unknown	Unknown	Regionally, portions of Unit contains ground water that meets Calffornla Primary Drinking Water Quality Standards. Saltwater intrusion Is possible.	No water supply we in vicinity of the sit Eight active industr water supply wells a located on the Alameda Naval A Station approximate mile west of the si

TABLE 4.2.4

Preliminary Endangerment Assessment

Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

Aquifer Usage

AQUIFER	USE	DISTANCE TO NEAREST WELL FROM SITE	GROUND WATER FLOW DIRECTION ANO VELOCITY	SERVICE CONNECTIONS AND POPULATION SERVED BY WELLS	ACRES OF LAND IRRIGATED	LIVESTOCK CONSUMPTION
Merritt Sand (Includes overlying Urban Land - Baywood Complex Soil)	None	No production wells are completed in the Merritt Sand in the region of the site.	Unknown	None	None	None
Older Bay Mud (includes Alameda Formation)	Industrial water supply	Eight active industrial water supply wells are located on the Alameda Naval Air Station approximately 1 mile west of the site.	Unknown	None	None	None

TABLE 4.2.6

Preliminary Endangerment Assessment

Phoenix 800
BOO Cedar Street
Oakland, Alameda County, California

Distance to Surface Water, Marshlands, Wetlands, and Critical Habitats Nearest the Site

TYPE	**NAME**	DISTANCE FROM SITE (MILES)
SURFACE WATER	Oakland Inner Harbor	0.95
	Oakland Outer Harbor	0.85
	Oakland Middle Harbor	1.05
MARSHLANDS	Emeryville Crescent	1.3
WETLANDS	Wetland A (see Figure 4.2.6)	1.1
	Wetland B (see Figure 4.2.6)	1.1
CRITICAL HABITATS		
Alameda Naval Air Station	California Least Tern	1.8
Alameda South Shore	California Clapper Rail	4.0
Lake Merritt	California Brackishwater Snail	1.5
	Tidewater Goby	2.2
Adeline Station (Berkeley)	Santa Cruz Tarplant	1.8
Emeryville Crescent	Salt Marsh Harvest Mouse	1.5
Berkeley (see Figure 4.2.6)	California Black Rail	1.6
Aquatic Park, Berkeley	Tidewater Goby	2.4
San Francisco Bay	Double Crested Cormorant	2.3

TABLE 4.3.2

Preliminary Endangerment Assessment

Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

Daily Prevailing Wind Direction
and
Daily Average Wind Velocity

MONTH	MEAN WIND SPEED(MPH)	PREVAILING DIRECTION	FASTEST MILE (SPEED • MPH)	FASTEST MILE (DIRECTION)	YEAR
LENGTH OF RECORD (YEARS)	30	21	29	29	
January	6.7	- SE	46	SW	1964
February	7.3	W	49	SW	1953
March	9.0	W	45	SW	1949
April	9.5	W	55	SW	1960
May	10.0	W	50	SW	1949
June	10.0	W	62	SW	1950
July	9.3	WNW	26	SW	1961
August	9.0	WNW	29	SW	1966
September	7.8	WNW·	33	N	1959
October	6.8	WNW	43	SW	1950
November	6.3	WNW	46	N	1952
December	6.5	E	40	SW	1951
YEARLY AVERAGE	8.2	W	49	SW	2/93

TABLE 4.3.3

Preliminary Endangerment Assessment

Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

Local Climatic Factors

MONTH	TEMP NORMAL DAILY MAXIMUM	TEMP NORMAL DAILY MINIMUM	TEMP MONTHLY NORMAL	PRECIP NORMAL	PRECIP MONTHLY MAX	PRECIP MONTHLY MIN	PRECIP 24 HR MAX	MEAN WIND SPEED (MPH)	PREVAILING DIRECTION	FASTEST MILE (SPEED - MPH)	FASTEST MILE (DIRECTION)	YEAR
LENGTH OF RECORD (YEARS)					49	49		30	21	29	29	
January	54.5	42.7	48.6	4.03	8.90	0.29	3.30	6.7	SE	46	SW	196
February	58.0	45 7	51.9	2.83	8.85	0.02	2.41	7.3	W	49	SW	1950
March	60.2	47.2	53.7	2.32	5.69	0.04	2.76	9.0	W	45	SW	194:)
April	62.8	49.4	56.1	1.50	4.60	T	2.21	9.5	W	55	SW	1960
May	65.4	52.4	58.9	0.14	1.21	T	1.45	10.0	W	50	SW	19 '1
June	68.5	55.2	61.9	0.14	1.21	0.00	1.03	10,0	W	62	SW	19S{l
July	69.7	56.4	63.1	0.01	0.60	0.00	0.78	9.3	WNW	26	SW	1961
Augus1	70.2	56.8	63.5	0.03	0.74	0.00	0.42	90	WNW	29	SW	19Gl,
September	72.3	56.6	64.5	0.18	3.27	0.00	3.23	7.8	WNW	33	N	19'..l'.l
October	68.7	53.4	61.1	1.08	5.56	T	3.45	6.8	WNW	43	SW	195(1
November	62.0	485	55.3	2.37	7.42	0.00	2.67	6.3	WNW	46	N	19S:'
December	55.5	44.2	49.9	3.87	11.29 -	0.28	3.21	6.5	E	40	SW	1%1
YEARLY AVERAGE	64.0	50.7	57.4	18.69	11.29	0.00	3.45	8.2	W	49	SW	2ri::

TABLE 4.3.7

Preliminary Endangerment Assessment

Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

Distance to Schools. Day Care Centers, Hospltals, Nursing Homes, Retirement Communities, and Senior Citizen Communities

TYPE	**NAME**	**DISTANCE FROM SITE (MILES)**
SCHOOL	Cole Elementary School	0,7
SCHOOL	Prescott Elementary	0,2
SCHOOL	Lowell Junior High School	1.0
SCHOOL	Lafayette High School	1.0
SCHOOL	Hoover Junior High School	2.75
SCHOOL	Durant School	2.75
SCHOOL	McClymond's High School	2.4
DAY CARE CENTER	Oakland Parent/Child Center	0.9
HOSPITAL	Hillhaven Convalescent Hospital	2.25
HOSPITAL	Peralta Hospital	2.1
HOSPITAL	Providence Hospital	2.25
HOSPITAL	Merritt Hospital	2.5
HOSPITAL	Kaiser Permanente Medical Center	2.7
HOSPITAL	Children's Hospital	2.7

TABLE 5.1.a

Preliminary Endangerment Assessment

Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

Soil Analytical Results . Organics
Baseline Environmental Consultant's • First Phase Site Investigation

Boring	**Sample Depth**	TPH-D	TPH-G	Benzene	Toluene	**EthylBenzene**	**Total Xylenes**
	(FBGS)	(mg/kg)	(mg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
PP-4	4.5-5.0	ND	ND	ND	ND	ND	ND
PP-5	5.0-5.5	ND	ND	ND	ND	ND	ND
PP-6	5.0-5.5	ND	ND	ND	ND	ND	ND
PP-7	5.5-6.0	ND	ND	ND	ND	ND	ND
pp.g	4.5-5.0	ND	ND	ND	ND	ND	ND
REPORTING LIMIT		2.5	5.0	5.0	5.0	5.0	5.0

(FBGS)	Feet below ground surface
TPH-D	Total petroleum hydrocarbons as diesel
TPH-G	Total petroleum hydrocarbons as gasoline
mg/kg	milligrams/kilogram
µg/kg	micrograms/kilogram
ND	Not detected in excess of Reporting Limit

TABLE 5.1.b

Preliminary Endangerment Assessment
Phoenix 800
aoo Cedar Street
Oakland, Alameda County, California

Soil Analytical Results . Metals
Baseline Environmental Consultant's - First Phase Sile Investigation

Boring	PP-5 2.0-2.5 FT	PP-6 2.0-2.5 FT	PP-7 2.0-2.5 FT	**PP-8 2.0-2.5 fT**	**PP-9** 1.5-2.0 FT	Report Limit
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/k
Analyte						
Antimony	1	1	ND	1	2	1
Arsenic	4	4	3	5	ND	3
Barium	47	59	46	45	49	4
Beryllium	0.2	0.3	0.2	0.2	0.2	0.1
Cadmium	ND	0.2	ND	ND	0.2	0.2
Total Chromium	30	34	28	31	31	6
Cobalt	3.8	4.8	4.0	3.7	4.4	0.5
Copper	6	10	6	7	¼	1
(Lead·-)	14	52(2.26)	10	13	13	3
Mercury	ND	ND	ND	ND	ND	0.2
Molybdenum	0.7	0.8	0.7	0.7	0.8	0.5
Nickel	18	19	15	14	18	2
Selenium	3	2	ND	3	4	2
Silver	ND	ND	ND	ND	ND	0.5
Thallium	8	8	7	8	3	2
Vanadium	19	21	17	21	20	4
Zinc	18	56	15	19	19	2

mg/kg	milligrams/kilogram
ND	Not detected in excess of Reporting Lim
(2.26)	Soluble concentration in mg/l

TABLE 5.1.c

Preliminary Endangerment Assessment

Phoenix BOO
aoo Cedar Street
Oakland, Alameda County, California

Soil Analytical Results - 601/8010 & 8270
Baseline Environmental Consultant's • First Phase Site Investigation

Boring	**Sample Depth**	**EPA 601/8010**	**EPA 8270**
	(FBGS)	(ug/kg)	(mg/kg)
PP-5	5.0-55	NO	NO
PP-6	5.0-5.5	NO	NO
pp.7	5.5-6.0	NO	NO
PP-8	4.5-5.0	NO	NO
pp.g	4.5-5.0	NO	NO
REPORTING LIMIT		5.0	0.5

(FBGS)	Feet below ground surface
mg/kg	milligrams/kilogram
ug/kg	micrograms/kilogram
NO	Not detected in excess of Reporting Limit

TABLE 5.1.d

Preliminary Endangerment Assessment
Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

SOU and Ground Water'Analytical Results - Organics
Geo/Resource Consultant's - First Phase Site Investigation

Boring	**Sample Depth**	**TRPH**	**TPH-G**	**TPH-D**
	(FBGS)	(mg/kg)	(mg/kg)	(mg/kg)
PPBO0/B-1	1.5	NA	NA	ND
	4.0	NA	ND	ND
	7.5	NA	ND	ND
PPSO0/H-1	1.5	NA	**10**	**1,600**
	4.0	NA	17	**2,400**
	7.5	NA	ND	ND
PPSOO/W-1	1.5	NA	ND	ND
	6.0	NA	ND	ND
	8.0	NA	ND	ND
PPS0O/W-1 (Ground Water Sample)			ND	ND
REPORTING LIMITS		5.0 (1.0)	5.0 (1.0)	5.0

(FBGS)	Feet below ground surface
TRPH	Total recoverable petroleum hydrocarbons
TPH-G	Total petroleum hydrocarbons as gasoline
TPH-D	Total petroleum hydrocarbons as l'liesel
mg/kg	milligrams/kilogram
NA	Not analyzed
ND	Not detected in excess of Reporting Lim
(1.0)	Reporting limit for ground water analyses

TABLE 5.2.3

Preliminary Endangerment Assessment

Phoenix BOO
BOO Cedar Street
Oakland, Alameda County, California

Soil Sampling Summary

BORING	SAMPLE	DEPTH (FBGS)	CLASSIFICATION
SB1	SB1A	3.0	Sand
	SB1B	5.5	Sand
	SB1C	7.0	Silty Sand
	SB1D	9.0	Silty Sand
	SB1E	11.0	Silty Sand
SB2	SB2A	3.5	Silty Sand
	SB2B	5.5	Silty Sand
	SB2C	7.5	**Sand**
	SB2D	9.5	Sand
SB3	SB3A	3.0	Sand
	SB3B	55	Sand
	SB3C	7.0	Sand
	SB3D	9.5	Sand

FBGS Feet below ground surface

TABLE 5.3.1.a

Preliminary Endangerment Assessment

Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

Soil Analytical Protocol

Analyses	USEPA Method	Sample Size	Container Size	**Preservative**	Holding Time (Days)	Reporting Limit (mg/kg)
TPH-D	3550-8015	1	2 x 6 Inch SS Tube	4 Degrees C	14	1
voe	8240	1	2 • 6 Inch SS Tube	4 Degrees C	14	**Various**
SVO	8270	1	2 x 6 Inch SS Tube	4 Degrees C	14	Various
WET	CCR 667000					
TCLP	1311					
Metals	6010	1	2 x 6 Inch SS Tube	4 Degrees C	28	Various

TPH-G	Total petroleum hydrocarbons as gasoline
TPH-D	Total petroleum hydrocarbons as diesel
Metals	lead, zinc. nickel. cadmium. total chromium
WET	**Waste** Extraction Test
TCLP	Toxicity characteristic leaching potential
CCR	California Code of Regulations
SS	Stainless steel
C	Degrees centigrade .
mg/kg	milligrams/kilogram
SVO	Semlvolatile organic compounds
voe	Volatile organic compounds

TABLE 5.3.1.b

Preliminary Endangerment Assessment

Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

Ground Water Analytical Protocol

Analyses	**USEPA Method**	**Sample Size**	Container **Size**	**Preservative**	Holding Time	Reporting Limit
					(Days)	(µg/1)
TPH-D	3550-8015	2	1 liter	None	14	50
svo	625	2	1 liter	None	14	Various
voe	624	2	40 milliliter	None	14	Various
Metals	6010	1	200 milliliter	HNO, to pH < 2	28	Various

TPH-D	Total petroleum hydrocarbons as diesel
SVO	Semivolatile organic compounds
voe	Volatile organic compounds
Metals	lead, zinc, cadmium, total chromium, nickel
HNO,	Nitric acid
µg/1	micrograms/liter

TABLE 5.3.1.c

Preliminary Endangerment Assessment

Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

Soil Analytical Results - Metals/Organics

ANALYTE		Cd	Cr	Pb	**Ni**	Zn	TPH-G	TPH-D	voe	SV
CONCENTRATION		mg/kg							µg/kg	mg/
DETECTION **LIMIT**	**SAMPLE DEPTH**	0.05	0.50	0.50	0.50	0.50	1.0	1.0	VARIOUS	VARIO
SAMPLE ID										
SB1A	3.0	ND	24	2.7	18	14	ND	ND	ND	ND
SBIB	5.5							ND		
SBIC	7.0							ND		
SB1D	9.0							ND	ND	
SBIE	11.0							ND		
SB2A	3.5	ND	21	2.5	18	13	ND	ND	ND	ND
SB2B	5.5							ND		
SB2C	7.5							ND		
SB2D	9.5							ND	ND	
SB3A	3.0	ND	21	6.3	16	16	ND	ND	ND	ND
S63B	5.5							ND		
SB3C	7.0							ND		
SB3D	9.5							ND	ND	

Cd	Cadmium
Cr	Total chromium
Pb	Lead
Ni	Nickel
Zn	Zinc
TPH-D	Total petroleum hydrocarbons as diesel
TPH-G	Total petroleum hydrocarbons as gasoline
mg/kg	Milligrams per kilogram
ND	Not detected in excess of detection limit
voe	Volatile organic compounds
SVO	Semivolatile organic compounds

TABLE 5.3.1.d

Preliminary Endangerment Assessment

Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

Ground Water Analytical Results - Metals/Organics

ANALYTE	Cd	Cr	Pb	Ni	Zn	TPH-D	voe	svo
CONCENTRATION	mg/l	mg/l	mg/l	mg/l	mg/l	µg/l	µg/l	mg/l
DETECTION LIMIT	0.001	0.01	0.01	0.02	0.005	50	VARIOUS	VARIOUS
SAMPLE ID								
HPSB1	ND	0.04	0.08	0.03	0.04	140	ND	ND
HPSB2	ND	0.04	0.10	0.02	0.02	260	ND	ND
HPSB3	ND	0.05	0.12	0.01	0.02	220	ND	ND

Cd	Cadmium
Cr	Total chromium
Pb	Lead
Ni	Nickel
Zn	Zinc
TPH-D	Total petroleum hydrocarbons as diesel
mg/l	Milligrams per kilogram
µg/l'	micrograms per kjlogram
ND	Not detected in excess of detection limit
voe	Volatile organic compounds
svo	Semivolatile organic compounds

TABLE 6.1.2

Preliminary Endangerment Assessment
Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

BASELINE RISK ASSESSMENT

Selection of Indicator Chemicals

METAL	Sb	As	Ba	Be	Cd	Cr VI	Co	Cu	Pb	Hg	Mo	Ni	Se	Tl	V	Zn
VALUE																
A	2	5	59	0.3	0.2	34	4.8	10	52	ND	0.8	19	4	8	21	56
C	0.0004	NV	0.05	0.0005	0.0003	NV	NV	0.037	0.0014	0.0003	NV	0.01	0.003	0.0004	0.02	0.21
D	NV	15	NV	NV	NV	NV	NV	NV	NV	NV	NV	NV	NV	NV	NV	NV
E	2,500		20	2,000	3,333	0		27	714	3,333		100	333	2,500	50	5
G	5,000		1,180	600	667			270	37,128			1,900	1,332	20,000	1,050	280
I		3.54														
K	69,441															
M	3.54															
0	'9.07		0.02	0.009	0.01			0.004	0.53			0.03	0.02	0.29	0.02	0.004
a		1														

KEY TO TABLE 6.1.2

VALUE	DESCRIPTION
A	Highest Soil Concentration Detected (Cih) (mg/kg)
C	Chronic Reference Dose (RID) (mg/kg day ')
D	Slope Factor (SF) ([mg/kg/day]'")
E	Inverse of the Chronic Reference Dose (1/RID)
G	(Cih)(t /RID)
H	(Cil)(1/RID)
I	(Cih)(SF)
K	Total Risk Factor (RID basis) Rih(RfD) = Sum of (Cih)(1/RfD)
M	Total Risk Factor (SF basis) Rih(SF) = Sum of (Cih)(1/SF)
0	(Cih)(1/RID) / Rih(RID)
Q	(Cih)(1/SF) / Rih(SF)

METALS

Sb	Antimony
As	Arsenic
Ba	Barium
Be	Beryllium
Cd	Cadmium
Cr VI	Chromium VI
Co	Cobalt
Cu	Copper
Pb	Lead
Hg	Mercury
Mo	Molybdenum
Ni	Nickel
Se	Selenium
Ag	Silver
Tl	Thallium
V	Vanadium
Zn	Zinc

RfDs and SFs were obtained from the USEPA's Superfund Public Health Evaluation Manual, [SPHEAM] October 1986).

NV = No Value

TABLE 6.1.3

Preliminary Endangerment Assessment

Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

BASELINE RISK ASSESSMENT

List of Indicator Chemicals

INDICATOR CHEMICAL	CHRONIC REFERENCE DOSE (RID)	SLOPE FACTOR (SF)
Antimony	0.00004 mg/kg-day	NV
Arsenic	NV	15 (mg/kg-day)"
Chromium VI	NV	NV
Lead	0.0014 mg/kg-day	NV
Thallium	0.0004 mg/kg-day	NV

•

TABLE 6.5.1.a

Preliminary Endangerment Assessment

Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

BASELINE RISK ASSESSMENT

Chronic Hazard Quotient and Chronic Hazard Index

Ingestion

INDICATOR CHEMICAL	Antimony	Lead	Thallium	CHI (Adult)
MAXIMUM CONCENTRATION O • 3 FBGS (mg/kg)	2	52	6	
RID **(mg/kg-day)**	0.0004	0.0014	0.0004	
I (mg/kg-day) [adult]	9.8 x 10'"	2.5 x 10'"	4.0 x 10-o	
CHO Adult	0.002	0.02	0.01	0.032

TABLE 6.5.1.b

Preliminary Endangerment Assessment

Phoenix 800
BOO Cedar Street
Oakland, Alameda County, California

BASELINE RISK ASSESSMENT

Chronic Hazard Quotienl and Chronic Hazard Index

Dermal Contact

INDICATOR CHEMICAL	Antimony	Lead	Thallium	CHI (Adult)
MAXIMUM CONCENTRATION O - 3 FBGS (mg/kg)	2	52	8	
RID **(mg/kg-day)**	0.0004	0.0014	0.0004	
AD (mg/kg-day) [adult]	1.9X10"^{7}	5.0 x 10'^{8}	7.7 X 10'^{7}	
CHO Adult	4.7 x 10'^{4}	3.6 x 10-^{3}	1.9x10'^{3}	6.0 x 10'^{3}

TABLE 6.5.2.a

Preliminary Endangerment Assessment

Phoenix 800
BOO Cedar Street
Oakland, Alameda County, California

BASELINE RISK ASSESSMENT

Cancer Risk • Ingestion

POTENTIAL CARCINOGEN	**MAXIMUM** CONCENTRATION (0. 3 FBGS) (mg/kg)	SLOPE FACTOR (mg/kg-day)'''	I (adult) (mg/kg/day)	CR (adult)
Arsenic	5	15	2.5 x 10·•	3.7 x 10·•

TABLE 6.5.2.b

Preliminary Endangerment Assessment

Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

BASELINE RISK ASSESSMENT

Cancer Risk - Dermal Contact

POTENTIAL CARCINOGEN	**MAXIMUM** CONCENTRATION (0 - 3 FBGS) (mg/kg)	SLOPE FACTOR (mg/kg-day)$^{-1}$	AO [adult) (mg/kg/day)	CR TOTAL
Arsenic	5	15	4.8 X 10^{-1}	7.2 X 10^{-6}

TABLE 2.2.1

Preliminary Endangerment Assessment

Phoenix 524
524 Cedar Street
Oakland, Alameda County, California

Past and Current Site Activities

NAME OF BUSINESS	**TYPE OF BUSINESS**	**DATES OF OPERATION**	**BUSINESS OPERATOR**	**PROPERTY OWNER** (1)
Oceanic Container Systems	Shipping Cargo Container Repair	March 1983 to Present	Tuan Forbes	Phoenix Properties
Unknown	Container Company	Approximately 1971	Unknown	Wendell Russell
Magnolia Manor War Dormitories	Housing	Before 1951	Unknown	Unknown (United States)
Unknown	Truct Steam Cleaning	Approximately 1950	Unknown	Unknown
Henry Dalton & Sons	Sash Weight Foundary	Between 1902 and 1911	Henry Dalton	Henry Dalton

(1) Alameda County Tax Assessor"s records indicate that Phoenix Iron Works owned this parcel from 1969 - 1983: from 1983 to present, parcel is owned by Phoenix Properties.

TABLE 2.2.5

Preliminary Endangerment Assessment

Phoenix 524
524 Cedar Street
Oakland, Alameda County, California

Site Business Activities or Manufacturing Processes

TYPE OF BUSINESS	TYPES OF PRODUCTS SOLO	QUANTITIES OF PRODUCTS SOLD (ANNUAL)	PRIMARY CHEMICALS UTILIZED OR HANDLED	MAJOR CHEMICAL AND/OR PHYSICAL PROCESSES
Metal Container Storage and Sand-Blasting Operation	Restoration and Maintenance of Metal Shipping Containers	None	Acetylene gas, oxygen gas, Bar Rust 235 Epoxy, Silicate/mica liquid, methyl ethylketone liquid, >500 lbs., 55 gallons or 200 ft' hazardous materials handled on an annual basis	Sand-blast metal containers, steam · clean metal containers, transponation of containers to and from site using forklift and/or trucks
Housing	Living Quarters	None	None	None
Foundry	Unknown	Unknown	Unknown	Unknown

TABLE 2.3.1

Preliminary Endangerment Assessment

Phoenix 524
524 Cedar Street
Oakland, Alameda County, **California**

Hazardous Substances/Wastes Identification and Quantities

NAME OF BUSINESS	TYPE OF **BUSINESS**	**DATES OF OPERATION**	**HAZARDOUS SUBSTANCES** UTILIZED **AND AMOUNTS**	**USE**	**HAZARDOUS WASTES GENERATED AND AMOUNTS**
Oceanic Container Systems	Shipping Cargo Container Repair	March 1983 to Present	Acetylene gas = 250 cu. ft/day, Oxygen gas = 170 cu.ft/day, mixture of epoxy resin, high flash aromatic naphtha/hydrocarbon, resin/magnesium, silicate/mica liquid = 35 gal/day, methyl ethyl ketone liquid = 30 gal/day	Oxygen & Acetylene (Welding), Resins, Naphtha, Magnesium Silicate (Unknown) Methylethylketone (Unknown)	Unknown
Magnolia Manor War Dormitories	Housing	Before 1951	Household cleaners	Household Maintenance	Unknown
Henry Dalton & Sons	Foundary	Between 1902 and 1911	Unknown	Unknown	Unknown

TABLE 2.3.2

Preliminary Endangerment Assessment

Phoenix 524
524 Cedar Street
Oakland, Alameda County, California

Hazardous Substances/Wastes On-Site Storage, Treatment, Disposal

NAME OF BUSINESS	TYPE OF **BUSINESS**	TYPE OF **STORAGE**	**NUMBER**	**CAPACITY**	**DATES** OF **OPERATION**	**CONTAINMENT AND/OR MONITORING**	**PROCESSES/ ACTIVITIES**
Oceanic Container Systems	Shipping Cargo Container Repair	Temporary Storage for Shipping Cargo Containers	Unknown	Unknown	March 1983 - present	55 gallon drums	Sand blasting. steam cleaning
Magnolia Manor War Dormitories	Housing	..	..	..	..	..	..
Henry Dalton & Sons	Sash Weight Foundry	Underground crude oil tank	At least 1	Unknown	Between 1902 and 1911	Unknown	..

TABLE 2.3.4

Preliminary Endangerment Assessment

Phoenix 524
524 Cedar Street
Oakland, Alameda County, California

Regulatory Status

DATE	INSPECTION	REGULATORY AGENCY CONDUCTING INSPECTION	RESULTS OF INSPECTION
October 27. 1992	Hazardous Materials Inventory	**Alameda** County Department of Environmental Health	Notification to health department Identifying types of hazardous substances and amounts that are stored at the site

TABLE 4.1.5

Preliminary Endangerment Assessment

Phoenix 524
524 Cedar Street
Oakland, Alameda County, California

Permeability of Site Soils

SOIL TYPE	DEPTH (INCHES)	WATER CAPACITY (INCHES/INCHES)	PERMEABILITY (INCHES/HOUR)
Urban Land • Baywood Complex	o to 16	0.07 to 0.10	6 to 20
Urban Land • Baywood Complex	16 to 60	0.06 to 0.09	610 20

TABLE 4.2.2

Preliminary Endangerment Assessment

Phoenix 524
524 Cedar Street
Oakland, Alameda County, California

Site Geology

UNIT	LITHOLOGY	DEPTH	THICKNESS
lcrrilt Sand (includes overlying Urban Land - Baywood Complex Soil)	Fine-grained silty, clayey sand, with lenses of sandy clay and clay. Yellowish-brown to dark yellowish,orange. Well-sorted. Contains small fragments of roots, twigs, grass. No bedding. Aeolian deposit, erratic distribution.	2.5 feet	2.5 to approximately 35 feet
Older Bay Mud (includes Alameda Formation)	Predominately silty clay with varying thicknesses of interbedded sand and fine gravel. Dark greenish-gray. Frequent lateral and vertical grading of sand and gravel interbeds with surrounding silty clay. Occasional sharp contacts between sand and gravel interbeds and silty clay. Some crossbedding.	Approximately 35 to 50 feet	1 to 200 feet
Franciscan Formation (BEDROCK)	Fractured and sheared sandstone, shale, limestone, chert, and metavolcanic rock. Irregular erosional surface.	Greater than 350 feet	Unknown

TABLE 4.2.2.a

Preliminary Endangerment Assessment

Phoenix 524
524 Cedar Street
Oakland, Alameda County, California

Site Hydrogeology

GEOLOGIC UNIT	AQUIFER	AOUITARD	DEPTH TO GROUND WATER	MAGNITUDE AND DIRECTION OF HYDRAULIC GRADIENT	HYDRAULIC CONDUCTIVITY (CM/SEC)	FLOW VELOCITY (FEET/DAY)	WATER QUALITY	PRODUCTION WELLS
Merritt Sand (Includes overlying Urban L.and - Baywood Complex Soil)	Unconfined in overlying soil and within unit at deplh.	Lenses of silly clay and clay. Probably laterally and vertically discontinuous.	6 10 8 leet	Southwest for ground water in soil. Unknown for deeper ground water in unit. Hydraulic gradient unknown.	Unknown lor soil. Unit values range from 10^{1} to 10^{11}	Unknown for soil. Unit values range from 10:i to 10r.	Regionally, portions of Unit contains ground water that meets California Secondary Drinking Water Quality Standa,ds. Saltwater intrusion is possible.	No water supply wells in vicinity or region of the Site
Older Bay Mud (includes Alameda Formation}	Semi.confined to confined occurring in interbedded sand and gravels.	sil1y clay which separates aquifers. Considered continuous laterally and vertically beneath the site.	200 to 500 feet	Unknown	Unknown	Unknown	Regionally, portions of Unit contains ground water that meets California Primary Drinking Water Quality Standards. Saltwater intrusion is possible.	No water supply wells in vicinity of the site. Eight active industrial water supply wells are located on the Alameda Naval Air Station approximately 1 mile west of the site.

TABLE 4.2.4

Preliminary Endangerment Assessment

Phoenix 524
524 Cedar Street
Oakland, Alameda County, California

Aquifer Usage

AQUIFER	USE	DISTANCE TO NEAREST WELL FROM SITE	GROUND WATER FLOW DIRECTION AND VELOCITY	SERVICE CONNECTIONS AND POPULATION SERVED BY WELLS	ACRES OF LAND IRRIGATED	LIVESTOCK CONSUMPTION
Merritt Sand (Includes overlying Urban Land - Baywood Complex Soil)	None	No production wells are completed in the Merritt Sand in the region of the site.	Unknown	None	None	None
Older Bay Mud (includes Alameda Formation)	Industrial water supply	Eight active industrial water supply wells are located on the Alameda Naval Air Station approximately 1 mile west of the site.	Unknown	None	None	None

TABLE 4.2.6

Preliminary Endangerment Assessment

Phoenix 524
524 Cedar Street
Oakland, Alameda County, California

Distance to Surface Water, Marshlands, Wetlands, and Critical Habitats Nearest the Site

TYPE	**NAME**	**DISTANCE FROM** SITE **(MILES)**
SURFACE WATER	Oakland Inner Harbor	0.95
	Oakland Outer Harbor	0.85
	Oakland Middle Harbor	1.05
MARSHLANDS	Emeryville Crescent	1.3
WETLANDS	Wetland A (see Figure 4-2.6)	1.1
	Wetland B (see Figure 4.2.6)	1.1
CRITICAL HABITATS		
Alameda Naval Air Station	California Least Tern	1.8
Alameda South Shore	California Clapper Rail	4.0
Lake Merrltt	Calttornla Bracklshwater Snail	1_5
	Tidewater Gaby	2.2
Adeline Station (Berkeley)	Santa Cruz Tarplant	1.8
Emeryville Crescent	Salt Marsh Harvest Mouse	1.5
Berkeley (see Figure 4.2.6)	California Black Rail	1.6
Aquatic Park, Berkeley	Tidewater Gaby	2.4
San Francisco Bay	Double Crested Cormorant	2.3

TABLE 4.3.2

Preliminary Endangerment Assessment

Phoenix 524
524 Cedar Street
Oakland, Alameda County, California

Daily Prevailing Wind Direction and Daily Average Wind Velocity

MONTH	MEAN WIND SPEED (MPH)	PREVAILING DIRECTION	FASTEST MILE (SPEED • MPH)	FASTEST MILE (DIRECTION)	YEAR
LENGTH OF RECORD (YEARS)	30	21	29	29	
January	6.7	SE	46	SW	1964
February	7.3	W	49	SW	1953
March	9.0	W	45	SW	1949
April	9.5	W	55	SW	1960
May	10.0	W	50	SW	1949
June	10,0	W	62	SW	1950
July	9.3	WNW	26	SW	1961
August	9.0	WNW	29	SW	1966
September	7.8	WNW	33	N	1959
October	6.8	WNW	43	SW	1950
November	6.3	WNW	46	N	1952
December	6.5	E'	40	SW	1951
YEARLY AVERAGE	8.2	W	49	SW	2/93

TABLE 4.3.4

Preliminary Endangerment Assessment

Phoenix 524
524 Cedar Street
Oakland, Alameda County, California

Local Climatic Factors

MONTH	TEMP NORMAL DAILY **MAXIMUM**	TEMP NORMAL OAILV **MINIMUM**	TEMP MONTHLY NORMAL	**PRECIP** NORMAL	PRECIP MONTHLY **MAX**	PRECIP MONTHLY **MIN**	PRECIP 24 HR **MAX**	MEAN WINO SPEED (MPH)	**PREVAILING** DIRECTION	FASTEST MILE (SPEED • MPH)	FASTEST MILE (DIRECTION)	**YEAR**
, l'NGTH OF RECORD (YEARS)					49	49		30	21	29	29	
January	54.5	42.7	48.6	4.03	8.90	0.29	3.30	6.7	SE	46	SW	1964
February	58.0	45.7	51.9	2.83	8.85	0.02	2.41	7.3	W	49	SW	1953
March	60.2	47.2	53.7	2.32	5.69	0.04	2.76	9.0	W	45	SW	1949
April	62.8	49.4	56.1	1.50	4.60	T	2.21	9.5	W	55	SW	1960
May	65.4	**52.4**	58,9	0.14	1.21	T	1.45	10.0	**W**	50	SW	1949
June	68.5	**55.2**	61.9	0.14	1.21	0.00	1.03	10.0	W	62	SW	1950
July	69.7	**56.4**	63.1	0.01	0.60	0.00	0.78	9.3	WNW	26	SW	1961
August	70.2	**56.8**	63.5	0.03	0.74	0.00	0.42	9.0	WNW	29	SW	1966
September	72.3	56.6	64.5	0.18	3.27	0.00	3.23	7.8	WNW	33	N	1959
October	68.7	**53.4**	61.1	1.08	5.56	T	3.45	6.8	WNW	43	SW	1950
November	62.0	**48.5**	55.3	2.37	.J.42	0.00	2.67	6.3	WNW	46	N	1952
December	55.5	44.2	49.9	3.87	11.29	0.28	3.21	6.5	E	40	SW	1951
YEARLY AVERAGE	64.0	50.7	57.4	18.69	11.29	0.00	3.45	8.2	W	49	SW	2/93

TABLE 4.3.8

Preliminary Endangerment Assessment

Phoenix 524
524 Cedar Street
Oakland, Alameda County, California

Distance to Schools, Day Care Centers, Hospitals, Nursing Homes, Retirement Communities, and Senior Citizen Communities

TYPE	NAME	DISTANCE FROM SITE (MILES)
SCHOOL	Cole Elementary School	0.7
SCHOOL	Prescott Elementary	0.2
SCHOOL	Lowell Junior High School	1.0
SCHOOL	Lafayette High School	1.0

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TABLE 5.1.a

Preliminary Endangerment Assessment
Phoenix 524
524 Cedar Street
Oakland, **Alameda** County, California

Soil Analytical Results - Organics
First Phase Site Investigations

Boring	Sample Depth	TRPH	TPH-D	TPH-G	Benzene	Toluene	Ethylbenzene	Total Xylenes
	{FBGS)	(mg/kg)	{mg/kg)	{mg/kg)	(ug/kg)	(ug/kg)	(ug/kg)	{ug/kg)
PP-1	4.5 - 5.0		ND	ND	ND	ND	ND	ND
PP-2	4.5 - 5.0		ND	ND	ND	ND	ND	ND
PP-3	4.5 - 5.0		ND	ND	ND	ND	ND	ND
PP524/B-1	2	7						
	6	31						
PP524/B-2	6	6						
	15	10						
PP524/B-3	1.5	8						
	6	14						
PP524/B-4	1.5	210						
	6	1,200						
PP524/B-5	1.5	250						
	6	31						
REPORTING LIMIT		5.0	2.5	5.0	5.0	5.0	5.0	5.0

FBGS		Feet below ground surface
TRPH	=	Total recoverable petroleum hydrocarbons
TPH-D		Total petroleum hydrocarbons as diesel
TPH-G		Total petroleum hydrocarbons as gasoline

mg/kg		milligrams/kilogram
ug/kg	=	micrograms/kilogram
ND		Not detected in excess of Reporting Limit

TABLE 5.1.b

Preliminary Endangerment Assessment
Phoenix 524
524 Cedar Street
Oakland, Alameda County, California

Soil Analytical Results - Metals/First Phase Site Investigations

Boring	PP-1 1.5-2.0 FT	PP-2 2.0-2.5 FT	PP-3 2.5-3.0 FT	B-1 2.0 FT	B-1 6.0 FT	B-2 1.5 FT	B-2 6.0 FT	B-3 1.5 FT	B-3 6.0 FT	B-4 1.5 FT	B-4 6.0 FT	B-5 1.5 FT	B-5 6.0 FT	Reporting Limits
Analyte	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kgl
Antimony	1.0	1.0	3.0	ND	5.6	6.5	ND	6.0	6.1	7.9	55	12	6	5.0
Arsenic	5.0	ND	7.0	ND	21	ND	12	ND	,0	19	22	15	12	10
Barium	160	42	120	30	67	47	68	51	73	160	970	540	51	2.5
Beryllium	0.3	0.2	. 0.3	ND	0.81	ND	0.64	0.51	0.65	0.55	0.55	0.55	0.55	0.50
Cadmium	0.5	0.2	1.0	2	5.2	2 1	4	2.8	**4.8**	9.7	30	12	4.3	0.50
Total Chromium	34	28	49	27	57	28	44	29	52	120	150 ,,	75	36	0.50
Cobalt	6.1	3.5	12	3.3	2.9	4.5	7.4	4.9	5.4	7.3		9	5.9	1 0
Copper.	25	7.0	110	5.7	**8.4**	8.5	14	11	11	120	250	130	9.3	0.50
Lead	180 (1.47)	12	750 (2.89)	**9.5**	25	13	17	18	18	1,100	3,500 (1.3)	23,000	20	1,000
Mercury	0.3	ND	ND	ND	0.09	ND	ND	ND	ND	0.24	0.66	1	ND	0.05
Molybdenum	09	1.1	3.0	ND	ND	ND	ND	ND	0.70	**2.8**	**5.6**	1.7	ND	0.50
Nickel	24	16	31	14	27	15	40	18	42	30	57	40	33	2.5
Selenium	ND	4.0	7.0	ND	ND	NO	ND	ND	ND	ND	ND	ND	ND	1.0
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.50
Thallium	10	6.0	30	ND	ND	ND	ND	ND	16	ND	ND	ND	13	,0
Vanadium	19	17	25	21	**47**	21	**35**	**23**	41	32	37	**29**	**29**	1.0
Zinc	110	17	**210**	**15**	**21**	17	**29**	**23**	31	**500**	**2,300**	1,400	26	**0.5**

mg/kg ; milligrams./kilogram
NO ; Not detected in excess of Reporting Limit
(123) Soluble concentration in mg/l

Borings PP-1, PP-2. and PP-3 were drilled on 5/14/90.
Borings 8-1, 8-2, B-3. 8-4, and B-5 were drilled on 6/23/92.

TABLE 5.2.3

Preliminary Endangerment Assessment

Phoenix 524
524 Cedar Street
Oakland, Alameda County, California

Soil Sampling Summary

BORING	SAMPLE	DEPTH (FBGS)	CLASSIFICATION
581	SB1A	3.5	Sand
	5818	5.0	Sand
	SB1C	7.5	Sand
5B2	SB2A	3.5	Silty Sand
	582B	5.5	Silty Sand
	SB2C	7.5	Sand
	SB2D	9.5	Sand
	SB2E	11.0	Sand
5B3	SB3A	3.5	Sand
	5B3B	6.5	Sand
	SB3C	8.5	Sand

FBGS = Feel below ground surface

TABLE 5.3.1.a

Preliminary Endangerment Assessment

Phoenix 524
524 Cedar Street
Oakland, Alameda County, California

Soil Analytical Protocol

Analyses	USEPA Method	**Sample Size**	**Container Size**	**Preservative**	**Holding Time**	Reporting Limit
					(Days)	(mg/kg)
TPH-G	5030-8015	1	2 x 6 Inch SS Tube	4 Degrees C^0	14	1
TPH-D	3550-8015	1	2 x 6 Inch SS Tube	4 Degrees C^0	14	1
voe	8240	1	2 x 6 Inch SS Tube	4 Degrees C^0	14	Various
SVO	8270	1	2 x 6 Inch SS Tube	4 Degrees C^0	14	Various
WET	CCR 667000					
TCLP	1311					
Metals	6010	1	2 x 6 Inch SS Tube	4 Degrees C^0	**28**	Various

TPH-G = Total petroleum hydrocarbons as gasoline
TPH-D = Total petroleum hydrocarbons as diesel
Metals = lead, zinc. nickel, cadmium, total chromium
WET = Waste Extraction Test
TCLP = Toxicity characteristic leaching potential
CCR = California Code of Regulations
SS = Stainless steel
co = Degrees centigrade
mg/kg = milligrams/kilogram
SVO = Semivolatile organic compounds
voe = Volatile organic compounds

TABLE 5.3.1.b

Preliminary Endangerment Assessment

Phoenix 524
524 Cedar Street
Oakland, Alameda County, California

Ground Water Analytical Protocol

Analyses	USEPA Method	**Sample Size**	Container **Size**	**Preservative**	**Holding Time**	Reporting Limit
					(Days)	(µg/ £)
TPH-G	5030-8015	**2**	40 milliliter	HCL to pH < 2	14	50
TPH-D	3550-8015	**2**	1 liter	None	14	50
svo	625	2	1 liter	None	14	Various
voe	624	**2**	40 mlllllter	None	14	Various
Metals	6010	1	200 milliliter	HNO, to pH< 2	**28**	Various

TPH-G		Total petroleum hydrocarbons as gasoline
TPH-D		Total petroleum hydrocarbons as diesel
svo		Semivolatile organic compounds
voe		Volatile organic compounds
Metals		lead, zinc, cadmium. total chromium, nickel
HCL		Hydrochloric acid
HNO,		Nitric acid
µg/2	=	micrograms/liter

TABLE 5.3.1.c

Preliminary Endangerment Assessment
Phoenix 524
524 Cedar Street
Oakland, Alameda County, California

Soil Analytical Results - Metals/Organics

ANALYTE	**Sample** Depth **(FBGS)**	**Cd**	Cr	**Pb**	**NI**	Zn	TPHG	TPHD	**B**	T	E	**X**	voe	svo
CONCENTRATION		mg/kg							µg/kg					mg/kg
DETECTION LIMIT		0.05	0.50	0.50	0.50	0.50	1.0	1.0	5.0	5.0	5.0	5.0	VARIOUS	VARIOUS
SAMPLE I.D.														
SBIA	3.5	ND	31	*7.0*	22	550	ND	ND	ND	NO	ND	ND	ND	ND
SBIB	5.0	ND	39	8.2	17	19								
SBIC	7.5	NO	32	6.8	34	18							NO	
SB2A	3.5	NO	**24**	206	17	14	NO	ND	ND	NO	ND	ND	NO	NO
SB2B	5.5	ND	19	230	31	250								
SB2C	7.5	**ND**	**25**	**22**	17	25								
SB2D	9.5	10 (4.5)	9.6	12	17	12							**NO**	ND
SB2E	11.0	ND	24	150	17	71								
SB3A	3.5	NO	**25**	8.0	17	15	NO	ND	ND	ND	ND	ND	ND	ND
SB38	**6.5**	ND	**38**	8.7	27	21								
S83C	8.5	ND	**42**	9.5	**44**	20							ND	

Cd	**Cadmium**
Cr	**Total chromium**
Pb	**Lead**
Ni	**Nickel**
Zn	**Zinc**
TPHG	**Total petroleum hydrocarbons as gasoline**
TPHD	**Total petroleum hydrocarbons as diesel**
BTEX	**Benzene, toluene. ethy1benzene, total xylenes.**

mg/kg	**Milligrams per kilogram**
µg/kg	**micrograms per kilogram**
ND	**Not detected in excess ol detection limit**
voe	**Volatile organic compounds**
svo	**Sel3livolahle organic compounds**

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TABLE 5.3.1.d

Preliminary Endangerment Assessment

Phoenix 524
524 Cedar Street
Oakland, Alameda County, California

Ground Water Analytical Results - Metals/Organics

ANALYTE	Cd	Cr	**Pb**	**Ni**	**Zn**	**TPHG**	**Benzene**	Toluene	Ethylbenzene	**Total Xylenes**	**TPHD**	voe	SVO
CONCENTRATION	mg/i	mg/i	mg/t	mg/t	mg/i	µg/i	µg/i	µg/i	µg/t	µg/t	µg/i	µg/l	mg/l
DETECTION LIMIT	0.001	0.01	0.01	0.02	0.005	50	0.5	0.5	0.5	0.5	50	VARIOUS	VARIOUS
SAMPLE ID													
HPSB1	ND	ND	0.03	0.02	0.05	ND	ND	ND	ND	ND	ND	ND	ND
HPSB2	ND	0.02	1.4	0.03	1.2	ND	ND	ND	ND	ND	66	ND	ND
HPSB3	ND	ND	ND	ND	ND	1,900	ND	ND	6.2	19	110,000	ND	SEE BELOW

Cd	Cadmium
Cr	Total chromium
Pb	Lead
Ni	Nickel
Zn	Zinc
TPHG	Total petroleum hydrocarbons as gasoline
TPHD	Total petroleum hydrocarbons as diesel
mg/£	Milligrams per kilogram
µg/l	Micrograms per kilogram
ND	Not detected in excess of detection limit
voe	Volatile organic compounds
svo	Semivolatile organic compounds

SVO's detected in sample HPSB3:

Fluorene 0.0038 mg/ i
Phenanthrene 0.010 mg/ t
2-methylnapthalene 0.011 mg/ t

357 7ph5 rpl

Preliminary Endangerment Assessment

Phoenix 524
524 Cedar Street
Oakland, Alameda County, California

BASELINE RISK ASSESSMENT

Selection of Indicator Chemicals

METAL	Sb	As	Ba	Be	Cd	Cr VI	Co	Cu	Pb	Hg	Mo	NI	Se	Tl	V	Zn
VALUE																
A	55	22	970	0.81	30	150	11	250	23,000	10	5.6	57	7.0	30	47	2,300
C	0.0004	NV	0.05	0.0005	0.0003	NV	NV	0.037	0.0014	0.0003	NV	0.01	0.003	0.0004	0.02	0.21
D	NV	15	NV	NV	NV	NV	NV	NV	NV	NV	NV	NV	NV	NV	NV	NV
E	2,500		20	2,000	3,333	0		27	714	3,333		100	333	2,500	50	5
G	137,500		19,400	1,620	99,900	0		6,750	16,422,000	33,330		5,700	2,331	75,000	2,350	11,500
I		330														
K	16,817,381															
M	330															
0	0.01		0.0012	0.0001	0.006	0		0.0004	0.98	0.002		0.0003	0.00014	0.004	0.00014	0.0007
a		1														

-

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KEY TO TABLE 6.1.2

VALUE	DESCRIPTION
A	Highest Soil Concentration Detected (Cih) (mg/kg)
C	Chronic Reference Dose (RID) (mg/kg day'")
D	Slope Factor (SF) ([mg/kg/dayr')
E	Inverse of the Chronic Reference Dose (1/RID)
G	(Cih}(1/RID)
I	(Cih}(SF)
K	Total Risk Factor (RID basis) Rih(RID) = Sum of (Cih)(1/RID)
M	Total Risk Factor (SF basis) Rih(SF) = Sum of (Cih)(1/SF)
0	(Cih)(1/RID) / Rih(RID)
Q	(Cih)(SF) / Rih(SF)

METALS

Sb	Antimony
As	Arsenic
Ba	Barium
Be	Beryllium
Cd	Cadmium
Cr VI	Chromium VI
Co	Cobalt
Cu	Copper
Pb	Lead
Hg	Mercury
Mo	Molybdenum
Ni	Nickel
Se	Selenium
Ag	Silver
Tl	Thallium
V	Vanadium
Zn	Zinc

RIDs and SFs were obtained from the USEPA"s Superfund Public Health Evaluation Manual, [SPHEAM] October 1986.

NV= No Value

TABLE 6.1.3

Preliminary Endangerment Assessment

Phoenix 524
524 Cedar Street
Oakland, Alameda County, California

BASELINE RISK ASSESSMENT

List of Indicator Chemicals

INDICATOR CHEMICAL	CHRONIC REFERENCE DOSE (RID)	SLOPE FACTOR (SF)
Antimony	0.00004 mg/kg-day	NV
Arsenic	NV	15 (mg/kg-day)'
Cadmium	0.0003 mg/kg-day	NV
Cr VI	NV	NV
Lead	0.0014 mg/kg-day	NV

TABLE 6.5.1.a

Preliminary Endangerment Assessment

Phoenix 524
524 Cedar Street
Oakland, Alameda County, California

BASELINE RISK ASSESSMENT

Chronic Hazard Quotient and Chronic Hazard Index

Ingestion

INDICATOR CHEMICAL	Antimony	**Cadmium**	**Lead**	CHI (Child)	CHI (Adult)
MAXIMUM CONCENTRATION O - 3 FBGS (mg/kg)	12	12	23,000		
RID (mg/kg-day)	0.0004	0.0003	0.0014		
I (mg/kg-day) [child]	1.5 x 10·•	1.6 x 10·•	0.3		
CHO Child	0.4	0.5	214	**216**	
I (mg/kg-day) [adult]	5.9 x ·10·•	5.9 X 10·•	1.1 x 10$^{\prime 2}$		
CHO Adult	0.02	0.02	8		**8**

TABLE 6.5.1.b

Preliminary Endangerment Assessment

Phoenix 524
524 Cedar Street
Oakland, Alameda County, California

BASELINE RISK ASSESSMENT

Chronic Hazard Quotient and Chronic Hazard Index

Dermal Contact

INDICATOR CHEMICAL	Antimony	Cadmium	**Lead**	CHI (Child)	CHI (Adult)
MAXIMUM CONCENTRATION O - 3 FBGS (mg/kg)	12	12	23,000		
RID (mg/kg-day)	0.0004	0.0003	0.0014		
AD (mg/kg-day) [female child]	4.7 x 10·'	4.7 x 10·'	9 X 10"2		
AD (mg/kg-day) [male child)	4.8 x 10"	4.8 x 10"	9 X 10·2		
CHO Child (Female)	0.12	0.16	64.3	**64.6**	
CHO Child (Male)	0.12	0.16	64.3	**64.6**	
AD (mg/kg-day) [adult)	1.1x10"	1,1 x 10'6	2.1 x 10'3		
CHO Adult	0.0027	0.0036	1.5		**1.51**

TABLE 6.5.2.a

Preliminary Endangerment Assessment

Phoenix 524
524 Cedar Street
Oakland, Alameda County, California

BASELINE RISK ASSESSMENT

Cancer Risk • Ingestion

POTENTIAL CARCINOGEN	**MAXIMUM** CONCENTRATION O - 3 FBGS (mg/kg)	SLOPE FACTOR **(mg/kg-day)'"**	I [child] **(mg/kg-day)**	CR (child)	I **[adult)** **(mg/kg/day)**	CR (adult)
Arsenic	19	15	2.4 X 10·•	3.6 X 10·^{3}	9.3 X 10·•	1.4x10-'

TABLE 6.5.2.b

Preliminary Endangerment Assessment

Phoenix 524
524 Cedar Street
Oakland, Alameda County, California

BASELINE RISK ASSESSMENT

Cancer Risk - Dermal Contact

POTENTIAL CARCINOGEN	MAXIMUM CONCENTRATION (0 • 3 FBGS) (mg/k_!!(	SLOPE FACTOR (mg/kg-day)·'	AD [Female child] (mg/kg-day)	AD [Male child] (mg/kg-day)	CR (child) **(average)**	AD [adult] (mg/kg/day)	CR (adult)
Arsenic	19	15	**7.4 x 10"**	7.6 x 10"	**1.5 x 10•**	**1.8 x 1Qt;**	2.7 x 10'

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UNDERGROUND STORAGE TANK CLOSURE REPORT

CYPRESS "8" FREEWAY RECONSTRUCTION PROJECT

PHOENIX 800 AREA "T"

OGISO REPORT

November 27, 1995

for

California Department of Transportation
District 04
1545 Willow Street
Oakland, CA 94607

STATE OF CALIFORNIA — BUSINESS, TRANSPORTATION AND HOUSING

DEPARTMENT OF TRANSPORTATION - DISTRICT 04

1545 Willow Street
Oakland, CA 94607
TEL: (510)-286-1359
FAX: (510)-286-1099

LETTER OF TRANSMITTAL

To: Susan Hugo - Ala Co. Environ. Health
1311 Harbor Bay Parkway
Alameda, CA 94502-6577

Attn: Susan Hugo

Date: 6 [illegible] DEC 9[illegible]
Re: 04-192214
04-Ala-880-32.8/34.2
*ER-1505(003)N

Transmitted herewith are the following items:

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______ as requested.
______ approved as submitted.
______ for approval.
______ approved as noted.
______ returned for corrections.
______ resubmit ____ copies for approval.
______ for review. Return with comments.

Remarks: [illegible]

for
Victor Salazar
Resident Engineer

ENCLOSED IS A COPY OF OGISO'S UST Closure Report for 800 Phoenix. Please review and notify ANDREW NORRIS at 286-1367

Thankyou,

ANDREW NORRIS
CALTRANS CYPRESS B
286-1367

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One Planet - One Destiny

OGISO Environmental

150 W. Iowa Ave., Ste 200
P.O. Box 61025
Sunnyvale. CA 94086
Tel 14081245-9801/9802
FAX 14081 245-3870

387 17th St., Ste 210
Oakland, CA 94612
Tel(510l452-0246
FAX (510l 452-5282

December 5, 1995

Harry L. Young, P.E.
Cypress 'B' Project Manager
Kasler Corporation
#1 Kaiser Place, Suite 415
Oakland, CA 94612

Subject: **Submittals for Cypress 'B' Contract 04-192214 - Underground Storage Tank Closure Report for Phoenix 800, Area "T"**

Dear Harry:

Attached is the Underground Storage Tank Closure Report for the Phoenix 800 site, Area "T". I have enclosed two copies for Kasler, along with copies for Caltrans.

Sincerely,

Hamid Moshtaghi
Clement Okoh, Ph.D. for Clement Okoh
Principal Engineer

CO:jl
Enclosure
cypressb\kslrust.ltr

UNDERGROUND STORAGE TANK CLOSURE REPORT

CYPRESS "B" FREEWAY RECONSTRUCTION PROJECT

PHOENIX 800 AREA "T"

OGISO REPORT

November 27, 1995

for

California Department of Transportation
District 04
1545 Willow Street
Oakland, CA 94607

UNDERGROUND STORAGE TANK CLOSURE REPORT
CYPRESS "B" FREEWAY RECONSTRUCTION PROJECT

PHOENIX 800 AREA "T"

OGISO REPORT E-95130

PREPARED FOR:

Victor Salazar
Resident Engineer
1545 Willow Street
Oakland, CA 94607

P ARED BY:
mid Moshtaghi
H Mosh taghi. Ph.D.
OGISO Environmental
1504 Franklin Street, Ste
Oakland, CA 94612

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Ola Balogun, Ph.D., P.E.
Registered Civil Engineer
C041747

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1 INTRODUCTION

OGISO Environmental removed a total of four underground storage tanks (USTs) from the Phoenix 800 site located at 888 Cedar Street in Oakland as part of a remedial action plan for this site. Two USTs, one approximately 1,000 gallons containing diesel fuel and another approximately 2,600 gallons containing gasoline, were removed on October 20, 1995. Two additional USTs, approximately 250 gallons and 25 gallons each, containing solvent were also removed on October 23 and October 31, 1995, respectively, from this site. The diesel and gasoline underground storage tanks were previously known to be present at this site. However, the solvent tanks were accidentally encountered during the remediation processes at the site.

This tank closure report discusses the excavation activities, initial and confirmatory sampling, sample analysis, analytical results, remedial measures and disposal of the exhumed underground storage tanks.

1.1 Site Background

The Phoenix 800 parcel is located at 888 Cedar Street within the western portion of the City of Oakland, about one mile west of the Oakland Outer Harbor. The site is located in a predominantly industrial neighborhood with nearby residential areas. Figure 1 shows the site location map. Residential homes are located to the south of Shorey Street and the east side of Pine Street between 9th and Shorey Streets, which is across the street from the Phoenix 800 site. The site consists of the southwestern portion of the parcel and is 43,965 ft2 in area (Figure 2).

A large warehouse building formerly occupied this parcel, but was demolished by California Department of Transportation (Caltrans) in June and July of 1995, after the contents of the warehouse were removed.

The Cypress "B" freeway reconstruction is planned to include this site. This construction is related to the replacement of the Cypress structure that was damaged during the October 1989 Loma Prieta Earthquake. As part of the Cypress replacement project, a new partially depressed frontage road, exiting to the north of 7th Street will be constructed parallel to the new Cypress Freeway. Approximately one-fifth of the Phoenix 800 site in the southwest comer will be paved for the frontage road. Construction of a concrete retaining wall on the site and adjacent to the frontage road is required to limit groundwater infiltration into the depressed area of the rerouted 7th Street undercrossing and frontage road. The future use of the remaining portions of the Phoenix 800 parcel has not been decided at this time, but Caltrans will be investigating those portions of the parcel at a later date.

1.2 Site Geology

The topography of the site is generally even and slopes gently to the west and south toward the San Francisco Bay and Oakland Inner Harbor. The site is 10 feet above mean sea level. The shallow soils in the vicinity of the site consist of an unknown thickness of fill materials and disturbed native soils. The fill materials are underlain by late Pleistocene (10,000 to 70,000 years old) and beach and dune sand deposits (Merritt Sand) consisting of loose, well sorted, fine to medium-grained sand with subordinate silt. Bay Mud is present to the west of the site. Bay Mud consists of Holocene (less than 10,000 years old) estuarine deposits comprised of unconsolidated, water-saturated, dark, plastic clay and silty clay rich in organic material. The depth to groundwater is approximately 7 to 10 feet below grade.

2. TANKREMOVALACTIVITIES

According to the preliminary site assessments and investigations previously conducted on the Phoenix 800 site (Baseline Environmental Consulting, September 1990), two underground storage tanks (UST) containing diesel fuel and gasoline were identified at this site. The Initial Remedial Action Plan and Health and Safety Plan prepared for the site only addressed removal of these two tanks. However, upon commencement of excavation work, two additional tanks containing solvent were encountered. In response to this discovery, the Remedial Action Plan and the Health and Safety Plan were modified. A total of four underground storage tanks were removed from this site.

2.1 Diesel Fuel Tank

The diesel UST permit application was filed with the Alameda County Department of Environmental Health (ACDEH) on June 28, 1995, for excavation of the diesel UST. The approved permit application forms are included in Appendix A.

The diesel fuel tank was a single-walled, steel tank approximately 1,000 gallons in capacity, located at the northwest comer of the Phoenix 800 site. Figure 3 depicts the approximate locations of the underground storage tanks exhumed from this site.

There is no record showing when the diesel tank was installed at this site. The tank was not in operation as of 1990 and was excavated, exhumed, inspected, loaded, and transported to a disposal/recycling facility on October 20, 1995. The diesel UST was buried approximately 4 to 5 feet below grade and was first exposed by removing the overlaying concrete pad and the top and surrounding soil. The excavated soil was stockpiled in an area east of the tank location (Figure 2). The quantity of soil excavated to uncover the tank was estimated at 150 cubic yards.

2.1-1 Associated **Piping**

There were no fittings or pipings attached to the tank at the time it was uncovered.

2.1-2 Tank Content

The liquid content of the tank was pumped into a vacuum truck by Erickson Environmental. The tank was rinsed with a pressurized stream of water and the rinsate was pumped concurrently into the vacuum truck, hence removing the diesel and waste residues in the tank. The tank liquid and rinsate were transported to an appropriate licensed facility for disposal. The manifest document for disposal of the tank content is included in Appendix B.

2.1-3 Tank **Purging**

The tank was purged of any remaining vapors by placing 20 lb of dry ice in the tank one hour prior to removal. Following purging of the gaseous content of the tank, the lower explosive limit (LEL} inside the tank was measured at 0%. The oxygen level in the tank was measured at 1.5% and 4.2% at the bottom and top of the tank, respectively. AU the tank openings and holes were securely covered with tape to maintain the elevated CO_2 content of the tank during removal and transportation to the disposal/recycling facility.

2.1-4 Tank Inspection

The tank was lifted out of the excavation and was brought to the surface for physical inspection by the ACDEH inspector (Ms. Susan Hugo). The tank showed severe signs of corrosion with a hole located at the bottom. The ACDEH site report is included in Appendix A. Figure 4 shows the diesel fuel tank prior to loading.

2.1-5 **Tank** Loading and Transportation

The tank was carefully lowered on to a flatbed truck, properly secured onto the truck bed with three straps, and then transported by Erickson Environmental to a licensed facility for disposal and/or recycling. A copy of the tank disposal manifest is included in Appendix B.

2.1-6 Sampline and Analysis

There was no free product or sheen observed in the soil immediately surrounding the diesel tank. Diesel odor was noted in the tank excavation and the soil around the tank showed greenish discoloration indicating diesel contamination. One soil sample was collected from the fill end (north end) and one from the discharge end (south end) of the tank at approximately 8 feet below ground surface (bgs) immediately following tank removal.

A backhoe bucket was used to scoop the soil from underneath each end of the tank to the surface for sampling. Samples were collected by pushing 2 in. x 6 in. brass sleeves, capped at one end, directly into the soil. Sampling sleeves were capped at the other end immediately following collection of the soil samples. The remaining soil in the backhoe bucket was replaced in its original location. Samples DIS-N (north-end) and DIS-S (south-end) were analyzed for total petroleum hydrocarbons as diesel (TPH-D) via EPA Method 3350/SOlSM. Chain-of-custody and laboratory analysis results are included in Appendix C and summarized in Table 1. As shown in Table 1, soil analytical results indicate a maximum TPH-D level of 1,300 ppm at the north end of the diesel UST. No TPH-D was detected at the south end of the UST.

2.1-7 Diesel UST Site Remediation

The diesel-affected soil in the UST excavation was visually identified from its greenish appearance and was excavated horizontally and vertically. Horizontally, the excavation continued in all four directions until soil discoloration was no longer observed or the boundary of Phoenix 800 area 'T' was reached. Vertically, the affected soil was excavated until clean soil was encountered or the groundwater was reached. Approximately 800 cubic yards of discolored (greenish) soil was excavated from around the diesel UST and stockpiled offsite on a concrete slab approximately 50 yards east of the diesel UST location.

2.1-8 Confirmatoo:: Samplin&

Confirmatory samples 2T14-6-W and 2T13-6-0 were collected from the western wall and bottom of the diesel UST excavation, respectively (Table 1). The above sample I.D. numbers correspond with the confirmatory sampling nomenclature developed for remediation of contaminated grids in area 'T'. At the time of confirmatory sampling, the northern, southern, and eastern walls of the UST excavation had already been excavated to the perimeter of area 'T' during remediation of the same area for diesel and/or lead contamination and hence did not exist. As shown in Table 1, confirmatory sampling results indicate TPH-D values of30 and 20 ppm, which are well below the preliminary remedial goal (PRG) of 100 ppm set for this site by the Department of Toxic Substances Control (DTSC). Chain-of-custody and laboratory analytical results are included in Appendix C.

2.2 Gasoline Tank

The gasoline UST permit application was filed with the ACDEH on June 28, 1995, for excavation of the gasoline UST. The approved permit application forms are included in Appendix A.

The gasoline tank was a single-walled, steel tank approximately 2,600 gallons in capacity. The tank was located at the northwest corner of the Phoenix 800 site southeast of the diesel fuel tank. Figure 3 depicts the approximate relative locations of the USTs.

There is no record showing when this tank was installed at the site. The tank was not in operation as of 1990 and was exhumed, loaded, transported, and disposed of on October 20, 1995. The tank was buried approximately 4 to 5 feet below grade and was first exposed by removing the surrounding soil. The excavated soil was stockpiled separately in an area located approximately 50 yards east of the UST excavation. The quantity of soil excavated was estimated to be 200 cubic yards.

2.2-1 Associated Piping

There were no fittings or pipings attached to the tank at the time it was wicovered.

2.2-2 Tank Content

Prior to excavation, the liquid content of the tank was pumped into a vacuum truck by Erickson Environmental. The tank was rinsed with a pressurized stream of water and the rinsate was pumped concurrently into the vacuum truck, hence removing the gasoline and waste residues in the tank. The tank liquid and rinsate were transported to an appropriate licensed facility for disposal. The manifest document for disposal of the tank content is included in Appendix B.

2.2-3 Tank Purging

The tank was purged of any remaining vapors by placing 40 lb of dry ice in the tank one hour prior to removal. Following purging of the gaseous content of the tank, the lower explosive limit (LEL) inside the tank was measured at 2%. The oxygen level in the tank was measured at 0.6%. All the tank openings and holes were securely covered with tape to maintain the elevated CO_2 content of the tank during removal and transportation to the disposal/recycling facility.

2.2-4 Tank Inspection

The tank was lifted out of the excavation and was brought to the surface for physical inspection by the ACDEH inspector (Ms. Susan Hugo). The tank showed moderate signs of corrosion with no apparent holes identified in the tank. The ACDEH site report is included in Appendix A. Figure 5 shows the gasoline fuel tank prior to loading.

2.2-5 Tank Loading and Transportation

The tank was carefully lowered on to a flatbed truck, properly secured onto the truck bed with three straps, and then transported to a licensed facility for disposal and/or recycling by Erickson Environmental. A copy of the tank disposal manifest is included in Appendix B.

2.2-6 Sampling and Analysis

There was no free **product,** sheen, or odor observed in the soil immediately surrounding the gasoline tank. One soil sample was collected from the fill end (east end) and one from the discharge end (west end) of the tank at approximately **8** feet below ground surface (bgs) immediately following tank removal.

A backhoe bucket was used to scoop the soil from underneath each end of the tank to the surface for sampling. Samples were collected by pushing 2 in. x 6 in. brass sleeves, capped at one end, directly into the soil. Sampling sleeves were capped at the other end immediately following collection of the soil samples. The remaining soil in the backhoe bucket was replaced in its original location. Samples GAS-E (east end) and GAS-W (west end) were analyzed for total petroleum hydrocarbons as gasoline (TPH-G), benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl tertiary butyl ether (MTBE) via EPA Method 5030/8015M/8020. Chain-of-custody and laboratory analytical results are included in Appendix C and summarized in Table 2. As shown in Table 2, soil analytical results indicate all the suspected contaminants to be well below the designated PRG levels, hence requiring no UST site remediation.

2.3 First Solvent UST

Two underground storage tanks, each containing unknown quantities of solvents, were accidentally encountered while performing remedial excavation on the Phoenix 800 site.

The first solvent tank, encountered on October 15, 1995, was made of steel and its capacity was estimated at 250 gallons. The tank was located south of the diesel and gasoline tanks. Figure 3 shows the approximate location of the tank. There was no record showing the date the tank was installed or put into operation. The nature of the content of the tank was also unknown at the time it was discovered.

2.3-1 Tank Content Identification

At the time of discovery, the tank was struck by the bucket of an excavator puncturing a large hole in the tank and thereby releasing its liquid content into the surrounding soil. The remedial excavation work was immediately halted, the tank was covered with 2 - 3 feet of clean soil and the area was isolated and barricaded with caution tape. An emergency crew (Evergreen) was called to the site to conduct onsite hazardous material cataloguing tests and collect liquid and soil samples to help determine the chemical composition of the liquid in the tank. The crew members were equipped with level B personal protective equipment (PPE).

2.3-2 Soil and Liquid Sampling

Two soil samples were collected from the affected soil in the immediate vicinity of the tank, and one sample was collected from the tank liquid content. The samples were tested for VOCs (EPA Method 8240/8260), Semi-VOCs (EPA Method 3550/8270), and CAM-17 metals (Method 3050A M/6010/7471). Sample collection techniques are detailed in Section 4. The soil and liquid test results identified the liquid as a diluted solvent. The chain-of-custody and analytical results are included in Appendix C and summarized in Tables 3A, 3B, and JC. Photo ionization detector (PID) readings taken next to the tank indicated the presence of strong volatile organic compounds (VOCs).

2.3-3 ACDEH Notification

This incident was reported to ACDEH, Ms. Susan Hugo, on Monday October 16, 1995. She advised that the UST Closure Application form be modified by changing the original number of tanks to be closed at Phoenix 800 from 2 to 3 tanks. A separate Form B was completed for this tank and submitted to ACDEH. Appendix A includes a copy of the tank discovery notification letter and Form B submitted to ACDEH. A Hazardous Materials Release and Notification Report was also filed with the Alameda County Health Care Services Agency on October 19, 1995, and is included in Appendix A.

2.3-4 Associated Piping

There were no fittings or pipings attached to the tank at the time it was uncovered.

2.3-5 Tank Content

Most of the tank content spilled onto the surrounding soil when the tank was struck by the excavator backhoe.

2.3-6 Tank Rinsing

The tank was rinsed with a pressurized stream of water and the rinsate was absorbed (15 gallons) by the surrounding soil, which was later excavated and stockpiled for sampling and characterization.

2.3-7 Tank Purging

The tank was purged of any remaining vapors by placing 10 lb of dry ice in the tank one hour prior to removal. Following purging of the gaseous content of the tank, the LEL inside the tank was measured at 0%. Later all the tank openings and holes were securely covered with tape to maintain the elevated CO_2 content of the tank during removal and transportation to the disposal/recycling facility.

2.3-8 Tank Inspection

The tank was lifted out of the excavation and was brought to the surface for physical inspection by ACDEH inspector Mr. Brian Oliva on October 23, 1995. Inspection of the solvent tank showed that it had been ruptured due to the prior backhoe action. The ACDEH site report is included in Appendix A. Figure 6 shows the solvent tank prior to loading.

2.3-9 Tank Loadin& and Transportation

The tank was loaded for transportation and disposal/recycling on October 23, 1995. The tank was wrapped in visqueen, loaded onto a flatbed truck, properly secured with straps, and transported by Erickson Environmental to a licensed facility for disposal/recycling. A copy of the tank disposal manifest is included in Appendix B.

2.3-10 Personnel PPE

During tank rinsing, purging, inspection, and loading, the excavator operator was suited under level B PPE and the backup personnel were suited under level C PPE with half-face respirators.

2.3-11 Confirmatory Sampling

The soil affected by content of the solvent tank was excavated and stockpiled for sampling and characterization in a concrete- surfaced area located approximately 60 yards east of the tank excavation. The quantity of soil excavated was estimated to be 200 to 300 cubic yards. Confirmatory samples were collected from the bottom of the tank excavation and analyzed for oil and grease (EPA Method 5520), VOCs (EPA Method 8240/8260), semi-VOCs (EPA Method 3550/8270), and CAM 17 metals (EPA Method 3050A M/6010/7471). The chain-of-custody and laboratory analytical results are included in Appendix C and summarized in Tables 3D, 3E, and 3F. Confirmatory sampling results show all detected contaminants to be well below the established PRG levels, hence no further cleanup of the first solvent UST site was required.

2.4 Second Solvent Tank

A second solvent tank was encountered on October 28, 1995. The tank was made of steel and was estimated at 10 gallons. The tank was located to the south of the first solvent tank. Figure 3 depicts the approximate location of the second solvent tank. There was no record showing the date the tank was installed and put into operation. The nature of the content of the tank was unknown at the time it was discovered.

At the time of discovery, the tank was struck by an excavator bucket puncturing a hole in the tank and thereby releasing about 1 gallon of its liquid content into the native soil. Excavation work was immediately halted. The tank was covered with about 2 - 3 feet of clean soil and the area was isolated and barricaded with caution tape. PID readings of the tank indicated presence ofVOCs.

2.4-1 son and Ljgujd Sampling

One soil sample was collected from the surrounding affected soil, and one liquid sample was collected from the suspected solvent tank. The samples were analyzed for VOCs and semi-VOCs. The chain-of-custody and laboratory analytical results are included in Appendix C and summarized in Tables 4A and 4B. As indicated by the liquid test results, the tank contained low levels of solvents and VOCs. The soil test results did not indicate the presence of any of the analytes of interest.

2.4-2 ACDEH Notification

This incident was reported to Ms. Susan Hugo on October 30, 1995. She advised the UST Closure Application form be modified by changing the original number of tank closures from 3 to 4. Appendix A includes a copy of the notification letter sent to Ms. Hugo. A separate Form B was also completed for this tank and submitted to ACDEH (Appendix A). A Hazardous Materials Release and Notification Report was filed with the Alameda County Health Care Services Agency on October 30, 1995 (Appendix A).

2.4-3 Tank Loading and Transportation

The tank was uncovered, loaded, and transported by Erickson Environmental for disposal/ recycling on October 3I, 1995. There was no liquid content in the tank since it had been released into the surrounding soil. PID readings indicated the presence of VOCs in the tank prior to tank purging. The tank was purged by placing 5 lb of dry ice in the tank. LEL readings indicated 0%.

The tank was physically inspected prior to placing it in a truck-mounted roll-off bin. There were no fittings or pipings attached to the tank. The tank showed it had been ruptured due to the prior backhoe action. Figure 7 shows the second solvent tank prior to loading. The tank was wrapped in visqueen, carefully placed the in the truck-mounted roll-off bin, secured, and transported by Erickson Environmental to a licensed facility for disposal/recycling. A copy of the tank disposal manifest is included in Appendix B.

The Alameda County Department of Environmental Health and City of Oakland Fire Department were notified. However, no representative was present during the actual excavation and removal of the tank.

2.4-4 UST Site Remediation

The affected soil around the tank was excavated and stockpiled for sampling and characterization with the first solvent tank stockpile, east of the tank excavation. The quantity of soil excavated was estimated at 50 cubic yards.

2.4-5 Personnel PPE

The excavator operator was suited under level B PPE and the backup personnel were suited under level C with respirators during the sampling, uncovering, inspection, and loading of the solvent UST.

3 UST SITE REMEDIATION

3.1 Diesel UST Site

Analytical results of the soil samples collected from the excavation following removal of the diesel UST indicated the presence ofTPH-D at 1,300 mg/kg at the fill end of the tank (Table 1). In remediating this site, contaminated soils around the diesel tank were excavated vertically to groundwater (approximately 8-9 feet below grade). Horizontally, the contaminated soils were excavated until no visual signs of discoloration (greenish) were observed or the boundary of the Phoenix 800 area was reached. Analysis of soil samples collected from the tank site following diesel UST site remediation indicated TPH-D at 30 and 22 mg/kg (Table 1), which are well below the PRG value of 100 mg/kg. Hence, the diesel UST site was remediated.

3.2 Gasoline UST Site

Results of the soil sample analyses from the former gasoline tank location indicated detectable concentrations of some petroleum hydrocarbon constituents (Table 2). TPH-G was detected at a concentration of 27 ppm, ethyl benzene at a concentration of 0.10 ppm, and xylenes at a concentration of 0.05 ppm. Benzene, toluene, and methyl tertiary butyl ether (MTBE) were not detected in the soil samples.

Sampling results of the former gasoline tank location indicated the site did not require further remediation since the reported levels of TPH-D, ethylbenzene, and xylenes were well below the established PRG levels of 100 ppm, 74 ppm, and 99 ppm, respectively.

3.3 First Solvent UST Site

Two soil samples were collected from the floor of the first solvent tank excavation following tank removal. The soil samples were tested for voes, semi-VOes, and eAM-17 metals. Results of the soil sample analyses indicated detectable concentrations of volatile and semi-volatile organic compounds, and heavy metals (Tables 3A, 3B, 3e).

The soil VOC components: acetone, methylene chloride, and toluene were detected at maximum concentration of 3.1 ppm, 0.29 ppm, and at 1.9 ppm, respectively. No other voes were detected in the soil samples. A summary of the soil and liquid VOC results is presented in Table 3A.

The maximum concentration of semi-volatiles detected in the soil samples was 1.3 ppm for fluoranthene, 1.3 ppm for pyrene, 0.69 ppm for benzo (A) anthracene, 1.0 ppm for chrysene, 0.63 ppm for benzene (B) fluranthene, 1.30 ppm for benzo (A) pyrene, and 1.2 ppm for indeno (1,2,3,e,D) pyrene. A summary of the soil and liquid semi-volatile results is presented in Table 3B.

For the heavy metals, detectable concentrations were reported in the soil samples. Maximum concentrations of antimony at 10 ppm, arsenic at 6.1 ppm, barium at 87 ppm, cadmium at 1.4 ppm, chromium at 21 ppm, copper at 25 ppm, lead at 770 ppm, nickel at 14 ppm, selenium at 2.4 ppm, vanadium at 15 ppm, zinc at 150 ppm, and mercury at 0.11 p.m. were reported for the soil samples. A summary of analytical results of eAM-17 metals for the soil and liquid samples is presented in Table 3C.

Following excavation of the soils from around the solvent UST, two confirmatory soil samples were collected from the floor area of the excavation. The analytical results indicated that volatiles, semi-volatiles, and metal concentrations were well below the PRO levels set for this site, hence no further remediation was considered for this site. Tables 3D, 3E, and 3F nmmari7,e the confirmatory test results for volatiles, semi-volatiles, and CAM-17 metals, respectively.

3.4 Second Solvent UST Site

One soil sample was collected from the area directly underlying the 25-gallon. solvent tank and was tested for volatile and semi-volatile organic compounds. Analysis of the soil sample showed non-detect for all the analytes of interest (VOCs and semi-VOCs), hence remediation of the second solvent tank site was not considered.

4 STOCKPILE MANAGEMENT

The soils excavated from around the diesel and solvent USTs were stockpiled offsite (two diesel stockpiles and two solvent stockpiles) on a concrete slab approximately 50 yards east of area 'T'. Quantities of stockpiled soils from diesel- and solvent- affected UST sites were estimated at 800 and 250 cubic yards, respectively. The stockpiles were sampled for characterization and disposal. Figure **8** depicts the relative position and approximate siz.e of all of the Phoenix 800 stockpiles, including the diesels and solvent stockpiles. Figure 9 depicts the stockpiled soil sampling locations. Laboratory analytical results of characterization samples collected from the diesel stockpile are included in Appendix C and summarized in Tables 5A and 5B..

4.1 Diesel Stockpiles

Four soil samples were collected from the first diesel stockpile and tested for TPH-D (EPA Method 8015) and total and threshold concentration leaching procedure (TCLP) for lead (EPA Method 60I0). Each sample represented a stockpiled soil volume of approximately 100 cubic yards. Figure 9 depicts the sampling locations. The analytical test results are included in Appendix C and summarized in Table 5A. As shown in Table 5A, all the analytes tested for were well below their respective PRG levels, and hence the first diesel stockpile was characterized as non-hazardous. This stockpile will be used as fill material on the Cypress 'B' site.

Six composite samples were collected from the second diesel stockpile and tested for total recoverable petroleum hydrocarbons (TRPH)(EPA Method 418.1), TPH-D (EPA Method 8015), and total lead (EPA Method 3050/7420). Each composite soil sample represented a stockpiled soil volume of 100 cubic yards. Figure 9 depicts the composite sampling locations.

The analytical test results are included in Appendix C and summarized in Table 5B. As shown in Table 5B, all the analytes tested for were well below their respective PRO levels, and hence the second diesel stockpile was characterized as non-hazardous. This stockpile will be used as fill material on the Cypress **'B'** site.

4.2 Solvent Stockpiles

Six samples were collected from the solvent stockpiles and tested for VOCs (EPA Method 8240), semi-VOCs (EPA Method 8270) and CAM-17 metals (EPA Method 3050A M/60IOn471). Each sample represented a 20 foot section of the stockpile along its length. Figure 9 depicts the stockpile sampling locations. The detailed analytical results are included in Appendix C and summarized in Tables 6A, 6B, and 6C. As shown in Tables 6A and 6B, the majority of the analytes tested for were reported as non-detect and only a few were reported in very low concentrations.

VOCs were reported at maximum concentrations of 13 µg/kg for tetrachloroethene and 43 µg/kg for toluene. Semi-VOCs were reported at maximum concentrations of 480 µg/kg for Anthracene, 470 µg/kg for Fluoranthene, and 410 µg/kg for Pyrene. These concentrations are considered well below PRO levels. CAM-17 metals were reported at concentrations well below the PRO levels, except for lead. As shown in Table 6C, total lead was reported at 1900 mg/kg and 1,400 mg/kg for samples T.SOLV.STOC.1 and T.SOLV.STOC.2, respectively. TCLP lead was reported at 24 and 11 mg/I for these samples, respectively, characterizing the portion of the solvent stockpile represented by these samples (a 40-foot section of the solvent stockpile) as Resource Conservation and Recovery Act (RCRA) waste. The section of the solvent stockpile classified as RCRA waste was segregated, loaded, and transported to Laidlaw class I landfill in Buttonwillow, California, on November 17, 1995, for disposal. The hazardous waste disposal manifests are included in Appendix D.

5 SAMPLING

5.1 Sampling Procedure

Soil samples from UST excavations and remediated UST sites were collected by driving 2-in by 6-in brass sleeves capped at one end (Teflon paper+ plastic cap) directly into the soil. Following collection of the soil samples in the brass sleeves, the open sleeve ends were covered with Teflon paper and capped immediately. Each sample was properly labeled and refrigerated with blue ice in a cooler pending shipment to a laboratory for analysis. Liquid samples were collected in I-liter amber glass bottles. Tue chain-of-custody forms and the detailed analytical results are included in Appendix C.

Soil samples from the stockpiles were collected by first augering 2-3 feet below the surface and later employing a core sampler with a 2 inch x 6 in brass sleeve insert to collect the sample at 3 feet below the surface of the stockpile.

5.2 Equipment Contamination Prevention

All equipment used for collecting soil samples was cleaned with nonphosphate detergent and triple rinsed with deionized water prior to sampling. Trowels, hand augers, and core samplers were cleaned between each sampling event to prevent cross contamination from one sample location to another. Furthermore, fresh latex gloves were worn prior to each sampling event.

5.3 Soil and Liquid Sample Analysis

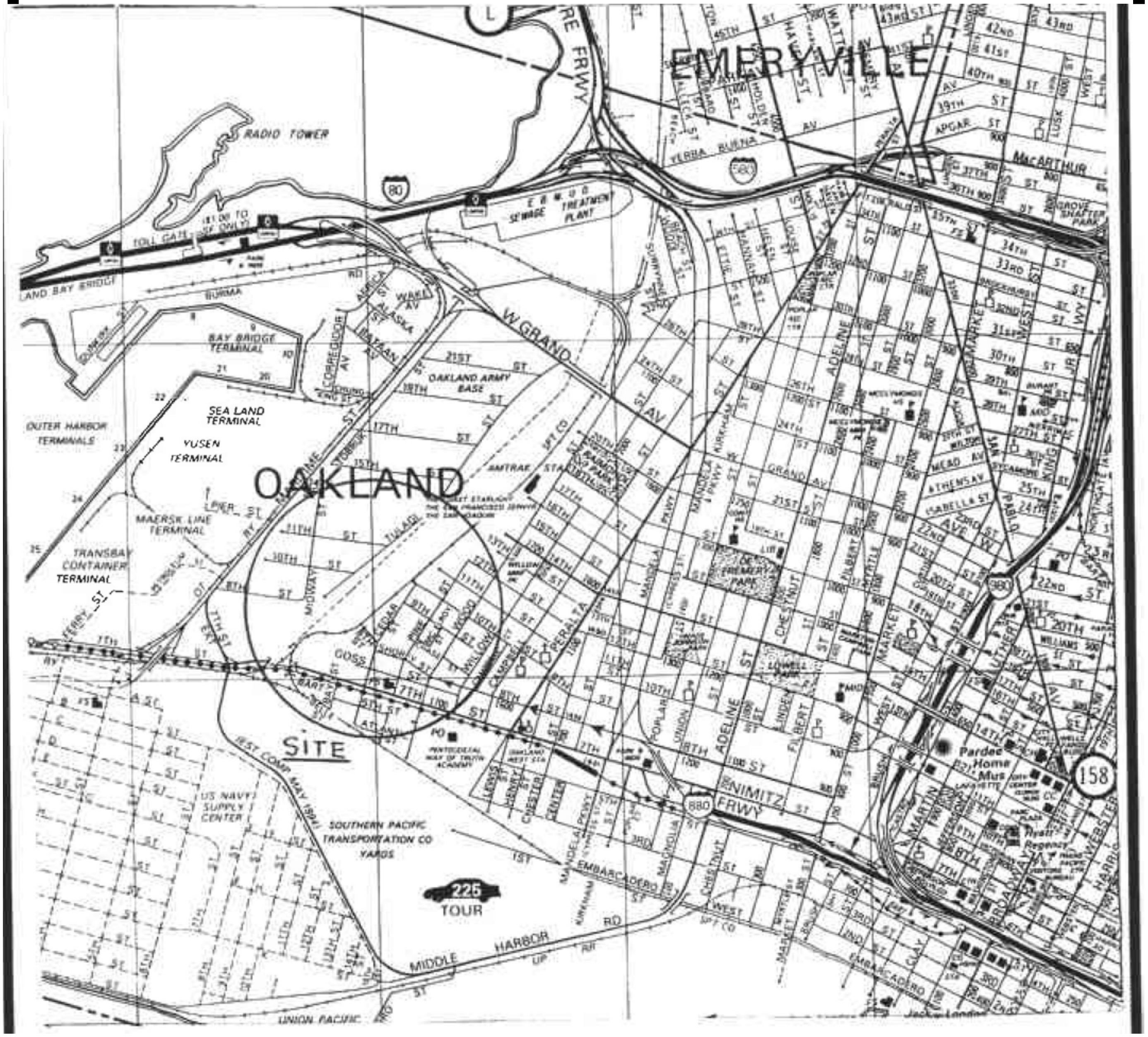
Soil and liquid samples **were** collected from UST excavations following UST removal. Confirmatory soil samples were later collected from remediated UST sites and analyzed for contaminants of concern.

Soil samples collected from the diesel UST site were analyzed for TPH-D via EPA Method 3550/8015M. Soil samples collected from the gasoline UST site were analyzed for TPH-G, benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl tertiary butyl ether (MTBE) via EPA Method 5030/8015M/8020. Soil samples collected from the solvent UST site were analyzed for VOCs, semi-VOCs, and CAM-17 metals via EPA Methods 8240, 8270, and 6010, respectively.

FIGURE I

CYPRESS "B" PHOENIX 800

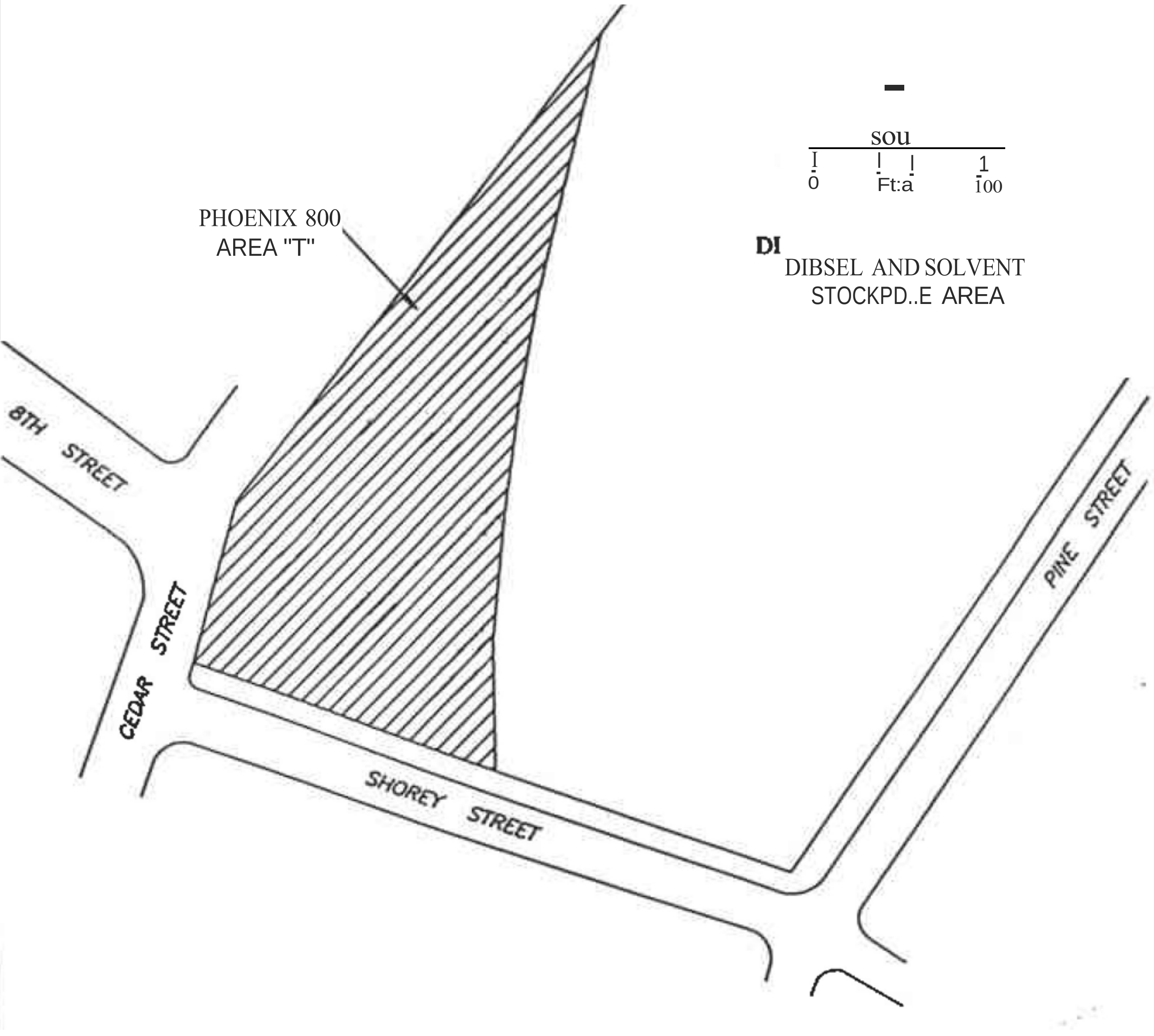
SITE LOCATION MAP



FIGUREl

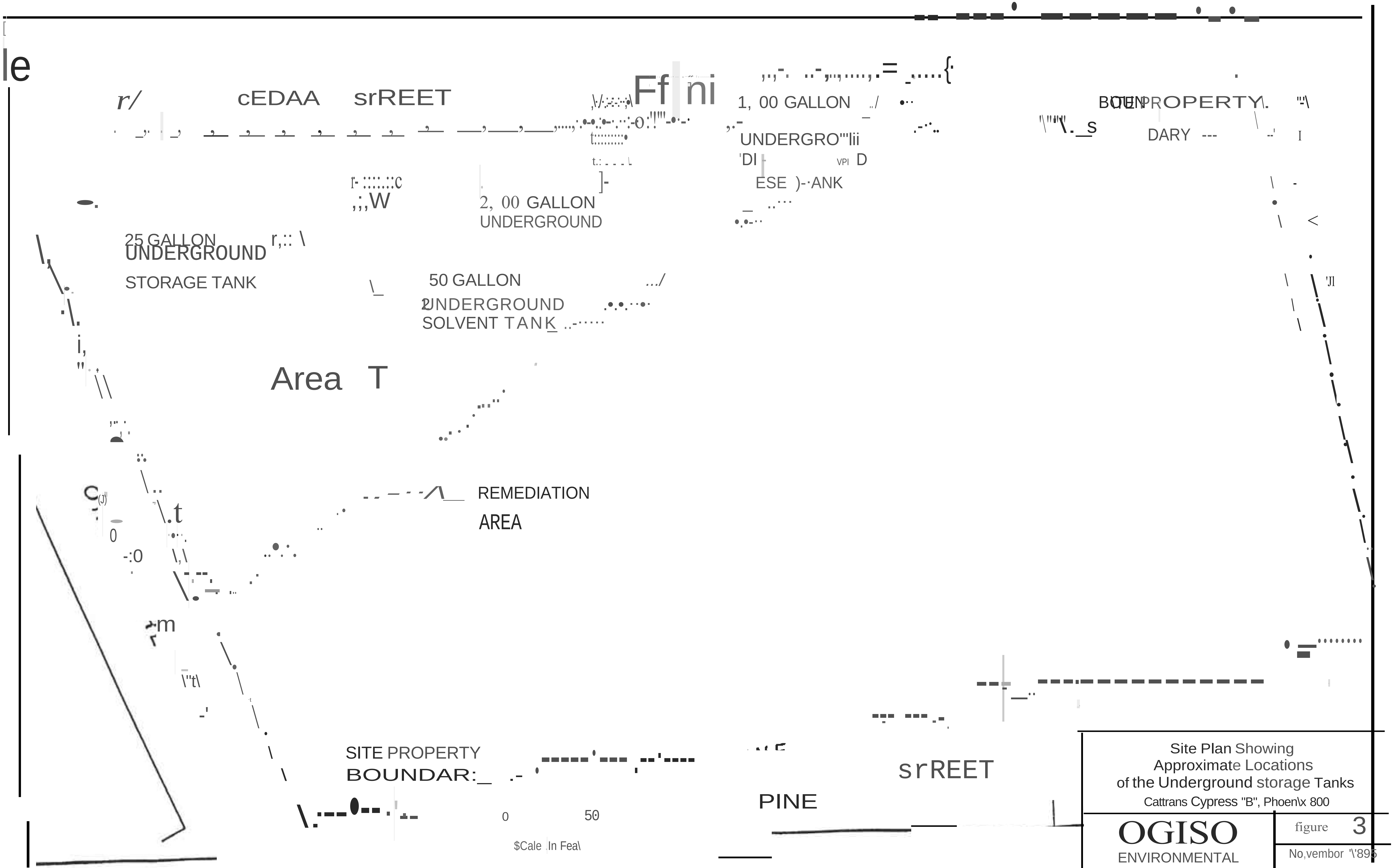
CYPRESS "B" PHOENIX 800

SITE VICINITY MAP



CT CYPRESS 'B' PHOENIX 800

UST REMOVAUE-951 l0CT, I Jn.7/95



Site Plan Showing
Approximate Locations
of the Underground storage Tanks
Cattrans Cypress "B", Phoenix 800

OGISO
ENVIRONMENTAL

figure 3

November '89

FIGURE4

CYPRESS "B" PHOENIX 800

DIESEL UST PRIOR TO LOADING

FIGURE 5

CYPRESS "B,, PHOENIX 800

GASOLINE UST PRIOR TO LOADING

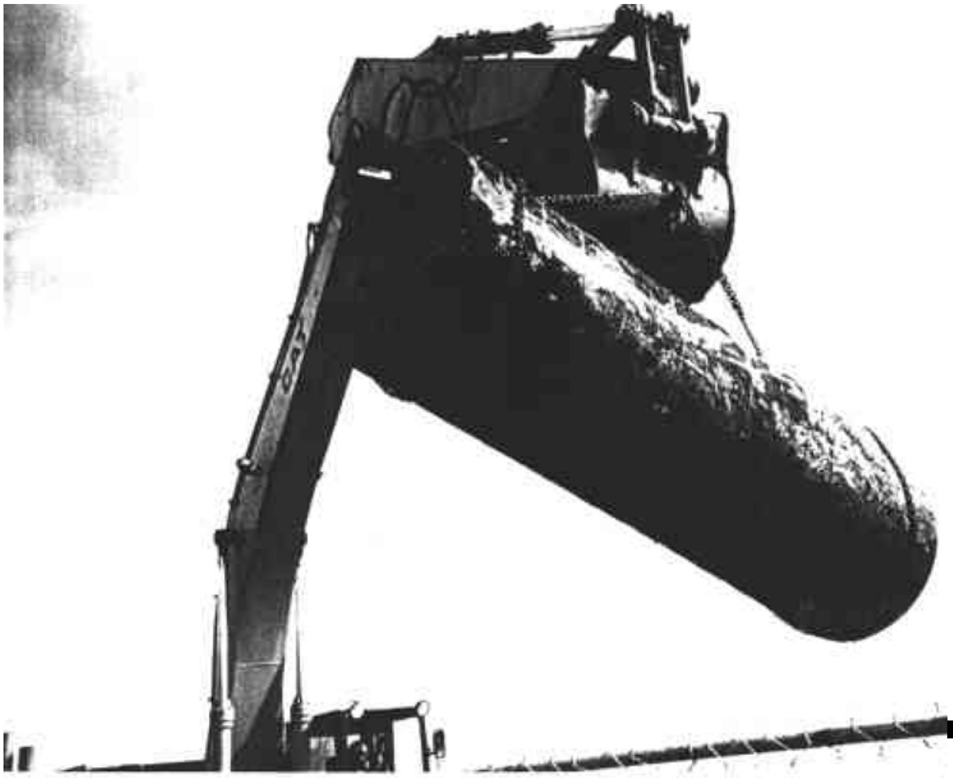


FIGURE 6

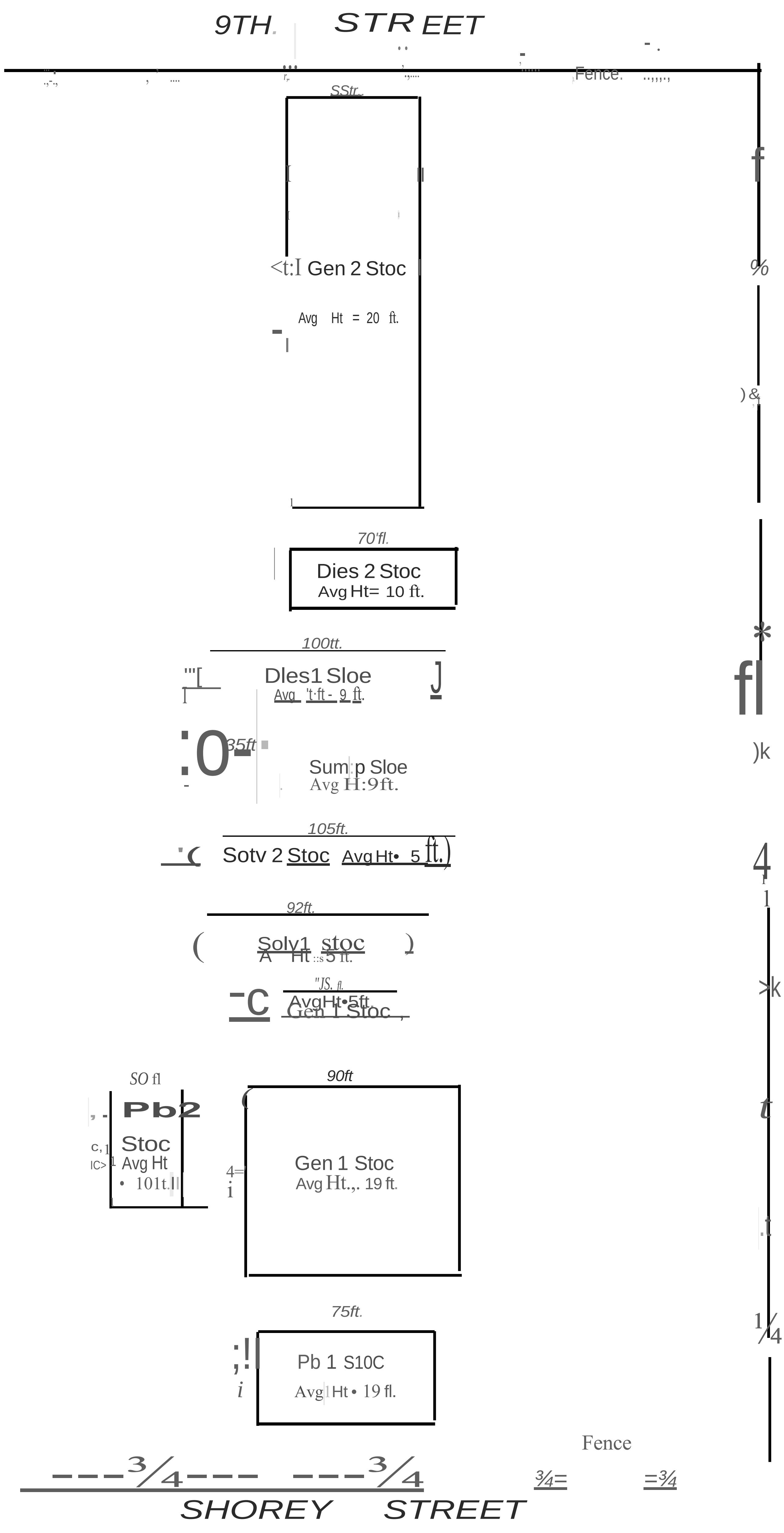
CYPRESS "B" PHOENIX 800

FIRST SOLVENT UST PRIOR TO LOADING

FIGURE 7

CYPRESS "B" PHOENIX 800

SECOND SOLVENT UST PRIOR TO LOADING



LEGEND:

Gen	General	Oles	Diesel
Stoc	Stockpile	Solv	Solvent
Pb	Lead	Avg Ht	Average Height

OGISO
ENVIRONMENTAL

Approximate Location and Size of Phoenix 800 Area 'r Stockpiles

FIGURE 8

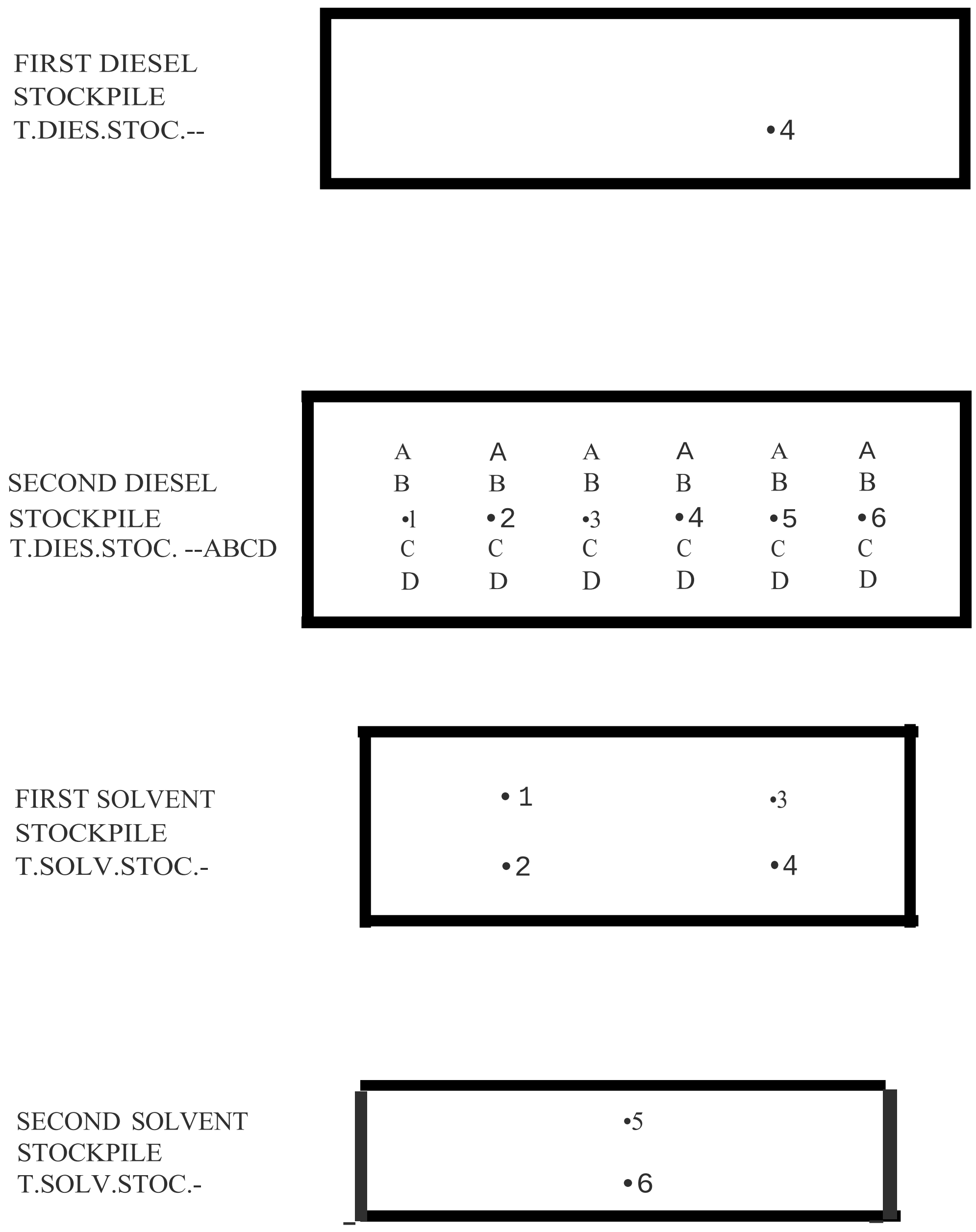
November 1995

Baru; s,o n1-2s,,

FIGURE9

CYPRESS "B" PHOENIX 800

LOCATION OF STOCKPILE CHARACTERIZATION SAMPLES



LIST OF TABLES

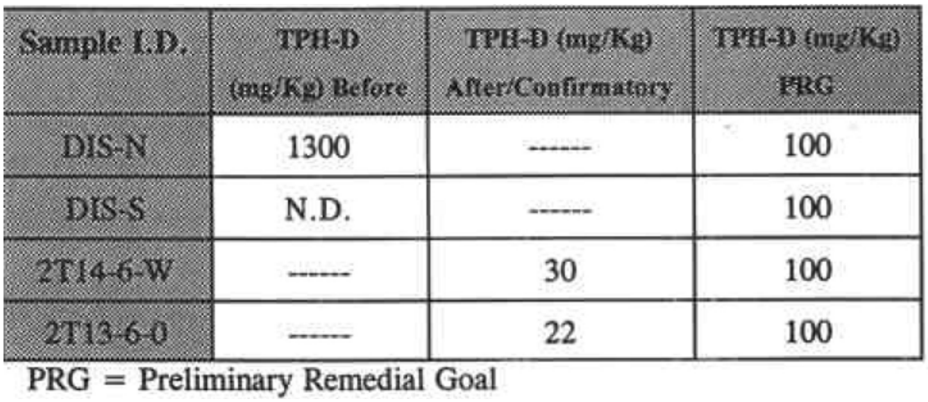
LIST OF TABLES

TABLE 1

ANALYTICAL RESULTS OF SOIL SAMPLES COLLECTED BEFORE AND AFTER REMEDIATION OF FORMER DIESEL UST SITE

(TPH-D, EPA METHOD # 35S0/8015M)

(October 20, 1995)



Sample I.D.	TPH-D (mg/Kg) Before	TPH-D (mg/Kg) After/Confirmatory	TPH-D (mg/Kg) PRG
DIS-N	1300	------	100
DIS-S	N.D.	------	100
2T14-6-W	------	30	100
2T13-6-0	------	22	100

PRG = Preliminary Remedial Goal

TABLE2

ANALYTICAL RESULTS OF SOIL SAMPLES COLLECTED FROM THE GASOLINE TANK EXCAVATION

(TPH-G, EPA :METHOD# S030/8015M/8020)

(Octo 20 1995)'

Analyte	GAS-E (mg/kg)	GAS-W (mg/kg)	PRG (mg/kg)
TPH-Gasoline	27	N.D.	100
Benzene	N.D.	N.D.	31
Toluene	N.D.	ND.	280
Ethyl Benzene	0.. 10	N..D.	74
Xylenes	0.,05	N.D.	99
MTBE	N.D.	N.D.	

PRG = Preliminary Remedial Goal

N.D. = Non Detect

TABLE3A

ANALYTICAL RESULTS OF SOIL AND LIQUID SAMPLES COLLECTED FOLLOWING REMOVAL OF THE FIRST SOLVENT UST

(VOC'S, EPA METHOD# 8240/8260)

(October l , '1'95)

Analyte	Soil Sample #1 (mg/kg)	Soil Sample #2 (mg/kg)	Liquid Sample #3 (mg/l)
Acetone	1.90	3.10	660
Methyl Ethyl Ketone	N.D.	N.D.	3.6
Methylene Chloride	0.29	0.23	1.30
Toluene	1.90	1.20	60
Other*	N.D ..		N.D.

N.D. = Non Detect

TABLE3B

ANALYTICAL RESULTS OF SOIL AND LIQUID SAMPLES COLLECTED FOLLOWING REMOVAL OF THE FIRST SOLVENT UST

(SEMI-VOC'S, EPA METHOD #3550/8270)

(October 15, 1995)

Analyte	Soil Sample #1 (mg/kg)	Soil Sample #2 (mg/kg)	Liquid Sample #3 (mg/l)
Phenol	ND	ND	10
1,4 - Dichlorobenzene	ND	ND	0.27
Benzyl Alcohol	ND	ND	0.18
1,2 - Dichlorobenzene	ND	ND	0.75
2 - Methylphenol	ND	ND	17
4 - Methylphenol	ND	ND	23
2,4 - Dimethyl Phenol	ND	ND	3.7
Fluoranthene	1.30	ND	ND
Pyrene	1.30	ND	ND
Benzo (A) Anthracene	0.69	ND	ND
Chrysene	1.0	ND	ND
Benzene (B) Fluoranthene	0.63	ND	ND
Benzo (A) Pyrene	1.30	ND	ND
Indeno (1,2,3 C,D) Pyrene	1.20	ND	ND
Other	ND	ND	ND

N.D. = Non Detect

TABLE JC

ANALYTICAL RESULTS OF SOIL AND LIQUID SAMPLES COLLECTED FOLLOWING REMOVAL OF THE FIRST SOLVENT UST

(CAM-17 METALS, EPA METHOD# 3050A M/6010/7471)

(October 15, 1995)

Analyte	Soil Sample #1 (mg/kg)	Soil Sample #2 (mg/kg)	Liquid Sample#3 (mg/l)	PRG Values (mg/kg)
Antimony	10	ND	ND	67
Arsenic	6.1	2.1	ND	4.6
Barium	87	61	1.2	12,000
Beryllium	ND	ND	ND	1.8
Cadmium	1.4	1.1	ND	24
Chromium	21	19	ND	170,000
	ND	ND	ND	8,000
Copper	25	23	ND	5,000
Lead	770	480	6	840
Molybdenum	ND	ND	ND	830
Nickel	13	14	ND	44
Selenium	2.4	ND	ND	830
Silver	ND	ND	ND	830
Thallium	ND	ND	ND	14
Vanadium	15	15	ND	1,200
Zinc	130	150	48	50,000
Mercury	0.11	0.07	ND	45

N.D. = Non Detect

PRG = Preliminary Remedial Goal

TABLE3D

ANALYTICAL RESULTS OF CONFIRMATORY SOIL SAMPLES FROM FLOOR OF THE FIRST SOLVENT UST EXCAVATION

OIL & GREASE (EPA# 5520), VOC'S (EPA# 8240)

(October 24, 1995)

Analyte	Solv 1 Sample (mg/kg)	Solv 2 Sample (mg/kg)	DTSC Established PRGs (mg/kg)
Oil and Grease	130	130	1000
Acetone	0.089	0.041	
Ethyl Benzene	0.016	0.079	74
Toluene	0.-049	0.040,	280
Total Xylenes	0.022	O.ll	
Other	N.D.	.D.	

N.D. = Non Detect

PRO = Preliminary Remedial Goal

TABLE3E

ANALYTICAL RESULTS OF CONFIRMATORY SOIL SAMPLES FROM FLOOR OF THE FIRST SOLVENT TANK EXCAVATION

SEMI VOC'S (EPA# 8270)

(October 24, 1995)

Analyte	Solv 1 Sample (mg/kg)	Solv 2 Sample (mg/kg)	DTSC-Established PRGs (mg/kg)
Naphthalene	N.D.	4.4	82
4-Chloro-3-Methyl Phenol	N.D.	4.1	
Acenaphthene	N.D.	4.4	
DibenzoFurane	N.D.	3.2	
Fluorene	N.D.	3	
Phenathrene	N.D.		
Fluoranthene	N.D.	6.2	2300
Pyrene	N.D.	4.8	1700
Other	N.D.	N.D.	

N.D. = Non Detect

PRG = Preliminary Remedial Goal

TABLE3F

ANALYTICAL RESULTS OF CONFIRMATORY SOIL SAMPLES FROM FLOOR OF THE FIRST SOLVENT TANK EXCAVATION

(CAM 17 METALS, EPA METHOD# 3050A M/6010/7471)

(October 24, 1995)

Analyte	Soil Sample #1 (mg/kg)	Soil Sample #2 (mg/kg)	PRG Values (mg/kg)
Antimony	3.7	N.D.	67
Arsenic	N.D.	N.D.	4.6
Barium	96	37	12,000
Beryllium	ND	N.D.	1.8
Cadmium	N.D.	N.D.	24
Chromium	23	21	170,000
Cobalt	N.D.	N.D.	8,000
Copper	63	8.7	5,000
Lead	670	58	840
Molybdenum	N.D.	N.D.	830
Nickel	15	15	44
Selenium	N.D.	N.D.	830
Silver	N.D.	N.D.	830
Thallium	N.D.	N.D.	14
Vanadium	18	15	1,200
Zinc	480	32	50,000
Mercury	0.25	0.07	45

N.D. Non Detect

PRG = Preliminary Remedial Goal

TABLE4A

ANALYTICAL RESULTS OF SOIL AND LIQUID SAMPLES COLLECTED FOLWWING REMOVAL OF THE SECOND SOLVENT UST

VOC'S (EPA# 8240/8260)

(October 28, 1995)

Analyte	Liquid Sample (μg/l)	Soil Sample (μg/kg)
Acetone	83	N.D.
Benzene	61	N.D.
Methyl Ethyl Ketone	62	
Ethyl Benzene	56	N.D.
Styrene		N.D.
Toluene	48	N.D.
Total Xylenes	77'	N.D.
Other*	N.D.	N.D.

N.D. = Non Detect

TABLE48

ANALYTICAL RESULTS OF SOIL AND LIQUID SAMPLES COLLECTED FOLLOWING REMOVAL OF THE SECOND SOLVENT UST

(SEMI VOC'S, EPA Method # 8270)

(October 28, 1995)

Analyte	Liquid Sample (µg/l)	Soil Sample (mg/kg)
m + P-Methylphenol	19	N.D.
2,4-Dimethyl Phenol	14	N.D.
Naphthalene	450	N.D.
2-MethylNaphthalene	100	N.D.
Other	N.D.	N.D.

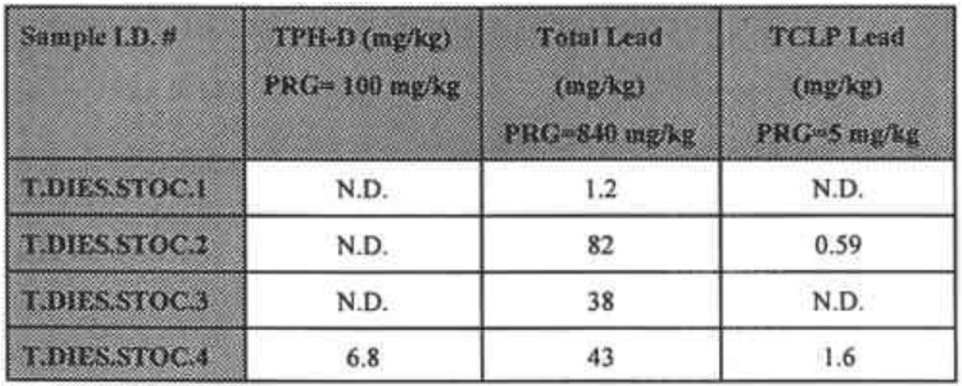
N.D. = Non Detect

TABLESA

ANALYTICAL RESULTS FOR CHARACTERIZATION SAMPLING OF THE FIRST DIESEL STOCKPILE

TPH-D (EPA # 355018015M), LEAD (EPA# 6010)

(October 27, 1995)



Sample I.D. #	TPH-D (mg/kg) PRG= 100 mg/kg	Total Lead (mg/kg) PRG=840 mg/kg	TCLP Lead (mg/kg) PRG=5 mg/kg
T.DIES.STOC.1	N.D.	1.2	N.D.
T.DIES.STOC.2	N.D.	82	0.59
T.DIES.STOC.3	N.D.	38	N.D.
T.DIES.STOC.4	6.8	43	1.6

N.D. = Non Detect

PRG = Preliminary Remedial Goal

TABLESB
ANALYTICAL RESULTS FOR CHARACTERIZATION SAMPLING OF THE SECOND DIESEL STOCKPILE
TRPH (EPA# 418.1), TPH D (EPA# 3550/8015M), LEAD (EPA# 3050/7420)

o mber6 199:)

Sample I.D. #	TRPH (mg/kg) PRG=1000 mg/kg	TPH-D (mg/kg) PRG= 100 mg/kg	LEAD (mg/kg) PRG=840 mg/kg
T DIES2.STOC.1A,B,C,D	110	N.D.	150
T DIES2.STOC.2A,B,C,D	69	1.8	36
T DIES2.STOC.3A,B,C,D	99	.D.	74
T DIES2.STOC.4A,B,C,D	66	.D.	90
T DIES2.STOC.5A,B,C,D	33	.D.	46
T DIES2.STOC.6A,B,C,D	Sl	N.D.	76

N.I

PRO = Preliminary Remedial Goal

TABLE6A
ANALYTICAL RESULTS FOR CHARACTERIZATION SAMPLING OF THE SOLVENT STOCKPILES
(VOC'S, EPA # 8240)
(October 27, 1995)

Analyte	T.SOLV. STOC.1 (µg/kg)	T.SOLV. STOC.2 (µg/kg)	T.SOLV. STOC.3 (µg/kg)	T.SOLV. STOC.4 (µg/kg)	T.SOLV. STOC.5 (µg/kg)	T.SOLV. STOC.6 (µg/kg)
Tetrachloroethene	N.D.	N.D.	N.D.	N.D.	N.D.	13
Toluene	43	N.D.	N.D.	N.D.	N.D.	N.D.

N.D. = Non Detect

TABLE68

ANALYTICAL RESULTS FOR CHARACTERIZATION SAMPLING OF THE SOLVENT STOCKPILES

(SEMI VOC'S, EPA# 8270)

(October 27, 1995)

Analyte	T.SOLV. STOC.1 (µg/kg)	T.SOLV. STOC.2 (µg/kg)	T.SOLV. STOC.3 (µg/kg)	T.SOLV. STOC.4 (µg/kg)	T.SOLV. STOC.5 (µg/kg)	T.SOLV. STOC.6 (µg/kg)
Anthracene	480	N.D.	N.D.	N.D.	N.D.	N.D.
Fluoranthene	470	N.D.	ND.	N.D.	N.D.	N.D.
Pyrene	410	N.D.	N.D.	N.D.	N.D.	.0.

N.D. = Non Detect

TABLE6C

ANALYTICAL RESULTS FOR CHARACTERIZATION SAMPLING
OF THE SOLVENT STOCKPILES
(CAM-17 **METALS, EPA METHOD#** 3050A M/6010/7471)
(October 27, 1995)

Analyte	T.SOLV. STOC.1 (mg/kg)	T.SOLV. STOC.2 (mg/kg)	T.SOLV. STOC.3 (mg/kg)	T.SOLV. STOC.4 (mg/kg)	T.SOLV. STOC.5 (mg/kg)	T.SOLV. STOC.6 (mg/kg)	PRG Values (mg/kg)
Antimony	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	67
Arsenic	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	4.6
Barium	150	130	120	43	46	52	12,000
Beryllium	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1.8
Cadmium	0.6	N.D.	N.D.	N.D.	N.D.	N.D.	24
	39	38	35	29	35	44	170,000
Cobalt	6.8	5.9	6.3	5.4	N.D.	5.3	8,000
Copper	50	46	34	12	13	12	5,000
Lead(TCLP)	1900 (24)	1400(11)	550(3.8)	52(N.D.)	8.0(N.D.)	41(N.D.)	840(5)
Mercury	0.13	0.07	0.093	0.022	0.014	17.7	45
Molybdenum	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	830
Nickel	24	24	23	24	20	24	44
Selenium	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	830
Silver	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	830
Thallium	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	14
Vanadium	27	25	25	21	23	27	1,200
Zinc	220	180	180	59	22	41	50,000

N.D. = Non Detect

PRG = Preliminary Remedial Goal

(TCLP) Concentrations are in µg/l

APPENDIX A

APPENDIX Al: UST EXCAVATION PERMIT FORMS

APPENDIX A2: SOLVENT TANK FORM 'B'
TANK DISCOVERY NOTIFICATION
HAZARDOUS MATERIALS RELEASE NOTIFICATION

APPENDIX A3: ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH UST REMOVAL REPORT

APPENDIX Al:

UST PERMIT FORMS

DEPARTMENT OF ENVIRONMENTAL HEALTH
ENVIRONMENTAL PROTECTION DIVISION
1131 HARBOR BAY PARKWAY, RM 250
ALAMEDA, CA 94502-6577
PHONE# 510/567-6700
FAX# 510/337-9335

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IIJ IE@ uw 'n1
JUN 28 1995 U!)

KASLER CORPORATION

ACCEPTED

Underground Storage Tank Closure Permit Application
Alameda County Division of Hazardous Materials
80 Swan Way, Suite 200,
Oakland, CA 94621
Telephone: (510) 271-4320

These closure/removal plans have been received and found to be acceptable and essentially meet the requirements of State and Local Health Laws. Changes to your closure plans indicated by this Department are to assure compliance with State and local laws. The project proposed herein is now released for issuance of any required building permits for construction/destruction.

One copy of the accepted plans must be on the job and available to all contractors and craftsmen involved with the removal.

Any changes or alterations of these plans and specifications must be submitted to this Department and to the Fire and Building Inspections Department to determine if such changes meet the requirements of State and local laws.

Notify this Department at least 72 hours prior to the following required inspections: *

- ✓ Removal of Tank(s) and Piping
- ✓ Sampling
- ✓ Final Inspection

Issuance of a) permit to operate, b) permanent site closure is dependant on compliance with accepted plans and all applicable laws and regulations.

*THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS

Contact Specialist: J

Please note change made on page 1 to S
Susan L Hug 7/22/95

UNDERGROUND TANK CLOSURE PLAN

***Complete according to attached instructions ***

1. Name of Business Phoenix Iron Works

Business owner or contact Person (PRINT) Victor Salazar

2. Site Address P@', ...ced-ar street

City Oakland Zip Ca 94607 Phone

3. Mailing Address 1545 Willow street

City Oakland Zip CA 94607 Phone (510) 286-1366

4. Property owner California Department of Transportation

Business Name (if applicable) Caltran District 04

Address 1545 Willow Street

City, State Oakland Zip CA 94607

5. Generator name under which tank will be manifested

Caltrans

EPA ID# under which tank will be manifested CAL000021633

rev 4/6/95

6. ontractor EECUN

'Address 1517 Palmetto Aven"e s·ilite 4

·city -- P-a-c_i_f_i_c a, .-=C A 2-4.Q_4_4 Phone C415l 738-1115

License Type• A ID# 589---92 6- -fL-.&...,../.1 --+y-_

***Effective J&DUary 1, 1992, llluainea■ and Profe■sional Code Section 7058.7 require■ prime contractor■ to al■o ho1d Ba:aardo\UI Wa■te Certification i■■ued by the State Contractor■ License Board.**

7. Consultant (if applicable) 061S0 Environmental

Address 3_8_7_1_1_t_h_s_t_r_e_e_t_,_s_u_it_e 2_1_0

City, State Oakland, CA 94612 Phone (510) 452-0246

8. Main Contact Person for Investigation (if applicable)

Name ,._Q"-'-'/a.,:;.;;... 0...;.:Q:.....::.{o=-·1)+··...;;.,u..,..v-.. --- Title

Co pany

Phone

9. Number of underground tanks being closed with this plan--=

Length of piping being removed under this plan

Total number of underground tanks at this facility (**confirmed with-owner or operator) - 2 .._

10. State Registered Hazardous ·waste Transporters/Facilities (see instructions!.

** **Underground storage tanks must be handled as hazardous waste****

a) Product/Residual Sludge/Rinsate Transporter d_ ft't<'..(J O tJ O C O / /

Name Loyal Moore Trucking EPA I.D. No.

Hauler License No. _1_8 2 1 2 4-' License Exp. Date Feb 1996

Address 410 Kennedy Street

City Oakland State CA Zip 9 4=6-□-6

b) **Product/Residual** Sludge/Rinsate Disposal Site

Name Evergreen **EPA ID#**

Address

City State Zip 1

. c) Tank and Piping Tran porter

Name Loyal Moore Truckin EPA I.D. No. __________

·Hauler License No. 18_2_1_2 4_______ License Exp. Date Feb 1_9_9_6

Address 410 Kennedy Srceet

City ___ o""a""k..,...;la""n""d,. ______ state „r_.0. Zip 9_4_6_0_6______

d) Tank and Piping Disposal Site

Name — ------- ----------------------- EPA No. __________

Address ------------------------------------

City ________________ State _______ Zip __________

11. Sample Collector

Name ____ ~~CCL~~ ____________________

company ___ .....;;O G I S O.....::cE n v i r""o nm e.n t-a::. l ______________

Address __3_B_7_1_1_t_h_s_t_r_e_e_t_,_s_u_it_e_.2_1_0 , - __________

City __o_a_k_l_a_n_d__________state Zip 94612 Phone (510) 452-0246

12. Laboratory

Name _____ Sparger Technology, Inc. ____________________

Address __3_0_5_0_F_i_t_e_c_,_·r_c_l_e_,_s u i_t e... ;1_1_2_____________ , - ____

city ____ s_a_c_ra_m_e_n_t_o_______ State _C""A_ _ zip 95827

State Certification No. 1614 ____________________

13. Have tanks or pipes leaked in the past? Yes[ ] No[x] Unknown[ ]

If yes, describe. ____

____

____

14. Describe methods to be used for rendering tank(s) inert.

[illegible] (OD . l(S.

Before tanks are pumped out and inerted, all associated piping must be flushed out into the tanks. All accessible associated piping must then be removed. Inaccessible piping, must be permanently plugged.

The Bay Area Air Quality Management District, 415/771-6000, along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of a combustible gas indicator to verify tank inertness. It is the contractor's responsibility to bring a working combustible gas indicator on-site to verify that the tank is inert.

15. Tank History and Sampling Information*** **(see instructions)*****

Capacity	Tank Use History include date last used (estimated)	Material to be sampled (tank contents, soil, groundwater)	Location and Depth of Samples
70 y-)--	diese	soil + gw if found	2' below bottom of USTs
/ml cy,J	:-____,,		

One soil sample must be collected for every 20 linear feet of piping that is removed. A ground water sample must be collected if any ground water is present in the excavation.

[illegible]

Excavated/Stockpiled Soil

Stockpiled Soil VolUllle **(estimated)**	Sampling Plan a/e J r!;rJ;1

stockpiled soil must be placed on benled plastic and must be completely covered by plastic sheeting.

Will the excavated soil be returned to the excavation immediately after tank removal? [ ] yes _] no _R<'.'")____

If yes, explain reasoning V ;..;;...-- .,-------¼)'i--- . ._ _

If unknown at this point in time, please be aware that **ezcavated soil may not be returned ·to the excavation without** prior **approval from Alameda county. !rhis means that the contractor, consultant, or responsible party must communicate with the Specialist Dt aDVJWCB of backfilling operations.**

16. Chemical methods and associated detection limits to be used for analyzing samples:

A • **The Tri-Regional Board reco111111ended minimum verification analyses and practical quantitation reporting limits should be followed.** See attached Table 2.

17. Submit Site Health and Safety Plan (See Instructions)

contaminant Sought	EPA or Other Sample Preparation Method Number	EPA or Other Analysis Method Number	Method Detection Limit
rJ/µul	-,550	GC!P-tO	
117µi	50?D	(I	
fJ-rfY:		0:)()&1.8-:>YO	
L	/IA		
1·			

:1.s.,'!3ubmit Worker's Consarion Certificate copy

Name of :ensurer ______ Pu& 1

19. Submit Plot Plan *****(See J:nstructions)*****

20. Enclose Deposit (See Instructions)

21. **Report auy le.alts or contamination to this office within 5 days of discovery.** The written report shall be **made** on an Underground Storage Taruc Unauthorized Leak/Contamination Site Report (ULR) form.

22. **Submit a closure report to this office within 60 days of tbe tank r-oval. be report must contain all information listed** in **item 22 of the instructions.**

23. Submit State (Underground Storage Taruc Permit Application) Forms A and B (one B form for each UST to be removed) (mark **box 8** for "taruc removed" in the upper right hand corner)

I declare that to the best of my knowledge and belief that the statements and informa_tion provided above are correct and true.

I understand that information, in addition to that provided above, may be needed in order to obtain approval from the Environmental Protection Division and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained. -

I understand that all work performed during this project will be done in .compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and·worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

once I **have received my stamped, accepted closure plan, J: will contact the project Bazardous Materials Specialist at least tbree working days** in **advance of site work to schedule the required inspections.**

CONTRACTOR INFORMATION

Name of Business . C.,4L-T A-1'r 0c:>r IS.,0 Environmental

Name of **Individual** 0/,,- 6 It lo G-u ,J

Signature 'fiPl:.? _. Date J.......,...g_. 2 1·, 1c;q<

PROPERTY OWNER OR MOST RECENT TANK OPERATOR (Circle one)

.:- "" Name of Business .!:Ce.£,4t..!:L:.DL'At1..r.8:L,,.)7!.::::.. 5

N me of Indi! Jf:-io S(l'i&:z ,t-6=

Signature ______________ Date 7-5-ZS:

AIAHEDA. OJlHi'I i IK.lll'IB0l'UIENTAL PBOTECD0N Dll'UI0N

DEOABA'P0N OJI' SITE At!COIJNT BEnJND IUs,l!IPIElfl'

,Then may be e,cces, funds nmaining in the Siu Account at the completion of this project. The PAYOR (penon or company that llrriu the check) will use thll form to pndelignate another party to receive any funds nfunded at the completion of this project. In the ab,ence of 1h11 form, the PAYOR will receive the refund.

SITE INFORMATION:

Site m Number
(if known)

Phoenix Iron Works
Name of Site

800 Cedar Street
Street Address

Oakland, CA 94607
City, State & Zip COde

I designate the following person or business to receive any refund due at the completion of all deposit/refund projects:

OGISO
Name

387 17th Street, Suite 210
Street Address

Oakland, CA 94612
City, state & Zip code

Signature of Payor

Date

Name of Payor
(PLEASE PRXNT CLEARLY)

company Name of Payor

RETURN FORM TO:

County of Alameda, Environmental Protection
1131 Harbor Bay Parkway, Rm 250
Alameda CA 94502-6577
Phone#(510) 567-6700

rn.4/6/9S;don,n.pln\R.W

&cne+ton Permit 6ranf6cl .No.

CITY OF OAKLAND

Tool ,.,,.11

Permit to Excavate and Install, Repair, or Remove Inflammable Liquid Tanks.

No,_9_9_4_2__ _

Oolloocl, C.lllomlo, July 25, 1995 ••

PERMISSION IS HEREBY GRANTED TO rmx remon XipXDC EP-loW El.nt ...d HCIIYafe commenei-111 ... , ln.lcf• P...

Stroot Stnot

on the,__ __.td• of•--------------- nn e fff+ -- o'------------- -

Hou.. No 888 Cedar St. 1 OaklanA., 2{1607 Stroot -· · · ·, PnMnl Stor•t''------------------

Ow••• CALTRANS M ... .. 1545 Willow St. Oakland ,.........286-1366

Appll.,.ot OGISO d ..., 387 17th St., 11210 Oakland, 94612,. , 452-0246

Dimension, of ffl'ffl (1idew1ll) surfHe lo be ditfurb• ---- ---- NumIN, of y001,____2_C.poclfy 300, 1000 6•0- nc1,.

R•marb.-

This Permit Is granted In accordance •ith ed1tln9 Cffy Ordinances.
Owner h.,.1,y •4J"tlff lo remove tanh on dlscofttinunce of as• or when notfftect br the City Autltorffl...
When installln9, remOYlng or rep,1irin9 t.nh. no open flame to l,e on or nHr premises.

App R.. t.lonhol

_JI N IL_

Approv DraJnag• Division En9HIHrln9 O.pt.

☐

EXCAVATING PERMIT

t...i le_...._ - Ont. He. 271 CMS, Sec. 6-J.14

________ squa,e fHt of di99ln9 or hmoYal ,ranted.

Th, ,. .. 1pt of o-------- poclol d ,. pl th h . . . by ocloowledpd.

6INIUL DIPOSIT.

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71 s I1

CERTIFICATE OF TANK AND EQUIPMENT INSPECTION

lnspectod oocl ,_,..4--------------- •—

1y A.I.

Inspection ho Pold - - • • ••• $ 200. 00 (cash)

•-1..d by S. · Smith receipt/1725522

Plld: PftYCHTION •UIIIAU

NOTICE

.a.r.,. C...,ring Tani.., A...,_ C.rliflcat,, Mul Be Slgne,I.

e ,,,

THIS PERMIT MUST IE LEFT ON 'WORK AS AUTHORITY THEREFOR.

When rHdy for lnspeetlon notify ..,. Pc&s&llloa................%71-1151

&caw-aflcm hrmit 6ra11,,..,____________________________No,__________________

CITY OF OAKLAND

Tonl P.,,.it

Permit to Excavate and Install, Repair, or Remove Inflammable Liquid Tanks.

No,.....:..9.9..4=1_ _

O.llond, C.lllomlo, July 25, 1995 "

PERMISSION IS HEREBY &RANTED TO imc.Y.11 romove JIMi{ 6Hollne tenl end ••co••to commencln91----'feef IMlde,__________,ino

on fho____ __,Jdo oL ______________________________ Stnot .Jy •nu••-----'Hl'-----°"----------------------- -...-An-

Hou■o No 727 Pine Street [redacted] ••••• Pra,ent Stora,,.____

Owner CalTrans .Y -.. 1545 Willow St. Jlho-o 2861366

Appfl.. 0GIS0 dJ- .. 387 17th St., #210 . ...452 -0246

DlmeMlon, of dreet (ddewolll ,arfoco to be dl1lvm,cL_________-___________ Number of Tanh 1 ___ C.paclty 1000 601- uch.

Remarb!

This Permit 11 9rant.d In accordance with eddint City Orcllnancu.
Own.r h•nby a9rH1 to remove tHh on cllscontinuance of ... or when nottfted by the City Authorfftes.
When fnstalHng, rM10Yl119 or ,.,.Iring tanh. no opan flame to be on or nu, pnmfaal.

App Fin. M ......ol __JNIL

Approo, Oraln.t• Div-Ilion EnglnHrln9 0.pt.

EXCAVATING PERMIT

•- la ,,__ Wt• Onl, Me. ffl CMS. Soc. .. 2.04

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The ,. .. 1p1 of $------------------------------- •1ei dopollt h horal,y adnowledgu.

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ln,pactlon Foo Paid • •• • • • • • • _ _l,,5,,0,,O O -----

Rocelnd l,y S; Smith receipt#725521

PIIII: PHV•NTION ■URl:AU

71s 11

aRTIFICATE OF TANK AND EQUIPMENT INSPECTION

....oetod ond ponod ___________________________________--,__

1y FIN Manhal

NOTICE

.a.r.,,. Covering Tan•t, A..... Cerlllllcah Mu,t Be $19.....

Whon ,oody for lnapoctlon notify RN P.011atla -. J7J.JISI

THIS PERMIT MUST BE LEFT ON THE WORK AS AUTHORIff THEREFOR.

■se·•• ca.a7J

APPENDIX Al:

SOLVENT TANK FORM 'B'
TANK DISCOVERY NOTIFICATION
HAZARDOUS MATERIALS RELEASE NOTIFICATION

.O
G
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Professionals in Environmental Sustenance

OGIS0 En,ironmental

150 W. Iowa Ave., Ste 200
P.O. Box 61025
Sunnvvale, CA 94086
Tel 1408/ 245-9801/9802
FAX i408i 245-3870

38717th St., Ste 210
Oakland. CA 94612
Tel 15!01452-0246
FAX 15!01 452-5282

October 17, 1995

Alameda County Health Agency
Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502
Attn: Ms. Susan Hugo

Dear Ms. Hugo:

RE: UNDER GROUND STORAGE TANK REMOVAL PERMIT

Following our telephone conversation and per your request. I am writing to inform you of the accidental discovery of an additional underground storage tank at the Phoenix Iron Works Site located on 888 Cedar Street, Oakland.

The capacity of the underground storage tank is estimated to be 250 gallons. Analytical results of the liquid content indicate presence of Toluene, Acetone, Phenols and Dichlorobenzenes. The Health and Safety Plan has been modified to incorporate the new findings.

A suggested, please change the number of underground storage tanks to be closed from 2 to 3 in the previous Underground Tank Closure Plan submitted for this site in June 1995. A separate Form B for this tank and site plan showing the approximate location of the new underground storage tank are attached.

The removal operations of the three tanks have been scheduled for Friday, October 20. 1995.

If you have any questions. please contact me. Thank you.

-tk-

Ola Balogun. PE

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G
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S
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Professi.onals in Environmental Sustenance

OGISO Environmental

150 W. Iowa Ave., Ste 200
P.O. Box 61025
Sunnyvale, CA '94086
Tel (408) 245-9801/9802
FAX (408) 245-3870

387 17th St., Ste 210
Oakland, CA 94612
Tel (510) 452-0246
FAX (510) 452-5282

October 30, 1995

Alameda County Health Agency
Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA94502
Attn:"Ms. Susan Hugo

Dear Ms. Hugo:

RE: UNDER GROU1'1D STORAGE TANK REMOVAL PERMIT

Following our telephone conversation and per your request, I am writing to inform you of an additional underground storage tank accidentally encountered on October 28, 1995 at the Phoenix Iron Works **Site** located on 888 Cedar Street, Oakland.

A
W

The capacity of the underground storage tank is estimated to be 25 - 30 gallons. Analytlcal results of the liquid content indicate presence of trace amount of Toluene, Acetone, Phenols, Xylenes, Ethylbenzene, and Methyl Ether Ketone. The Health and Safety Plan has been modifiedto incorporate these new findings.

Please change the number of underground storage tanks to be closed from 3 to 4 in the previous Underground Tank Closure Plan submitted for this site in June 1995. A separate Fonn B for this tank and site plan showing the approximate location of the new underground storage tank are attached.

The removal operation for this tank is scheduled for Tuesday, October 3I, I995. A closure report will be submitted at a later date.

If you have any questions, please contact me. Thank you.

Ola Balogun, PE

STATE OFCAUFORNIA
STATE WATER RESOURCES CONTROL BOARD

UNDERGROUND STORAGE TANK PERMIT APPLICATION• FORM B

COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM

MARK ONE ITEM ONLY ☐ , NEW PERMIT 2 INTERIM PERMIT @ 3 RENEWAL PERMIT C AMENDED PERMIT ☐ Ei CHANGE OF INFORMATION e TEMPORARY TANK Ct.OSUAE ☐ 7 PERMANENTLY CLOSED ON SITE D • TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED:

I. TANK DESCRIPTION

COMPLETE ALL ITEMS - SPECIFY IF UNKNOWN

A. OWNER's TANK I.0, • \).,J I'....... W -"I - -

B. MANUFACTURED BY: ..

C. OATE INSTALLED (MOIDAV/'r'EAR) \ t .... \ ·- -

0. TANK CAPACITY IN GAL.LONS: --25- - "

II TANK CONTENTS

IF •, .. MARKED COMPLETEITEM C

•- D 1 MOTOR VEHICLE FUEL ▪ 0
D 2 PETROLEUM ☐ 80 EMPTY
0 3 CHEMICAL PRODUCT ☐ 95 UNKNOWN

•- ☐ 1 PROOUCT ☐ 2 WASTE

C. ☐ 1•REGULAR UNLEADED ☐ 10PREMIUM UNLEAOEO ☐ 2 LEADED 8 DIESEL GASAHOL i JETFUEL ft OTHER (DESCRIBE IN ITEM 0, BELOW) ☐ **6 AVIATIONGAS** 7 METHANOL

D. IF (A..1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED C.A.S.t:

III TANK CONSTRUCTION

MARK ONE ITEM ONLVIN BOXES A,B, ANDC AND AU THAT APPLES INBOX D ANDE ·

A. TYPE OF SYSTEM ☐ t DOUBLE WALL ☐ 2 SINGLE WALL ☐ 3 SINGLE WAL.1. WITH EXTERIOR LINER 4 SECONDARY CONT'4JNMENT (VAULTEOTANK} ☐ 05 UNKNOWN 09 OTHER

B. TANK MATERIAL (Primary Tank) ☐ 1 BARE STEEL ☐ 6 CONCRETE 9 BRONZE ☐ 2 STAINLESS STEEL ☐ 6 POLYVINYL CHLORIDE ☐ 10 GALVANIZED STEEL ☐ 3 FIBERGLASS ☐ 7 ALUMINUM UNKNOWN ☐ , STEEL CI.AC WI FIBERGLASS REINFORCED PLASTIC ☐ 8 100% MEI'HANOL COMPATIBLE WIFRP 99 OTHER

C. INTERIOR LINING ☐ 6 GLASS LINING ☐ 6 UNLINED UNKNOWN ☐ III OTHER
1$ LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES_ NO_

D. CORROSION

E. SPILL AND OVERFILL SPILL CONTAINMENT INSTALLEO (VEAR) OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR)

IV. PIPING INFORMATION

CIRCLE A IFABOVEGROUNDOR U IFUNOERGROUNO, BOTHIF APPLICABLE

A. SYSTEM TYPE A U 1 SUCTION A U 2 PRESSURE A U 3 GAAVIIY A U 8(t OTHER

B. CONSTRUCTION A U 1 SINGLE WALL A U 2 DOUBLE WALL A U 3 LINED TRENCH A U 05 UNKNOWN A U 90 OTHER

C. MATERIAL ANO CORROSION PROTECTION
A U 1 BARE. STEEL A U 2 STAINI.ESS STEEL A U 3 POLVVINYL CHLORIDE (PVC) A U 4 FIBERGLASS PIPE
A U 5 ALUMINUM A U 6 CONCRETE A U 7 STEEL WI COA.TING A U 8 100% METI-1.INOL COMPATIBL.EWJFRP
A U 9 GALVANIZED STEEL A U 10 CAT MOOIC PROTECTION AU DS UNKNOWN A U IV O T HER

D. LEAK DETECTION AUTOMATIC LINE I.EAK DETECTOR 2 LINE TIGMTNESS TESTING MONITOf:IING OTHER

V. TANK LEAK DETECTION

D 1 VISUAL CHECK ☐ 2 INVENTORY RECONCILIATION ☐ 3 VAOOZE MONITORING ☐ 4faOMA.TICTAM<GAUGING ☐ 6 GROUNOWATERYONITORING
0 6 TANK TESTING ☐ 7 INTEA.STITIALMONITORING ☐ 91 NONE Q"OS UNKNOWN ☐ 09 OTHER

VI. TANK CLOSURE INFORMATION

1. ESTIMATED DATE L"ST USED (MO/OAYJVR) 2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING G.6.LLONS 3. WAS TANK FILLED WITH INERT MATERIAL? YES ☐ NO ☐

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANrS NAME 4PAINT:EO,. $1GhlATURE) Douglas Johnson For Cal. DOT

DATE 10-30-95

LOCAL AGENCY USE ONLY **THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW**

STATE I.D.# COIJJ,/TY# [TI JURISDICTION# | | | FACILITY# | | | TANK# ll I

PERMIT NUMBER PERMIT APPROVED BY/DA.TE PERMIT EXPIRATION DATE

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION· FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED.
FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

\ (12-91)

'

STATE OFCAUFDIHA
STATE WATER RESOURCES CONTROL BOARD

UNDERGROUND STORAGE TANK PERMIT **APPLICATION·** FORM B

COMPLETE **A** SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM D 1 NIaWPE1MIT 2 INTER.. PERMIT B 2 RENEWAL PERMIT 4 AMENDED PERMIT . B • CHANGE OF INFORMATION • TEMPORARY TANK CLOSURE B 7 PERMANENTLY CLOSED ONSITE I TANK REMOVED

DBAOR FACILITY NAME WHERE TANK IS INSTALLED:

I TANK DESCRIPTION

COMPLETE All ITEMS- SPECIFY F UNl<NOWN

A. OWNER'S TANK L 0. *I* 1111 ...J *f*.

.a. MANLFACTURED BY:

C. DATE INSTALLED (MCM>AYNEAA) \ANk *f*\ o "",..J

0. TANK CAPACITV Ill GALLONS: *3CV, .1,0 ee*

II TANK CONTENTS

FA IISMARKEO COMPLETEITEMC

... D , MOTOR VEHICLE FUEL
5:J' 2 PETROLEUM
D • CHEMICAL PAOOUCT

D. OIL
D 10 EMPTY
D .. UNKNOWN

8.
D 1 PRODUCT
D. WASTE

C, D L) 1b AEGU AR UNI.EAOED
B1 PREMIUM GASAHO
0 UNI.EAOED 2 I.EAOED
JETFUEI
H OTHER (DESCAI8E IN ITEM D. BELOW)
D • AVIATIOIIGAS
D 7 METHANOL

0. IF (A..1) IS NOT MARK.EC), ENTER NAME OF SU8STANCE STOREO

C.A.S.•:

Ill TANK CONSTRUCTION..

ARKONEITEMONLVINBOXESA **.B.** ANOC ANOAl.1.THATAPPLESN<BOXDANDE

A. TYPE OF SYSTEM D , DOUBLE WAl.1. SINGLE WAU B $ SINGLE WALL WITH EXTERIOR LINER • SECONDARY CONTAINMENT (YAULTEDTANtC) B .. UNKNOWN .. OTHER

B. TANK M.ATERIAL (Primary Tank)
(g""1 8ARESTEEL
D • CONCRETE
D. BRONZE
D 2 STAINLESS STEEL
D • POLVVINVL CHLORIDE
D 10 GALVANIZED STEEL
D • FIBERGLASS
D 7 ALUMINUM
D .. UNKNOWN
☐ 4 STEEL CLAC WIFIBERG.ASS REfNFORCED PLASTIC
D • , ... METHANOL COMPATIBIE WIFRP
D .. OTHER

C.INTERIOR LINING
B • RUIIIER LI'iED • GUSS LINING
D • ALKYD LItIIG • UNLINED
a5 EPOXVLIUNG UNI<NOWN
D • PHENOLC LINING .. OTHER
IS LINING MATERIAL COMPATIBLE WITM 100% METHANOL? YES NO

D.CORROSION PROTECTION
D , POLVETHVLENE WRAP
D 2 COATING
D 3 VINVL WRAP
☐ 4 -FIBERGLASS REINFORCED PLASTIC
0 5 CATHODIC PROTECTION
D 11 NONE
5 WN
D .. OTHER

E. SPILL AND OVERALL SPILL CONTAINMENT INSTALLED (VEAR) OVERFILL PREVENTION EQUIPMENT INSTAl..LED (YEAR)

IV. PIPING INFORMATION

CIRCLE **A** IFABOVEGROUNDOR **U** IFUNOERGROUND BOTH IF APPLICABLE

A. SYSTEM TYPE A U 1 SUCTION A U 2 PRESSURE AU 3 GRAVITV AU tel OTHER

B. CONSTRUCTION A U 1 SINGLE WALL A U 2 DOUBLE WALL AU 3 LINED TRENCH AU 95 UNKNOWN A U 10 OTHER

C. MATERIAL AND CORROSION PROTECTION
A U 1 BARE STEEL
A U 5 ALUMINUM
A U 8 GALVANIZED STEEL
AU 2 STAINLESS STEEL
A U I CONCRETE
A U 10 CATHODIC PROTECTION
A U 3 POLVVINVL CHLORIOE (PVC)
A U 7 STEEL WI COATING
A U 15 LIIIKNOWN
A U "4 FIBERGLASS PIPE
A U I 100% METHANOL COMPATIBLE WiJ"RP
A U 99 OTHER

MONITORING

V. TANK LEAK DETECTION

D 1 VISUAL CHECt<
D 6 TANK TESTING
D 2 I'IVENTOAV RECONCILIATION
D 7 INTERSTITIAL MONITORING
D • VAOOZE MONITORING
D ., NONE
☐ .. AUTOMATICTANKGAUGING
ISJ-os UNKNOWN
DI GROUNOWATERMONITOR!NG
D .. OTHER

VI. TANK CLOSURE INFORMATION

1. ESTIMATED DATE LAST USED (MO/DAY/YR)
2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING GALLONS
3. WAS TANK FIUED WITH INERT MATERIAL? YES D NO [J

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED I. SIGNATURE) CALTRANS Victor Salazar VICTOR SALAZAR

DATE 7-5-95

LOCAL AGENCY USE ONLY

THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATEI.D.# COUNTY *I* WI JURISDICTION # III - I FACILITY# III TANK 1 J I I li I

PERMIT NUMBER fl:RMIT APPAOVEO BY/CATE PERMIT EXPIRATION DATE

THIS FORM MUSTBE ACCOMPANIED BY A PERMIT APPLICATION •fORM A,UNLESS A CURRENT FORM A HAS BEEN FILED.
FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

FORM B (12·91J

FORM'HI RF

JB
Box

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Oiree1or

RAFAT A. SHAHID, Assistant Agen_cy Director

ALAMEDA COUNTY
ENVIRONMENTAL PROTECTION'DlVISION
1131 HARBOR BAY PKWY., #250
ALAMEDA CA 94502-6577 CC4530

1 HAZARDOUS MATERIALS RELEASE Mm NOTIFICATION REPORT (H&SC 25180.7)
] EMERGENCY RESPONSE
1 INFORMATI:ON RECEIVED BY: ie.½J ft., fllr: (⁄ J.L,t}f'> 4Jtd - , , ,

DATE: 10/i•Ucr TIME: 10.,00 I \..¾ orAJ

2 INCIDENT LOCATION: 2:g'r5. - Ce.dee
CITY: OAk\o ZIP: 'J9 607

3 DATE OF INCIDENT: to/, /15" . TJ:ME OF INCIDENT: N N 1_/
4 REPORTED BY: D lA AGENCY: C>//i!:, I S.. a G:A) .. I P..fmfl'\-!lftl'{.
ADDRESS: 1}:.o'(- fr t:-bn g=':3P'fu CITY,ZIP:/4 ZJ.;.;;;J.
TELEPHONE: 1/51- :S::27 / CONTACT: ,e!SA.;e::·="""u.,.""S?"---------
PHONE : :S,.....-.,. -=-

5 TYPE OF DISCHARGE:
['.] Discharge from vehicle License Plate No. __
Manifest/Shipping Information:
Abandoned Material [ ] .fixed facility
Name: !2.. J T....t:iddress: __
city: b<tJa,..,, Zip code: __
[] Other (specify)

6 ESTIMATED QUANTITY DISCHARGED: - 81-- JA,Jv 250¢: aM:- }gtJ.p:f!}'
QUANTITY THREATENED TO . BE LEASED: $ o B Q29o • ?i-l-.;:.....; :€c p

7 :ta.<r'ONl OP MATERIAL:
[ ] Solid IX! Liquid [] Gas [] Powder [ ] ..Granular
[ ] Radioactive [ ] Other
Chemioo.1 :trc.iae: :5:£2 ®:I 1 - CoJD.111on Name: ,"

8 HAZARDOUS PROPERTIES: [ ] corrosive Ignitable [1 '.OOllC
[ ] Reactive Other

9 HAZARDOUS MATERIAL WAS RELEASED '.00:
[] Air [] storm Drain [) San Francisco Bay .[] sanitary sewer
] Other Natural Waterway (.creek,· lake, reservoir) [ ] Groundwater
• Groundsurface (soil, road, etc.) [] other (specify)__

.O WEATHER CONDITIONS: __ -=>=:= -"-:,>t-- ..::: ,W,<:.=;_ \ r =\ ----- -

.i-NUMBER OF INJURED PERSONS REQUIRING HOSPITALIZATION: NL.:..' %0:'; :.= J=-----
- Names and Addresses of Hospitals Utilized:__

PERSONS PRESENT AT SCENE:

~~Jeff~~ A'ffiliation: m: c P#iti'e: wt;_- ~~738~~-4115

RESPONSIBLE PARTY:
Name: °=4j. ::GiA-o $- ∠C... Phone: _. 2 'i?" 6 :./ ,,, ., ,,b., b=--
Address: l"'ff S: <,), Cl awS,IO"z.U@:

EVIDENC.,; COLLEC':i."f:!> _____ photographs, etc.)
""?.;s?) I s:- N<tJ, a en, 5, t: t:t>f= ::t;q.., P ,

CLEAN-OP ACTIONS: S:C'eP-iJ.&,a..-wt #<91\JJ/ zp/fr .'

Names and Addresses of Persons Doing Clean-up: -v 't1 r,.z.-0 . tc:0--J
as, & l SO z,,I(D t A- o A.<P ta-..tt..cpp,ct,,J-z: ,@urc.t:.
:£ ¢o,o ,:,•.Jl 4-- *OO •o

Description of Clean-up Actions:

TIME INCIDENT CLOSED:

ELAPSED TIME:

[]DISCHARGE NOT TO BE NOTIFIED:
Unlikely-to cause Substantial Injury to PUblic He lth &·Safety
Public Knowledge ___ o::igui:.g cri inal Investigations
Permitted Discharge other

[} DISCHARGE TO BE NOTIFIED:
Factors Determining That This Ha =a us waste Discharge or Potenti l Discharge rs Likely To cau Substantial Injury To The PUblic Healt or Safety:

NOTIFICATION:
Board of supervisors
Health Officer
Alameda County Press Room
Reporting Agency or Individual

:fr,f copy of this report to the above listed agencies and officials, we "31.'1'.e hereby submitting this inforsi,, ion on behal.f of all designated e'll'ployees of the Department of Environmental Health, according to $ction 25180.7, Health & safety Code. The information submitted in t':ilis report is based upon the best available information at the-time te report was completed.

::ruapector•s Name: Date:
'.ll:5pector•s Signature: ;_;

i)

ALAMEDA COUNTY
HEALTH CARE SERVICES s::,
AGENCY ,iv.
- -D_A_v1_o_J_.K_EA-R_s_,A_gen_cy_D_irect_or_ __c'll_,__________________R_A_FA_T_A_S_HA_H_1_0_A,ssi_·s-'-',tan-.....!Agency"'-'-_-,0'--irec_t..:;,or_

ALAMEDA COUNTY
ENVIRONMENTAL PROTECTION'DIVISION
1131 HARBOR AY PKWY., #250
.ALAMEDA CA 94502-6577 CC4530

.] HAZARDOUS MATERXALS RBLEASB AND NOT:IF:ICAT:ION REPORT (H&SC **25180.7)**
,><r EMERGENCY RESPONSE

1 INFORMATION RECEprED BY: Shirley Simril
DATE: I o (?,o (9:5 TIME:

2 INCIDENT LOCATION: <?-/, q..d£1P
C:ITY: Q4(:\4=:C\ ZIP:_-'4O 6 0 7....

3 DATE OF INCIDENT: 0 2!(,; TIME OF INCIDENT: ,/c..0"'---'/l...:,_,.,_
4 REPORTED BY: /.2.JJ:?r. l u AGENCY: Q 1 5.Q..
ADDRESS: 1-{o<{ .f: ct.l';-..;t..6'30'{ CITY, ZIP: QA f:...f% d. 94612
TELEPHONE: i/51- 5:z2"2-- CONTACT:_-..,O=.(.r;;;A....
PRONE: 'f:S:I- 5n"a-

5 TYPE OF DISCHARGE:
[.] Discharge from vehicl.e License Pl.ate No.________
Manifest/Shipping Information:___ ...,.__ ....,....,;..'---------
Ac'f(Abandone Material [ ] .fixed facility A _L r./)
Name: -' .\J.e...-.f Address: .1'.8 - e. .
city; r-, io.. c| Zip code:____q.1,;;uhM._.o.<...r:z.L-________..:,___
[ ) Other (specify) "'k

6 ESTIMATED QUANTI DISCHARGED: ;;) 0 A-- ... 11 /_______ <o:-n.'00
QUANTITY THRBATBNED **TO.BE** RELEASED: .{ ..; .:"/

7 NATURE OF MATER:X:AL:
[ ] Sol.id Q6: Liquid ([ ] Gas. [ ) Powder ( ] ..Granul.ar
.C] 1;1,adioactive____ [____ [ ] Other
Chemical. Name: -af2 J _<1 lc:H-PM common Nam.e:__ 5o=-"-'('-']'- -4 ±

8 HAZARDOUS PROPBRTIES: [] Corrosive LJ- Ignitable c] mnc
[] Reactive f-J-,Other

9 HAZARDOUS MATERJ:AL WAS RELEASED m: .
(J Air ( ] storm Drain ;[ ] SanFrancisco Bay .(.] sanitary sewer
[] Other Natural. waterway (oreek,,J.ake, reservoir) (] Gro dwater
Groundsurfaoe •. ro_ad, etc.) [ ] other **(specify)_. __** _

,O WEATHER COND:X:T:X:ONS:_ =::..:;.:...:.;;:____ r-----------------

Ll NUMBER OF :INJURED PERSONS REQU:X:RXNG HOSP:X:TALIZAT:X:ON:_t-)""-'&1'-9="'--'-==----
- Names and Addresses of llospital.s Util.i ed:____________________

PERSONS PRESENT AT SCENE:

Nru:'[' ,Cl Atp,liation: Lfu-S Phone:

:?$. 8occq :t-frt;;1;s 77"2...

5-738-1115

I

RESPONSIBLE RTY:'f-i..A IJ S

Name:] Phone:_=Q.....;:_...::. ;:bc,._--'-r....c'3c. b_.·..:::b=..__

Address:L l-<>.{(o <--> ef

EVIDENCE COLLECTED(photographs, etc.)

CLEAN-UP ACTIONS: LN the Process (escavating the Soil)

Nam'=' and Addresses of Persons Doing Clean-up:

uC-:rtSO - •·

Description of Clean-up Actions:

ts- 5 er Va ::1-." <a ::-::h:i o '$cl 1

TIME INCIDENT CLOSED:___ _,0""-'-N-'-- -=-=..:._/\);;;_,S.;:+----

ELAPSED TIME:

[] DISCHARGE NOT TO BE NOTIFIED:

___ Unlikely.to cause Substantial Injury to PUblic Health Safety

___ Public ltnowledge _ Ongoing Criminal Investigations

___ Permitted Discharge .__ other

[ ] DISCHARGE TO BE NOTIFIED:,

Factors Deter-mining That This Haza dous Waste Discharge Or Potential Discharge Is Likely To cause Substantial Injury To The Public Health or Safety: ·

NOTIFICATION:

___ Board of supervisors

___ Health Officer

___ Alameda County Press Room

___ Reporting Agency or Individual

By copy of this report to the above listed agencies and officials, we are hereby sUbmitting tllis information on behalf of all **designated**· employees of the Department. of· Environmental Health,._aooording.to S ction 25180.7, Health & Safety co·de. The information submitted in this report is based upon the best available information at the time the report was completed.

Inspector's Name:______________________ Date:__________

Inspector•s Signature:______________________

He has spoken to Susan Hugo.

APPENDIX A3:

ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
UST REMOVAL REPORT

white -env.health
ye/ION -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENUIHONMENTAL HEALTH

1131 Harbor Bay Pkwy
Alameda CA 94502
510/567-6700

Hazardous Materials Inspection Form

II, III

Site ID# ----   Site Name e,4i. 7/!ANS ffoM€fe.   Today's DatJ!2../.2 , 9:f

SiteAddress_2..fJ_ [;_eOA <;1tef r

City Q/JKi..firlJ)   Zip 9 4{pOf   Phone

__ MAX AMT stored> 500lbs, 55 gal., 200 cft.?

Inspection Cateaarles·

_ I Haz. Mat/Waste GENERATOR/TRANSPORTER
✓ II. Hazardous Materials Business Plan, Acutely Hazardous Materials
✓ III. Underground Storage Tanks

*Oakland Fire Dept - not available requested ACDEH to ____ tank's removals.

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments: 2 USTs Removed: → TANK's Manifest = (95592816 contents) #95592442
TANKS Hauler = ERICKSON #616258[illegible]

#1 TANK (diesel, aprox 1000 gal.) Steel tank appeared corroded; hole at the bottom (some liquid dripping).
LEL = 0% O2 = (1.5% bottom) & 4.2% top
One soil sample collected from each end of the tank. (aprox. 8 ft).

#2 TANK (gasoline; aprox 2600 gal) steel tank appeared corroded; some pitting; no obvious holes.
LEL = 62.0% O2 = 0.6% MTBE will be added as target analytes. One soil sample collected fr. each end of the tank. (aprox. 8 ft bgs).

Stockpiled soil generated during the removal of the tank must be characterized for disposal.
The area of the former tanks will be part of the 60 ft excavation for the Cypress reconstruction. Limited overexcavation will be conducted around the tank. ~~Collected~~ Verification soil samples must be collected (Schedule with the County).

Contact f) L. f>i f,A \1;.,G M r:l   Inspector 5'U.S.AN) -/1-uGo II, III

:::ature ---. *' C... . :f , a _   Signature Susan L. Hugo

white -env.health
ye/frMI -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF
ENU I RON MENTAL HEALTH

1131 Harbor Bay Pkwy
Alameda CA 94502..
510/567-6700

Hazardous Material§,ilspection Form

C/1L "1,eA!t

II, 1111

Site ID#1!i.7 Site Name kL -/13 Today's Date!':? /J_{

Site Address 7 -<7 n./'l...::'=s -r,.; u...,;: ,;:c , T

City 68K/.. fl.,/j) Zip] Phooe

_____ MAX AMT stored> 500lbs, 55 gal., 200 cit.?

Iaspect loo Cat eaor Jes;

_ I. Haz. Mat/Waste GENERATOR/TRANSPORTER
_ I. Hazardous Materials Business Ran, Acutely Hazardous Materials
___ Ill. Undergound Storage Tanks

* . Calif. Administr atioo Code (CAC) or the Health & Safety Code (HS&C)

Comments:

Tank's Hauler = Erickson #616258 a/p5/
1 UST removed Tank's manifest = 95592442
1000 gal fiberglass - dusil
LEL = 0% O2 = 7.0%
Oakland Fire Dept (Inspector Gilbert Cody) not present requested the ACDEH to oversee tanks witness.
The tank appeared to be in good shape.
One Soil Sample collected for each end of the tank.
A monitoring well was located near the tank area.
Stockpiled soil generated from the tank's removal must be characterized for disposal.
The dispenser was removed. One soil sample underneath the dispenser collected.
All pipings a / tank must be remove & samples collected (er,,-,._ ol.. at ft.).
North soil sample appeared to have strong discoloration
South soil sample appeared not to have strong discoloration, compared to north sample.

. ii

Cootact OLA BALOGUN
Title Engineers
Signatur e

II, III

Inspector SUSAN L. HUGO
Signature Susan L. Hugo

white -env.health
yef/CNI -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

1131 Harbor Bay Pkwy
Alameda CA 94502
510/567-6700

Hazardous Materials Inspection Form

II, III

Site ID # 612 Site Name Phoenix Ironworks Today's Date 10/23/95

Site Address 888 Cedar Street

City Oakland Zip 94[illegible] Phone

_____ MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

____ I. Haz. Mat/Waste GENERATOR/TRANSPORTER
____ II. Hazardous Materials Business Plan, Acutely Hazardous Materials
✓ III. Underground Storage Tanks

Solvent tank

OAKDALE
FIRE ON SCENE
~200 gallon

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments: On site for removal of ~250 gallon UST encountered during demolition processes. Tank contents have previously leaked from site due to action of backhoe. There is a discharge of liquid from fracture of the UST in the pit - Several photographs taken of area - Tank LEL = 0. Tank fractured therefor unable to inert w CO2 - -

Note aromatic odor noted in area of tank

Required actions

- Sample under tank in closest proximity to site.
- Sample for BTEX, Solvents, Waste O&G, TPH, CAM 17 metals
- Sample water/liquid in pit area for same
- Send results to this office c/o Susan Hugo (2 weeks)
- Sample stockpiled soils according to TRI Regional guidelines
- Cover/berm stockpiled soils
- Remove liquid from tank (and pit if possible.
- Provide manifest for ~~the~~ TANK (Copy)
- Provide manifest for liquid removed from pit
- Submit final report of findings - 30 days

II, III

Contact 0/A 6 A c Gu N

Title [illegible]

Signature

Inspector

Signature

white -env.healifi
ye//(N{ -facility·
pink -files

HLHMEDH COUNTY, DEPHRTMENT OF
ENU I RON MENTAL HEALTH

1131 Harbor Bay Pkwy
Alameda CA 94502
510/567-6700

II, 11e

Hazardous Materials Inspectjon Form

Sitelo#faa... Site Name P --- Today's Date__ !,£>;_ /..2

Site Address ---- i (:g. St. · _

City _O_ ·- ----'---- Zip _9_ 1:)_Y Phcne ______

______MAX AMT stored> 500lbs, 55 gal., 200 cft.?

Iaspect Ion Cat eaor les;

___ I. Haz. Mat/Waste GENERATOR/TRANSPORTER

_____II. Hazardous Materials Business Aan/-?,cutely Hazardous Materials

- ·!TI. Undergound Storage Tanks

* Calif. Administr aticn Code (CAC) or the Health & Safety Code (HS&C)

Comments: actual Tank Removal Sheen on liquid in Pit
Tank was Removed under Level "B" Backup
actual Workers were in Level "C" & Regular
· Monitoring took place using (2) TWO PIDS
VOCS
TANK Container Content, ↑ 7000 PPM - by PID
Further inertion with Dry Ice took place

— TANK TO Be Wrapped For transport/disposal
by Erickson.

manifest # Not onsite yet
1200pm tank still on Site

II, III

Contact OLA BALOGUN
Title Engineer
Signature

Inspector
Signature

APPENDIXB:

TANK DISPOSAL MANIFESTS

State of California—Environmental Protection Agency
OMB No. 2050-0039 (Expires 9-30-96)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
CAA600929029	92442		

3. Generator's Name and Mailing Address
Dept of Trans (Caltrans) State of CA
1545 Willow ST, Oakland CA 94607

4. Generator's Phone (510) 286-1367

State Manifest Document Number 95592442

5. Transporter 1 Company Name
Erickson Inc.

6. US EPA ID Number CAD009466392

Transporter's Phone 67258

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Erickson, Inc.
255 Parr Blvd.
Richmond, CA 94801

10. US EPA ID Number CAD009466392

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)

11.	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-RCRA Hazardous Waste Solid Waste Empty Storage Tank.	003	TP	04000	P
b.				
c.				
d.				

J. Additional Descriptions for Materials Listed Above
Qty 3 Empty Storage Tank(s) #16718, 16719, [illegible]
Tank(s) have been inerted with
Ice, Dry Ice Per 1000 Gallon Capacity.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Keep Away from Sources of Ignition. Always wear hardhats when working around
U.G.S. 24 Hr. Contact Name

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
ANDREW NORRIS		10	20	95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Steve Fleming	Steve Fleming	10	20	95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

DO NOT WRITE BELOW THIS LINE.

IN CASE OF EMERGENCY OR SPILL, CONTACT THE NATIONAL RESPONSE CENTER 1-800-424-8802

DTSC 8022A (1/95)
EPA 8700-22

Yellow: GENERATOR RETAINS

State of California—Environmental Protection Agency
Form Approved OMB No. 2050–0039 (Expires 9-30-96)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAP600929029 Manifest Document No. 92474
2. Page 1 of 1
Information in the shaded areas is not required by Federal law. CALTOAK CA93TEMP

A. State Manifest Document Number 95592

3. Generator's Name and Mailing Address
CAL TRANS
1545 WILLOW ST.
OAKLAND, CA 94607-1525
ATTN: ANDREW NORRIS

4. Generator's Phone (510) 286 - 1367

B. State Generator's ID [illegible]

5. Transporter 1 Company Name ERICKSON INC.
6. US EPA ID Number CAD009466392

C. State Transporter's ID 602419
D. Transporter's Phone (510) 235 - 1393

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
ERICKSON INC.
255 PARR BLVD.
RICHMOND, CA 94801

10. US EPA ID Number CAD009466392

G. State Facility's ID
H. Facility's Phone (510) 235 - 1393

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. RQ, HAZARDOUS WASTE SOLID, N.O.S. (METHYLENE CHLORIDE, ACETONE), 9, NA 3077, III ERG # 31	001	CM	250	P	State [illegible] EPA/Other [illegible]
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
EMPTY TANK [illegible]
F003, F005
16729

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
ANDREW NORRIS
(510) 286-1367
OE P.O.: OE JOB: 14-514744 1465

24 HR. EMERGENCY CONTACT
EMERGENCY PHONE
286 - 4J 11

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name ANDREW NORRIS Signature Month Day Year 10 23 95

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name PAUL JACOBO Signature Month Day Year 10 23 95

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name Signature Month Day Year

GENERATOR
TRANSPORTER
FACILITY

OR SPILL, CALL 1-800-852-7550

DO NOT WRITE BELOW THIS LINE.

Yellow: GENERATOR RETAINS

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802

GENERATOR

Document No. 2 4 7 9	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
		CALTCYP CA93TEM

State Manifest Document Number 9559247

State Generator's ID HMH

State Transporter's ID 601399

Transporter's Phone (510) 235-1393

State Transporter's ID

Transporter's Phone

State Facility's ID

Facility's Phone (510) 235-1393

CAD009466392

CAD00

d Class, and ID Number)

12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste Number
001	TP	00	P	State 512 EPA/Other 003
				State EPA/Other
				State EPA/Other
				State EPA/Other

K. Handling Codes for Wastes Listed Above

24 HR.

threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
ANDREW NORRIS		10	31	95

TRANSPORTER

Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Paul JACOBO	Paul Jacobo	10	31	95

Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature

..._ at Califomio &......--.1 Proleclion Ag,enty

form p,awd OMll No. 2050-0039

Instructions on back of page 6.

Department of Toxic Substances Co
Sacramento, California

UNIFO
WA STE MANIFEST

1. Generator's US EPA ID No.	CAP600929029	Manifest Document No. 928 16	2. Page 1 of 1	Information in the shaded areas is not required by Federal law. ENVPWST CA9STEM

3. Generator's Name and Mailing Address
ept of Transportation State of California
illow St 94607
nd CA
4. Generator's Phone (510) 286 1367

A. State Manifest Document Number 955928

5. Transporter 1 Company Name
ERICKSON INC.
6. US EPA ID Number
CAD009466372

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
PRC PATTERSON, INC.
13331 N. HWY. 33
PATTERSON, CA 95363
10. US EPA ID Number
CAD083166728

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. RQ, HAZARDOUS WASTE LIQUID, N.O.S. (BENZENE), 9, NA 3082, III (D018) ERG # 31	001	TT	00546	G
b.				
c.				
d.				

J. Additional Descriptions for Materials Listed Above PROFILE [illegible]
TANK RINSATE/WATER 70-99%, GASOLINE 0-[illegible]
0-20%, OIL 0-20%

15. Special Handling Instructions and Additional Information
OE P.O. OE JOB:
24 HR. EMERGENCY CONTACT
HARRISON L. STOCKTON
24 HR. EMERGENCY PHONE
(510) 235 - 1393

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name ANDREW NORRIS	Signature	Month Day Year 10 20 95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name ALFRED DAVIS	Signature Alfred Davis	Month Day Year 10 20 95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month Day Year

G E N E R A T O R

T R A N S P O R T E R

F A C I L I T Y

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-75

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (1/9)
EPA 87 27

Yellow: GENERATOR RETAINS

APPENDIXC:

APPENDIX C1:	**DIESEL AND GASOLINE UST CHAIN- OF-CUSTODY AND LABORATORY ANALYTICAL REPORT**
APPENDIX C2:	**SOLVENT UST CHAIN-OF-CUSTODY AND LABORATORY ANALYTICAL REPORT**
APPENDIX C3:	**STOCKPILE CHAIN-OF-CUSTODY AND LABORATORY ANALYTICAL REPORT**

APPENDIX Cl:

DIESEL AND GASOLINE UST CHAIN- OF-CUSTODY AND LABORATORY ANALYTICAL REPORT

CLIENT NAME: 0 e,-1So

ADDRESS: f5<)... £,n elc I..;, S:\. e :Z f:

PHONE NO. %oi z f :. #Jjf)f:. 7?j

PAOJECTNAME: C...'Jp-.'£M B

SEND REPORT TO:

CHAIN OF ctlSTODY RECORD
REQUEST FftRJNALYSIS

DATE: IO ;a, Ifs;"

PAOE_J_ OF

CK Y lncol'JJO'Olff
Enulronmental Serol«•
11770...,,une,s.n.-c
— - — -CA 94566
Tel, 510-346-3188
Fu, 510-346-1236

SAMPLER NAME/SIGNATURE

TUAN AROUND TIME
NORMAL
RUSH

ANALYSES REQUIRED

1-- li il l f
- :ij I
.;s 1 ĩĩ!

SAMPLE NUMBER	SAMPLING DAT¥/TIME	PRESEA-VATIVE	CONTAINER SIZEITYPE	WATER	SOIL	OTHER
'7A e v..J	IO)'LO		I ,,,, ,11,-•			./
t.;;.A.<:.- r;.			v			
))_15.-"'	v		...,,			" v'
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Esi.- N	-./			_		
Fc..'b-S.	,./			/		
fsh_-'b•. . T			7			

COMMENTS: s Y it

A ellngulsh n-) Signalufe' Date: AelInqulahed by: (Signature) Date: Received by: (Signature) Date:

Compa"berl.So I; ;;P;th Cha°"41,l 11 ·; aplio.,mpany. TIRM: Company: Time:

Slorage/Illsposal of Samples: Sample wlll be store'd at CKY for 30 days at no charge and at $10/sample/mOnth thereafter. Olspcsal of sample by the Laboratory wlll be charged at $10/sample.

SPARGER TECHNOLOGY, INC. 'tr JD'-'t 0

Analytical Laboratory

3050 Ffte Circle, #112 Sacramento, CA 95827

Pholie: (916) 362-8947

FAX: m1s1 362-0947

CHAIN OF CUSTODY RECORD

C.O.C. No. 10516

Page _.2:::.._ **of** ?--

STAL Invoice Number:

Company: 00-!SD

Phon5f) J; 5J- "')'77 /

Pml eel Ma,,•nar: ,l_ ..... Ml·-•h

FAX: 51,0) U? -l ':>':77 3

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Blllng 1111 lne &Add-, /'"ft> IJ\I, A,.(...)-<fi)

eML ,tt,.-q'-t(;/2- r. t,A 4q(J,PG,

ProJact Nai:r,e: l!:,

Project/Job#:

Project Location:

P.O.#,

ANALYSIS REQUEST

REMARKS: 1?- (2.

Sampler's Name:

		All	None	Some	
					WETlSTLCl
Cooler Temp.	2.oC	fl..			
Sample Condition	r. :	•. r 1	- / ...	n ll	TCLP
pH	l'....	p		'<j,	
	Tct!9°				Total

Preservative Used

Matrix

NO	SAMPLE ID	Date	Time
1	'1' 5- 7_1	10/ J	
2	l'I ..,,,___,7-r=-		
3	#1-rr-/- -1".		
4	l\"1• _1 _,::		
5	1 -n -rt-1.1		
6	1-r,,,- -..		
7	ll -r I '1 - R-0		
8	.1ll-2.- R-C		
9	.') -r l,, _,_ t		
10			

Aelingulshed by: fi,_

Received t,,J"-,1,. -7'"fa

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Received by:

Date: / ,? Tkna: y,...; :!VIV, o...Ju7j_((!.f.._! !..:.fl½_3!':.

Data:

Time:

CHROMALAB, INC.

- ---------- En-v,'.""·,o-nmental Services (SOB)

October 23, 1995

Submission#: 9510294

OGISO

Atten: Ola Balogun

Project: CYPRESS B
Received: October 20, 1995

re: 5 samples for Diesel analysis.
Method: EPA 3550/8015M

Sampled: October 20, 1995
Matrix: SOIL
Run: 8998-K
Extracted: October 20, 1995
Analyzed: October 20, 1995

Spl #	Sample ID	DIESEL (mg/Kg)	REPORTING LIMIT (mg/Kgl	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
107282	DIS-N	1300	1.0	N.D.	93
107283	DIS-S	N.D.	5.0	N.D.	93
	For above sample:	*Unknown hydrocarbons*	*in the Diesel range, cone. si mg/Kg.*		
107284	FSD-N	1400	1.0	N.D.	93
107285	FSD-S	920	1.0	N.D.	93
107286	FSD-DISPENSER	N.D.	1.0	N.D.	93

7,/-- --
Kayvan K yai
Chemist

(P;M
Ali K zi
Organic Manager

SIO-OJ.5703 IM3

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N:OC1002 KAYYAN09:38:07

EPA METHOD 418.1
TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

CLIENT:	Ogiso Environmental	DATE COLLECTED:	10/31/95
PROJECT:	CYPRESS B	DATE RECEIVED:	10/.31/.95
BATCH NO.:	95J090	DATE EXTRACTED:	10/.31/.95
MATRIX:	SOIL	DATE ANALYZED:	ll/01/95

SAMPLE ID	CONTROL NO	RESULT (mg/kg)	DILUTION FACTOR	RL (mg/kg)
2T7-7-0	J090-13	39	1	10
2T7-7-E	J090-14	ND	1	10
2T9-7-W	J090-15	13	1	10
2Tl0-7-W	J090-16	ND	1	10
2T12-6-0	J090-l7	540	2	20
2T13-6-0	J090-l8	22	1	10
2T14-6-W	J090-l9	30	l	10
MBLKlS	TRl<OOlSB	ND	l	10

RL: Reporting Limit

CHROMALAB, INC.

Environmental Services (SOB)

October 23, 1995 *Submission#:* 9510294

OGISO

Atten: Ola Balogun

Project: CYPRESS B
Received: October 20, 1995

re: One sample for Gas/BTEX with Methyl Tert-Butyl Ether analysis.
Method: **EPA** 5030/8015M/8020

SampleID: **GAS-E**
Sample#: 107281 *Matrix:* SOIL
Sampled: October 20, 1995 *Run:* 8996-4 *Analyzed:* October 20, 1995

Analyte	**RESULT (mg/Kg)**	**REPORTING LIMIT (mg/Kg)**	**BLANK RESULT (mg/Kg)**	**BLANK SPIKE RESULT (%)**
GASOLINE	27	10.0	N.D.	97
BENZENE	N.D.	.050	N.D.	110
TOLUENE	N.D.	.050	N.D.	109
ETHYL BENZENE	0.10	.050	N.D.	113
XYLENES	0.050	.050	N.D.	103
MTBE	N.D.	.100	N.D.	

Surinder Sidhu
Analyst

Ali Kh i
Organic Manager

CHROMALAB, INC.

Environmenlal Services (SOB)

October 23, 1995 *Submission#:* 9510294

OGISO

Atten: Ola Balogun

Project: CYPRESS B
Received: October 20, 1995

re: One sample for Gas/BTEX with Methyl Tert-Butyl Ether analysis.
Method: EPA 5030/8015M/8020

SampleID: **GAS-W**
Sample#: 107280 *Matrix:* SOIL
Sampled: October 20, 1995 *Run:* 8996-4 *Analyzed:* October 20, 1995

Analyte	**RESULT** (mg/Kg)	**REPORTING LIMIT** (mg/Kg)	**BLANK RESULT** (mg/Kg)	**BLANK SPIKE RESULT** (%)
GASOLINE	N.D.	1.0	N.D.	97
BENZENE	N.D.	.005	N.D.	110
TOLUENE	N.D.	.005	N.D.	109
ETHYL BENZENE	N.D.	.005	N.D.	113
XYLENES	N.D.	.005	N.D.	103
MTBE	N.D.	.010	N.D.	

'l.,U.,.-cfe,{ (d 4•
Surinder Sidhu
Analyst

vii.A/if
Ali Khar
Organic Manager

APPENDIX C2:

SOLVENT UST CHAIN-OF-CUSTODY AND LABORATORY ANALYTICAL REPORT

ANALYSIS REPORT

VOLATILE ORGANICS (EPA 624, 8240, 524.2)

BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)

TOTAL OIL & GREASE (EPA 5520, B+F, E+F)

S (EPA 418.1)

30d

CHROMALAB, INC.

Environmental Services (SOB)

October 16, 1995 *Submission#:* 9510202

DECON ENV. SERVICES, INC.

Atten: Ola Balogun
Project: CALTRANS CYPRESS B *Project#:* 04-192214
Received: October 15, 1995
re: One sample for Volatile Organic Compounds analysis.
Method: EPA 8240/8260
SampleID: #1
Sample#: 106588 *Matrix:* SOIL
_sampled: October 15, 1995 *Run:* 8925-0 *Analyzed:* October 16, 19S

Analyte	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kgl	BLANK RESULT (ug/Kgl	BLANK SPIKE RESULT (%)
ACETONE	1900	10	N.D.	
BENZENE	N.D.	5.0	N.D.	103
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	
BROMOFORM	N.D.	5.0	N.D.	
BROMOMETHANE	N.D.	5.0	N.D.	
2-BUTANONE	N.D.	5.0	N.D.	
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	
CHLOROBENZENE	N.D.	5.0	N.D.	100
CHLOROETHANE	N.D.	5.0	N.D.	-
2-CHLOROETHYLVINYLETHER	N.D.	5.0	N.D.	-
CHLOROFORM	N.D.	5.0	N.D.	-
CHLOROMETHANE	N ..D.	5.0	N.D.	
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	110
1,2-DICHLOROETHENE (CIS)	N.D.	5.0	N.D.	
1,2-DICHLOROETHENE (TRANS)	N.D.	5.0	N.D.	
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	
1,3-DICHLOROPROPENE (CIS)	N.D.	5.0	N.D.	
1,3-DICHLOROPROPENE (TRANS)	N.D.	5.0	N.D.	
ETHYL BENZENE	N.D.	5.0	N.D.	
2-HEXANONE	N.D.	5.0	N.D.	
METHYLENE CHLORIDE	290	5.0	N.D.	
4-METHYL-2-PENTANONE	N.D.	5.0	N.D.	
STYRENE	N.D.	5.0	N.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	
TETRACHLOROETHENE	N.D.	5.0	N.D.	
TOLUENE	1900	5.0	N.D.	113
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	
TRICHLOROETHENE	N.D.	5.0	N.D.	80
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	
VINYL ACETATE	N.D.	5.0	N.D.	
VINYL CHLORIDE	N.D.	5.0	N.D.	
TOTAL XYLENES	N.D.	5.0	N.D.	

Oleg Nemtsov
Chemist

Ali Kha zi
Organic Manager

CHROMALAB, INC.

Environmental Services (SOB)

October 16, 1995 *Submission#:* 9510202

DECON ENV. SERVICES, INC.

Atten: Ola Balogun
Project: CALTRANS CYPRESS B *Project#:* 04-192214
Received: October 15, 1995
re: One sample for volatile Organic Compounds analysis.
Method: EPA 8240/8260
SampleID: #2
Sample #: 106589 *Matrix:* SOIL
Sampled: October 15, 1995 *Run:* 8925-0 *Analyzed:* October 16, 19

Analyte	RESULT (ug/Kg)	REPORTING **LIMIT** (ug/Kg)	BLANK **RESULT** (ug/Kg)	BLANK SPIKE **RESULT** (%)
ACETONE	3100	10	N.D.	
BENZENE	N.D.	5.0	N.D.	103
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	
BROMOFORM	N.D.	5.0	N.D.	
BROMOMETHANE	N.D.	5.0	N.D.	
2-BUTANONE	N.D.	5.0	N.D.	
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	
CHLOROBENZENE	N.D.	5.0	N.D.	100
CHLOROETHANE	N.D.	5.0	N.D.	
2-CHLOROETHYLVINYLETHER	N.D.	5.0	N.D.	
CHLOROFORM	N.D.	5.0	N.D.	
CHLOROMETHANE	N.D.	5.0	N.D.	
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	110
1,2-DICHLOROETHENE (CIS)	N.D.	5.0	N.D.	
1,2-DICHLOROETHENE (TRANS)	N.D.	5.0	N.D.	
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	
1,3-DICHLOROPROPENE (CIS)	N.D.	5.0	N.D.	
1,3-DICHLOROPROPENE (TRANS)	N.D.	5.0	N.D.	
ETHYL BENZENE	N.D.	5.0	N.D.	
2-HEXANONE	N.D.	5.0	N.D.	
METHYLENE CHLORIDE	230	5.0	N.D.	
4-METHYL-2-PENTANONE	N.D.	5.0	N.D.	
STYRENE	N.D.	5.0	N.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	
TETRACHLOROETHENE	N.D.	5.0	N.D.	
TOLUENE	1200	5.0	N.D.	113
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	
TRICHLOROETHENE	N.D.	5.0	N.D.	80
TRICHLOROFLOOROMETHANE	N.D.	5.0	N.D.	
VINYL ACETATE	N.D.	5.0	N.D.	
VINYL CHLORIDE	N.D.	5.0	N.D.	
TOTAL XYLENES	N.D.	5.0	N.D.	

Oleg Nemtsov
Chemist

Ali Kha"Z2i
Organic Manager

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CHROMALAB, INC.

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October 16, 1995

Submission#: 9510202

DECON ENV. SERVICES, INC.

Atten: Ola Balogun
Project: CALTRANS CYPRESS B *Project#:* 04-192214
Received: October 15, 1995
re: One sample for Vo.latile Organic Compounds analysis.
Method: EPA 8240/8260
SarnpleID: **#3**
Sample#: 106590 *Matrix:* LIQUID
Sampled: October 15, 1995 *Run:* 8925-0 *Analyzed:* October 16, 199

Analyte	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
ACETONE	660000	10000	N.D.	
BENZENE	N.D.	1000	N.D.	103
BROMODICHLOROMETHANE	N.D.	1000	N.D.	
BROMOFORM	N.D.	1000	N.D.	
BROMOMETHANE	N.D.	1000	N.D.	
METHYL ETHYL KETONE	3600	1000	N.D.	
CARBON TETRACHLORIDE	N.D.	1000	N.D.	
CHLOROBENZENE	N.D.	1000	N.D.	100
CHLOROETHANE	N.D.	1000	N.D.	
2-CHLOROETHYLVINYL ETHER	N.D.	1000	N.D.	▬▬▬
CHLOROFORM	N.D.	1000	N.D.	
CHLOROMETHANE	N.-0.	1000	N.D.	
DIBROMOCHLOROMETHANE	N.D.	1000	N.D.	
1,1-DICHLOROETHANE	N.D.	1000	N.D.	
1,2-DICHLOROETHANE	N.D.	1000	N.D.	
1,1-DICHLOROETHENE	N.D.	1000	N.D.	110
CIS-1,2-DICHLOROETHENE	N.D.	1000	N.D.	
TRANS-1,2-DICHLOROETHENE	N.D.	1000	N.D.	
1,2-DICHLOROPROPANE	N.D.	1000	N.D.	
CIS-1,3-DICHLOROPROPENE	N.D.	1000	N.D.	
TRANS-1,3-DICHLOROPROPENE	N.D.	1000	N.D.	
ETHYLBENZENE	N.D.	1000	N.D.	
2-HEXANONE	N.D.	1000	N.D.	
METHYLENE CHLORIDE	130000	10000	N.D.	
METHYL ISOBUTYL KETONE	N.D.	1000	N.D.	
STYRENE	N.D.	1000	N.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	1000	N.D.	
TETRACHLOROETHENE	N.D.	1000	N.D.	
TOLUENE	60000	10000	N.D.	113
1,1,1-TRICHLOROETHANE	N.D.	1000	N.D.	
1,1,2-TRICHLOROETHANE	N.D.	1000	N.D.	
TRICHLOROETHENE	N.D.	1000	N.D.	BO
TRICHLOROFLUOROMETHANE	N.D.	1000	N.D.	
VINYL ACETATE	N.D.	1000	N.D.	
VINYL CHLORIDE	N.D.	1000	N.D.	
TOTAL XYLEU	N.D.	1000	N.D.	

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Chemist

Ali Kharrazi
Ali Kharrazi
Organic Manager

CHROMALAB, INC.

Environmental Services (SOB)

October 16, 1995 *submission#:* 9510202

DECON ENV. SERVICES, INC.

Atten: Ola Balogun

Project: CALTRANS CYPRESS B *Project#:* 04-192214
Received: October 15, 1995

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis.
Method: EPA 3550/8270

S,;i.mpleID: #1
Sample#: 106588 *Matrix:* SOIL *Extracted:* October 16, 199'
Sampled: October 15, 1995 *Run:* 8914-A *Analyzed:* October 16, 1991

Analyte	RESULT {mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (\)
PHENOL	N.D.	a.so	N.D.	
BIS(2-CHLOROETHYL)ETHER	N:D:	a:so	N.D:	
2-CHLOROPHENOL	N.D.	a.so	N.D.	79
1,3-DICHLOROBENZENE	N.D.	0.50	N.D.	
1,4-DICHLOROBENZENE	N.D.	0.50	N.D.	
BENZYL ALCOHOL	N.D.	1.00	N.D.	
1,2-DICHLOROBENZENE	N.D.	0.50	N.D.	
2-METHYLPHENOL	N.D.	0.50	N.D.	
BIS(2-CHLOROISOPROPYL)ETHER	N.D.	0.50	N.D.	
4-METHYLPHENOL	*N:D.*	1.00	N.D.	
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.50	N.D.	58
HEXACHLOROETHANE	N.D.	0.50	N.D.	
NITROBENZENE	N.D.	0.50	N.D.	
ISOPHORONE	N.D.	0.50	N.D.	
2-NITROPHENOL	N.D.	0.50	N.D.	
2,4-DIMETHYLPHENOL	N.D.	0.50	N.D.	
BIS(2-CHLOROETHOXY)METHANE	N.D.	0.50	N.D.	
2,4-DICHLOROPHENOL	N.D.	0.50	N.D.	
1,2,4-TRICHLOROBENZENE	N.D.	0.50	N.D.	41
NAPHTHALENE	N.D.	0.50	N.D.	
4-CHLOROANILINE	N.D.	1.00	N.D.	
HEXACHLOROBUTADIENE	N.D.	0.50	N.D.	
4-CHLORO-3-METHYLPHENOL	N.D.	1.00	N.D.	31
2-METHYLNAPHTHALENE	N.D.	0.50	N.D.	
HEXACHLOROCYCLOPENTADIENE	N.D.	a.so	N.D.	
2,4,6-TRICHLOROPHENOL	N.D.	0.50	N.D.	
2,4,5-TRICHLOROPHENOL	N.D.	0.50	N.D.	
2-CHLORONAPHTHALENE	N.D.	2.50	N.D.	
2-NITROANILINE	N.D.	0.50	N.D.	
DIMETHYL PHTHALATE	N.D.	2.50	N.D.	
ACENAPHTHYLENE	N.D.	0.50	N.D.	
3-NITROANILINE	N.D.	2.50	N.D.	
ACENAPHTHENE	N.D.	0.50	N.D.	82
2,4-DINITROPHENOL	N.D.	2.50	N.D.	
4-NITROPHENOL	N.D.	2.50	N.D.	
DIBENZOFURAN	N.D.	0.50	N.D.	
2,4-DINITROTOLUENE	N.D.	0.50	N.D.	
2,6-DINITROTOLUENE	N.D.	1.00	N.D.	
DIETHYL PHTHALATE	N.D.	2.50	N.D.	

CHROMALAB, INC.

Environmental Services ($08)

October 16, 1995

Submission#: 9510202
page 2

DECON ENV. SERVICES, INC.

Atten: Ola Balogun
Project: CALTRANS CYPRESS B *Project#:* 04-192214
Received: October 15, 1995
re: One sample for Semivolatile organic compounds (B/NAs) analysis, continued.
Method: EPA 3550/8270
SampleID: **#1**
Sample#: 106588 *Matrix:* SOIL *Extracted:* October 16, 199
Sampled: October 15, 1995 *Run:* 8914-A *Analyzed:* October 16, 199

Analyte	**RESULT (mg/Kg)**	**REPORTING LIMIT (mg/Kg)**	**BLANK RESULT** (mg/Kg)	**BLANK SPIKE RESULT** (%)
4-CHLOROPHENYL PHENYL ETHER	N.D.	0.50	N.D.	
FLUORENE	N.D.	0.50	N.D.	
4-NITROANILINE	N.D.	2.50	N.D.	
4,6-DINITRO-2-METHYLPHENOL	N.D.	2.50	N.D.	
N-NITROSO-DI-N-PHENYLAMINE	N.D.	0.50	N.D.	
4-BROMOPHENYL PHENYL ETHER	N.D.	0.50	N.D.	
HEXACHLOROBENZENE	N.D.	0.50	N.D.	
PENTACHLOROPHENOL	N.D.	2.50	N.D.	
PHENATHRENE	N.D.	0.50	N.D.	
ANTHRACENE	N.D.	0.50	N.D.	
DI-N-BUTYL PHTHALATE	N.D.	2.50	N.D.	
FLUORANTHENE	1.3	0.50	N.D.	
PYRENE	1.3	0.50	N.D.	73
BUTYL BENZYL PHTHALATE	N.D.	2.50	N.D.	
3,3'-DICHLOROBENZIDINE	N.D.	1.00	N.D.	
BENZO(A)ANTHRACENE	0.69	0.50	N.D.	
BIS(2-ETHYLHEXYL)PHTHALATE	N.D.	2.50	N.D.	
CHRYSENE	1.0	0.50	N.D.	
DI-N-OCTYL PHTHALATE	N.D.	2.50	N.D.	
BENZO(B)FLUORANTHENE	0.63	0.50	N.D.	
BENZO(K)FLUORANTHENE	N.D.	1.00	N.D.	
BENZO(A)PYRENE	1.3	0.25	N.D.	
INDENO(1,2,3 C,D)PYRENE	1.2	1.00	N.D.	
DIBENZ(A,H)ANTHRACENE	N.D.	1.00	N.D.	
BENZ(G,H,I)PERYLENE	N.D.	1.00	N.D.	

Alex Tam
Chemist

Ali Khar'razi
Organic Manager

CHROMALAB, INC.

Env1,onmen1a1 SeMces (SOB)

October 16, 1995 *Submission#:* 9510202

DECON ENV. SERVICES, INC.

Atten: Ola Balogun

Project: CALTRANS CYPRESS B *Project#:* 04-192214
Received: October 15, 1995

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis.
Method: EPA 3550/8270

SampleID: #**2**
Sample#: 106589 *Matrix:* SOIL *Extracted:* October 16, 19'
Sampled: October 15, 1995 *Run:* 8914-A *Analyzed:* October 16, 19'

Analyte	RESULT (mg/Kg)	REPORTING LIMIT {mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIK! RESULT (%)
PHENOL	N.D.	0.50	N.D.	
BIS(2-CHLOROETHYL)ETHER	N.D.	0.50	N.D.	
2-CHLOROPHENOL	N.D.	0.50	N.D.	79
1,3-DICHLOROBENZENE	N.D.	0.50	N.D.	
1,4-DICHLOROBENZENE	N.D.	0.50	N.D.	
BENZYL ALCOHOL	N.D.	1.00	N.D.	
1,2-DICHLOROBENZENE	N.D.	0.50	N.D.	
2-METHYLPHENOL	N.D.	0.50	N.D.	
BIS(2-CHLOROISOPROPYL)ETHER	N.D.	0.50	N.D.	
4-METHYLPHENOL	N'.D.	1.00	N.D.	
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.50	N.D.	58
HEXACHLOROETHANE	N.D.	0.50	N.D.	
NITROBENZENE	N.D.	0.50	N.D.	
ISOPHORONE	N.D.	0.50	N.D.	
2-NITROPHENOL	N.D.	0.50	N.D.	
2,4-DIMETHYLPHENOL	N.D.	0.50	N.D.	
BIS(2-CHLOROETHOXY)METHANE	N.D.	0.50	N.D.	
2,4-DICHLOROPHENOL	N.D.	0.50	N.D.	
1,2,4-TRICHLOROBENZENE	N.D.	0.50	N.D.	41
NAPHTHALENE	N.D.	0.50	N.D.	
4-CHLOROANILINE	N.D.	1.00	N.D.	
HEXACHLOROBUTADIENE	N.D.	0.50	N.D.	
4-CHLORO-3-METHYLPHENOL	N.D.	1.00	N.D.	31
2-METHYLNAPHTHALENE	N.D.	0.50	N.D.	
HEXACHLOROCYCLOPENTADIENE	N.D.	0.50	N.D.	
2,4,6-TRICHLOROPHENOL	N.D.	0.50	N.D.	
2,4,5-TRICHLOROPHENOL	N.D.	0.50	N.D.	
2-CHLORONAPHTHALENE	N.D.	2.50	N.D.	
2-NITROANILINE	N.D.	0.50	N.D.	
DIMETHYL PHTHALATE	N.D.	2.50	N.D.	
ACENAPHTHYLENE	N.D.	0.50	N.D.	
3-NITROANILINE	N.D.	2.50	N.D.	
ACENAPHTHENE	N.D.	0.50	N.D.	82
2,4-DINITROPHENOL	N.D.	2.50	N.D.	
4-NITROPHENOL	N.D.	2.50	N.D.	
DIBENZOFURAN	N.D.	0.50	N.D.	
2,4-DINITROTOLUENE	N.D.	0.50	N.D.	
2,6-DINITROTOLUENE	N.D.	1.00	N.D.	
DIETHYL PHTHALATE	N.D.	2.50	N.D.	

October 16, 1995

Submission#: 9510202
page 2

DECON ENV. SERVICES, INC.

Atten: Ola Balogun
Project: CALTRANS CYPRESS B *Project#:* 04-192214
Received: October 15, 1995
re: One sample for Semivolatile Organic Compounds (B/NAs) analysis, continued.
Method: EPA 3550/8270
SampleID: #2
Sample #: 106589 *Matrix:* SOIL *Extracted:* October 16, 199'
sampled: October 15, 1995 *Run:* 8914-A *Analyzed:* October 16, 199'

	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
-CHLORO LUORI OPHENYL PHENYL ETHER	N.D.	0.50	N.D.	
FLUORENE	N.D.	0.50	N.D.	
4-NITROANILINE	N.D.	2.50	N.D.	
4,6-DINITRO-2-METHYLPHENOL	N.D.	2.50	N.D.	
N-NITROSO-DI-N-PHENYLAMINE	N.D.	0.50	N.D.	
4-BROMOPHENYL PHENYL ETHER	N.D.	0.50	N.D.	
HEXACHLOROBENZENE	N.D.	0.50	N.D.	
PENTACHLOROPHENOL	N.D.	2.50	N.D.	
PHENATHRENE	N.D.	0.50	N.D.	
ANTHRACENE	N.D.	0.50	N.D.	
DI-N-BUTYL PHTHALATE	N.D.	2.50	N.D.	
FLUORANTHENE	N.b.	0.50	N.D.	
PYRENE	N.D.	0.50	N.D.	73
BUTYL BENZYL PHTHALATE	N.D.	2.50	N.D.	
3,3'-DICHLOROBENZIDINE	N.D.	1.00	N.D.	
BENZO(A)ANTHRACENE	N.D.	0.50	N.D.	
BIS(2-ETHYLHEXYL)PHTHALATE	N.D.	2.50	N.D.	
CHRYSENE	N.D.	0.50	N.D.	
DI-N-OCTYL PHTHALATE	N.D.	2.50	N.D.	
BENZO(B)FLUORANTHENE	N.D.	0.50	N.D.	
BENZO(K)FLUORANTHENE	N.D.	1.00	N.D.	
BENZO(A)PYRENE	N.D.	0.25	N.D.	
INDENO(l,2,3 C,D)PYRENE	N.D.	1.00	N.D.	
DIBENZ(A,H)ANTHRACENE	N.D.	1.00	N.D.	
BENZ(G,H,I)PERYLENE	N.D.	1.00	N.D.	

lex Tam
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A{i K rt,azi
Organic Manager

CHROMALAB, INC.
Environmental Services (SOB)

October 16, 1995 *Submission#:* 9510202

DECON ENV. SERVICES, INC.

Atten: Ola Balogun
Project: CALTRANS CYPRESS B *Project#:* 04-192214
Received: October 15, 1995
re: One sample for Semivolatiles (Base/Neutral/Acid Extractable) analysis.
Method: EPA 3510/8270
SampleID: #3
Sample #: 106590 *Matrix:* LIQUID *Extracted:* October 16, 199
Sampled: October 15, 1995 *Run:* 8912-A *Analyzed:* October 16, 199

Analyte	RESULT (ug/L)	REPORTING LIMIT (ug/Ll	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
PHENOL	10000	20	N.D.	
BIS(2-CHLOROETHYL)ETHER	N.D.	20	N.D.	
2-CHLOROPHENOL	N.D.	20	N.D.	28
1,3-DICHLOROBENZENE	N.D.	20	N.D.	
1,4-DICHLOROBENZENE	270	20	N.D.	
BENZYL ALCOHOL	180	SO	N.D.	
1,2-DICHLOROBENZENE	750	20	N.D.	
2-METHYLPHENOL	17000	20	N.D.	
BIS(2-CHLOROISOPROPYL)ETHER	N.D.	20	N.D.	
4-METHYLPHENOL	23000	20	N.D.	
N-NITROSO-DI-N-PROPYLAMINE	N.D.	20	N.D.	52
HEXACHLOROETHANE	N.D.	20	N.D.	
NITROBENZENE	N.D.	20	N.D.	
ISOPHORONE	N.D.	20	N.D.	
2-NITROPHENOL	N.D.	20	N.D.	
2,4-DIMETHYL PHENOL	3700	20	N.D.	
BIS(2-CHLOROETHOXY)METHANE	N.D.	SO	N.D.	
2,4-DICHLOROPHENOL	N.D.	20	N.D.	
1,2,4-TRICHLOROBENZENE	N.D.	20	N.D.	52
NAPHTHALENE	N.D.	20	N.D.	
4-CHLOROANILINE	N.D.	50	N.D.	
HEXACHLOROBUTADIENE	N.D.	20	N.D.	
4-CHLORO-3-METHYLPHENOL	N.D.	40	N.D.	55
2-METHYLNAPHTHALENE	N.D.	20	N.D.	
HEXACHLOROCYCLOPENTADIENE	N.D.	20	N.D.	
2,4,6-TRICHLOROPHENOL	N.D.	20	N.D.	
2,4,5-TRICHLOROPHENOL	N.D.	20	N.D.	
2-CHLORONAPHTHALENE	N.D.	20	N.D.	
2-NITROANILINE	N.D.	20	N.D.	
DIMETHYL PHTHALATE	N.D.	20	N.D.	
ACENAPHTHYLENE	N.D.	20	N.D.	
3-NITROANILINE	N.D.	20	N.D.	
ACENAPHTHENE	N.D.	20	N.D.	58
2,4-DINITROPHENOL	N.D.	100	N.D.	
4-NITROPHENOL	N.D.	100	N.D.	
DIBENZOFURAN	N.D.	20	N.D.	
2,4-DINITROTOLUENE	N.D.	20	N.D.	
2,6-DINITROTOLUENE	N.D.	SO	N.D.	
DIETHYL PHTHALATE	N.D.	20	N.D.	
4-CHLOROPHENYLPHENYLETHER	N.D.	20	N.D.	
FLUORENE	N.D.	50	N.D.	

CHROMALAB, INC.

Environmental Services (S08)

October 16, 1995

Submission#: 9510202
page 2

DECON ENV. SERVICES, INC.

Atten: Ola Balogun
Project: CALTRANS CYPRESS B *Project#:* 04-192214
Received: October 15, 1995
re: One sample for Semivolatiles (Base/Neutral/Acid Extractable) analysis, continued.
Method: EPA 3510/8270
SampleID: #3
Sample #: 106590 *Matrix:* LIQUID *Extracted:* October 16, 199
Sampled: October 15, 1995 *Run:* 8912-A *Analyzed:* October 16, 199

Analyte	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (\)
4-NITROANILINE	N.D.	20	N.D.	
4,6-DINITRO-2-METHYLPHENOL	N.D.	100	N.D.	
N-NITROSODI-N-PHENYLAMINE	N.D.	20	N.D.	
4-BROMOPHENYLPHENYLETHER	N.D.	50	N.D.	
HEXACHLOROBENZENE	N.D.	20	N.D.	
PENTACHLOROPHENOL	N.D.	100	N.D.	17
PHENANTHRENE	N.D.	20	N.D.	
ANTHRACENE	N.D.	20	N.D.	--
DI-N-BUTYL PHTHALATE	N.D.	50	N.D.	I
FLUORANTHENE	N.D.	20	N.D.	--
PYRENE	N.D.	20	N.D.	63
BUTYL BENZYL PHTHALATE	N.D.	20	N.D.	
3,3'-DICHLOROBENZIDINE	N.D.	50	N.D.	
BENZO(A)ANTHRACENE	N.D.	20	N.D.	
BIS(2-ETHYLHEXYL)PHTHALATE	N.D.	20	N.D.	
CHRYSENE	N.D.	20	N.D.	
DI-N-OCTYLPHTHALATE	N.D.	50	N.D.	
BENZO(B)FLUORANTHENE	N.D.	20	N.D.	
BENZO(K)FLUORANTHENE	N.D.	20	N.D.	
BENZO(A)PYRENE	N.D.	20	N.D.	
INDENO(1,2,3-CD)PYRENE	N.D.	20	N.D.	
DIBENZO(A,H)ANTHRACENE	N.D.	20	N.D.	
BENZ(GHI)PERYLENE	N.D.	20	N.D.	
BENZOIC ACID	N.D.	20	N.D.	

Chemist

Ali Khau±azi
Organic Manager

CHROMALAB, INC.
Environmental Services (SOB)

tober 16, 1995 *Submission#:* 9510202

-CON ENV. SERVICES, INC.

Atten: Ola Balogun

Project: CALTRANS CYPRESS B *Project#:* 04-192214
Received: October 15, 1995

re: One sample for CAM 17 Metals analysis.
Method: EPA 3050A M/6010/7471

SampleID: #1
Sample#: 106588 *Matrix:* SOIL *Extracted:* October 16, 1995
Sampled: October 15, 1995 *Run:* 8906-C *Analyzed:* October 16, 1995

Analyte	RESULT {mg{Kgl	REPORTING LIMIT Cmg{Kgl	BLANK RESULT Cmg{Kgl	BLANK SPIKE RESULT C%l
ANTIMONY	10	2.0	N.D.	85
ARSENIC	6.1	1.0	N.D.	80
BARIUM	87	1.0	N.O.	84
BERYLLIUM	N.O.	0.5	N.O.	87
CADMIUM	1.4	0.5	N.D.	82
CHROMIUM	21	1.0	N.O.	85
COBALT	N.D.	1.0	N.D.	84
COPPER	25	1.0	N.D.	94
LEAD	770	1.0	N.O.	85
LYBDENUM	N.O.	1.0	N.D.	86
CKEL	13	1.0	N.D.	84
LENIUM	2.4	2.0	N.D.	86
LVER	N.D.	1.0	N.O.	87
THALLIUM	N.D.	2.0	N.D.	80
VANADIUM	15	1.0	N.O.	88
ZINC	130			
MERCURY	0.11			

4

Charles Woolley
Chemist

su:ervieor

CHROMALAB, INC.

Environmental Services (SOB}

October 16, 1995 *Submission#:* 9510202

DECON ENV. SERVICES, INC.

Atten: Ola Balogun

Project: CALTRANS CYPRESS B *Project#:* 04-192214
Received: October 15, 1995

re: One sample for CAM 17 Metals analysis.
Method: EPA 3050A M/6010/7471

SampleID: **#2**
sample#: 106589 *Matrix:* SOIL *Extracted:* October 16, 1995
sampled: October 15, 1995 *Run:* 8906-C *Analyzed:* October 16, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (Ing/Kg>	BLANK RESULT <mg/Kg>	BLANK SPIKE RESULT <%>
ANTIMONY	N.D.	2.0	N.D.	85
ARSENIC	2.1	1.0	N.D.	80
BARIUM	61	1.0	N.D.	84
BERYLLIUM	N.D.	0.5	N.D.	87
CADMIUM	1.1	0.5	N.D.	82
CHROMIUM	19	1.0	N.D.	85
COBALT	N.D.			8 -
COPPER	23	1.0	N.D.	9 4
LEAD	480	1.0	N.D.	85
MOLYBDENUM	N.D.	1.0	N.D.	86
NICKEL	14	1.0	N.D.	84
SELENIUM	N.D.	2.0	N.D.	86
SILVER	N.D.	1.0	N.D.	87
THALLIUM	N.D.	2.0	N.D.	80
VANADIUM	15	1.0	N.D.	88
ZINC	150	1.0	N.D.	81
MERCURY	0.07			

Charles Woolley
Chemist

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CHROMALAB, INC.

Environmenlal Services (SOB}

October 16, 1995 *submission#:* 9510202

OECON ENV. SERVICES, INC.

Atten: Ola Balogun

Project: CALTRANS CYPRESS B *Project#:* 04-192214
Received: October 15, 1995

re: One sample for CAM 17 Metals analysis.
Method: EPA 3050A M/6010/7471

SampleID: **#3**
s mple #: 106590 *Matrix:* LIQUID *Extracted:* October 16, 199t
Sampled: October 15, 1995 *Run:* 8906-C *Analyzed:* October 16, 199t

Analyte	RESULT cmg roL	REPORTING LIMIT (mq/Kgl	BLANK RESULT Cmq/!Cql	BLANK SPIKE RESULT C%l
ANTIMONY	N. •	1.0	N.D.	85
ARSENIC	N.O.	0.25	N.O.	80
BARIUM	1.2	1.0	N.D.	84
BERYLLIUM	N.D.	0.5	N.D.	87
CADMIUM	N.D.	0.5	N.D.	82
CHROMIUM	N.D.	1.0	N.D.	85
COBALT	N.D.	1.0	N.D.	84
COPPER	N.D.	1.0	N.D.	94
LEAD	6.0	1.0	N.D.	85
MOLYBDENUM	N.D.	1.0	N.D.	86
NICKEL	N.·D.	1.0	N.D.	84
SELENIUM	N.D.	2.0	N.D.	86
SILVER	N.D.	1.0	N.D.	87
THALLIUM	N.D.	2.0	N.D.	80
VANADIUM	N.D.	1.0	N.D.	88
ZINC	48			
MERCURY	N.D.			

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Charles Woolley
Chemist

\ohn S.UV
norganic Supervisor

CHROMALAB, INC.

1220 Qua

Environmental Services (SOB) (OOHS 1094)

Chain of Custody

PAGE __ of __

PROJ MGR

COMPANY

ADDRESS

SAMPLERS (SIGNATURE)

(PHONE NO.)

(FAX NO.)

ANALYSIS REPORT

(5030, 8015)

(602, 8020)

TPH - Diesel, TEPH (EPA 3510/3550, 8015)

ORGANICS (8240, 524.2)

BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)

& GREASE B+F, E+F)

SAMPLE ID.	**DATE**	**TIME**	**MATRIX**	**PRESERV.**
SUST13-2S	10/24		Soil	
S 2W	10/24		Water	

RUSH

PROJECT NAME

Cypress

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1345

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CHROMALAB, INC.
Environmental Services (SDB)

October 25, 1995

Submission#: 9510335

OGISO

Atten: Harnid Mostaghi

Project: CYPRESS B, PHEONIX 800
Received: October 24, 1995

re: 7 samples for Oil and Grease analysis.
Method: STANDARD METHODS 5520 E&F

Sampled: October 24, 1995 *Matrix:* SOIL *Extracted:* October 24, 1995
Run: 9058-C *Analyzed:* October 25, 1995

Spl #	**Sample ID**	**OIL & GREASE (mg/Kg)**	**REPORTING LIMIT {mg/Kg}**	**BLANK RESULT (mg/Kg)**	**BLANK SPIKE RESULT (%)**
107629	SUST 13-2S	990	50	N.D.	87
107630	SOLV 1	130	50	N.D.	87
107631	SOLV 2	130	50	N.D.	87
107632	PILET 13-2N	58	50	N.D.	87
107633	PILET 13-2S	6B	50	N.D.	87
107634	PIT 13-2A	56	50	N.D.	87
107635	PIT 13-2B	N.D.	50	N.D.	87

t2
Extractions Supervisor

CAt·/IJ1--
Z,.li KhaUi
Organic Manager

CHROMALAB, INC.

Enwonmen1al Services (SDB)

October 25, 1995 *Submission#:* 9510335

OGISO

Atten: Hamid Mostaghi
Project: CYPRESS B, **PHEONIX** 800
Received: October 24, 1995
re: One sample for Volatile Organic Compounds analysis.
Method: **EPA** 8240/8260
sampleID: **SOLV** 1
Sample#: 107630 *Matrix:* SOIL
Sampled: October 24, 1995 *Run:* 9073-0 *Analyzed:* October 24, 1995

Analyte	RESULT (ug/!Cg)	REPORTING LIMIT lug/Kg}	BLANK RESULT <ug/Kg}	BLANK SPIKE RESULT !tl
ACETONE	89	10	N.D.	
BENZENE	N.D.	S.0	N.D,	102
BROMODICHLOROMETHANE	N.D.	5. 0	N.D.	
BROMOFORM	N.D.	5.0	N.D.	
BROMOMETHANE	N.D.	5. o	N.D.	
2-BUTANONE	N.D.	5.0	N.D.	
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	
CHLOROBENZENE	N.D.	5.0	N.D.	96
CHLOROETHANE	N.D.	5.0	N.D.	
-CHLOROETHYLVINYLETHER	N.D.	5.0	N.D.	
HLOROFORM	N.D.	5.0	N,D.	
-CHLOROMETHANE	N.D.·	5.0	N,D.	
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	
l,2.-DICHLOROETHANE	N.D.	5.0	N.D.	
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	123
1,2-DICHLOROETHENE (CIS)	N.D.	5.0	N.D.	
1,2-DICHLOROETHENE (TRANS)	N.D,	5.0	N.D,	
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	
l,3-DICHLOROPROPENE (CIS)	N.D.	5.0	N.D.	
1,3-DICHLOROPROPENE (TRANS)	N.D.	5.0	N.D.	
ETHYL BENZENE	16	5.0	N.D.	
2-HEXANONE	N-D.	5.0	N.D.	
METHYLENE CHLORIDE	120	5.0	N.D.	
4-METHYL-2-PENTANONE	N.D.	5.0	N.D.	
STYRENE	N.D.	5.0	N.D.	
1,1,2,2-TETRACHLOROETHANE	N_D_	5.0	N.D.	
TETRACHLOROETHENE	N.D.	5.0	N.D.	
,TOLUENE	49	5.0	N.D.	92
l,l.l-TRICHLOROETHANE	N.D.	5.0	N.D.	
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	
TRICHLOROETHENE	N.D.	5.0	N.D.	91
TRICHLOROFLUOROMETHANE	N.D.	5.0	N,D,	
VINYL ACETATE	N.D.	5.0	N.D.	
VINYL CHLORIDE	N.D.	5. 0	N.D.	
TOTAL XYLENES	22	5.0	N.O.	

1_eg Nemtsov

Ali Kh i
Organic Manager

CHROMALAB, INC.

Env1ronmenlffl Services (SOB}

October 25, 1995

Submission#: 9510335

OGISO

Atten: Hamid Mostaghi
Project: CYPRESS B, PHEONIX 800
Received: October 24, 1995
I"e: Onesample for Volatile Organic Compounds analysis.
Method: EPA 8240/8260
SampleID: **SOLV 2**
sample #: 107631 *Mati·ix:* SOIL
Sampled, October 24, 1995 *Run:* 9073-0 *Analyzed:* October 24, 1995

Analyt..	**RESULT** (ug/Kg)	**REPORTING LIMl:T** < z/Kq}	**BLANK RESULT** lug/Kg>	**BLANK SPIKE RESULT** ('ls}
ACETONE	41		N.D.	
BENZENE	N.D.	S.O	N.D.	102
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	
BROMOFORM	N.D.	5.0	N.D.	
BROMOMETHANE	N.D.	5.0	N.D.	
2-BUTANONE	N.D.	5.0	N.D.	
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	
CHLOROBENZENE	N.D.	S.O	N.D.	96
CHLOROETH.ANE	N.D.	5.0	N.D.	
2-CHLOROETHYLVINYLETHER	N.D.	5.0	N.D.	
CHLOROFORM	N.D.	5.0	N.D.	
CHLOROMETHANE	N.D.	5.0	N.D.	
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	
1,1-DICHLOROETHANE	N.D.	5,0	N,D.	
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	123
1,2-DICHLOROETHBNE (CIS)	N.D.	5.0	N.D.	
1,2-DICHLOROETHENE (TRANS)	N.D.	5.0	N.D.	
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	
1,3-DICHLOROPROPENE (CIS)	N.D.	5.0	N.D.	
1,3-DICHLOROPROPENE (TRANS)	N.D.	5.0	N.D.	
ETHYL BENZENE	79	5.0	N.D.	
2-HEXA.NONE	N.D.	5.0	N.D.	
METHYLENE CHLORIDE	110	5.0	N.D.	
4-METHYL-2-PENTANONE	N.D.	S.O	N.D.	
STYRENE	N.D.	5.0	N.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	
TETRACHLOROETHENE	N.D.	5.0	N.D.	
toLUENE	40	5,0	N.D.	92
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	
1,1,2-TRICHLOROETHANE	N.D.	S.O	N.D.	
TRICHLOROETHENE	N.D.	S.O	N,D,	91
TRICHLOROFLUOROMETHANE	N.D.	S.O	N.D,	
VINYL ACETATE	N.D.	5.0	N.D.	
VINYL CHLORIDE	N.D.	5.0	N.D.	
	110	5:0	N:D:	

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{,1J-j!/./J--
Ali Kha:&a';i
Organic Manager

CHROMALAB, INC.

- --- ;:En:::v::i,o:n·mental $&1V1 & (SOB)

October 25, 1995 *Submission#:* 9510335

OGISO

Atten: Hamid Mostaghi

Project: CYPRESS B, PHEONIX BOO
Received, October 24, 1995

re: One sample for semivolatile Organic Compounds (B/NAs) analysis.
Method: EPA 3550/8270

SampleID: **SOLV** 1
Sample#: 107630 *Matrix:* SOIL *Extracted:* October 24, 1995
Sampled: October **24**, 1995 *Run,* 9054-A *Analyzed:* October 25, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (Ing/Kg}	BLANK RESULT {mg/Kgl	BLANK $PIKE RESULT <ti
PHENOL	N.D.	1.0	N.D.	
BIS(2-CHLOROETHYL)ETHER	N.D.	1.0	N.D.	
2-CHLOROPHENOL	N.D.	1.0	N.D.	67
1,3-DICHLOROBENZENE	N.D.	1.0	N.D.	
1,4-DICHLOROBENZENE	N.D.	1.0	N.D.	
BENZYL ALCOHOL	N.D.	2.0	N.D.	
1,2-DICHLOROBENZENE	N.D.	1.0	N.D.	
2-METHYLPHENOL	N.D.	1.0	N.D.	
BIS(2-CHLOROISOPROPYL)ETHER	N.EI.	1.0	N.D.	
4-METHYLPHENOL	N.D.	2.0	N.D.	
N-NITROSO-DI-N-PROPYLAMINE	N.D.	1.0	N.D.	66
HEXACHLOROETHANE	N.D.	1.0	N.D.	
NITROBENZENE	N.D.	1.O	N.D.	
ISOPHORONE	N.D.	1.0	N.D.	
2-NITROPHENOL	N.D.	1.0	N.D.	
2,4-DIMETHYLPHENOL	N.D.	1.0	N.D.	
BIS(2-CHLOROETHOXY)METHANE	N.D.	1.0	N.D.	
2,4-DICHLOROPHENOL	N.D.	1.0	N.D.	
1,2,4-TRICHLOROBENZENE	N.D.	1.0	N.D.	13
NAPHTHALENE	N.D.	1.0	N.D.	
4.-CHLOROANILINE	N.D.	2.0	N.D.	
HEXACHLOROBUTADIENE	N.D.	1.0	N.D.	
4-CHLOR0-3·METHYLPHENOL	N.D.	2.0	N.D.	74
2-METHYLNAPHTHALENE	N.D.	1.0	N.D.	
HEXACHLOROCYCLOPENTADIENE	N.D.	1.0	N.D.	
2,4,6·TRICHLOROPHENOL	N.D.	1.0	N.D.	
2,4,5-TRICHLOROPHENOL	N.D.	1.0	N.D.	
2-CHLORONAPHTHALENE	N.D.	5.0	N.D.	
2-NITROANILINE	N.D.	1.0	N.D.	
DIMETHYL PHTHALATE	N,D.	5.0	N.D.	
ACENAPHTHYLENE	N.D.	1.0	N.D.	
3-NITROANILINE	N.D.	5.0	N.D.	
ACENAPHTHENE	N.D.	1.0	N.D.	70
2,4-DINITROPHENOL	N.D.	5.0	N.D.	
4-NITROPHENOL	N.D.	5.0	N.D.	
DIBENZOFURAN	N.D.	1.0	N.D.	
2,4-DINITROTOLUENE	N.D.	1.0	N.D.	
2,6-DINITROTOLUENE	N.D.	2.0	N.D.	
DIETHYL PHTHALATE	N.D.	5.0	N.D.	

-4lcHROMALAB, INC.
.. -- ;;;:En:::vl;::,o:::nrnental Services ($DB)

October 25, 1995

Submission#: 9510335
page 2

OGISO

At ten.: Hamid Mostaghi
Project, CYPRESS B, PHEONIX 800
Received: October 24, 1995
re: One sample for Semivolatile Organic Compounds (B/NAs) analysis, continued.
Method: EPA 3550/8270
SampleID: SOLV 1
Sample#: 107630 *Matrix:* SOIL *Extracted:* October 24, 1995
Sampled: October 24, 1995 *Run:* 9054-A *Analyzed:* October 25, 1995

Analyte	RESULT (11175Kg)	REPORTING LIMIT {mg/Kg)	BLANK RESULT <1A4f:iKg)	BLANK SPIKE RESULT (%l
4-CHLOROPHENYL PHENYL ETHER	N. .	1.0	N..	
FLUORENE	N.D.	1.0	N,D.	
4-NITROANILINE	N.D.	S.O	N.D.	
4,6-DINITRO-2-METHYLPHENOL	N.D.	5.0	N.D.	
N-NITROSO-DI-N-PHENYLAMINE	N.O.	1.0	N.D.	
,A·-BROMOPHENYL PHENYL ETHER	N.D.	1.0	N.D.	
- 3XACHLOROBENZENE	N.D.	1.0	N.D.	
ENTACHLOROPHENOL	N.O.-	5.0	N.D.	77
PHENATHRENE	N.D.	1.0	N.D.	
ANTHRACENE	N.D.	1.0	N.D.	
DI-N-BUTYL PHTHALATE	N.D.	5.0	N.D.	
FLUORANTHENE	N.D.	1.0	N.D.	
PYRENE	N.D.	1.0	N.D.	82
BUTYL BENZYL PHTHALATE	N.O.	5.0	N.D.	
3,3'-DICHLOROBENZIDINE	N.D.	2.0	N.D.	
BENZO(A)ANTHRACENE	N.D.	1.0	N.D.	
BIS(2-ETHYLHEXYL)PHTHALATE	N.D.	5.0	N.D.	
CHRYSENE	N.D.	1.0	N.D.	
DI-N-OCTYL PHTHALATE	N.D.	5.0	N.D.	
BENZO(B)FLUORANTHENE	N.D.	1.0	N.D.	
BENZO(K)FLUORANTHENE	N.D.	2.0	N.D.	
BENZO(A)PYRENE	N.D.	1.0	N.D.	
INDENO(l,2,3 C,D)PYRENE	N.D.	2.0	N.D.	
DIBENZ(A,H)ANTHRACENE	N,D.	2.0	N.D.	
BENZ(G,H,I)PERYLENE	N.D.	2.0	N.D.	

For above sample: *REPORTING LIMITS RAISED DUE TO J:dllTRIX INTERFERENCE*

Alex Tam
Chemist

Ali Kha i
Organic Manager

CHROMALAB, INC.

Environmental Services (SOB)

October 25, 1995 *Submission#:* 9510335

OGISO

Atten: Hamid Mostaghi

Project: CYPRESS B, PHEONIX 800
Received: October 24, 1995

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis.
Method: EPA 3550/8270

SampleID: **SOLV 2**
Sample#: 107631 *Matrix:* SOIL *Extracted:* October 24, 1995
Sampled: October 24, 1995 *Run:* 9054-A *Analyzed:* October 25, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
PHENOL	N.D.	1.0	N.D.	
BIS(2-CHLOROETHYL)ETHER	N.D.	1.0	N.D.	
2-CHLCJROPHENOL	N.D.	1.0	N.D.	67
1,3-DICHLOROBENZENE	N.D.	1.0	N.D.	
1,4-DICHLOROBENZENE	N.D.	1.0	N.D.	
BENZYL ALCOHOL	N.D.	2.0	N.D.	
1,2-DICHI.,OROBENZENE	N.D.	1.0	N.D.	
2-METHYLPHENOL	N.D.	1.0	N.D.	
BIS(2-CHLOROISOPROPYL)ETHER	N.D.	1.0	N.D.	
4-METHYLPHENOL	N.D·.	2.0	N.D.	
N-NITROSO-DI-N-PROPYLAMINE	N.D.	1.0	N.D.	66
HEXACHLOROETHANE	N.D.	1.0	N.D.	
NITROBENZENE	N.D.	1.0	N.D.	
ISOPHORONE	N.D.	1.0	N.D.	
2-NITROPHENOL	N.D.	1.0	N.D.	
2,4-DIMETHYLPHENOL	N.D.	1.0	N.D.	
BIS(2-CHLOROETHOXY)METHANE	N.D.	1.0	N.D.	
2,4-DICHLOROPHENOL	N.D.	1.0	N.D.	
1,2,4-TRICHLOROBENZENE	N.D.	1.0	N.D.	73
NAPHTHALENE	4.4	1.0	N.D.	
4-CHLOROANILINE	N.D.	2.0	N.D.	
HEXACHLOROBUTADIENE	N.D.	1.0	N.D.	
4-CHLOR0-3-METHYLPHENOL	4.1	2.0	N.D.	74
2-METHYLNAPHTHALENE	N.D.	1.0	N.D.	
HEXACHLOROCYCLOPENTADIENE	N.D.	1.0	N.D.	
2,4,6-TRICHLOROPHENOL	N.D.	1.0	N.D.	
2,4,5-TRICHLOROPHENOL	N.D.	1.0	N.D.	
2-CHLORONAPHTHALENE	N.D.	5.0	N.D.	
2-NITROANILINE	N.D.	1.0	N.D.	
DIMETHYL PHTHALATE	N.D.	5.0	N.D.	
ACENAPHTHYLENE	N.D.	1.0	N.D.	
3-NITROANILINE	N.D.	5.0	N.D.	
ACENAPHTHENE	4.4	1.0	N.D.	70
2,4-DINITROPHENOL	N.D.	5.0	N.D.	
4-NITROPHENOL	N.D.	5.0	N.D.	
DIBENZOFURAN	3.2	1.0	N.D.	
2,4-DINITROTOLUENE	N.D.	1.0	N.D.	
2,6-DINITROTOLUENE	N.D.	2.0	N.D.	
ryIETHYL PHTHALATE	N.D.	5.0	N.D.	

CHROMALAB, INC.

------------ -.::En::::vi-:_:,o:nmenla1 Service, (SOB)

October 25, 1995

submission#: 9510335
page 2

OGISO

At ten: Hamid Mostaghi
Project: CYPRESS B, PHEONIX 800
Received: October 24, 1995
re: One sample for Semivolatile Organic Compounds (B/NAs) analysis, continued.
Method: EPA 3550/8270
SampleID: **SOI,V 2**
Sample#: 107631 *Matrix:* SOIL Extracted, October 24, 1995
Sampled: October 24, 1995 *Run:* 9054-A *Analyzed:* October 25, 199S

Analyte	RESULT (mg/Kgl	REPORTrNG LIMIT (mg/Kg)	BLANK :a!::SULT (mg/Kg)	BLANK PIXE REStn,T C's}
4-CHLOROPHENYL PHENYL ETHER	N.D.	1.0	N.D.	
FLUORENE	3.0	1.0	N.D.	
4-NITROANILINE	N.D.	5.0	N.D.	
4,6-DINITR0-2-METHYLPHENOL	N.D.	5.0	N.D.	
N-NITROSO-DI-N-PHENYLAMINE	N.D.	1,0	N.D.	
4-BROMOPHENYL PHENYL ETHER	N.D.	1.0	N.D,	
HEXACHLOROBENZENE	N.D.	1.0	N.D.	
PENTACHLOROPHENOL	N.D.	5.0	N.D.	
PHENATRRENE	10	1.0	N.D.	
ANTHRACENE	1.5	1.0	N.D.	
DI-N-BUTYL PHTHALATE	N.D.	5.0	N.D.	
FLUORANTHENE	6.2	1.0	N.D.	
PYRENE	4.8	1.0	N.D.	62
BUTYL BENZYL PHTHALATE	N.D.	5.0	N.D.	
3,3'-DICHLOROBENZIDINE	N.D.	2,0	N.D.	
BENZO(A)ANTHRACENE	N.D.	1.0	N.D.	
BIS(2-ETHYLHEXYL)PHTHALATE	N.D.	5.0	N.D.	
CHRYSENE	N.D.	1.0	N.D.	
DI-N-OCTYL PHTHALATE	N.D.	5.0	N.D.	
BENZO(B)FLUORANTHENE	N.D.	1.0	N,D,	
BENZO(K)FLUORANTHENE	N.D.	2.0	N.D.	
BENZO(A)PYRENE	N.D.	1.0	N.D.	
INDENO(l,2,3 C,D)PYRENE	N.D.	2.0	N.D.	
DIBENZ(A,H1ANTHRACENE	N.D.	2.0	N.D.	
BENZ(G,H,!)PERYLENE	N.D.	2.0	N.D.	

For *above sample:* *REPORTING LINITS RAISED DUE TO MATRIX INTERFERENCE*

Alex Tam
Chemist

Ar:!t
Organic Manager

CHROMA~~LAB, INC.~~

----------E n=vi=ronmental **Services (SOB)**

October 25, 1995 *Submission#:* 9510335

OGISO

Atten: Hamid Mostaghi

Project: CYPRESS B, PHEONIX 800
Received: October 24, 1995

re: One sample for CAM 17 Metals analysis.
Method: EPA 3050A M/6010/7471

SampleID: **SOLV 1**
Sample#: 107630 *Matrix:* SOIL *Extracted:* October 24, 1995
Sampled: October 24, 1995 *Run:* 9050-C *Analyzed:* October 25, 1995

Analyte	RESULT (mg/Kg)	**REPORTING LIMIT** (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
ANTIMONY	3.7	2.0	N.D.	100
ARSENIC	N.D.	1.0	N.D.	99
BARIUM	96	1.0	N.D.	98
BERYLLIUM	N.D.	0.5	N.D.	99
CADMIUM	N.D.	0.5	N.D.	99
CHROMIUM	23	1.0	N.D.	98
COBALT	N.D.	1.0	N.D.	98
COPPER	63	1.0	N.D.	98
LEAD	670	1.0	N.D.	98
MOLYBDENUM	N.D..	1.0	N.D.	100
NICKEL	15	1.0	N.D.	95
SELENIUM	N.D.	2.0	N.D.	98
SILVER	N.D.	1.0	N.D.	98
THALLIUM	N.D.	2.0	N.D.	100
VANADIUM	18 /	1.0	N.D.	100
ZINC	480	1.0	ND.	100
MERCURY	0.25	0.05	N	110

Chemist

a ash
irorganic Supervisor

CHROMALAB, INC.
Environmental Services (SOB)

October 25, 1995 *Submission#:* 9510335

OGISO

Atten: Hamid Mostaghi

Project: CYPRESS B, PHEONIX 800
Received: October 24, 1995

re: One sample for CAM 17 Metals analysis.
Method: EPA 3050A M/6010/7471

SampleID: **SOLV** 2
Sample#: 107631 *Matrix:* SOIL *Extracted:* October 24, 1995
Sampled: October 24, 1995 *Run:* 9050-C *Analyzed:* October 25, 1995

Analyte	**RESULT** (mg/Kg)	REPORTING LIMIT (mg/Kg)	**BLANK** RESULT (mg/Kg)	**BLANK** SPIKE RESULT (%)
ANTIMONY	N.D.	2.0	N.D.	100
ARSENIC	N.D.	1.0	N.D.	99
BARIUM	37	1.0	N.D.	98
BERYLLIUM	N.D.	0.5	N.D.	99
CADMIUM	N.D.	0.5	N.D.	99
CHROMIUM	21	1.0	N.D.	98
COBALT	N.D.	1.0	N.D.	98
COPPER	8.7	1.0	N.D.	98
LEAD	58	1.0	N.D.	98
MOLYBDENUM	N.D..	1.0	N.D.	100
NICKEL	15	1.0	N.D.	95
SELENIUM	N.D.	2.0	N.D.	98
SILVER	N.D.	1.0	N.D.	98
THALLIUM	N.D.	2.0	N.D.	100
VANADIUM	15	1.0	N.D.	100
ZINC	32			

Charles Woolley
Chemist

John
Inorganic Supervisor

,otsz.71 - 'I' f510'-/ll,, [redacted]

e;i ;J.tf667

CHROMALAB, INC.

1220 Quarry Lane • Pleasanton, Calttomla 94566-4756
510/484-1919 • Facsimile 510/484-1096

Environmental S_ervices (SOB) (OOHS 1094)

Chain of Custody

DATE --1E/..... PAGE _ or _I_

isus11i:#:' 9510416 'REP: MD
CLI£NTt OGISO
DU£ : 10/29/95
, .REF #:24667

PAOJ.MGR. / fu
COMPANY::: erdad
ADDRESS _/ 5o If Fr anf,' f,,,:. ?St:.
l'lauiinrl (''ft
(SltJ-)"/51-::, ..JPHONE NO.)
77 2 (FAX NO:)
SAMPLERS (SIGNATURE) Hamid Moshtaghi . (Sic) J./51-5773

ANALYSIS REPORT

[illegible]

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.
100 Gal. UST-Soil	10/28		Soil	
~~100 Gal. UST-liquid~~ liquid			~~liquid~~	
100 Gal. UST-Water	10/28		wo]µ,,,	

RUSH

PROJECT INFORMATION

PROJECT NAME: Cypress 'B' Phoenix 800
PROJECT NUMBER
P.0.1

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS	5
HEAD SPACE small bubble	in VOA
REC'D GOOD CONDITION/COLD	
CONFORMS TO RECORD	

TAT STANDARD 5-DAY 'Q!.2..1 '8 72 OTHER

SPECIAL INSTRUCTIONS/COMMENTS:
ue u .,J (\J O'C»\.

RELINQUISHED BY 1.
Hamid Moshtaghi
(SIGNATURE) (TIME) 12:00
Hamed Moshtaghi
(PRINTED NAME) (DATE) 10/28
HAMID MOSHTAGAI
(COMPANY)

RELINQUISHED BY 2.
(SIGNATURE) (TIME)
(PRINTED NAME) (DATE)
(COMPANY)

RELINQUISHED BY 3.
(SIGNATURE) (TIME)
(PRINTED NAME) (DATE)
(COMPANY)

RECEIVED BY 1.
(SIGNATURE) (TIME)
(PRINTED NAME) (DATE)
(COMPANY)

RECEIVED BY 2.
(SIGNATURE) (TIME)
(PRINTED NAME) (DATE)
(COMPANY)

RECEIVED BY (LABORATORY) 3
Gary Cook 12:00
(SIGNATURE) (TIME)
Gary Cook 10/28/95
(PRINTED NAME) (DATE)
Chromalab
(LAB)

CHROMALAB, INC.

A Environmental Services (SOB)

Woctober 28, 1995 · *Submission #:* 9510416

OGISO

Atten: Hamid Mashtoghi
Project: Cypress·"B" Phoenix 800
Received: October 28, 1995
··*re:* One :sample for Volatile Organic Compounds analysis.
. *Method:* .EPA·8240/8260
SampleID: ·.**-100 Gal UST-Water**
Sample#: 108278 *Matrix:* WATER
Sampled: October 28, .1995 · *Run:* 9130-A *Analyzed:* October 28, 1995

Analyte	**RESULT** {ug/L)	**REPORTING LJ:MIT** (ug/LI	**BLANK RESULT** (ug/LI	**BLANK SPIKE RESULT** {\)
ACETONE	83	40	N.D.	
BENZENE	61	20	. N.D.	108
BROMODICHLOROMETHANE	N.D.	20	.N.D.	
BROMOFORM ..	N.D.	20	. N.D.	
BROMOMETHANE .	N.D.	20	. N.D.	
METHYL'•ETHYL' KETONE	·62	20	N.D.	
CARBON TETRACHLORIDE	N.D.	20	N.D.	
CHLOROBENZENE	N.D.	20	N.D.	104
CHLOROETHANE	N.D.	20	.N.D.	
2-CHLOROETHYLVINYL ETHER	N.D.	20	N.D.	
"HLOROFORM	N.D.	20	N.D.	
- HLOROMETHANE	N.D.	20	.N.D.	
Wt5IBROMOCHLOROMETHANE	N.D.·	20	N.D.	
l,l-DICHLOROETHANE	N.D.	20	· 'N.D.	
l,2-DICHLOROETHANE	N.D.	20	. N.D.	
l,l-DICHLOROETHENE	N.D.	20	. N.D.	76
CIS-1,2-DICHLOROETHENE	N.D.	20	N.D.	
TRANS-1,2-DICHLOROETHENE	N.D.	20	N.D.	
l,2-DICHLOROPROPANE	N.D.	20	N.D.	
CIS-1,3-DICHLOROPROPENE	N.D.	20	N.D.	
TRANS-1,3-DICHLOROPROPENE	N.D.	20	N.D.	
ETHYLBENZENE	56	20	N.D.	
2-HEXANONE	N.D.	20	N.D.	
METHYLENE CHLORIDE	N.D.	20	N.D.	
METHYL ISOBUTYL KETONE	N.D.	·20	N.D.	
STYRENE·	29	20	. N.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	20	N.D.	
TETRACHLOROETHENE .	· N.D.	20·.	. N.D.	
TOLUENE .	48	20	N.D..	107
l,1,1-TRICHLOROETHANE	N.D.	20	N.D.	
l,1,2 TRICHLOROETHANE	N.D.	20	N.D.	
TRICHLOROETHENE .	N.D.	20	. N.D.	105
TRICHLOROFLUOROMETHANE	N.D.	20	N.D.	
VINYL ACETATE	N.D.	20	:N.D.	
VINYL CHLORIDE	N.D.	20	'N.D.	
TOTAL XYLENES	77	20	N.D;	

f-

Aaron McMichael

Aaron McMichael ..
:hemist

Ali "Kharr.;_ii .
·: .Organic Manager

-F

FAX-u1ffl sii.my Noon
SI0-45l-s773 10129

H:QC1002 ON 20;27;14

CHROMALAB, ·INC.

Envlronmenlal Services (SOB)

October 28, 1995 ·*Subm·ission #*: 9510416

OGISO

Atten: Hamid Mashtoghi
Project: Cypress··B• Phoenix BOO
Received: October 28, 1995
re: One sample:for Volatile Organic Compounds analysis.
. *Method:* EPA 8240/8260 ..;,
SampleID: **100 Gal UST-Soil**
Sample·#: 108277 .*Matrix:*.SOIL
Sampled: October 28,_1995 ·.· *Run:* 9130-A .·.:'*Analyzed:* October 28, 1995

Analyte	·RESULT (ug/Kg)	REPORTING LIMIT ·(ug/Kg)	BLANK RESULT (ug/Kg)	.BLANK SPIKE ·RESULT (%)
ACETONE	N.D.	10	N.D.	
BENZENE	N.D.	5.0	N.D.	108
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	
BROMOFORM	N.D.	5.0	N.D.	
BROMOMETHANE	N.D.	5.0	N.D.	
2-BUTANONE.	N.D.	5.0	N.D.	
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	
CHLOROBENZENE	N.D.	5.0	N.D.	104
CHLOROETHANE	N.D.	5.0	N.D.	
2-CHLOROETHYLVINYLETHER	N.D.	5.0	N.D.	
:HLOROFORM	N.D.	5.0	N.D.	
:HLOROMETHANE	N.D.	5.0	N.D.	
-DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	76
1,2-DICHLOROETHENE (CIS)	N.D.	5.0	N.D.	
1,2-DICHLOROETHENE (TRANS)	N.D.	5.0	N.D.	
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	
1,3-DICHLOROPROPENE (CIS)	N.D.	5.0	N.D.	
1,3-DICHLOROPROPENE (TRANS)	N.D.	5.0	N.D.	
ETHYL BENZENE	N.D.	5.0	N.D.	
2-HEXANONE	N.D.	5.0	N.D.	
METHYLENE CHLORIDE	N.D.	5.0	N.D.	
4-METHYL-2-PENTANONE	N.D.	5.0	N.D.	
STYRENE	N.D.	5.0	N.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	
TETRACHLOROETHENE	N.D.	5.0	N.D.	
TOLUENE	N.D.	5.0	N.D.	107
1,1,"l-TRICHLOROETHANE	N.D.	5.0	N.D.	
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROETHENE	N.D.	5.0	N.D.	105
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	
VINYL ACETATE	N.D.	5.0	N.D.	
VINYL CHLORIDE	N.D.	5.0	N.D.	
TOTAL .XYLENES	N.D.	5.0	N.D.	

Aaron McMichael
Aaron McMichael
Chemist

Ali Kharrazi
Organic Manager

FAX .Ul--5'773 »..:$inlay Noon
SIM51-S'77J10/29

_N:QCIOO'l_AAROJ>:ll.0'.%7;1-

APPENDIX C3:

STOCKPILE CHAIN-OF-CUSTODY AND LABORATORY ANALYTICAL REPORT

REMARKS

Sampler's Name

Sample Condition

Sample Container

Matrix

SAMPLE ID

Relinquished

Relinquished by:

Received by:

Date/Time

SPARG

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SpargerO
Techno 9gy
Inc.
With Automotion in Mind

Analytical Laboratory**tis**
Mobile Laboratory DMs
_ . Scientific DMs

Metal
EPA Method 6010

Attention;	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street, Suite 304 Oakland, CA 94612	Dale Sampled: Date Received: Date Requested: Oate Analyzed:	Oct 27, 1995 Oct 27, 1995 Nov 1. 1995 Nov. 2, 1995
Project#:		Project Name:	Cypress B Phoenix
Client ID:	T.DIESSTOC I	LABID:	ST95-10-307SA
Matrix:	Soil	Dilution:	

Name	Amount	Reporting Limit	Units
Lead (Pb)	1.2	,.O	mg/Kg

pPrn1r Oltt$ge, milllon • lflg,Kg • mili!)ra.n, *D9f* Kaograrn

IQ **Not {s}**me.,- tiePl'c!WM l#IColltraliGn, oe\o'lt *tl".a* datktiol'l limit

es, Principal Chemist

R. L.**James. Pr!nclpal Chemist**

Nov 3. 1995

Date Repo e<l

SPARGEA TECHr.01,,0GY' MALVTICAL '-'90fV.TORY, INC. Ii CEATPFJl:D 8YTME snTi!: OFCAUFORNl-4.

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Sparger Technology, Inc.
Vith Automation in Mind

Anolytlcal Laboratory DMsi
Mobile Laboratory DMsl
.. Scientific Divisi

Metal
EPA Method 6010

Attention;	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street, Suite 304 Oakland, CA 94612	Date Sampled; Date Received: Date Requested: Date Analyzed:	Oct 27, 1995 Oct 27, 1995 Nov 1, 1995 Nov. 2, 1995
Project#:		Project Name:	Cypress B Phoenix
Client ID:	T.DIESSTOC2	LABID:	ST95-10-3077A
Matrix:	Soil	Dilution:	

Name	Amount	Reporting Limit	Units
Lead (Pb)	82	1.0	mg/Kg

pgm:1»'11DE1rmtlllor1 .. l'lr/l(g. mlll t.alO'I P6t *am*

NO• *No*:. Detedad. Oon'lpounOf•l m,y P'"UIIN 111 ClJl'\OOftfl'atfom: 1)41'°1r, ,n, a., IL'l'llt.

mes. Principal Chemist

R. L. **James.** Pnncipal Chemist

Nov 3, 1995
Dato Reported

SPAAGER TECH.'110tOGV ANALYl'ICAL. 1..ABO A.TORY, INC. IS CERTIFIED iY TH'° Sf.ft.TE OF CAUFOR."IIIA OEPAATMENT 0,: li!ALTu SERVICES AS A HA.ZAFIOOUS WASlf T&st!NG IA50AA V

SpargerO
! !! <?t29Y Inc.

Analytical **Laborotorytli**
Mobile Laboratory DMs
. . ientlfic DMs

Metal
EPA Method 6010

Attention:	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street, Suite 304 Oakland, CA 94612	Date Sampled: Date Received: Date Requested: Date Analyzed:	Oct 27, 1995 Oct 27, 1995 Nov 1, 1995 Nov. 2, 1995
Project#:		Project Name:	Cypress B Phoenix
Client 10:	T.OIESSTOC3	LA61D:	ST95-10·3079A
Matrix:	Soil	Dilution:	

Name	Amount	Reporting Limit	Units
Lead (Pb)	**38**	1.0	mg/Kg

p,pm.. Pi.i'h; ptf miUion• mwt(Q • ,qlllIQf&rn *P6t* KIJOQ!'&m

NO., Not d. Com;>N"Ota) fflil)' bo prettl'II II 00r1een riont bialow !ho O.lec:tion i:?!lt,

es, Principal Chemist

A. L **James, Principal** Ch<!mist

Nov **3,** 1995
Dato Reported

Spargero
Technol99y ITTC.
With Automation in Mind

Analytical Laboratory DMs
Mobile Laboratory Divisi
.-Soientific **OMsi**

Metal
EPA Method 6010

Attention:	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street, Suite 304 Oakland, CA 94612	Date Sampled: Date Received: Date Requested: Date Analyzed:	Oct 27, 1995 Oct 27, 1995 *Nov* 1, 1995 *Nov.* 2, 1995
Project#:		Project Name:	Cypress B Phoenix
Client ID:	T.DIESSTOC4	LAS 10:	ST95-10-3081**A**
Matrix:	Soil	Dilution:	

Name	Amount	Reporting Limit	Units
Lead (Pb)	43	1.0	mg/Kg

pprna: port, *NI* owtOtl"" ,ng'l(g =rnil:.lgr.tm par KUogr.im

ND.. NQI OtJacteo. Compoutd($J l'l\ly 01) P,t te/'lt ii CQr,COOltatiPIU b91ow tt\6,*t•c!icn Ul'l"lll,

ıes, Principal Chemist

A. L J.:ames, Principal Chemist

Nov 3, 1995
Date Reported

SPARGER TECHNOi.OGY A. AL*VT1CN*.. I.ASORA10RY, INC. IS CERTJFIEO BY THE S"r.li.TE OF CAL RMA
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Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory oivA
Mobile laboratory oiviZ
Scientific Division

TCLP Metal, EPA Method 6010
Analysis Report

Attention:	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street, Suite 304 Oakland, CA 94612	Date Sampled: Date Received: **Date Requested:** Date Analyzed;	Oct27, 1995 Oct 27, 1995 Nov 1, 1995 Nov 3, 1995
Project#:		Project Name:	Cypress B Phoenix
Client JD:	T.DIESSTOCl	LABID:	**ST95-10-3076A**
Matrix:	TCLP Extract	Dilution:	

Name	Amount	Reporting Limits	Units
Lead {Pb)	ND	0.50	**mg/L**

PlJir.\=i palll OUQIOn • lTlg;L • 1"illlgtl1¥1s pi.,-LIUN'
NO :i= NCI Celecttd. Com) m:ar DI prostrll: &I iona Wciw Ch9 !Ott lionll

R. L James. Principal Charni:st

Nov 3. 1995
Date Reported

SPAAGeR TSCkNOLOGV A ALVTICAL l."80AATORY. INC. ,s ceRTIFIEI (Sy THE STATE *OF* CAUf'OftNIA
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ication N 1.6H)

SpargerO
Technology no.
!,\-1th AutomotiOn in Mind

Analytical laboratory DMsior
Moblle laboratory DMslor.
Scientific DMsion

TCLP Metal, EPA Method 6010

Analysis Report

Attention:	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street, Suite 304 Oakland, CA 94612	Date Sampled; Date Received: Date Requested; Date Analyzed:	Oct 27, 1995 Oct 27, 1995 *Nov* 1, 1995 Nov 3, 1995
Project#:	JIESSTOC2	Project Name:	Cypress B Phoenix
Client ID:	CLP Extract	LABID:	ST95-10-3078A
Matrix:	TCLP Extract	Dilution:	

Name	Amount	Reporting Limits	Units
Lead (Pb)	0.59	0.50	mg/L

NO•Nol. 12. Compcuncl[s)maybe ta1conetnt,1ionsbtlOW rmit.

es. Principal Chemist

R. L. Jamos, Principal Chemist

Nov 3, 1995
Cate Roporteo

SPAAGEFI TECWNOIOGY ANALYTICAL 1>i80RATOR"f,INC. JS CERTIF!£D 5YTHE STATE OF CAUFO(W.6.
OEPAATMENT OF HEALTH SERVICES AS A W-'STE le STING LMiC!FtATOrlY
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Spargero
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Analytical laboratory D-r
Mobile Laboratory DM$iOn
Scientific OMsion

TCLP Metal, EPA Method 6010
Analysis Report

Attention:	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street, Sutte 304 Oakland, CA 94612	Date Sampled: Date Received: Date Requested: Date Analyzed:	Oct 27, 1995 Oct 27, 1995 *Nov* 1, 1995 Nov 3, 1995
Project#:		Project Name:	Cypress e Phoenix
Client ID:	T.DIESSTOC3	LABIO;	ST9S·10-3080A
Matrix:	TCLP Extract	Dilution:	[redacted]

Name	Amount	Reporting Limits	Units
Lead (Pb)	NO	0.50	mg/L

pcltl'\-Dt.11.$Ptl'll'tlltiOl'l ffi0.'1.• PyrWr
NO•Nor – i) ffifY ba prtHN &l conctnft3.llcw btCow <M lmii.

es, Principal Chemist

R. L James, Principal Chem!$!

Nov 3, 1995
O<lte Reported

SC'APl EJ\ *TECHNOI..OG'f* .t.NA.l.'fTICAL LABOP'.A.TOAY. INC. *IS* CEFIITIR£0 8V TkE ST.\'TEOF CAi.IFQFINM.
OU'ARl'MliNT 0,::HEALTH SEAVICS .t.S *A* HAZAROOU'S WASTi TUtlNG VJIQRATO V
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SpargerO
! !2QY nc.

Analytical laboratory DMsion
Mobile Laboratory Division
Scientific DMsion

TCLP Metal, EPA Method 6010
Analysis Report

Attention;	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street, Suite 304 Oakland, CA 94612	Date Sampled; Date Received: Date Requested; Date Analyzed:	Oct 27, 1995 *Oct* 27, 1995 Nov 1, 1995 *Nov* 3, 1995
Project#:		Preject Name:	CYPreSs B Phoenix
Client ID:	TDIESSTOC4	LAB ID:	ST95•10·3082A
Matrix:	TCLP Extract	Dilution:	

,e

Name	Amount	Reporting Limits	Units
Lead (Pb)	1.6	0.50	mg/L

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MC> &o Not a.tec:la4, s} rnay bl present ill COl"tct.nfl'aliOl'l5 c,ebr *UM* dltlectlori llR\l:.

nes, Principal Chemlst

R.L. Jam,,s, Prk\clpal C emlst

Nov 3 1995
Data Ropcned

SPAAG!:-. TECHt-Ot.OGY ANALYT\CAL LA00RJ.l'OAY, ,r,.C, IS CERTIAE.0 *BY* THE S'rATE OF CAUFOR!4A
DeP NTOF HEA.LTii SERVICES AS A MAZAR00U$ WAST, l'cSTING LMOAA70RY

Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory **Oivisie**
Mobile Laboratory Division
Scientific Division

8015 Modified Analysis Report

Attention:	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street, # 304 Oakland, CA 94612	Date Sampled: Date Received: Date Analyzed:	Oct. 27, 1995 Oct. 27, 1995 Oct. 31, 1995
Project#:		Project Name:	Cypress B Phoenix
Client ID:	T.DIESSTOC1	LAB ID:	ST95-10-2773A
Matrix:	Soil	Oiiution: 1:	1

Name	Amount	Detection Limit	Units
iPHdiesel	ND	1.0	ug/g

:IOO p;al1l *HI'* bllion • '9'k0• l'l'liclD§lrarnt pe, Illloffetm
P.,,..Wtll par ffllllllon • llftl • mlcrog,amc P« gram
ND•Not Delecbtci m,y M p,IISMII It IU bobw'IN Cletai:tion Nrnll.

R. L. James, Principal Chem\$1

Oct 31, 1995
Date **Fleportad**

SPAAGe:RTCCHNOtO Y A.'IIALYTICAL LABORATORY, INC. IS CERTIFIED BV Tl-t'i STATE OF CALIFORNIA
DEPARTMENT OF H Tl1SEA\'ICfSASA H.AIAROOUS WASTE TESTING U.80AATORV
(Ctn,!icat NO. e1 ,1

Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory DMsion
Mobile Laboratory DMsion
Scientific DMsion

8015 Modified Analysis Report

Attention: Mr. Hamid Moshtaghi
Ogiso Environmental
1504 Franklin Street, # 304
Oakland, CA 94612

Date Sampled: Oct. 27, 1995
Date ReceiVed: Oct. 27, 1995
Date Analyzed: Oct. 31, 1995

Project#:

Project Name: Cypress B Phoenix

Client ID: T.DIESSTOC2

LAB ID: ST95-10·2774A

Matrix: Soil

Dilution: 1: 1

Name	Amount	Detection limit	Units
TPHdiesel	ND	1.0	ug/g

JIOb:. perDl!liOn • UgllcQ .. • m.a pet k m
ppm; l)lftl pi million .. uo'l.. Pt;f gram
NO• Noc Ofltdilld. Coml)Ollnd(s} n')l(D6 p,aaenl 6t tlans bctM lhe dotaCtl0n llmlt.

R. L. James, PrindpaJ Chomi$!

Oct 31 1995
Date Reported

Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory DMsJA
Mobile Laboratory OMS
Scientific DMsion

8015 Modified Analysis Report

Attention;	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street, # 304 Oakland. CA 94612	Date Sampled: Date Received: Date Analyzed:	Oct. 27, 1995 Oct. 27, 1995 Oct.31.1995
Project#:		Project Name:	Cypress B Phoenix
Client JD;	T.DIESSTOC3	LABID:	ST95·10•2775A
Matrix:	Soil	Dilution:	1: ,

Name	Amount	Detection Umit	Units
TPHdiesel	ND	1,0	ug/g

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i,om:.:. port; perm • iqg mien)grams P1r o,am
ND c Noi Oawcttd. COffipaurd(fl maybeP'fftl'llat COl'allltrl.lionl N"- Iha detediorl llmlL

R. L **James,** Principal Chemist

Oct 31, 1995
Date Reported

SPARGER TECHN01.0ClV ANAL'ITICAL LASORATOR.V.INC.IS CEATIFI!D 8YTHEi ATE CA\,IFOR\JIA
Df:PARTUENT OF HlaLTtt SERVICES AS A HAV,AOous WASTE TESTING :.ASOTOAY
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Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory DMslon
Scientific DMsion

8015 Modified Analysis Report .

Attention:	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street, # 304 Oakland, CA 94612	Date Sampled: Date Received: Date Analyzed:	Oct.27, 1995 Oct.27,1995 Oct. 31, 1995
Project#:		Project Name:	Cypress B Phoenix
Client ID:	T.OIESSTOC4	LABID:	ST95-10•2n6A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Detection Limit	Units
TPHdiesel	6.8	1.0	ug/g

POO• perbi!liOl\-USJfi'4• 1,-kiogram
Ptlffl:&" D&lt& parmlll!Cln. vgt;• P9l gram
ND NDI o-ctfld. Compouna(s) .....,.Dl pra&M lt balow'IM--ion limll.

R. L James. Principal Chemist

Oct 31 1995
Date Reported

SPARGER T-CHNOLOG'V ANAL.YTICA.i.1..MOAA.TOIIIIY, INC. 1SC!!RTIFleO BYTI-E STAT! Of: CALIFOAN!A
Dlr.PAR'rMENTOF H!ALTI-1SERVIC'-S...SA l"IAZAAOOUS WAS'Tf TESTING LA!liORATI)AY
(Clttirc;i:0'1No. E-.•)

04/109578-109595

SUBR #: 551104 REP: PM
CLIENT: SMITH
DUE: 11/07/95
REF #:24847

24847

RIEDEL ENVIRONMENTAL SERVICES, INC
4138 Lakeside Drive, Richmond, California 94806
Phone: (510) 222-7810 Fax: (510) 222-8868

Chain of Custody Request for Analysis

Date: 11/6/95
Page: 1
Of: 1
Contact:
Phone:

PROJECT INFORMATION

Project Manager: CHRIS WAITE
Project Name: 4404
Fax Results to: SAME At: 744-3912
Also to: ____ At: ____
Project #: 4404
Send Report to: ____
P.O.#: ____
Sample Team (print): ____
(signatures): ____
Turn Around Time: 10 Day 5 Day 48 Hr. 24 Hr. Other ____

Sample ID	Lab ID	Date	Time	Matrix	Preserv.	TPH – Gasoline (EPA 5030, 8015)	TPH – Diesel (EPA 3510/3550, 8015)	TEH – Kerosene, Diesel, Motor Oil (EPA 3510/3550, 8015)	Purgeable Aromatics BTEX (EPA 602, 8020)	Purgeable Halocarbons (EPA 601, 8010)	Volatile Organics (EPA 624, 8240, 524.2)	Semivolatile Organics (EPA 625/827, 8270, 525)	Total Oil & Grease (EPA 5520, B+F, E+F)	Total Recoverable Petroleum Hydrocarbons (EPA 418.1)		Metals: Cd, Cr, Pb, Zn, Ni Total or Soluble	CAM Metals (17) Total or Soluble	Lead (Pb) Total, Soluble, or Organic	Extraction (TCLP) or STLC (Wet)					Number of Containers
TOIES2.STOC1ABCD		11/6/95	0947- 1020	SOIL			X							X				X	X					4
TOIES2.STOC2ABCD		11/6/95	1054 1108	SOIL			X							X				X	X					4
TOIES2.STOC3ABCD		11/6/95	1108 1133	SOIL			X							X				X	X					4
TOIES2.STOC4 A,B,C,D,		11/6/95	1157 1305	SOIL			X							X				X	X					4
TOIES2.STOC5ABCD		11/6/95	1319 1356	SOIL			X							X				X	X					4
TOIES2.STOC6ABCD		11/6/95	1350 1440	SOIL			X							X				X	X					4
2TSOLV.STOC A,B,C,D		11/6/95	1500 1521	SOIL														X	X					4
Pb2STOC A,B,C,D		11/6/95		SOIL			X							X				X	X					4
T-17-W		11/6.95		SOIL			X							X										1

RUSH

SPECIAL INSTRUCTIONS:
RUN TCLP ON
TDIES2.STOCX ABCD's
AND Pb2.STOCABCD
ONLY IF TOTAL IS OVER
840PPM (Pb)

SAMPLE RECEIPT
Total No. Containers ____
Head Space Y N
Rec'd Good Cond/Cold Y N
Conforms to Record Y N

RELINQUISHED BY (Sampler):
CHRIS MERRETT 5:45pm
(Signature) (Time)
CHRIS MERRETT 11/6/95
(Printed Name) (Date)
SMITH
(Company)

RECEIVED BY:
(Signature) (Time)
(Printed Name) (Date)
(Company)

RELINQUISHED BY:
(Signature) (Time)
(Printed Name) (Date)
(Company)

RECEIVED BY:
(Signature) (Time)
(Printed Name) (Date)
(Company)

RELINQUISHED BY:
(Signature) (Time)
(Printed Name) (Date)
(Company)

RECEIVED BY (Laboratory):
(Signature) (Time)
(Printed Name) (Date)
(Company)

COMMENTS:
TDIES2.STOCX ABCD - 24 HR TTLC - STANDARD FOR REST.
2TSOLV.STOCK ABCD 24 HR TTLC - ASAP/48 TCLP
Pb2.STOC ABCD - 24 HR TTLC - STANDARD FOR OTHERS
T-17-W - 24 HR TAT ALL

CHROMALAB, INC.
Environmental Services (SDB)

·-- Novamber 8, 1qq,; sr.wml:;::sluu #: ,s11104

OMITtl ENVIRONMENTM.

Allcu: Clu:ie White

J!rojec:r: 4404 Proje.:t#, 4404
Secel,·ed: November, , 199S

re: a sarn1,1..s fo::: Total Recove:.ble :'c role'-""• F.ydrocarbor. anal:.isis.
Method: EPh 118.1

sampled: Ncv!:!mL...:, e, 1935 **1"-a t1.*ix* ; ::iC!L** ***5xtr.::ct:ed:* Ncverr.b9r 7, ·1 95**
Run: '7?.-r *J.-,.:i1vzed:* November 7, •H35

:iRJ...JL	. 1e ID	TRPH -=--_._(m'''s;u../R=s:.,_1	REPORTT!Jr.· LIMIT ('-'m'''s:''''',-''F.=•Sl	BLANX RESULT {mg/Xg)	BLANK S?ID'' RES1tT {i.:l;
l0S-57:<	'·' NR.i!t? .i:'m(' 1A,E.C,D	1111	i.	r>.D.	e!1
t03Soa	~~?32.ST0C A,D,C,D~~	31	10	N.D.	8
lCSSBS	T .JJ.i::S .!>TUL 2A,B,C,P _	- 6JI	J.O	N.D.	es
OJSJ	**7·01zs .ST0C ·311::,B,C,0**	**,;-,9 -**	**-.n**	**N.D.**	**85**
1U S9:l.	7 D!BS2.ST.0C 4A¹iB_,C,D	i\	l)	.:U.	8$
1095>2	':' :)IES.'.l. STOC :Sk, B,C,D	'.1'	1:;	*CL* i:,.	85
lC9593	**:--!'IES2.STOC €A₁B,C,D**	fft:·	:.0	**N.i).**	**9S**
109595	T-17-W	N.LJ.	10	N.D.	8

Caroly Horse
arolyn House
Extractions Supervisor

tAJ,(fr
r.li Kharrazi
Orga.r..it:" M;.1.n11gf".,..

CHROMALAB, INC!'

-----l,n::,:i.Ol:.,.,.4a:l S.rvic:N (SOU)

November 10, 1995

SUhmi.aaion *#:* 9511104,
Reissuea i:rOJn Bov, b,- 1!1!1!>

SMITH ENVIRONMENTAL

Accen: hrls wn1ce

Project: 4404
Received: N<JVllll L- **6,** lllll5

Project#: **44U4**

re: e samples *tor* Uiesel arui.lyeie.
Meth,;,d. BPA J 0/0015M

Samp.Lec:t: November b, l!llil!;

Matrix: SOIL Extracted: November 7, '1995
Run: !)277 K yucd, November 7, 1995

Bpl **t**	Rample **m**	DIGn fmq/Kq}	llH>k'I'lliG Lna:T !mq/Xg)	11LANK »DULT (mq)	IILANK 1:iPIXB USULT .. ..J'Jt;J::-'--
1C!l579	T DifJS2.STCC lll.,13,C,D	N.D.	J..O	N.D.	70
1Ull:i88	'1B2.STOC A,B'ic,o	N.D.	1.0	lf.l).	70

"""""hove **11an;, ei** - Ullla!own *bydrocarbons in* **Cl1e** *Diesel* nnqe, c:onc.• II *111(1/Jrg.*

109589	T DIES2.STOC 2A,B,C,D	1.8	1.0	N.D.	7Q
109590	T DIES2.STOC 3A,B,C,D	N.D.	1.0	N.D.	·10
l0!IS,1	T DIES2.13TOC iA,D,C,D	N,D,	1.0	N.D.	70
1oq;•n	T DIES2.STOC SA,B,C,D	N.D.	1.0	N.D....................	70

Po:,, '''''''''' """"Pl<>• 0nlcnown .bydrc>e-.a.rl;,c,.n,: fn rh.. 01,.,.,.1 n,ng,., r:nr1t:... Z.Z ***1/l/;1/,:S,.***

1095.93	T D11,;S'.l.STOC 6A,B,C,D	N.D.	1.0	N.D.	70
10!)5!15	T 17 W	N.D.	1.0	N.O.	70

7 -

Xar'aAimy;o.i
Chem.1st:

,a;.;i!:-----
Eric •ram
Labora;ory Direct:or

1220 Quony Lano• Pl93eant0n, California **114566-4756**
(!;,nJ 4114•1!!1!! • t-acslm1le 1:i1u14114-1096
Federal ID #(;8•0140157

CHROMALAB, INC.

Envlronmomal Ser,iCeS (S08) •

November 7, l.995 *Submission#:* 9511104

SMITH ENVIRONMENTAL

Atten: Chriis White

Project: 4404 Project#: 4404

Received; November 6, 1995

re: 8 samples for Lead analysis.

Method: EPA 30S0M/74,0

Sampled: November 6, 1995 *Matrix:* SOIL Eictracced: November 7, i995

Run: **9,64•A** **Analyzed:** November 7, \1995

Spl I	Eampla lP	LEAD Cmq/Jcql	U1'0JtfllfC liDlff (mq/gq)	BL.IIIX :US1JL'1' <r./ltq)	B:i:.AllX btu UStlL'l' (\);
109578	T DIES2.STOC lA,B,C,D	150	5.0	.D.	103
109580	T DIES2.STOC 2A,S,C,D	36	S.0	N.D.	10'3
1095B1	T DIES2.STOC 3A,B,C,D	74	5.0	N.D.	10.3
109582	T DIES2.STOC 4A,B,C,D	90	5.0	N.D.	10:3
l.095B3	T DIES2.STOC SA,B,C,D	46	5.0	N.D.	1
109584	T DIES2.STOC 6A,B,C,D	76	5.0	N.D.	l.Q3
109585	2T SOLV.STOC A,B,C,D	980	S.0	N.D.	103
,9587	PB2.STOC A,B,C,D	38	5.0	N.D.	103

Cbriot!!:;K
Chemist

a:. ,L__J
Inorganics Supervisor

CHROMALAB, IN .

-.-"-ricn($n I

November 7, 1995

Submission#: 9511104

Sl'!Iffl ENVIROlffll:HTAL

Atten: Chris White

s>roj•ci, 4404

ProjeC't#: 44U4

llsc:o.f.ved: Noveml>er 6., 199!S

re: *1* **samples** ror **Leaa analysis.**

Kw!:hod: EPA 30 0H/7420

Sampled: November 6, 1995

Katr.ix: SOIL

zxtr•cted: lloveml:>ar 7, 995

llun: 9264-A

Analyzed: Novell@er 7, 1995

SV1 *I* **app1e m**	LD.D (ll<J/11:q)	UPOa'l'ntG LillllT <11q/1tqJ	•LUJt llJIULT cr,ts:gl	•LUtE lljPIU QIIQLT Sllfl
10PS78 T DIES2 STOC 1l,B,C,O	150	50	.D.	l.
l0ll l!U T DIE52,STOC ZA/B/C/D	:S6	-0	N.I).	103
109511 T DIES2.STOC 3i,B,C,D	74	s.n	11.u.	1 1.{J
109582 T l)IES2.STOC **4A,B,C,D**	90	5.0	II.I).	1Q3
109581 T DTRSl.STOC SA,B,C,D	4E,	5,0	N.D,	1 ¢
109584 T DIES2.STOC 6A,B,C,D	76	5.0	N.D.	1Q3
1011!>1!!> .!'J: l>ULV.S'l'OC A,11,C,D	91:10	5.0	N.I).	1

Ch:rl Lup itU· Arndt
Chemist

J hn S. **abach** ·
I organics supervisor

SPA●ER TECHNOLOGY, INC.
Analytical Laboratory
3050 Fite Circle, #112, Sacramento, CA 95827
Phone: (916) 362-8947
FAX: (916) 362-0947

CHAIN OF CUSTODY RECORD

C.O.C. No. 10506
Page 1 of 2
STAL Invoice Number: 577

Company: OGISO
Phone: (510) 451-5771
Project Manager: Hamid Moshtaghi
FAX: (510) 451-5773

Report Address:
1504 Franklin St. #300
Oakland, CA 94612

Billing Name & Address:
150 W. Iowa Av. #200
Sunnyvale, CA 94086

Project Name: Cypress B Phoenix
Project/Job#:
Project Location: Oakland
P.O.#:

ANALYSIS REQUEST

REMARKS:

Sampler's Name:

		All OK	None OK	Some OK
Cooler Temp.	°C			
Sample Condition				
pH				

WET(STLC)
TCLP
[✓ Total]

NO.	SAMPLE ID	Sampling Date	Sampling Time	Container 40 mL VOA	Container Brass Sleeve	Container 1L amber bottle	Container 250 mL Plastic	Container Other	Preservative Used HCl/HNO3/ICE	Preservative Used None	Preservative Used Other	Matrix Water	Matrix Soil	Matrix Air	Matrix Other
1	T.SOLVSTOC1	10/27			↓								↓		
2	T.SOLVSTOC2														
3	T.SOLVSTOC3														
4	T.SOLVSTOC4														
5	T.SOLVSTOC5														
6	T.SOLVSTOC6														
7	T.SUMPSTOC1														
8	T.SUMPSTOC2														
9	~~T.SUMPSTOC3~~														
10															

NO.	BTEX (602/8020)503.1	BTEX/TPHgas (602/8020/8015)	TPHdiesel/TPHmotor oil/kerosene(8015)	EPA 601/8010/502.2/504	EPA 602/8020	EPA 608/8080 (Pesticides)/505/508	EPA 608/8080 (PCB'S)	EPA 624/[✓ 8240]/524.2	EPA 625/[✓ 8270]/525	Total Oil & Grease (5520)	Non-Polar O & G/TRPH [✓ 418.1]	Organic Lead	RCI		CAM-17 Metals	CAM-5 Metals (Cd, Cr, Pb, Ni, Zn)	Lead		Standard 5-day
1								✓	✓						✓				✓
2								✓	✓						✓				
3								✓	✓						✓				
4								✓	✓						✓				
5								✓	✓						✓				
6								✓	✓						✓				
7								✓	✓	✓	✓				✓				
8								✓	✓	✓	✓				✓				
9								✓	✓	✓	✓				✓				
10								✓							✓				✓

Relinquished by:		Received by:	
Date: 10/27	Time: 4:10 pm	Date: 10/27/95	Time: 4:10
Relinquished by:		Received by:	
Date:	Time:	Date:	Time:

PLEASE READ REVE SIDE FOR TERMS AND CONDITIONS

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.P·•Y" 1 of 2
Analytical Laboratory DMsion
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8240 GCMS Analysis Report

Mr. Horrlid Moihtaghl
O fso Env1ronrru;n1-1
, 504 Franklln Street, Suite 4
Ca.11:1and, CA '1 t;1;l.

Uate Sompled: Q,o,. ,1 1 A5
Oaie **Receiw, :** rn 21. 1011s
Date Analyz...-1. ()1·1 ;, 1995

Project::

Cypr c 6 F'hconi>c

Client 10; T.SOLVS I U\,"1

LARln ST95.I 0-27<SI\

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1:

Name	Ar/lillml	Re0ortin9 Llmir	Units
I, 1 • DIChlOroo:t,ane	ND	5.0	Ul),'kg
r,I - Dlohloroetacnc	ND	b.U	ug/kg
1,1,l • Trichloro&!h:,mc	ND	5.0	ug/kg
1,1,2 - Trtchlorocthane	ND	o.O	uglkg
11,,'.l,"L- 1etmchlorocthcne	ND	o.U	ug/kg
1,2 • D1chlor0(.llt'ltlne	ND	6.0	uglko
cit - 1,2 · Oichloroethene	ND	5.0	ug/k
112 Dieh10rop1opane	ND	5.0	11olko
tr.mo 1.2 Oiohloroethen•	NO	5.0	u lku
f.lutemone	ND	10.0	110,'ko
2 Hexer.one	NO	10.0	lJulkv
• Methyl • 2 • pentanono	ND	10,0	11!,j,'I,;
Aootone	ND	Z.(	•l!JA:!J
t3enzer.e	NU	5.0	uljlky
BromodichlomnAtha	NU	.O	ug,'kg
Dromofom,	NO	f"i_n	IJ\llkg
DtomnmP.fhAne	ND	s.n	Ug/kg
Oarbo11 clis1ilfuif.<	ND	5.:)	uglkg
r.nrti.,n te>\1iu:I 1k•:icJI;'	ND	S.O	!J!llkA
GI ahirot.,•nzene	ND	5.0	ug/kg
Cl 1k:t1!JwU14'f.ne	ND	5.0	UQ/l<g
Chloroform	NO	5.0	UA/k
CllforomGthans	NO	5,0	Ug/kg
els - 1,3 • Oichloroproocnc	NO	5.0	U';l/kg
Dlbromoehloromcthone	!JO.'-----	o.U ----........	uofKo

o: Detected. Compour that [illegible] be present at [illegible] I
"'f"',I ,. 1,_..111111..,-,_.;,a,..- •••r-,
'Ci-.Ni:,:Dtte.:.I.., C...1,....,.'Ji1I ·tJl)llllilCfflilU,IIIIT_,.._,,·,... c-oo..fta..,.t i> ·"'III

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Anolytlcal Laboratory Division
Mobile Laboratory DMslon
Scientifie Division

8240 GCMS Analysis Report

Attention:	Mr. Hamid MCthla hl C iso Environmental 1 tiU4 Fr.lnt(i1n 81:rcct. t :rc .:.:W4 Uaklo.nd, l:A 04612	Doto Somplccr: Uarc Mccoivcd: Uote Analyzea:	Oct. I, 1UU Oct. 27 10J5 Oct. -l1. 199S
Project#:		rroject N8m«::	)"f'lrP. 11; n Ph.-,1',./"'llX
Client ID:	r.smVSTOC1	LAB ID:	GT9S-10-274SA
MD.bx:	S<;il	Dil'J"fon: ,·	1

Ncrne	Amount	Reporting Limit	Unitr,.
Eihyl bonzc ne	ND	r..n	1l!Jll.!)
Methylene chloride	ND	10.0	1,ulku
Styrene	Nr>	!i n	u lk!J
Tetr ch:oroethene	ND	5.0	11ulku
Toluene	-1:l	5.0	uylky
Meta/Paro-Xylene•	Nr>	n	u /k(l
Ortho Xylr.nit1.,	ND	5.0	uglkij
trans - 1.3 - 0ichloroprapene	Nn	!1.0	u9/lc9
Trit-.hlnmfllfhAnfl!	ND	5.0	ug/l<g
Vinyl aceto0te	ND	5.0	ug/lcg
Vinyl l'".hlnriciA	ND	S.O	uglkg

Surrogat+ % R1=1Cci11..-.,y 1,2.- DK.:l,k.trUfi:'IJ 111t tJ-4 -	162¾'"
Surroy<1l % Rtr.:ovwy Toluenil -D-8 =	1041>4
Sum,1:falw % R -uwry 4 - Brc.nntJf1:.iorobinz;n; •	213 ,·

•· ;–po-1;0:1 6iion. - • lllbfotoO"' ,- 1:o•e-
PM'l"" P::'"r.• m•""• • mWDf'a"IO o>c•f'CI""
NI)• tkl 0""'-•• Cl'tl,-r,..c:Jm&)IIIDJlrcir;Ofll loK"""""1iOflDll:•.. D<'II·• ""1
• High 91.urrog.ile pe,-c-ent recovery dua to matrix gtfgct

R. I. James, Principal Chemist

Oct 31, 1_9_95_
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Cf'AflCt:l'IT (;l ...-0\.0-:YH'-"1.r.tQ,l,,L "TOP.'f, lt.C ll Cl£J.Tlf'IIEtl • .,. THE !T•TF. OF:,..U,-;)111.'"•A
I')!l'lll,;JIIITMFtf!l'"ll'H=1o1T"' :OF>llo' ·;,:.-. ,_._,. ,._.,.,.._.,,11a-. W-. ,.. I's',I N•Jl,tf'.11-(J 11)1,11'
(C"""';.. , - t.:. • Hl

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Anolyticol loborotory Division
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Scientific DMsion

8240 GCMS Analysis Report

Angntlon:	Mr. Hamid Moih1.1ghi Ogiso En\lironmental 150 fr3nk'in Sm:ot. Suite 304 t,..\31,:1.QO<::!, '-,.'/\ l:MQ1::.;	Date San-,pi;d: Clate Rliiocilit·rvad; 03!0 /\n:ilyzcd:	Oct. 27, 1995 OCL ',;7, 19 5 Oet. 31, 1996
Pro,ccl H:		Projoc:t Nnmc:	Cyprcx B Phoenix
I:licnllLJ:	I.SOLVSTOC2		:;196-102748/\
Motri>c	Soil	Dilution:	1:

Name	Amount	Kepon, Q Llm1t	units
1.1 Diohlorocth::rnc	ND	5.0	ug/kg
11 - Dichloroethe,e	MJ	5.0	ug/kg
1.1.1 - Trich10,oelhnns	ND	5.0	ug/l<g
L1,2-Trich1::; ootnane	ND	5.0	UQ!kg
, .1,2.2 • Tetrachloroetnane	ND	5.0	ug/kg
1.2 • Dichloroethone	ND	c.o	ug/kg
ei - 1,2 • Oichloroeth ne	ND	5.0	ug/kg
1.2 - Oichloropropane	ND	-0	uglkg
tran.,;. • 1,, • Dir.hlnrn11thflnfl!	IJI)	fjJ')	11g/ko
2 - Butanoo•	ND	10.0	eg/kg
P • H ICArinnt'!	Nf'l	10.n	uolko
4 • M lhyl • 2 • !Jti:ll'IAf10fl	ND	10.0	uvlk
Act.t•:ioit.	ND	25.0	\lg/kg
Flf:!IJ/t:!(lf-!	Nf'l	n	,,u/\u
810111Wk.i1lu,1.1t,1wll 1&11..,.	ND	!5.0	ij/k
Sromoform	ND	5.0	ug/kg
Brcmomwthane	ND	5.0	ug/kg
carbon 01s:uttieic	ND	5.0	ug/kg
Carbon tetrachlorld"	NO	5.0	uglkg
C.'hlorobenz.Gn8	ND	b.U	UA/kA
C.11Jorocth3nc	ND	6.0	ug/kg
l:hlorotorm	Nl>	6.0	uglkg
GnlOrometnanc	NL/	b.U	UQ/k9
els - 1,3 - Dichloropropcnc	ND	5.0	uglkg
Dibromocnlorometture	ND	Z.0	ug/kg

"'1b-H"• w il!llfl-111J.½- ·······
oo- D.,,, - -.1 ,.- V ffll; 'll'"-' - 7-
f, 1Hr,r.-:,11:, 11 i"",N11rvu·111:m n r1.,_,.,,.......,:-- lh.:l im,

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Solenmo DMsiOn

8240 GCMS Analysis Report

Attention:	Mr. I !Jirr.•d Mosnt•Qhi O is.o Environmental 1!:iQ.J F'r,:111"1k!in trP.P.I. 1!itP. '.Vl4 (');.jkl•md, C:A :i4fl17	**Dote** 8ampleo: Date Received; nr1tP. Ani'll}'TF!rl:	Oct. 27, 19()5 Oct. 27, 199 *Or.t* 1. 189
Projq,::1 #:		**Project Name:**	Cypress P. Phoenix
C.Ji;,ml Jr)·	TSOI VSTOO	IAfl 10.	ST95-10•2748A
M;trix:		**Dilution:**	1·

		Reporting Limit	
Eth'jl benzena	ND	50	11u1ku
M;thylwn, chlc.:,ricJv	ND	10.0	uwil<.w
Styrine	ND	5.0	u9•l<g
Tstrachloroethenia	ND	**S.0**	ug/kg
Tolu;rig	NO	5.0	uglkg
Met:a/Para-Xylon••	ND	**5.0**	uglkg
Ortho-Xylam s	NO	S.O	uglkg
tr:,.nc,• ,J • 01on1oropro,wne	NO	5.0	uglkg
rnchlorcstti;ne	NO	5.0	**uglkg**
Vinyl QCCt3:c	NO	**5.0**	ug,1<9
Vinyl chlonde	ND	b.U	uglkq

Surrog tc % Recovery 1.2 - l)1chloroclhanc d-4 -	110i.:••
6urrogale % Hecovery I eluene **d-ij** a	14/%
Surrogele % Recovery 4 - 6romot1uorobcnzcnc:	:i300;..•

11Pb ,.11'1:, lh"l!11111,n •II •.'flC"IJOr;;,n'l, Oil! '-"91'11'1'1
llPl!'• IJ:l'IS ow rr,1,on= UOl0= mO""..-Ql'lflll Oil m
NU• Ne1Ullt(lt;. il fflh"" "'541M M cc,r,ctnn,;ICI\; tflf 1400:ltlQ &11111.

.. High auJTog tc percent rcoovcry due to matrix cttoot

n. L Jamu, rrinci Chcn 1

oc:31 **19,,**
Oate Rcs:,;rtccl

.i.i=:r,,A Till"J,4lO.l()i OOY ,lt,IJ.1 'flll:A-1 11,,1,:-..i.TO,l!V", !Hr, I.. 1:1-'lfnF1 nA," '!">,Il' .. Ti.ff ti'- l:.lt.1.IMHNIA
01.P'ltA"rMi:"'Ol=" +C,,J..T-I i£J:MC;l, ,.5 "t-1,\Zl'AlX>Ulo VJ.-'£TIE":"I.STl11G1.J1,WO;i1,fOAV
c,,1r,,.111.,111r.ii., 10 -

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Anolylicol Loboratory DMsion
Mobile LOI:)O!Qlory Division
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8240 GCMS Analysis Report

Attenti:::n:	Mr. Haml Mo 11;.iuhi 09ic:o Env:ro111:11:,11111 1601\ Fra"'lklln Strei:tl.• 11il<:= 30-1 Ockit.ri:;j. CA 94e 12.	Da,c Sampl•o, O e Fr;eciiiliVed: Llnlc l\na1yzod:	0.;• ?7. 1995 ()d. 27.1995 01,.:L. 31, 1395
ɜʲᵖᵏ·ˡ ᵖ·. |		rrojeci N<1me:	C ,:,r;,;.s. E\ Pitt"ierux
Cti 11ll0:	T.WLVSTOC3	LABID:	STi5-10-'751A
Matrix·	Goit	Oi!ution:	1:

Nil-1...-iP.	Amount	P.eporliny Lirnit	Units
I, I • r'>1Ghloroe:tha:1e	ND	5.0	UQ/kg
1, 1 - ['),:-.hk,r.:>ethenc	ND	5.0	ug'kg
I. I. 1 • Tlicboroethane	ND	5.0	uglkg
I,1,2 • Trir.hli:>roethanc	ND	5.0	uglkg
1,1,2.::i - Tt-1tfachlorce1r,,.nt	ND	5.0	**uglkg**
\,2 - Oi1.,;hlomP.l'ra1t.ne	ND	5.0	"oJk9
Cis: - 1,2 • nu:hiuroethene	ND	b.U	lilJlk:;;i
1,2 • Oid1lu1..:i;-.1·,"'lp?.1ne	ND	b.0	<(J.lko
tran$. 1,2 • Oir:hlcm:,,::11-ene	tJf)	6.0	u9lk1;
2 - Butan<.,r 11=	, fl	1U.U	vyi1,,,,!,I
2 - Hixanone	N[l	10.0	ug, u
4 · M9thyl • 2 - f-'lsli-1t'"ri.-,n,:	NJ)	10.1 /	uylky
/\CetonQ	ND	5.0	"g/kg
Bcni.ene	N[l	5.0	uglky
Bromodichlorome\h 1·t-!	ND	5.0	uglkg
l:lromolorm	NO	.O	ug/kg
Bromom&thana	ND	!;.O	U!lik9
Co.rbon d1i:mttide	ND	5.0	URikg
Carbon lclrGcnlorido	ND	!in	u9'Kq
Chlorobenzenc	Ni.l	n	ug/l<q
C'.hlcroelhanc	ND	5.0	ug.1<g
(';\1k·ArofonT,	ND	5.0	UQ/kQ
Chktmmethane	Nll	5.0	uglkg
cis • 1, · Dichlor·op,openc	ND	S.Q	ugll<g
Oill1vn- hlo1"0methe.nc	ND	5.0	1qlkp

r.r'f'l• pV.&OtfMlt'al .,,,,.....:., 111.,, ,...,:-:m
NO. l<btO.!IKW t':fflt''' lINl\'t:111 -• l L-' l$o"1i - ..J•-,,tll Ir•

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8240 GCMS Analysis Report

''''	Mr. Ha.-r.id Mc, t1t 1'li 'Jgioo Env1rJ!'lIT1\!11l": 1604 l-'"30,din Stre t $nil"" 304- Oo<lano, S/1 '612	Uc.10 sa.mpl@c.i: D.:ttc ti&e;ived'. Datt AnillyZ&-d:	0l,' 7. 1995 0,:1 ?.7. 1995 01.:t 31_ , as
Pr!l]-2ct t,		P oject NQm,J;	
'' ''.	T.OOLYtiTOCJ	LAB 10:	I
Mau;x·	3oi1	☐::u!ion:	1;

	Arrount	R;-p,:,,r h119 l imit	Units
-Elh';1 ,i.-i,:ne	rm	5.0	UQ,'Kg
Methyl 111t.i .-:hlnrde	rm	10.0	ugll<g
Styrer:9	ND	5.0	uglkg
T&lract1l•:11'k'trii'!riP.	NO	5.0	uoJko
rolJ ne	NO	5,0	**ug/kg**
MetatPar:.;.-Xyli:-r,.=:l'>	ND	S.O	119/kg
Urtho-Xylenes	ND	b,O	**ug/kg**
trans: - 1,3 - Di1.,.J1\,:,ropr(')perie	NC·	6.0	uolkg
t r,chloroeth€-n	r,ri	-0	uull(g
\linyl 3-CQtat	ND	-0	•Jg/<9
v,nvt chlo de	Nl"l	6.1)	1.l!JlkO

Surrogste o/m. Rec-ovl!!ry 1,2 - Dic:hloroeth0nc d--J\ ""	106%,
fiurf'OAC.tc 4 Recovttry T.-,h1P.n#.: d-8 =	122\ Y
Surrogate •4 Recovery 4 - R,.,n,olluorobenzcoc -	170'1<.'

NW1:- ot·111rv:· u"'1-ffliv,.pt,tr.c.;i.o.,d.;1a'71
l'11:rn-<Carf! pcoml.M-:- W-'";c,.tt,)ffl Jl6'1,._..
NL'•IIICIII 1:D-. C.. :1)<n0'('10,.... fl ...,...,,..flrllll:fl:;t-,!,.,. p,.. ,,,:,:.C.ltng ,or,L

- High currogate p@ref:Hll recovery due to ttiX effaci

I. L. Jamoc, Principal Chemist

Oct 31. 1Q9'-'5'----
C,:go lil.e;,ortoo

31"... ,0!" T:0!4',0 0GV At-1.tlW•N:At , a 1,v,:,cr-.t lN'::. 1.:; cC,iT.r11 , •Ti.li. rr n nFr.,1111-Uk"lo,
.)cl"AR""MCoff {'# lsl&.L.T1l :crlYICCS ,-_,: A WAJ:.11,.•• tt'-- w.._o;;I '.QLi«,l\.l.i,)fl'T'
,e.,,.ar;...,'"••f..:.. ,c·,:

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Anolvtical laboratory OMslon
Mobile Laboratory Division
5eientilic DMslon

8240 GCMS Analysls Report

Client:	Mr. H9imid. MOO J!li Og1$0 Environnieul.ill 1504 rariklin Screet. SuiiH 304 O&ldor-d, Cl, 9<612	IXilC Sampled: Dole **1-!eceived;** Date Ana1vze0:	O..i '7, 1995 Oc1 ,*1,* 1395 Ocl. 31, 199:;
Project #		"""iect *Nome:*	Cypre s: E' Pl111l-!t":i:r.
c,ont 1n.	T.OOLVbfOC4	LAB 10:	5T95- IIP7fi4A
	SoR	n,iurion:	;:

	Amount	Rseortin!:l Li1'1'1i1	Un s
1,1 - Dichlrntk::thar.e	NO	5.0	ug/kg
1,l - Dk:hL:,l'foP.ther.e	NO	5.0	ug/kg
1,1,1 - Trid1k1fc,ethane	ND	S.O	,ig/kg
, ,1,2 • 'fri,.;11k1mAthane	ND	5,0	ug/l<g
'I.,1,2,2 - Tclr;uJ,loroethane	ND	5.0	uglkg
1,2 • Dichlu1u1tthi'!lnP.	ND	6.0	"D·"'9
CIE: - 1,2 - Oichlrnot=!lhe-ne	Nn	t>.0	ug/kg [redacted]
1,:! - OlchlOruv,vpan.::	ND	b,0	ugko
tra.nt • 1,2 • Dlchlor<>Hlhene	Ntl	6. 'J	11ulku
Sur.u,ong	Nn	w.u	uy/kg
2 Hexanooe	ND	10.0	u,Jlku
4 • Mothyl - 2 • pt:i,, ihl.01:inP.	r,m	10.U	uy.'kg
Acetone	ND	25,0	uglku
Benz::cnc	ND	5.0	uglky
Bromod1cnloromethane	ND	5.0	uglkg
Oromotorrn	NO	5.0	ug/kg
Oromomctmna	NO	5.0	ug/l(g
Carbon <13uttide	NO	5.0	uglkg
1'".atbon lelrcchlondo	ND	!;.0	UQ,'lqi
r.1,larobenzene	NU	!\.0	uw!<9
Ch1omP.than	NU	5.0	U9"k9
Chlr.mlllllTn	ND	5.0	ug/kg
Ct1lc,1°"""Mne	ND	5.0	ug/kg
cl• • 1,3 • Oimloropropene	ND	5.0	uglkg
Dlbronwllomm..thane	NO	5.0	uglks

ia,'Mlon-..,..• fW'.'·t""(JaA1
r.111 ll:lil'Mf"mbi.y- W9flllll
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echnology, Inc.
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Anolyllcol Lob0ra1orv Division
Mobile Laboro1ory *DMsion*
SOlentlfio Division

8240 GCMS Analysis Report

Attention:	Mr. Ho.mid Moshtagl,i *Og o* nvironmental 1504 t=t:lnidin Street, Suil.....304 Oaklcnd. (;/\ W b'2	**Date Sllm ;ccs:** **Date** necelVCd: **DAte Anejy,:cd:**	Oct. 27, t995 Oct. 27ı 1995 Oct. 31, **1995**
'ʲᵖᵉᵘᵗ ᵒ	I	Pmj dName:	Gypreco B PhO;nix
er..,,,1n,	T.SOLVSl oc,	IABID:	1:HUb 10-275•1A
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	Arn<>unt	Reporting Limit	l111ils
Ell,yl t.enu:ne.	ND	b,0	ui,l'•g
Mett,yt ,., chloride	I D	10.U	ulJf\u
Slyr 1	NO	0.0	uyilcg
Tetraet•l1,r,W!l'lene	NO	5.U	uglkg
Toiuer""'	N[)	5.U	ugll<\j
Meta/P ra-'Xyh-ino::s.	tJO	S.O	ugikg
Onho-Xyl ,.,,	NO	5.0	ug/kg
trans: - 1 ,S - Oi1:l 1k,1or,rooent	ND	S.O	Ug/Kg
Trtchlaroeu""',1'=	NO	S.O	ug/kg
Vinyl acetate	NO	5.0	UQ,'kg
Vinyl chloridv	ND	:',.O	ug/l<g

Surrogato % Rv<.-uve,y 1 ,? • Oichlo th:mo d-'l m	100%
l:iul!O!lato % RECOw,y folu<,ne d-0 -	11> ",1,-
tlUffll!l'llG % ROC<MHy 4 • Rmmnfluorobenzcnc •	142%'

~~.isici •w1,...,. t.&-1-llf"c.-ffl......... •....ti::.-~~
PCIW"-,t....-wlllloi,.- ,................ ,__, *per;n.,.*
ICI-tu iliic)'"lfflP't-1tll'ft'W. t,elCWfie,_,,nJl:,,\.
• High eurrogate P"'c„nt MCC>very due to 1""1ltiX efloc:t
- **Unknown hydrooarbnrn< were found to bePrcGOnl**

L. James, Principal Chemist

Oet31, 1UUo

,•N'lCtflTCC,a,G.o,C¥AkAl.fflC'..t.LL&111-11ro,.N:. !OD'fTIIC ATECIF CQlal.lA
-'"1, T01" "n. IU!.ttG(:;A.l:*t.* \2ArQC)OU; *Ji!L'il•* I MIM',,I AIOfUl"tOf\'(
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8240 GCMS Analysis Report

AttGnlion:	Mt. Hemid M::i:1i,Jilif!.Jhi Ogi Cnvirc, .,·, 11l:.1' 1504 Frait'ikJ111 At e!, Suitg JU'1 Oekillrvf. r,4 >4612	ll<lte **Semr,i,,,t·** i.Je.te 11 ive:ul· **Oote AN1lY7..,J.**	0<.1. 27, , . 0<-1. 27, 1W6 O<:t.J1, W S
t-'roJoct •:		Proj d Name:	Cvorc B Phoe:riix
Client ID:	T.001 V!JTOC5	**LABID**	ST b-10 2757A
M Irix:	!mi!	C,ill,li1m· **1:**	

Nome	A11ruunt	RCIX> in,1 Limit	llnlls
1,1 OichloroMAAne.	ND	5.0	:,,ig/',<g
1.1 - Dichloroeth,-o,,..,	NO	5.0	ug,l(g
1.1.l - Trichk-,Mr'!trHuK!-	ND	5.0	ugli<g
1,1.2 • Trichlor""""""	ND	.O	ll!,lkQ
1.1.2,2 • Tf!tr'l!,-:l-tli:N thanG	NO	$.0	ug/kg
1.2 • Oichk1ru ,h ne	ND	ti.O	Ug/k
ci3· 12- r)i(:t,luruttthGM	**NO**	s.n	uglkg
12 Dichk111,r,ropane	NO	**.5.0**	u!IIJ<g
trans • 1.? - o.,lao""Ihenc	ND	an	UQ/l<Q
2 • Butru11>r1e	ND	1nn	**ug/kg**
2 • HP. ftflt,;tN:!'	NL)	10,0	**U/llkll**
4 - M♦.lhy!• 2 • pentanonc	NU	10.0	**uo,1(g**
(.11,w	ND	25..0	**uglkg**
&!11.1.,me	**NU**	**5.0**	**uglkQ**
F,l,i;,r,.,.;;chlorornoth<lne	NO	**5.0**	ug/l(Q
R,om:,fom,	ND	**5.0**	**uo/kQ**
B,u,110msthan.c	ND	5.0	**11glkg**
carbon dicuK1d0	NO	**S.O**	ug/ko
Carbon 1elmol)londe	ND	5.0	uglku
Chloroben:ronc	NO	:,,Q	**,,()11.g**
Chlo/'OCIIlCne	N[l	:,,Q	•*'!J"l<Q*
Cim>rotonn	*Nr>*	5.0	**09'":!l**
ChlC>romethan•	ND	**5.0**	uglkg
!!!!! 1.3 • DirJdora1-,,uµen.i	ND	S.O	uljlkg
Uibromixhlom. ..HLI1ane	NO	::,o	**u9!!:g**

=cv11: ,...-w-,,-..,-. ....11'<.. •••-U'J;ital"
pe,l'l\l..,,,r,,,,:o-..'I'Ofll'I'l(lt-NI ....
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AnaJytlcal looorotory Division
Mobile Laborotory Division
Scientific Division

8240 GCMS Analysis Report

Mr. M mld MoonU1gh'1
ogrso Env;ronmcnlal
15:i1Fr:mk!tn Btree:t. Suitw :VW
Oaklar,0, t:A 04612

le Sampled: Oet. 27. 19 :t
Oat• Received: Oct. 27. 199fi
Catt Anal'fzod: Oct. !l1, **1995**

Project t..iame; Cypress & Phoenix

:-.SULVSTOCS

U\81D: 3T95-10-2757A

Matrix: 011

oaution: 1:

Name	/\mount	Rl':"1A1tling L:;;lm-'"h" ----	""V'-'ne" s -
E1hyl i,.nzene	ND	5.0	ug/kg
Methylene chlonoe	ND	10.0	ug,'kg
Slyrene	ND	5.0	uofkg
T traehtorocmene	ND	5.o	uo.'ko
l'oluDne	ND	s.o	uglko
MewP::iril x.y1e e.s	ND	5.0	ug/l<g
OM<>-Xylcne(l	ND	s.u	uolko
tranc 1.::s - Diehloropmpt.!1ll:!	Nn	6.U	uglku
Tnehlorocthene	ND	-U	•'!J"ko
V,nyt **&oetate**	Nn	b.U	uv/kU
Vinyl chloride	Nn	5.0	11(1/kij

Surrogate% RF.r w- 1y 1i2 • DIOt\iorocthtme d--4 • 103%
t;; nogate % R•,-.....-y Tolueno d-ij - 101%
Surrogate% R,covv,y 4. Bromoftuorobenune" 01%

£ICIO•Dl!.'lgi3ltJon- --;.,; .= ..'-..'.=,,_C,: -:.::-,,------------------
ClCfll:olWll.rM"'-hvo-ff0-1'"• ......, .. 1f'C!'l>
1(1':.NC(r-- j il' "'":11..,;,,-1:·allrl::'IWI-"""""...... ,,.

. James, Principal Chemist

:31, 1995
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;-P!,11.::tr.TCCUN:il,.:),ll'...H"'-"fhl..._ f aw-.CU.TORV, t'l:.1;:O:Srm:-:C;) ,_, T"('r,,._n: Cl-(.:,u ,,.,.,,_,._
.:.-€,- J\1!.-...T:"ll=I-C.i,1,. .t UAfAl $"tt ,._,!<1-,N U!IOQol,T'OPV
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Page 1 of?
Analytical LabOrotorv DMsion
Mobile laboratory Division
Scientific D lon

8240 GCMS Analysis Report

AH9ntlon: Mr. H:..-1,rid Mo:htagh1
Ooi,-c:, E11vironr1cntar
1504 Frar,k:in Street. G1Jilet 304
!');:iJ.J•md. C/\ !)(.612

Diele Se.mph-!tt Ocl. 27. 199ri
Uote ne-rNJ1=tJ; 0d. 27. 199!1
I.late AMly<ed: Oct. 31, 1 9

?rOjeci. #:

rm;..,,.t N.me: Cyprei,., A Pl"toon,x

Ciierit ID: TSOWSTOC6

I.AO /0· 6 f9:i-1()..:'76()A

Matrix: Soil

Diluti,,.,. 1: **1**

Nome	Amoum	nepot1i1ly Urnit	Uni::-.
1,1 bichfnrot:ill n;	NO	~~O~~	*IJOikli*
1,1 - Oichlon1H\he	ND	5.0	Uijll<a
l,1.1 - Trid,101uvth;;.nc	*ND*	5.0	"aJkY
1,1,2 - Trit:11 1im!thane	NO	**5.0**	11ufl<g
1.1.2..2 • Tet1.,1.L·hlorc-ethane	ND	5.0	119/kg
1,2 • Oichlorr. thane	ND	**s.o**	11{)1k3
cio - 1. - Oichloroelh¢ne	NO	5.0	uyll<9
1.2 • Dl<:Id,_,,opropanc	**ND**	**5.0**	**ugll<g**
t,ans • 1,2 • Olcllloroet11ene	ND	**s.u**	uglkg
2 • au,..,.,,,.,	NL>	10,0	ugll<g
2-l uuum:	ND	lU.O	ugJl<g
4-MHIhy!, - - r>entQnon,,	NU	10.u	Ul)ll<A
Ar.P.torMil	NU	:.!ti.O	uglkg
Ben,f-':ne	ND	*b.U*	U9/'<ll
Omn·ru<lichloromettiane	NU	5.0	ug11<11
Bmu.ototm	NO	-0	u g
Aror,10melh:ll"le	ND	**5.0**	u'l/l<g
C".;;rbc>n disuWide	ND	**5.0**	**Ug/kg**
C rbon tctrachle,ici,,	NO	5.0	ugr,<g
Chlor®enze,,e	**Nn**	-0	**uo/l<g**
Chloroctnane	**Nn**	*n.n*	**ug/kg**
ChlOrolorm	ND	**5.n**	**uglk\)**
Cnioromethan"	ND	**5.0**	ug/ku
cit · 1.3 • Dir.hkorupropcne	*ND*	O	uon.:9
Oibromochkur1methane	*ND*	5.0	uQlkg

CC111cl'»"<H1 **liit:•**ᑌ\\\\'-;',.--.,..---=•,..,-...,,-.._--
fll'.- NMOW,,.. b, <:l10't'" "IIC-.gl'G"'•:.'if tlft
fiOcW. iG. C•fl'f)c.',"4(,).,,.r:i D'l<illfl"T.111 --• --•-.• M1"!J*r-ot.*

Sparger Technology, Inc.
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Anolylical labOfOlory DMsion
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ScJentifie Division

8240 GCMS Analysis Report

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		D::te Analyz ,t	- 1.1JOS

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CtienlIO:	T 30LVSTOCti		Sl&o 10-2700A
	Soil	Uilvrion:	1:

		Hcportin; r imiL	Unit:.
I:.thy! bennm	!\!I)	!;.0	u;;'ko
Merhylene 1:t1l,,ride	NI'I	10.0	UQ/kg
l,'lyrene	ND	G.0	ug,1:o
I etrachloulf<the'&e	1.3	s.n	ug/kg
TolueM	ND	5.0	ug/kg
Meta/f'a,.•Xylen••	NO	:;.r,	u;;'ko
Onho,)(y, ,.,.	ND	5.0	uolkg
trans • 1,:1• Dlchic,opropere	ND	!i.O	uglkQ
Trir.hlo""1ih,ine	ND	-0	sgll<9
Vinyl ;;iiclljtate	NO	5.0	uglkg
Vinyld ,lurido	ND	5.0	uglkll

1l.11·,"!l•te % Recovery 1.? • O!chl<><oethone d--4 &	105%
S,mogate o/. Hcoovery T""""'- d-8	103%
$ur,egate % F(eoovery 4 - l:lromofluorobenze"" =	77%

"jjw•Hlb.w£1•u:""l• •a,..cpo. .1..,
n,:16,-tlltlilo,a -..........,.
Wl•Nat -- C.... «,l.....,Nt-.CM•c-.-.-nsOWM-M""""""lkll.

ames, Principal Chemist
SPARGER Tech

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QCrA,::lf!"M:.. ,T ... -'-LIM ;:CIWl::C:J A,,3-. rv.z.viuuus\,'1$'"E1-"loTIHOV,,OOl'li,fO \
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FAX (916) 362-0947

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Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8270 GCMS Analysis Report

Attention:	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street, Suite 304 Oakland, CA 94612	Date Sampled: Date Received: Date Analyzed:	Oct. 27. 1995 Oct. 27. 1995 Oct. 31, 1995
Project#:		Project Name:	Cypress B Phoenix
Client ID;	T.SOLVSTOC1	LAB ID:	ST95-10-2746A
Matrix:	Soil	Dilution:	1;

Name	Amount	Reporting Limit	Units
1,2 - Dichlorobenzene	ND	330	ug/kg
1,2,4 - Trichlorobenzene	ND	330	ug/kg
1,3 • Dichlorobenzene	ND	330	ug/kg
1,4 - Dichlorobenzene	ND	330	ug/kg
2 • Chloronaphthalene	ND	330	ug/kg
2 - Chlorophenol	ND	330	ug/kg
2 - Methylnaphthalene	ND	330	ug/kg
2 · Methylphenol	ND	330	ug/kg
2 • Nitrophenol	ND	330	ug/kg
2,4 - Dichlorophenol	ND	330	ug/kg
2,4 - Dimethylphenol	NO	330	ug/kg
2,4 • Dinitrophenol	ND	1600	ug/kg
2,4 - Dinitrotoluene	ND	330	ug/kg
2,4,5 - Trichlorophenol	ND	1600	uglkg
2,4,6 - Trichlorophenol	ND	330	ug/kg
2,6 • Dinitrotoluene	ND	330	ug/kg
2 - Nitroaniline	ND	1600	ug/kg
3,3' - Dichlorobenzidine	ND	660	ug/kg
3 • Nitroaniline	ND	1600	ug/kg
4 • Bromophenyl - phenylether	ND	330	ug/kg
4 - Chloro • 3 · Methylphenol	ND	330	ug/kg
4 - Chloroaniline	ND	330	ug/kg
4 - Methylphenol	ND	330	ug/kg
4 - Nitroaniline	ND	1600	ug/kg
4 - Nitrophenol	ND	1600	ug/kg
4,6 - Dinitro - 2 - Methylphenol	ND	1600	ug/kg
4 • Chlorophenyl - phenylether	ND	330	ug/kg
Acenaphthene	ND	330	ug/kg
Acenaphthylene	ND	330	ug/kg

ppb = pe,biUion = uglkp = m1crograin., per kilogram

poms o,:ns o.r mlclion = ug/9- mi.:rogram1 per gl'Sffi

NO• NOi Dotoctod. Compound{•) tM.y t,o oroan1at Ccncef'lll'l11ion':i btlow N 1'100ftt'l0 limil

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Analytical Laboratory oMA
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Scientific Division

8270 GCMS Analysis Report

Attention:	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street, Suhe 304 Oakland, CA 94612	Date Sampled: Date Received: Date Analyzed:	Oct. 27, 1995 Oct.27, 1995 Oct. 31, 1995
Project#:		Project Name:	Cypress B Phoenix
Client ID:	T.SOLVSTOC1	LABID:	ST95·10-2746A
Matrix:	Soil	Dilution: 1;	1

Name	Amount	Reporting Limit	Units
Anthracene	480	330	ug/kg
Benzo (a) Anthracene	ND	330	ug/kg
Benzo (a) Pyrene	ND	330	ug/kg
Benzo (b) Fluoranthene	ND	330	ug/kg
Benzo (9, h, i) Perylene	ND	330	ug/kg
Benzo (k) Fluoranthene	ND	330	ug/kg
Benzoic Acid	ND	1600	uglkg
Benzyl Alcohol	ND	330	ug/kg
bis (- 2 • Chloroethoxy) Methane	ND	330	ug/kg
bis (• 2 • Chloroethyl) Ether	ND	330	uglkg
bis (2 - chloroisopropyl) Ether	ND	330	ug/kg
bis (2 • Ethylhexyl) Phthala1e	ND	330	uglkg
Butylbenzylphthalate	ND	330	uglkg
Chrysene	ND	330	uglkg
Di • N • Butylphlhalate	ND	330	ug/kg
Di • **N** · Octyl Phthalate	ND	330	uglkg
Dibenz (a, h) Anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	**uglkg**
Diethylphthalate	ND	330	ug/kg
Dimethyl Phthalate	ND	330	ug/kg
Fluoranthene	470	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	uglkg
Hexachlorobutadiene	NO	330	uglkg
Hexachlorocyclopentadiene	ND	330	ug/kg
Hexachloroethane	ND	330	ug/kg
lndeno (1,2,3 - cd) Pyrene	ND	330	uglkg
lsophorone	ND	330	uglkg
N • Nitroso - Di - Proe)'.lamine	ND	330	ug/kg

ppts) *Ot:ts* b!,lton ,., u,,'11:g • mMir,-i• o,er kllt19r;1m

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Analytical Laboratory OMsion
Mobile Laboratory DMsion
Scientific DMsion

8270 GCMS Analysis Report

Attention: Mr. Hamid Moshtaghi
Ogiso Environmental
1504 Franklin Street. Suite 304
Oakland, CA 94612

Date Sampled: Oct.27, 1995
Date Received: Oct. 27, 1995
Date Analyzed: Oct.31, 1995

Project#:

Project Name: Cypress B Phoenix

Client ID: T.SOLVSTOC1

LAB ID: ST95•10-2746A

Matrix: Soil

Dilution: 1: 1

Name	Amount	Reporting Limit	Units
N - Nitrosodiphenylamine	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
Nitrobenzene	ND	330	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	ug/kg
Pyrene	410	330	ug/kg

Surrogate % Recovery 2 - Fluorophenol = . 50%
Surrogate % Recovery Phenol • d6 = 49%
Surrogate % Recovery Nitrobenzene - d5 = 39%
Surrogate % Recovery 2 - Fluorobiphenyl • 42%
Surrogate % Recovery 2,4,6 • Tribromophenol = **59%**
Surrogate% Recovery Terphenyl • d14 = **42%**

IICIC s ptrU *p.tt* billian •YA•miffl),gl'8ffl•p1r c,gram
JIOl'I'IS pans por milion • U!)fv: rnbogtaMt *pet* or.1m
ND• Not DotDC10d. ComOOIA(l(tl may be.prcisan1at cc,ncennaans btilclw tho 1ml.

• Unknown aliphatic hydrocarbons were found to be present

R. L. James, Principal Chemist

Oct 31, 1995
Date Reported

SPARGER TECHNOLQG'I' ANALYTIGAL LABORA.TOFl'f, INC.ISCSRTIREOQV THE $1ATE OF CA.t.SORNtA
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Analytical Laboratory DM
Mobile LabOratory D
Scientific Division

8270 GCMS Analysis Report

Attention:	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street. Suite 304 Oakland, CA 94612	Date Sampled: **Date Received:** Oate Analyzed:	**OCt.27, 1995** Oct. 27, 1995 **Oct. 31, 1995**
Project *It:*		Project Name:	**Cypress B Phoenix**
Client ID:	T.SOLVSTOC2	LAB ID:	**ST95-10-2749A**
Matrix:	Soil	Dilution: 1:	**1**

Name	Amount	Reeortins limit	Units
1,2 - Dichlorobenzene	ND	330	**uglkg**
1,2,4 - Trichlorobenzene	ND	330	ug/kg
1,3 - Dichlorobenzene	ND	**330**	ug/kg
1.4 - Dichlorobenzene	ND	330	ug/kg
2 - Chloronaphthalene	ND	**330**	uglkg
2 • Chlorophenol	ND	330	ug/kg
2 - Methylnaphthalene	ND	**330**	uglkg
2 - Methylphenol	ND	330	ug/kg
2 - Nitrophenol	ND	330	ug/kg
2,4 - Dichlorophenol	**ND**	330	**ug/kg**
2,4 - Dimethylphenol	**ND**	**330**	**ug/kg**
2,4 • Dinitrophenol	ND	1600	ug/kg
2,4 - Dinitrotoluene	ND	**330**	**ug/kg**
2,4,5 - Trichlorophenol	ND	1600	uglkg
2,4,6 • Trichlorophenol	**ND**	**330**	**ug/kg**
2,6 • Dinitrotoluene	ND	330	ug/kg
2 - Nitroaniline	ND	**1600**	uglkg
3,3' - Dichlorobenzidine	**ND**	**660**	**ug/kg**
3 - Nitroaniline	ND	1600	**ug/kg**
4 • Bromophenyl - phenylether	**ND**	330	**ug/kg**
4 • Chloro - 3 - Methylphenol	ND	330	uglkg
4 - Chloroaniline	**NO**	330	ug/kg
4 - Methylphenol	**ND**	**330**	ug/kg
4 - Nitroaniline	ND	**1600**	**ug/kg**
4 - Nitrophenol	ND	1600	uglkg
4,6 - Dinitro - 2 - Methylphenol	ND	1600	**ug/kg**
4 - Chlorophenyl • phenylelher	ND	330	uglkg
Acenaphlhene	ND	330	ug/kg
Acenaphthl'.lene	ND	330	U!jlkg

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Analylicol Laboratory Division
Mobile Laboratory Division
Scientific Division

8270 GCMS Analysis Report

Attention;	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street. Suite 304 Oakland. CA 94612	Date Sampled: Date Received: Date Analyied:	**Oct. 27, 1995** Oct.27.1995 **Oct. 31, 1995**
Project#:		Project Name:	**Cypress** B Phoenix
Client ID;	T.SOLVSTOC2	LABID:	ST95-10-27**49A**
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Anthracene	ND	330	ug/kg
Benzo (a) Anthracene	ND	330	ug/kg
Benzo (a) Pyrene	ND	330	ug/kg
Benzo (b} Fluoranthene	ND	330	ug/kg
Benzo (g, h, i) Perytene	ND	**330**	ug/kg
Benzo (k) Fluoranthene	ND	330	ug/kg
Benzoic Acid	ND	1600	ug/kg
Benzyl Alcohol	ND	330	ug/kg
bis (• 2 • Chloroethoxy) Methane	ND	330	ug/kg
bis (- 2 • ChJoroethyl) Ether	ND	330	ug/kg
bis (2 • chloroisopropyl) Ether	ND	330	ug/kg
bis (2 • Ethylhexyl) Phthalate	ND	330	ug/kg
Butylbenzylphthalate	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Di • N • Butylphthalate	**ND**	**330**	ug/kg
Di • N • Octyl Phthalate	**ND**	330	ug/kg
Dibenz (a, h) Anthracene	NO	330	ug/kg
Dibenzofuren	ND	**330**	ug/kg
Diethylphthalate	**ND**	330	ug/kg
Dimethyl Phthalate	ND	**330**	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	**ND**	330	ug/kg
Hexachlorocyc!opentadiene	ND	330	ug/kg
Hexachloroethane	ND	330	ug/kg
lndeno (1,2,3 - cd) Pyrene	ND	330	ug/kg
tsophorone	ND	330	ug/kg
N - Nitroso - Di - Propylamine	ND	330	ug/kg

- II: **DUii P9f ballon-= UQ/kQ • ffllel l'llfl::pct k.:lo i\n**

gpm= p,.rtt r rn.lliOl', =l.lQt',;:= mQG9r;am:: pM 9t,11,"°1

NO - NQl Otttct•Cl. Compor,ind(1) M6y t,c, pO$Cn1 at ccncentraron, b•low U'llil ing limit.

Page 3 of 3

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Analytical laboratory **DMA**
Mobile laboratory **OMsIII'**
Scientific DMslon

8270 GCMS Analysis Report

Attention: Mr. Hamid Moshtaghi
Ogiso Environmental
1504 Franklin Street, Suite 304
Oakland, CA 94612

Date Sampled: Oct. 27, 1995
Date Received: Oct. 27, 1995
Date Analyzed: Oct. 31, 1995

Project#;

Project Name: Cypress B Phoenix

Client 10: T.SOLVSTOC2

LAB ID: ST95-10-2749A

Matrix: Soil

Dilution: 1: 1

Name	Amount	Reporting Limit	Units
N • Nitrosodiphenylamine	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
Nitrobenzene	ND	330	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenanthrene	ND	330	uq/kq
Phenol	NO	330	ug/kg
Pyrene	ND	330	ug/kg

Surrogate % Recovery 2 - Fluorophenol = **45%**
Surrogate % Recovery Phenol - d6 = 41o/o
Surrogate % Recovery Nitrobenzene - d5 = 36%
Surrogate % Recovery 2 - Fluorobiphenyl = 41%
Surrogate% Recovery 2,4,6- Tribromophenot = 56%
Surrogate% Recovery Terpheny!- d14 = 40"/4

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ppi)• par\& per bllliMs ui,\;• m Ptrtclo0'9M
ppm:i;: p&rtJ Oli' Mllion .. """9- "'CfO!JrM\I oer ;ratn
ND: Nol Oelected. Cotti :,) fflf)' bl ortMl'lt ti t.:Ol'lcarrtlncll1,; blro- Ille hit.

- **Unknown aliphatic hydrocarbons were found to be present**

R. L. James, Principal Chemist

Oct 31, 1995
Dato Repo ed

SPA.AGER TECHNol.OGY ANAi..VTICAl LABORATORY, INC. IS CEATIFIEO BV 'THE. $TATE Of CAUfORNI,-,
0£ AATMENT OFHSALTH $ERVIC!S AS A HAliRDOUS WASTE TESTING L.Aa0AA.'10AV
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• Spargero
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Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8270 GCMS Analysis Report

Attention: Mr. Hamid Moshtaghi
Ogiso Environmental
1504 Franklin Street. Suite 304
Oakland, CA 94612

Date Sampled: Oct. 27, 1995
Date Received: Oct. 27, 1995
Date Analyzed: Oct. 31, 1995

Project#:

Project Name: Cypress B Phoenix

Client ID: T.SOLVSTOC3

LABID: ST95-10-2752A

Matrix: Soil

Dilution: 1: 1

Name	Amount	Reporting Limit	Units
1,2 - Dichlorobenzene	ND	330	ug/kg
1,2.4 - Trichlorobenzene	ND	330	ug/kg
1,3 - Oichlorobenzene	NO	330	ug/kg
1,4 - Oichlorobenzene	NO	330	ug/kg
2 - Chloronaphthalene	NO	330	**ug/kg**
2 - Chlorophenol	ND	330	ug/kg
2 - Methylnaphthalene	ND	330	**ug/kg**
2 • Methytphenol	ND	330	ug/kg
2 • Nitrophenol	ND	**330**	**ug/kg**
2,4 - Dichlorophenol	ND	330	ug/kg
2,4 - Dimethylphenol	ND	330	ug/kg
2,4 • Dinitrophenol	ND	1600	ug/kg
2,4 - Dinitrotoluene	ND	330	ug/kg
2,4,5 - Trichlorophenol	NO	1600	**ug/kg**
2,4,6 - Trichlorophenol	**ND**	330	ug/kg
2,6 • Oinitrotoluene	ND	**330**	ug/kg
2 - Nitroaniline	ND	1600	ug/kg
3,3' • Oichlorobenzidine	ND	660	ug/kg
3 - Nitroaniline	NO	1600	ug/kg
4 - Bromophenyl - phenylether	ND	330	**ug/kg**
4 • Chloro - 3 - Methylphenol	ND	330	ug/kg
4 • Chloroaniline	ND	330	ug/kg
4 - Me\hylphenol	ND	330	ug/kg
4 - Nitroaniline	ND	1600	ug/kg
4 - Nitrophenot	ND	1600	ug/kg
4,6 - Oinitro - 2 - Methylphenol	ND	1600	ug/kg
4 - Chlorophenyl - phenylether	ND	330	ug/kg
Acenaphthene	ND	330	ug/kg
Acenaphthylene	NO	330	ug/kg

=pam per bltllon ,. ug/kG .. ı'ı'ıa $per kilogram

i,om:= Dal1& *pat* mHliOl'l a UO';- ■▔ ■▔ _ p$r gr11,m

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Analytical laboratory DM-
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Scientific DMslon

8270 GCMS Analysis Report

Attention:	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street, Suite 304 Oakland, CA 94612	Date Sampled: Date Received: Date Analyzed:	Oct. 27, 1995 Oct. 27, 1995 Oct.31, 1995
Project#:		Project Name:	Cypress B Phoenix
Client 10:	T.SOLVSTOC3	LABID:	ST95-10·2752A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reportina Limit	Un s
Anthracene	ND	330	ug/kg
Benzo (a) Anlhracene	ND	330	ug/kg
Benzo (a) Pyrene	ND	330	ug/kg
Benzo (b) Fluoranthene	ND	330	ug/kg
Benzo (g, h, i) Perylene	ND	330	ug/kg
Benzo (k) Ruoranlhene	ND	330	ug/kg
Benzoic Acid	ND	1600	ug/kg
Benzyl Alcohol	ND	330	ug/kg
bis (- 2 - Chloroethoxy) Methane	NO	330	ug/kg
bis (• 2 • Chloroethyl) Ether	ND	330	ug/kg
bis (2 - chloroisopropyl) Ether	ND	330	ug/kg
bis (2 • Ethylhexyt) Phthalate	ND	330	ug/kg
Butylbenzylphthalate	ND	330	ug/kg
Ch,ysene	ND	330	ug/kg
Di· N • Butylphthalate	NO	330	ug/kg
Di • N • Octyt Phthalate	ND	330	ug/kg
Dibenz (a, h) Anthracene	ND	330	ug/kg
Diben2ofuran	ND	330	ug/kg
Oiethylphthalate	ND	330	ug/kg
Dimethyl Phthalate	ND	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	NO	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopentadiene	ND	330	ug/kg
Hexachloroethane	ND	330	ug/kg
Indeno (1,2,3 • cd) Pyrene	ND	330	ug/kg
Isophorone	ND	330	ug/kg
N • Nrtroso - Di - Prop Jamine	ND	330	ug/ke

Pl>b s D&rls. billion - u;11<g = rM,,. rirt\t: oe, kiioQr;,""

pprtl:a P3,t11t Nt million: ffi!CtOgtl.fflS f pm

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Sparger Technology, Inc.
With Automation in Mind

Analytical laboratory Division
Mobile Laboratory OMslon
Scientific Division

8270 GCMS Analysis Report

Attention:	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street. Suite 304 Oakland, CA 94612	Date Sampled: Date Received: Date Analyzed:	Oct. 27, 1995 Oct. 27, 1995 Oct. **31,** 1995
Project#;		Project Name:	Cypress **8** Phoenix
Client ID:	li,SOL.VSTOC3	LABID:	ST95-10-2752A
Matrix:	Soil	Diluti6n; 1;	,

Name	Amount	Reporting Limit	Units
N - Nitrosodiphenylamine	ND	330	ug/kg
Naphthalene	ND	330	.ug/kg
Nitrobenzene	ND	330	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	ug/kg
Pyrene	ND	330	ug/kg

Surrogate % Recovery **2** - Fluorophenol =	50%
Surrogate % Recovery Phenol - d6 =	50%
Surrogate % Recovery Nitrobenzene - **d5** s	39%
Surrogate % Recovery 2 - Fluorobiphenyl =	41%
Surrogate% Recovery 2,4,6 - Tribromophenol =	63%
Surrogate% Recovery Terphenyl-d14 =	40%

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PPft- po,million•111Cf00rtml p.rlf'llffl
NO• Not Dotectvo. ■ ■ ➤ may Dt PftU"t at ratlont belOW lt'l taponi1g limll.

• **Unknown aliphatic hydrocarbons were found to be present**

R.L James, Pnncipal Chemist

Oct 31, 1995
Date Reported

Spargero
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Analytical Laboratory DMsA
Mobile Laboratory DMsW
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8270 GCMS Analysis Report

Attention:	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street. Suite 304 Oakland, CA 94612	Date Sampled: Date Received: Date Analyzed:	Oct. 27, 1995 Oct. 27, 1995 Oct 31, 1995
Project#:		Project Name:	Cypress B Phoenix
Client ID:	T.SOLVSTOC4	LABID:	ST95-10-2755A
Matrix:	Soll	Dilution: 1:	1

Name	Amount	Reeorting Limit	Units
1,2 - Dichlorobenzene	ND	330	ug/kg
1,2,4 - Trichlorobenzene	ND	330	ug/kg
1,3 • Dichlorobenzene	ND	330	ug/kg
1,4 - Dichlorobenzene	ND	330	ug/kg
2 - Chloronaphthalene	ND	330	ug/kg
2 - Chlorophenol	ND	330	ug/kg
2 - Methylnaphthalene	ND	330	ug/kg
2 • Methylphenol	ND	330	ug/kg
2 - Nitrophenol	ND	330	uglkg
2,4 - Oichlorophenol	ND	330	ug/kg
2,4 • Dimethylphenol	ND	330	ug/kg
2.4 • Dinitrophenol	ND	1600	**ug/kg**
2,4 • Oinitrotoluene	ND	330	**ug/kg**
2,4,5 - Triehlorophenol	**ND**	1600	• ug/kg
2.4,6 • Trichlorophenol	ND	330	u91kg
2,6 • Dinitrotoluene	ND	330	ug/kg
2 - Nitroaniline	ND	1600	ug/kg
3,3' - Dichlorobenzidine	ND	660	ug/kg
3 • Nitroaniline	ND	1600	ug/kg
4 • Bromophenyl • phenylether	ND	330	ug/kg
4 - Chiaro - 3 - Methytphenol	ND	330	ug/kg
4 - Chloroaniline	ND	330	ug/kg
4 - Methylphenol	ND	330	ug/kg
4 - Nitroaniline	ND	1600	ug/kg
4 • Nitrophenol	ND	1600	ug/kg
4,6 - Dinitro - 2 • Methylphenol	ND	1600	ug/kg
4 • Chlorophenyl • phenylether	ND	330	ug/kg
Acenaphthene	ND	330	ug/kg
Acenaphlh)!lene	ND	330	ug/kg

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pPrt'P Politl per m!Jlon"' uglgz micl'09"flr7't PQr gram

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With Automation in Mind

Analytical Laboratory DMsion
Mobile Laboratory DMsion
Scientific DMsIon

8270 GCMS Analysis Report

Attention: Mr. Hamid Moshtaghi
Ogiso Environmental
1504 Franklin Street, Suite 304
Oakland, CA 94612

Date Sampled: Oct. 27, 1995
Date Received: Oct. 27, 1995
Date Analyzed: Oct.31, 1995

Project#:

Project Name: Cypress B Phoenix

Client 10: T.SOLVSTOC4

LABID; ST95•10-27SSA

Matrix: Soil

Dilution: 1: 1

Name	Amount	Reporting Limit	Units
Anthracene	NO	330	ug/kg
Benzo (a) Anthracene	NO	330	ug/kg
Benzo (a) Pyrene	ND	330	ug/kg
Benzo (b) Fluoranthene	NO	330	ug/kg
Benzo (g, h, i) Pery!ene	ND	330	ug/kg
Benzo (k) Fluoranthene	ND	330	ug/kg
Benzoic Acid	NO	1600	ug/kg
Benzyl Alcohol	NO	330	ug/kg
bis (• 2 • Chloroethoxy) Methane	ND	330	ug/kg
bis (• 2 • Chloroethy0 Ether	NO	330	ug/kg
bis (2 • chloroisopropyl) Ether	ND	330	ug/kg
bis (2 • Elhylhexyl) Phthalate	NO	330	ug/kg
Butylbenzylphlhalate	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Di • N • Butylphthalate	NO	330	ug/kg
Di • N • Octyl Phthalate	NO	330	ug/kg
Dibenz (a. h) Anthracene	ND	330	ug/kg
Dibenzofuran	NO	330	ug/kg
Dielhylphthalate	ND	330	ug/kg
Dimethyl Phthalate	NO	330	ug/kg
Fluoranthene	ND	330	Ug/kg
Ftuorene	NO	330	ug/kg
Hexachlorobenzene	NO	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopentadiene	ND	330	ug/kg
Hexachloroethane	ND	330	ug/kg
Indeno (1,2,3 • cd) Pyrene	ND	330	ug/kg
Isophorone	ND	330	ug/kg
N • Nitroso • Di - Propylamine	ND	330	ug/Kg

ppb = parts per billion = ug/kg = micrograms per kilogram

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Page 3 of 3
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Mobile Laboratory **DMsW**
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8270 GCMS Analysis Report

Attention:	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin S1reet, Suite 304 Oakland, CA 94612	Date Sampled: Date Received: Date Analyzed:	Oct. 27, 1995 Oct. 27, 1995 Oct. 31, 1995
Project#:		Project Name:	Cypress B Phoenix
Client ID:	T.SOLVSTOC4	LAB 10:	ST95·10•2755A
Matrix:	Soil	Dilution: 1'.	1

Name	Amount	Reporting Limit	Units
N - Nitrosodiphenylamine	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
N robenzene	ND	330	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	ug/kg
Pyrene	ND	330	ug/kg

Surrogate % Recovery 2 • Fluorophenol •	38%
Surrogate % Recovery Phenol • d6 -	39%
Surrogate % Recovery Nitrobem:ene • d5 •	32%
Surrogate % Recovery 2 • Fluorobiphenyl •	37%
Surrogate % Recovery 2.4.6 - Tribromophenol .,	67%
Sunogate % Recovery Terphenyf • d14 •	47%

ppb s NIU 1111' Dac..-.• uglkg • mk:rooramt • lcilDgro111
PP"II= PINI PM fflilion • 199"' .,.,p:am
NO"' Plot OWCltd. C:im may De pl'nol'lfl a conc.ntTUfcnl Nlaw lh9 lln'lil.

- Unknown aliphatic hydrocarbons were found to be present

R. I.. James. Principal Chemist

Oct 31, 1995
Date Reportec!

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Analytical Laboratory DMslon
Mobile Laboratory DMsion
SClentilic DMsion

8270 GCMS Analysis Report

Attention:	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street, Suite 304 Oakland, CA 94612	Date Sampled: **Date Received:** **Date Analyzed:**	Oct. 27, 1995 Oct. 27, 1995 Oct 31, 1995
Project#:		Project Name:	**Cypress B** Phoenix
Client ID:	T.SOLVSTOC5	**LABID:**	**ST9S-10-2758A**
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
1,2 - Dichlorobenzene	ND	330	uglkg
1,2,4 - Trichlorobenzene	ND	330	uglkg
1,3 - Dichlorobenzene	ND	330	ug/kg
1,4 • Dichlorobenzene	**ND**	330	ug/kg
2 - Chloronaphthalene	ND	330	ug/kg
2 - Chlorophenol	ND	330	ug/kg
2 - Methylnaphthalene	**ND**	330	ug/kg
2 - Methylphenol	ND	**330**	ug/kg
2 - Nitrophenol	ND	**330**	ug/kg
2,4 - Dichlorophenol	**ND**	330	**ug/kg**
2,4 • Dimethylphenol	**ND**	**330**	**ug/kg**
2,4 - Dinitrophenol	**ND**	1600	ug/kg
2,4 - Dinitrotoluene	ND	**330**	ug/kg
2.4,5 - Triehlorophenol	**ND**	1600	**ug/kg**
2.4,6 - Triehlorophenol	**ND**	**330**	**ug/kg**
2,6 • Dinitrotoluene	**Ntl**	**330**	**ug/kg**
2 - Nitroaniline	**ND**	**1600**	ug/kg
3,3' - Dichlorobenzidine	**ND**	**680**	**ug/kg**
3 - Nitroaniline	**ND**	**1600**	**ug/kg**
4 • Bromophe nyl - phenylether	**ND**	**330**	ug/kg
4 - Chiaro - 3 - Methylphenol	**NO**	**330**	ug/kg
4 - Chloroaniline	ND	**330**	**ug/kg**
4 · Methylphenol	**ND**	**330**	ug/kg
4 - Nitroaniline	ND	1600	ug/kg
4 · Nitrophenol	ND	1600	ug/kg
4,6 - Dinitro - 2 - Methylphenol	ND	1600	ug/kg
4 - Chlorophenyl - phenylether	ND	330	ug/kg
Acenaphthene	ND	330	Ug/kg
Acenaphthylene	ND	330	ug/kg

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Page 2 of3

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Analylicol Laboratory DMsA
Mobile LabOratory DMsJ!IIII'
Scientific Division

8270 GCMS Analysis Report

Attention:	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street, Suite 304 Oakland, CA 94612	Date Sampled: Date Received; Date Analyzed:	Oct. 27, 1995 Oct. 27, 1995 Oct.31, 1995
Project#;		Project Name:	Cypress B Phoenix
Cfrent ID:	T.SOLVSTOC5	LAB ID:	ST95-10-2758A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Anthracene	ND	330	ug/kg
Benzo (a) Anthracene	ND	330	uglkg
Benzo (a) Pyrene	ND	330	ug/kg
Benzo (b) Fluoranthene	ND	330	uglkg
Benzo (g, h, i) Peiylene	ND	330	ug/kg
Benzo (k) Fluoranthene	ND	330	uglkg
Benzoic Acid	ND	1600	uglkg
BenzyJ Alcohol	ND	330	ug/kg
bis (- 2 - Chloroelhoxy) Methane	ND	330	ug/kg
bis (• 2 • Chloroethyl) Ether	ND	330	ug/kg
bis (2 - chloroisopropyl) Ether	ND	330	ug/kg
bis (2• Ethythexy1) Phthalate	ND	330	ug/kg
Butylbenzylphthalate	ND	330	ug/kg
Chrysene	ND	330	uglkg
Di • N • Butylphthalate	ND	330	ug/kg
Di • N • Octyl Phthalate	ND	330	ug/kg
Dibenz (a. h) Anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	uglkg
Diethylphthalate	ND	330	ug/kg
Dimethyl Phthalate	ND	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopentadiene	ND	330	uglkg
Hexachloroethane	ND	330	ug/kg
Indeno (1,2.3 - cd) Pyrene	ND	330	ug/kg
Isophorone	ND	330	ug/kg
N • Nitroso - Di - Propylamine	ND	330	ug/kg

= parts per million = ug/g= micrograms per gram

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Analytical Laboratory DMslon
Mobile Laboratory Division
Scientific DMsion

8270 GCMS Analysis Report

Attention: Mr. Hamid Moshtaghi
Ogiso Environmental
1504 Franklin Street, Suite 304
Oakland, CA 94612

Dale Sampled: Oct.27.1995
Date Received: Oct.27,1995
Date Analyzed: Oct. 31, 1995

Project#:

Project Name: Cypress **B** Phoenix

Client ID: T.SOLVSTOCS

LAB ID: ST95;10-2758A

Matrix: Soil

Dilution: 1: 1

Name	Amount	Reporting Limit	Units
N • Nitrosodiphenylamine	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
Nitrobenzene	ND	330	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	uglkg
Pyrene	ND	330	ug/kg

Surrogate % Recovery 2 • Fluorophenol ..	47"k
Surrogate % Recovery Phenol • d6 =	47%
Surrogate % Recovery Nitrobenzene - dS •	37%
Surrogate % Recovery 2 - Fluorobiphenyl =	41%
Surrogate % Recovery 2,4,6 - Tribromophenol =	62%
Surrogate% Recovery Terphenyl • d14 •	46%

Ol)b"' Plllf:t per blnion a u;&u • mbogian.a pa, kilogmm
Pfl' fflllOn • U0'9- ffl I f7Mn
NO= Nal D.lllilcted. COMpai,n:l(.s}may be prmiont 1P1 MIOW' 1M 11ml.

R. L. Jamos, Prineipol Chemist

Oct 31, 1995
Date Reponed

SPARGER TECHN0i.0GY ANALVTJC,\L LABORATORY, INC. IS CERTIRa) 8Y THE STATE OF CALIFORN!A
DEPARTMENT OF HEAL.TM SERVICES AS A H.I.ZARDOUS WASTE TESTING LA9QFIAT0AY
(Cbrtir. uon No. 16 ,)

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Analytical Laboratory Divi-·
Mobile Laboratory DM
Scientific Division

8270 GCMS Analysis Report

Attention:	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street. Suite 304 Oakland, CA 94612	Date Sampled: Date Received: Date Analyzed:	Oct. 27, 1995 Oct.27, 1995 Oct. 31, 1995
Project#:		Project Name:	Cypress B Phoenix
Client ID:	T.SOLVSTOC6	LAB ID:	ST95-10·2761A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reportin9 Limit	Units
1,2 - Dichlorobenzene	ND	330	Ug/kg
1,2,4 • Trichlorobenzene	ND	330	ug/kg
1,3 - Oichlorobenzene	ND	330	ug/kg
1,4 - Dichlorobenzene	ND	330	ug/kg
2 • Chloronaph1halene	ND	330	ug/kg
2 • Chlorophenol	ND	330	ug/kg
2 - Methylnaphthalene	ND	330	ug/kg
2 • Methylphenol	ND	330	ug/kg
2 · Nitrophenol	ND	330	ug/kg
2,4 - Oichlorophenol	ND	330	ug/kg
2,4 • Dlmethylphenol	NO	330	ug/kg
2,4 • Oinitrophenol	ND	1600	ug/kg
2,4 - Dlnilrotoluene	ND	330	ug/kg
2,4,5 - Trichlorophenol	ND	1600	ug/kg
2,4,6 • Trichlorophenol	ND	330	ug/kg
2,6 • Dinilrotoluene	ND	330	ug/kg
2 - Nilroaniline	ND	1600	ug/kg
3,3' • Dichlorobenzidine	ND	660	**ug/kg**
3 • Nitroanlline	ND	1600	ug/kg
4 • Bromophenyl • phenylether	ND	330	ug/kg
4 · Chloro - 3 • Methylphenol	ND	330	ug/kg
4 - Chloroaniline	ND	330	uglkg
4 • Melhyfphenol	ND	330	ug/kg
4 • Nitroaniline	ND	1600	ug/kg
4 • Nitrophenol	ND	1600	ug/kg
4,6 • Dinitro • 2 • Methylphenol	ND	1600	uglkg
4 · Chlorophenyl - phenylether	ND	330	ug/kg
Acenaphlhene	ND	330	ug/kg
Acenaphth)'.lene	ND	330	U!jlkQ

i,tJb .. ,n oer blQlOn & uo,'\g • m4crogram• r kilogram

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Analytical Laboratory Division
Mobile Laboratory DMsion
Scientific DMsion

8270 GCMS Analysis Report

Attention: Mr, Hamid Moshtaghi
Ogiso Environmental
1504 Franklin Street Suite 304
Oakland. CA 94612

Date Sampled: Oct. 27, 1995
Date Received: Oct. 27, 1995
Date Analyzed: Oct. 31, 1995

Project#:

Project Name: Cypress B Phoenix

Client ID: T.SOLVSTOC6

LAB ID: ST95-10-2761A

Matrix: Soil

Dilution: 1: 1

Name	Amount	Reporting Limit	Units
Anthracene	ND	330	ug/kg
Benzo (a) Anthracene	ND	330	ug/kg
Benzo (a) Pyrene	ND	330	ug/kg
Benzo (b) Fluoranthene	ND	330	ug/kg
Benzo (g, h. i) Perylene	ND	330	ug/kg
Benzo (k) Fluoranthene	ND	330	ug/kg
Benzoic Acid	ND	1600	ug/kg
Benzyf Alcohol	ND	330	ug/kg
bis (• 2 • Chloroethoxy) Methane	ND	330	ug/kg
bis (• 2 • Chloroethyl) Ether	ND	330	ug/kg
bis (2 • chloroisopropyl) Ether	ND	330	ug/kg
bis (2 • Ethylhexyl) Phthalate	ND	330	ug/kg
Butylbenzyfphthalate	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Di • N - Butylphthalate	ND	330	ug/kg
Di • N • Octyl Phthalate	ND	330	ug/kg
Dibel'lZ (a, h) Anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	ug/kg
Diethylphthalate	ND	330	ug/kg
Dimethyl Phthalate	NO	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocycfopentadiene	ND	330	ug/kg
Hexachloroethane	ND	330	ug/kg
Indeno {1,2,3 • cd) Pyrene	ND	330	ug/kg
Isophorone	ND	330	ug/kg
N - Nitroso • Di - Propylamine	ND	330	ug/kg

ppbtPIRI pa,b.Uion R • .un$ l)ft trwn

PPffle oam p&r mllio.i"' uglp=: mlcro s: par gram

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Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory **DMsa**
Mobile Laboratory **DM-.i,**
Scientillc DMSion

8270 GCMS Analysis Report

Attention:	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street. Suite 304 Oakland, CA 94612	Date Sampled: Date Received: Date Analyzed:	Oct. 27, 1995 Oct. 27. 1995 Oct. 31, 1995
Project#:		Project Name:	Cypress B Phoenix
Client ID:	T.SOLVSTOC6	LAB ID:	ST95-10-2761A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
N - Nitrosodiphenylamine	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
Nitrobenzene	ND	330	ug/kg
Penlachlorophenol	ND	1600	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	ug/kg
Pyrene	ND	330	ug/kg

Surrogate % Recovery 2 - Fluorophenol =	45%
Surrogate % Recovery Phenol - d6 •	44%
Surrogate % Recovery Nitrobenzene • d5 ..	39%
Surrogate % Recovery 2 • Fluorobiphenyt =	41%
Surrogate% Recovery 2.4,6 - Tribromophenol =	51%
Surrogate% Recovery Terphenyt • **d14** a	33%

5IPb • oarts oar billiatl z UOl\r; - micragram1 PlfklOQl"lffi
ppm,: Plftl oermilliOl'l • *u;t;*- micfO!Jram1perg,am
NO ,. Nol Dlttdfld. Campm,.,d(s) may DI ,orueM M wtow"hMportingi limlr.

- **Unknown aliphatic hydrocarbons were found to be present**

R. L. James, Principal Chemist

Oct 31, 1995
Date Reported

SPARGEF\ TECHNOLOGY ANAL'ITICAL LA801\A.TOFrf,INC, IS CEA'nFIED BY THE :;-rATE OF CALIFORNIA
OEPAATMENT a,: HEALTH Sef!MCEs AS A.HAZARDOUS WAST&: T&STING 1.A&Of\ATOFIV
(Ce,rtifc:::l!ior, No. 16141

SPARGER TECHNOLOGY, INC.
Analytical Laboratory
3050 Fite Circle, #112, Sacramento, CA 95827
Phone: (916) 362-8947
FAX: (916) 362-0947

Company: OGISO
Phone: (510) 451-5771
Project Manager: Hamid Moshtaghi
FAX: (510) 451-5773
Report Address: 1504 Franklin St #300 Oakland, CA 94612
Billing Name & Address: 150 W. Iowa Av. #200 Sunnyvale, CA 94086
Project Name: Cypress B Phoenix
Project/Job#:
Project Location: Oakland
P.O.#:

ANALYSIS REQUEST

REMARKS:

Sampler's Name:

		All OK	None OK	Some OK
Cooler Temp.	°C			
Sample Condition				
pH				

WET(STLC)
TCLP
[✓ Total]

NO.	SAMPLE ID	Sampling Date	Sampling Time	Container 40 mL VOA	Container Brass Sleeve	Container 1 L amber bottle	Container 250 mL Plastic	Container Other:	Preservative Used HCl/HNO3/ICE	Preservative Used None	Preservative Used Other:	Matrix Water	Matrix Soil	Matrix Air	Matrix Other:
1	T. SOLVSTOC1	10/27			✓								✓		
2	T. SOLVSTOC2	↓			↓								↓		
3	T. SOLVSTOC3	↓			↓								↓		
4	T. SOLVSTOC4	↓			↓								↓		
5	T. SOLVSTOC5	↓			↓								↓		
6	T. SOLVSTOC6	↓			↓								↓		
7	T. SUMPSTOC1	↓			↓								↓		
8	T. SUMPSTOC2	↓			↓								↓		
9	~~T. SUMPSTOC3~~	↓			↓								↓		
10															

NO.	BTEX (602/8020)503.1	BTEX/TPHgas (602/8020/8015)	TPHdiesel/TPHmotor oil/kerosene(8015)	EPA 601/8010/502.2/504	EPA 602/8020	EPA 608/8080 (Pesticides)/505/508	EPA 608/8080 (PCB'S)	EPA 624/8240/524.2	EPA 625/8270/525	Total Oil & Grease (5520)	Non-Polar O & G/TRPH (418.1)	Organic Lead	RCI		CAM-17 Metals	CAM-5 Metals (Cd, Cr, Pb, Ni, Zn)	Lead		Standard 5-day
1								✓	✓						✓				✓
2								✓	✓						✓				↓
3								✓	✓						✓				↓
4								✓	✓						✓				↓
5								✓	✓						✓				↓
6								✓	✓						✓				↓
7								✓	✓	✓	✓				✓				↓
8								✓	✓	✓	✓				✓				↓
9								~~✓~~	~~✓~~	~~✓~~	~~✓~~				~~✓~~				↓
10																			✓

Relinquished by:		Received by:	
Date: 10/27	Time: 4:10 pm	Date: 10/27/95	Time: 4:10
Relinquished by:		Received by:	
Date:	Time:	Date:	Time:

PLEASE READ REVERSE SIDE FOR TERMS AND CONDITIONS

Spargero
! ,l29Y nc.

Analytical lobOrotory DMsi•
Mobile laboratory **DivisiW**
Scientific DMsion

Metals, CAM 17
EPA Method 6010/7000 Modified

Attention:	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street,# 304 Oakland, CA 94612	Date Sampled: Date Received: Date Analyzed:	Oct 27, 1995 Oct 27, 1995 Oct 31, 1995
Project#:		Project Name:	Cypress B Phoenix
Client ID:	T.SOLVSTOC1	LABID:	ST95-10-2747A
Matrix:	Soil	Dilution:	

Name	Amount	Reporting Limit	Units
Antimony (Sb)	ND	6.0	mg/Kg
Arsenic **(As)**	ND	10	mg/Kg
Barium (Ba)	,SO	10	mg/Kg
Beryllium (Be)	ND	0.50	mg/Kg
Cadmium (Cd)	0.60	0.50	mg/Kg
Chromium (Cr)	39	1.0	mg/Kg
CObalt (Co)	6.B	5.0	mg/Kg
COpper(Cu)	50	2.5	mg/Kg
Lead (Pb)	1900	2.0	mg/Kg
Mercury (Hg)	0.13	0.010	mg/K9
Molybdenum (Mo)	ND	4.0	**mg/Kg**
Nickel (Ni)	24	**4.0**	mg/Kg
Selenium (Se)	ND	10	mg/Kg
Silver (Ag)	ND	1.0	mg/Kg
Thallium (Tl)	ND	10	**mg/Kg**
Vanadium (V)	27	5.0	**mg/Kg**
Zinc (Zn)	220	1.5	**mg/Kg**

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R. L. James, Principal Chomlst

Nov 1, 1995
Date

SPARGER TECHNOLOGY ANALYTICAi. t.A.90AAT0RV. INC. IS CERTlfiEU: BV TH! STATE Of:: CALIl=O;;tNIA.
OEPARTMENT QI:" MEi.ALTH SE!=IVICE:$ A$ A HAZAf'DOU:5" WASTE TESTING LABORATORY
(CJ,rtifiwl:io-, 11.o. •e1.i)

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Technology nc.
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Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

Metals, CAM 17
EPA Method so1onooo Modified

Attention:	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street, # 304 Oakland, CA 94612	Date Sampled: Date Received: Date Analyzed:	Oct 27. 1995 Oct 27, 1995 Oct 31, 1995
Project#:		Project Name:	Cypress B Phoenix
Client ID:	T.SOLVSTOC2	LABID:	ST95-10-2750A
Matrix:	Soil	Dilution:	

Name	Amount	Reporting Limit	Units
Antimony (Sb)	ND	6.0	mg/Kg
Arsenic (As)	ND	10	mg/Kg
Barium (Ba)	130	10	mg/Kg
Beryllium (Be)	ND	0.50	mg/Kg
Cadmium (Cd)	ND	0.50	mg/Kg
Chromium (Cr)	38	1.0	mg/Kg
Cobalt (CO)	5.9	5.0	mg/Kg
Copper (Cu)	46	2.5	mg/Kg
Lead (Pb)	1400	2.0	mg/Kg
Mercury (Hg)	0.070	0.010	mg/Kg
Molybdenum (Mo)	ND	4.0	mg/Kg
Nickel (Nij	24	4.0	mg/Kg
Selenium (Se)	ND	10	mg/Kg
Sliver (Ag)	ND	1.0	mg/Kg
Thallium (Tl)	ND	10	mg/Kg
Vanadium (V)	25	5.0	mg/Kg
Zinc (Zn)	180	1.5	mg/Kg

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A. L. James, Principal Ctlemist

Nov., 1995
Date

SPARGER TECH OIOGY ANALYTICAL L.ABORA70AY. INC. IS CEATIAEO BY THE STA. OF CALIFORN!A
OEflART'-ENT OF MEAL'TH SERVICES AS ;,,H.\Z.AAOOUS WASTE TI.STING LA80MTOAY
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Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory **DMsiqa**
Mobile Laboratory **DMsicl9**
Scientific DMsion

Metals, CAM 17
EPA Method so1on000 Modified

Attention:	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street, *It* 304 Oakland, CA 94612	Date Sampled: Date Received: **Date Analyzed:**	Oct 27. 1995 Oct 27, 1995 Oct 31, **1995**
Project II:		Project Name:	Cypress 8 Phoenix
Client ID:	T.SOLVSTOC3	LAB ID:	ST95-10-2753A
Matrix:	Soil	Dilution:	

Name	Amount	Reporting Limit	Units
Antimony (Sb)	ND	6.0	mg/Kg
Arsenic (As)	ND	10	mg/Kg
Barium (Ba)	120	10	mg/Kg
Beryllium (Be)	ND	O.SO	mg/Kg
Cadmium (Cd)	NO	0.50	mg/Kg
Chromium (Cr)	35	1.0	mg/Kg
Cobalt (Co)	6.3	5.0	**mg/Kg**
Copper{Cu)	34	2.5	**mg/Kg**
Lead {Pb)	550	2.0	mg/Kg
Mercury (Hg)	0.093	0.010	mg/Kg
Molybdenum (Mo)	ND	4.0	mg/Kg
Nickel (Ni}	23	**4.0**	mg/Kg
Selenium (Se)	ND	10	mg/Kg.
Silver (Ag)	ND	1.0	mg/Kg
Thallium {Tl)	NO	10	mg/Kg
Vanadium (VJ	25	5.0	mg/Kg
Zinc (Zn)	,SO	**1.5**	mg/Kg

PMSp,rni, :i•1119'1(g.,. perKlooraffl
kD • Nol Dotoc:tad. Compound{) fq,)' be*OIU*.. 11 COl'\Olfllfalla NIOw lite limit.

Fl. l. James. Principal Chemist

Nov 1, 1995
Date

S II.AG T'lii:>WOt,.OG.Y ANALYTICAL L>,BOM.TORY. 1-.,C. ti CeAT1F1EO BYTI-tE STATE *OF* CALIFORNIA
OEPA TMENT OF Hl:ALTH SERVICES AS A MAJ! OOUS WA.STE TESTINC LABORATORY
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Technology nc.
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Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

Metals, CAM 17
EPA Method so1on000 Modified

Attention:	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street,# 304 Oakland, CA 94612	Date Sampled: Date Received: Date Analyzed:	Oct 27, 1995 Oct 27, 1995 Oct 31, 1995
Project#:		Project Name:	Cypress B Phoenix
Client 10:	T.SOLVSTOC4	LABID;	ST95-10-2756A
Matrix:	Soil	Dilution:	

Name	Amount	Reporting Limit	Units
Antimony (Sb)	ND	6.0	mg/Kg
Arsenic (As)	ND	10	mg/Kg
Barium (Ba)	43	10	mg/Kg
Beryllium (Be)	ND	0.50	mg/Kg
Cadmium (Cd)	ND	0.50	mg/Kg
Chromium (Cr)	29	1.0	mg/Kg
Cobalt (Co)	5.4	5.0	mg/Kg
Copper (Cu)	12	2.5	mg/Kg
Lead (Pb)	52	2.0	mg/Kg
Mercury (Hg)	0.022	0.010	mg/Kg
Molybdenum (Mo)	NO	4.0	mg/Kg
Nickel (Ni)	24	4.0	mg/Kg
Selenium (Se)	ND	10	mg/Kg
Silver (Ag)	ND	1.0	mg/Kg
Thallium (Tl)	NO	10	mg/Kg
Vanadium (V)	21	5.0	mg/Kg
Zinc (Zn)	59	1.5	mg/Kg

ppm,.- <l:;. *PGI* millon• ffl911(r;i ,..1t1Jligl4'1'1\ per Kilogrtm
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R. L. James. Principal Coemist

Nov 1, 1995
Data

sPAAGE:fi TECHNOLOGY AAALYflCAI. l.AeOM.TOAY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTl.1ENT 0 MEo1t,1,:n-1 sei=iv1c:s AS A 1-!AV,ROOUS WASTE TESTING LA60RATORY
Certification No. 1814

SpargerO
Technology nc.
With Automot,or, in Mind

Analytical laboratory **DMsiQA**
Mobile Laboratory **Divisic:9**
Scientific DMsion

Metals, CAM 17
EPA Method 6010II000 Modified

Attention: Mr. Hamid Moshtaghi
Ogiso Environmental
1504 Franklin Street, # 304
Oakland, CA 94612

Date Sampled; Oct 27. 1995
Date Received: Oct 27, 1995
Date Analyzed: Oct 31, 1995

Project#:
Project Name: Cypress B Phoenix

Client ID: T.SOLVSTOC5
LAB ID: ST95·10-2759A

Matrix: Soil
Dilution:

Name	Amount	Reporting Limit	Units
Antimony (Sb)	ND	6.0	mg/Kg
Arsenic (As)	ND	10	mg/Kg
Barium (Ba)	46	10	mg/Kg
Beryllium (Be)	ND	0.50	mg/Kg
Cadmium (Cd)	ND	0.50	mg/Kg
Chromium (Cr)	35	1.0	**mg/Kg**
Cobalt (Co)	ND	5.0	mg/Kg
Copper (Cu)	13	2.5	mg/Kg
Lead **(Pb)**	8.0	2.0	mg/Kg
Mercury (Hg)	0.014	0.010	mg/Kg
Molybdenum (Mo)	ND	4.0	mg/Kg
Nickel (Ni)	20	**4.0**	mg/Kg
Selenium (Se)	ND	10	**mg/Kg**
Silver (Ag)	ND	**1.0**	mg/Kg
Thallium (Tl)	ND	10	**mg/Kg**
Vanadium (V)	23	5.0	mg/Kg
Zinc **(Zn)**	22	**1.5**	mg/Kg

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A. L. James, Principal Chemis:

Nov 1, 1995
Date

SPA.AGER Tl;Cl-tNOl.OGV AI..VTICAL LAOOAATORY. INC. 1$ CEAY1F1e.D 8V THE ST TE OF CALIFORNI-'
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Analytical laboratory Division
Mobile laboratory DMsion
Scientific DMsion

Metals, CAM 17

EPA Method 6010n000 Modified

Attention:	Mr. Hamid Moshtaghi Ogiso Environmental 1504 Franklin Street, # 304 Oakland, CA 94612	Date Sampled: Date Received: Date Analyzed:	Oct 27, 1995 Oct 27, 1995 Oct 31, 1995
Project#:		Project Name:	Cypress B Phoenix
Client 10:	T.SOLVSTOC6	LABID:	ST95-10-2762A
Matrix:	Soil	Dilution:	

Name	Amount	Reporting Limit	Units
Antimony (Sb)	ND	6.0	mg/Kg
Arsenic (As)	ND	10	**mg/Kg**
Barium (Ba)	52	10	mg/Kg
Beryllium (Be)	ND	0.50	mg/Kg
cadmium (Cd)	ND	0.50	mg/Kg
Chromium (Cr)	44	1.0	mg/Kg
Cobalt (Co)	5.3	5.0	**mg/Kg**
Copper(Cu)	12	2.5	**mg/Kg**
Lead (Pb)	41	2.0	**mg/Kg**
Mercury (Hg)	17.7	0.010	**mg/Kg**
Molybdenum {Mo)	ND	4.0	**mg/Kg**
Nickel (Ni)	24	4.0	**mg/Kg**
Selenium (Se)	ND	10	mg/Kg
Silver (Ag)	ND	1.0	mg/Kg
Thallium (Tl)	ND	10	**mg/Kg**
Vanadium (V)	27	5.0	**mg/Kg**
Zinc (Zn)	41	1.5	mg/Kg

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R. L. James, Principal Chemist

Nov 1, 1995
Date

SPARGEP: TECHNOI.OOY ANALYTICAi.. P. AATOAY. INC. IS CERTIFIED BY THE STATE Of: CAU ORt,;JA
DEPARTMENT 0 HEAL H SEAVIC "5 A HA.tAADOUS WASTE TESTING I.A.&ORATORV
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APPENDIXD:

CONTAMINATED SOIL DISPOSAL MANIFESTS

State of California—Environmental Protection Agency
Form Approved OMB No. 2050–0039 (Expires 9-30-94)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See lnstrudion1 on bad of **page 6.**

O.p- of Tollic c,,
Sacr.--.t:.'-'ia

UNIFORM HAZARDOUS WASTE MANIFEST

1.C.- US l:PA ID No. CAP 0 0 0 9 2 9 0 0 2 9 | Manifest Document No. 2 0 6 7 5 | 2. Page 1 of 1 | Infannotioll in 11M lhadd - is nc,1 r.quiNCl by F.c1eRi1 law.

92720675

3. Generator's Name and Mailing Address
CAI.IPORMIA Di'PARTMBNT O,r
't'RAUSPORTATIDN
1545 UIIJ.OW ST'REE1'
OAKLM!'D, CA 94607

4. Generator's Phone (510) 286-1367

5. fl'mllipll!l'IQ' 1 Ca Name
/•1 C,- ... Tl... c.k n

6. U!llfl' ID
E I D 9 8 C 8 1 7 5 8 4

7. Transporter 2 Company Name

8. US EPA ID Number

II!Mil Slia AN- ID, US EM ID

LAIDLAH F.NVIRO SERVICES (LODI.ff) DIC.,
2500 WEST LOKU ROAD
BUTTONWILLOW, CA 93206

C A D 9 8 0 6 7 5 2 7 6

(805) 762-737

tl. US DOT O..Criplian (inc:ludir",I P,oper Shipplftg Non., ..._., O-, ancl ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
"RQ" HAZA.RDous WASTE soL10 , '1 lL £.A 0) li .O . S. (D008 HA.J 07•1' PGI.II. I LB	0 0 2	D T	0 0 0 1 8	Y
b.				
c.				
d.				

D008

LEAD AND DIESEL CONTAMINATED SOIL APPROVAL 213559

15. Special Handlirig 1ns1n1c1ioM and A Information

PLJiASE VE.AB. PROPER SAFETY EQUIPMENT.
IN CASE OF EMERC.-"ENCY CONTACT ANDRW NORRIS (510) 286-1367
WO , a8521

16. GENERATOR'S C&TIFICATION: I hereby dKlate !hot.,_..,.. of'''- are deKribld aboft by proper duppa,; - ancl are dussified. pcxked. marbd. andlobeled, ancl - ill all fMped& ill proi- «inditio,, for trcauport by highway a«ordinQ to a,pli<al,i. fedarol, - and intemotional !awl.

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Printed/Typed Name	Signature	Month	Day	Year
Steven Lee		1 1	1 1	9

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
KEN THOMPSON		1 1	1 7	9

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

1 IJhcffpc,My llldicatilan Sptx.•

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature

GENERATOR

TRANSPORTER

FACILITY

EMERGENCY RESPONSE CENTER

DO NOT WRITE BELOW THIS UNE.

OTSC 802211. (7/92)
fP.-, 8700-21

State of California—Environmental Protection Agency

Form Approved OMB No. 2050-0039 (Expires 9-30-96)

See Instructions on back of page 6.

Please print or type. Form designed for use on elite (12-pitch) typewriter.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAT600922029

Manifest Document No. 2 6 6 7 8

2. Page 1 of 1

3. Generator's Name and Mailing Address

CALIFORNIA DEPARTMENT OF
TRANSPORTATION
1545 WILLOW STREET
OAKLAND, CA 94607

4. Generator's Phone (510) 236-1367

A. State Manifest Document Number 927206

B. State Generator's ID HQ3610206 6

5. Transporter 1 Company Name Trucking

6. US EPA ID Number CAD98058431?

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address

…NTAL SERVICES (LOKERN), INC.
…ROAD
… 93206

10. US EPA ID Number CAD980675276

G. State Facility's ID

H. Facility's Phone (805) 762-7…

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

11. US DOT Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
"RQ" … S WASTE SOLID, N.O.S. … 77, PGIII, … LB.	001	DT		

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

PLEASE WEAR PROPER SAFETY EQUIPMENT.
IN CASE OF EMERGENCY CONTACT ANDREW NORRIS (510)
WO# 75503124

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the consig… proper shipping name and … packed, marked, and labeled, and are in all respects in proper condition for transp…

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generat… economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the … threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation … waste management method that is available to me and that I can afford.

Printed/Typed Name

Signature

Month Day

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name Chuck Hinxton

Signature Chuck Hinxton

Month Day Year 11 17 9…

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

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Month

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5. Transporter 1 Company Name

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7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
LAIDLAW ENVIRONMENTAL SERVICES (LOKERN), INC.
2500 WEST LOKERN ROAD
BUTTONWILLOW, CA 93206

10. US EPA ID Number
|C|A|D|9|8|0|6|7|5|2|7|6

(805) 762-7372

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	Waste Number
a. "RQ" HAZARDOUS WASTE SOLID N.O.S. (D00 8} HA3071• PG?;II. 1 LB•	0|0|1	D|T	C|(|(|'|)	Y	State 611 EPA/Other D008
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

Additional Descriptions for Materials Listed Above
LEAD AND DIESEL CONTAMINATED
SOIL APPROVAL #Z14959

Handling Codes for Wastes Listed Above

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IN CASE OF EMERGENC'l CONTACT ANDREW NORRIS (510) 216-1367
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18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

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EPA. 8700-12

92720677

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852

GENERATOR

TRANSPORTER

FACILI

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-9?)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

II not rwquired by law.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CA[illegible] Manifest Document No. [illegible] 2. Page 1 of 1

3. Generator's Name and Mailing Address
CALIFORNIA DEPARTMENT OF
TRANSPORTATION
1545 WILLOW STREET
OAKLAND, CA 94607

4. Generator's Phone (510) 286-1367

5. Transporter 1 Company Name: Jim Dixon Trucking
6. US EPA ID Number: CAD080584317

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
LAIDLAW ENVIRONMENTAL SERVICES (LOKERN), INC.
2500 WEST LOKERN ROAD
BUTTONWILLOW, CA 93206

10. US EPA ID Number: CAD980675276

A. State Manifest Document Number 927206
B. State Generator's ID MYHQ3602066
C. State Transporter's ID [illegible]
D. Transporter's Phone [illegible]
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone (805) 762-7[illegible]

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. "RQ" HAZARDOUS WASTE SOLID, N.O.S. (D008) NA3077, PGIII, 1 LB.	001	DT	[illegible]	[illegible]	[illegible]
b.					
c.					
d.					

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
PLEASE WEAR PROPER SAFETY EQUIPMENT.
IN CASE OF EMERGENCY CONTACT ANDREW NORRIS (510) 286-1367
WO# [illegible]

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national laws.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name | Signature | Month Day Year 1 1 1 7 [illegible]

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Chuck Hinxton | Signature: Chuck Hinxton | Month Day Year 1 1 1 7 9 5

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Month Day Year

DO NOT WRITE BELOW THIS LINE.

GENERATOR
TRANSPORTER
FACILITY

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

Sampling and Analysis Plan
Phase II Soil Investigation
APN 006-047-001
(800 Cedar Street)
Oakland, California

July 14, 2011

Prepared For:

City of Oakland
250 Frank H. Ogawa Plaza, 4th Floor
Oakland, California 94612

Under EPA Brownfields
Assistance Grant Number 2B-00T18101-0

Prepared By:

Northgate Environmental Management, Inc.
300 Frank H. Ogawa Plaza, Suite 510
Oakland, California 94612

Adam Klein	Dennis Laduzinsky, C.E.G., R.E.A.
Associate Hydrologist	Principal

1204.18

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Oakland, California 94612

Approved by:

Name:	**Title:**	**Signature:**	**Date:**

1204.18

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FIGURES

APPENDICES

ACRONYMS AND ABBREVIATIONS

ACPWA	Alameda County Public Works Association
APN	Assessor’s Parcel Number
ASTM	American Society for Testing and Materials
BAG	Brownfield Assessment Grant
bgs	Below Ground Surface
Caltrans	California Department of Transportation
CAM	California Assessment Manual
COPC	Constituent of Potential Concern
DQI	Data Quality Indicators
DQO	Data Quality Objectives
DTSC	Department of Toxic Substances Control
EDD	Electronic Data Deliverable
ESL	Environmental Screening Levels
FID	Flame Ionization Detector
IDW	Investigation Derived Waste
MRL	Method Reporting Limits
MS/MSD	Matrix Spike/Matrix Spike Duplicate
PCE	Perchloroethene
PEA	Preliminary Endangerment Assessment
PID	Photo Ionization Detector
PPE	Personal Protective Equipment
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
RPD	Relative Percent Difference
SAP	Sampling and Analysis Plan
SOP	Standard Operating Procedure
STLC	Soluble Threshold Limit Concentration
SVOC	Semi-volatile Organic Compound
TCE	Trichloroethene
TCLP	Toxicity Characteristic Leaching Procedure
TDS	Total Dissolved Solids
TPHd	Total Petroleum Hydrocarbons as Diesel
TPHg	Total Petroleum Hydrocarbons as Gasoline
TRPH	Total Recoverable Petroleum Hydrocarbons
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VCA	Voluntary Cleanup Agreement
VOC	Volatile Organic Compound
WET	Waste Extraction Test

1.0 INTRODUCTION

This Sampling and Analysis Plan (SAP) describes the soil assessment activities that will be conducted during a Phase II Soil Investigation at Assessor's Parcel Number (APN) 006-047-001 in Oakland, Alameda County, California (the Site). The Site has also historically been identified as 800 Cedar Street. However, reconfiguration of Interstate 880 in Oakland has actually removed Cedar Street at this location. The work is being performed for the City of Oakland (City) under Brownfield Assessment Grant (BAG) Number 2B-00T18101-0 for both hazardous substances and petroleum hydrocarbons, issued by the United States Environmental Protection Agency (USEPA) for the West Oakland Development Area. The work will be performed in accordance with procedures outlined in the *Quality Assurance Project Plan, West Oakland Development Area, Oakland, California* prepared by Northgate on September 8, 2009 (the QAPP). The QAPP was prepared to serve as a master document to support site-specific SAPs.

The purpose of the Phase II Soil Investigation is to:

- Define the extent of semi-volatile organic compound (SVOC) and petroleum hydrocarbon soil contamination in several areas of the Site that were identified in previous investigations;
- Provide further evaluation of elevated lead concentrations detected in soil at the Site; and
- Evaluate the potential need for remediation or additional evaluation of risk at the Site.

1.1 Site Description

The Site consists of an approximate 5-acre (600 feet by 400 feet) parcel of land located on the west side of Pine Street, between 9th Street and Shorey Street in Oakland, California. The Site is almost entirely covered by the remnant concrete slab of a former building. The Site is currently used for equipment and supplies storage by the California Department of Transportation (Caltrans).

The Site is located in an area of mixed residential and commercial development. The Site is bordered on the north by 9th Street, across which are residences and industrial warehouse buildings. The Site is bordered on the east and south by Pine Street and Shorey Streets, followed by residences. The Site is bordered along the west by an access ramp for Interstate 880. Figure 1 shows the Site location and Figure 2 shows a current aerial view of the Site overlain by the approximate Site boundary as it existed in the early 1990s, along with historical features identified in previous environmental investigation reports.

1.2 Responsible Agency

The Site is currently regulated by the State of California Environmental Protection Agency, Department of Toxic Substances Control (DTSC), under a Voluntary Cleanup Agreement (VCA), as amended in 1999. USEPA is the agency overseeing the BAG for the Site. Northgate will implement the SAP on behalf of the City. Northgate is an environmental consulting firm founded in 2000. Northgate specializes in environmental and soil and groundwater investigations related to brownfields redevelopment. Northgate will subcontract specialty services, including but not limited to utility survey, drillers, and chemical laboratory services. Licensed drillers will conduct all drilling activities. A State-certified laboratory will perform the chemical testing.

1.3 Project Organization

Key project staff and their responsibilities are presented below:

Title/Responsibility	Name	Phone Number
USEPA Project Officer	Wallace Woo	(415) 972-3270
USEPA Quality Assurance Manager	Eugenia McNaughton, Ph.D.	(415) 972-3411
City of Oakland Project Manager	Gopakumar Nair	(510) 238-6361
Contractor (Northgate Envt. Mgmt)	Dennis Laduzinsky, C.E.G.	(510) 839-0688 x 202

1.4 Statement of the Specific Problem

Multiple site investigations and remedial activities have been performed at the Site since 1990. The most recent report for the Site is from 2000, entitled “Site Investigation Report, Soil and Groundwater Investigation, Former Phoenix Iron Works Facility, 800 Cedar Street, Oakland, CA”, prepared by IT Corporation on behalf of Caltrans. Additionally, a Preliminary Endangerment Assessment (PEA) was prepared for the Site in 1993 (On-Site Technologies, 1993). The key issues identified in these reports are as follows:

- Historically, the Site was used for a variety of purposes between 1920 and the present, including auto parts manufacturing, steel and ironworks fabrication, and fireworks manufacturing.
- One diesel and one gasoline underground storage tank (UST) located on the western side of the Site were removed sometime between 1995 and 1997 and a total of 800 cubic yards of soil were excavated and disposed of as part of the UST removals.
- Soil sampling performed at the Site during the tank removals indicated up to 17,000 parts per million of lead and 44 parts per million of arsenic in soil in the southwest corner of

the former Phoenix Iron Works property, which is outside the current Site property boundary. Soil excavation was initiated to remove these elevated metals concentrations, and during this excavation, two solvent-containing USTs (approximately 250 gallons and 10 gallons) and a settling sump were encountered. A total of 3,300 cubic yards of soil were excavated and disposed of as part of this remedial action (IT, 2000).

- Soil sampling performed in 1999 indicated the western edge of the Site has an area of total recoverable petroleum hydrocarbons (TRPH) in shallow soil in excess of 1,000 parts per million (ppm), and this area was previously identified as containing "black-stained sand".
- The 1999 soil sampling indicated two boring locations with elevated SVOC concentrations in shallow soil samples, and the presence of elevated lead concentrations in shallow soil at multiple locations across the Site.

The property owner is now evaluating potential redevelopment options for the Site, although the proposed redevelopment use for the Site is not known at this time. The purpose of the present investigation is to evaluate the extent of Total Extractable Petroleum Hydrocarbons (TEPH) and SVOCs at selected locations at the Site and to provide additional data regarding the presence of metals in shallow soil at the Site.

1.5 Permits

A drilling permit will be obtained from the Alameda County Public Works Agency (ACPWA) to implement the field drilling and sampling activities. The Field Program Manager will notify Underground Service Alert of the proposed drilling activities at least 48 hours in advance of the field drilling in accordance with the law.

1.6 Site Access

Site access will be arranged through the City of Oakland. Site access is currently restricted by perimeter fencing, controlled entry and exit points and the presence of equipment and supplies being used by Caltrans at the Site.

2.0 BACKGROUND

2.1 Site Description

The Site consists of an approximate 5-acre (600 feet by 400 feet) parcel of vacant land paved with concrete. The Site is located on the west side of Pine Street, between Shorey and 9th Streets in West Oakland, and is bordered by a frontage road for Interstate Highway 880 on the west. The Site has historically been identified as 800 Cedar Street. However, reconfiguration of Interstate 880 in Oakland has removed Cedar Street at this location.

2.2 Operational History

Information presented in the 1993 PEA indicates that the Site was used for a variety of purposes between 1920 and the present, including auto parts manufacturing, steel and ironworks fabrication, and fireworks manufacturing. Table 2.2.1 of the PEA provides a list of the businesses and dates of operation at the Site. Table 2.3.1 of the PEA provides a list of hazardous substances that were historically used at the Site. In general, very little is known about the materials used at the Site, with the exception of the following businesses:

- Cypress Auto Parts - oxygen, acetylene, gasoline and waste oil used onsite, operated from an unknown time until the time of the PEA (1993);
- Pine Iron Works - paint, naphtha, paint thinner and waste oil used onsite, operated from an unknown time until 1990; and
- Phoenix Iron Works - two USTs, operation from approximately 1970 until the time of the PEA (1993).

2.3 Previous Investigations and Regulatory Involvement

The PEA was prepared for Caltrans, in consultation with DTSC in response to DTSC's determination that PEA reports were required for properties located along the proposed reconstruction alignment for the Highway 880/Cypress Freeway construction following the 1989 Loma Prieta Earthquake. Information in the PEA indicates that in May 1990, the property owner (Phoenix Properties) contracted with BEC, Inc. to perform Phase I and Phase II environmental assessments at the Site. Five soil borings were advanced to depths of 5.5 to 11.5 feet below ground surface (bgs) across the Site, and 11 soil samples were collected and submitted for laboratory analysis. Five soil samples analyzed for total petroleum hydrocarbons as gasoline (TPHg), total petroleum hydrocarbons as diesel (TPHd), and benzene, toluene, xylene and ethylbenzene, did not contain these analytes above the laboratory method reporting limits

(MRLs). Four of the samples and one additional soil sample analyzed for volatile organic compounds (VOCs) and SVOCs did not contain contaminants above the laboratory MRLs. Five different soils were found to contain low levels of metals, with the exception of one soil sample (PP-6, located in the southwestern corner of the Site), which contained a total lead concentration of 52 mg/kg, and soluble lead (analyzed using the Waste Extraction Test) of 2.26 mg/l.

In June 1992, Caltrans contracted with Georesource Consultants, Inc. to perform a limited field investigation at the Site, related to the Highway 880/Cypress reconstruction. Three borings for soil sample collection were advanced at the Site in the vicinity of the USTs and a hydropunch groundwater sample was also collected from one of these borings. A total of seven soil samples from these borings were analyzed for TPHg, TPHd and total recoverable petroleum hydrocarbons. Five of these samples were below the laboratory MRLs for these analytes. Two of the samples (PP800/H-1 at depths of 1.5 and 4 feet bgs) contained TPHg at concentrations of 10 and 17 milligrams per kilogram (mg/kg), and TPHd at concentrations of 1,600 and 2,400 mg/kg. The groundwater sample did not contain TPHg or TPHd above the laboratory MRLs (GRC, 1992).

In 1993, Caltrans contracted with On-Site Technologies to prepare a PEA and perform limited soil and groundwater sampling at the Site. Three soil borings for soil and groundwater sample collection were advanced at the Site to depths of 9 to 11 feet bgs, in the vicinity of the USTs. One soil sample from each boring was analyzed for TPHg and VOCs, two soil samples from each boring were analyzed for SVOCs, and four samples from each boring were analyzed for TPHd. All of these samples were below laboratory MRLs for these analytes. One groundwater sample collected from each boring was analyzed for TPHg, TPHd, VOCs and selected metals (cadmium, chromium, lead, nickel and zinc). The groundwater samples were below laboratory MRLs for TPHg, VOCs, and cadmium. TPHd was measured in the samples at 0.14 to 0.26 milligrams per liter (mg/l) along with low levels of the remaining metals (On-Site Technologies, 1993).

In 1994, Caltrans entered into a Voluntary Cleanup Agreement (VCA) with DTSC for the Cypress Freeway Reconstruction Project and East Bay Municipal Utility District Sewer Line Realignment in Oakland and Emeryville, California. The reconstruction project consisted of 34 separate properties, including the 800 Cedar Street property. The VCA was subsequently amended twice in 1996, and once each in 1997, 1999 and 2002.

Sometime between 1995 and 1997 two USTs were removed from the Site (IT, 2000), although Northgate was not able to obtain reports which identified the exact date of the tank removals.

Discolored soil was observed after the diesel UST was removed, and a total of 800 cubic yards of soil were excavated and disposed of as part of the UST removals.

Additional soil sampling performed at the Site during this time indicated up to 17,000 parts per million of lead and 44 parts per million of arsenic were present in soil samples in the southwest corner of the former Phoenix Iron Works property. Soil excavation was initiated to remove these elevated metals concentrations, and during this excavation, two solvent-containing USTs (approximately 250 gallons and 10 gallons) and a settling sump were encountered. A total of 3,300 cubic yards of soil were excavated and disposed of as part of this remedial action.

In 1999, IT Corporation performed a field investigation at the Site that included drilling 26 soil borings for collection and analysis of soil samples, and collection and analysis of grab groundwater samples from 15 of the borings. Soil borings were arranged in a regular grid pattern across the Site, and most of the borings were advanced to 11.5 feet bgs. A total of 95 soil samples were submitted for chemical analysis for TPHg, TPHd TPRH, VOCs, SVOCs and California Assessment Manual (CAM) 17 metals. Fifteen groundwater samples were analyzed for these same constituents and were also analyzed for total dissolved solids (TDS). Based upon the results of the soil metals analyses, selected samples were also analyzed for soluble metals. Analytical results from these samples indicated the following:

- TPHg and TPHd were not detected above the MRLs in any of the samples. TRPH was detected in 37 of the 95 samples, with concentrations ranging from 60 mg/kg to 1,200 mg/kg, although only three of these samples had concentrations in excess of 320 mg/kg.
- VOCs were detected in 11 of the 95 samples, with trichloroethene (TCE), tetrachloroethene (PCE) and styrene as the only VOCs that were detected. The maximum VOC concentration was 0.028 mg/kg TCE.
- SVOCs were detected in 2 of the 95 samples. The maximum SVOC concentration detected was 13 mg/kg benzo(a)pyrene.
- Antimony, molybdenum, selenium, silver and thallium were not detected above the MRLs in any of the 95 samples. The remaining CAM 17 metals were detected in at least one of the samples.
- Nine soil samples that contained lead at 10 times the Soluble Threshold Limit Concentration (STLC, 5 mg/l) for lead were analyzed for soluble lead using the Waste Extraction Test (WET), and 10 soil samples that contained lead at 20 times the STLC (5 mg/l) were analyzed for soluble lead using the Toxicity Characteristic Leaching Procedure (TCLP). The WET is typically used for characterization of soil for waste

disposal according to California standards, while the TCLP is typically used for characterization of soil for waste disposal according to Federal standards.

- TPHg, TPHd and TRPH were not detected above the MRLs in any of the groundwater samples.
- VOCs were detected in 8 of the 15 samples, with 8 different VOCs detected, including benzene, toluene and TCE.
- SVOCs were not detected above the MRLs in any of the samples.
- Groundwater samples for CAM 17 metals analysis were filtered in the laboratory following sampling collection. Antimony, arsenic, cadmium, molybdenum, selenium, silver and thallium were not detected above the MRLs in any of the 15 samples. The remaining CAM 17 metals were detected in at least one of the samples.
- TDS concentrations for the 15 groundwater samples ranged from 287 mg/l to 1,312 mg/l.

2.4 Geologic Information

Information presented in the PEA, developed from USGS Miscellaneous Geologic Investigation Map I-239, indicated the following stratigraphy at the Site:

- Merritt Sand from approximately 2.5 feet bgs to 35 feet bgs;
- Older Bay Mud (including the Alameda Formation) from approximately 35 to 50 feet bgs; and
- Francisco Formation below 50 feet bgs.

Boring logs from the investigation performed by GRC in 1992 indicated silty sand and sand at the Site to a depth of 27 feet bgs. Groundwater was measured in one of the borings at a depth of 7.2 feet bgs.

2.5 Environmental and/or Human Impact

Analytical data from the prior investigations indicate that VOCs do not appear to be constituents of potential concern (COPCs) in either soil or groundwater, and only isolated areas of the Site are impacted by TRPH and SVOCs in soil. The data indicate that elevated concentrations of lead are present in shallow soil across the Site, these elevated lead concentrations are limited to the upper 0.5 to 3 feet of soil, the lead is not connected to any obvious source area, and this is the only CAM 17 metal that is a COPC for the Site.

3.0 PROJECT DATA QUALITY OBJECTIVES

As discussed in Section A.3 of the QAPP, Data Quality Objectives (DQOs) are qualitative and quantitative statements that clarify technical and quality objectives, define the appropriate type of data, and specify tolerable levels of potential decision errors that will be used as the basis for establishing the quality and quantity of data needed to support decisions.

This section summarizes the DQOs for the investigation described herein and will include:

- The problem to be studied;
- Identification of the questions that the study will attempt to resolve and the decisions that may result;
- Identification of the information needed to be obtained and the measurements needed to be taken to resolve the decision statement(s); and
- Definitions of study boundaries, including when and where data should be collected.

3.1 Project Task and Problem Definition

Given the historical Site uses and operations at adjacent properties, there exists the potential for contaminants in soil and groundwater associated with a wide range of activities, including automobile parts manufacturing, steelworking, and fireworks manufacture. These contaminants include:

- Petroleum hydrocarbons;
- heavy metals;
- VOCs; and
- SVOCs.

Extensive soil and groundwater sampling has been conducted across the Site between 1990 and 1999, as discussed in Section 2.3 of this SAP. Over 40 soil borings were installed at the Site, and over 100 soil samples have been analyzed for various constituents. Grab groundwater samples were collected from 20 of these borings, with groundwater sample analysis for a variety of constituents.

Two USTs (one gasoline and one diesel), which were identified in historical reports from the Site, have been removed, and impacted soil in the vicinity of the USTs was over-excavated and removed from the Site. Two additional small USTs were identified in the lower southeast corner of the Site during grading activities, and these USTs, along with over 2,000 cubic yards of soil, have also been removed from the Site.

The following three potential issues of concern have been identified at the Site:

1. Residual, elevated concentrations of lead are present in the shallow surface soil across the Site. The distribution of lead in the subsurface does not indicate any obvious source area for the lead.
2. Elevated levels of total recoverable petroleum hydrocarbons (TRPH) are present in the western portion of the Site, in an area previously identified as containing “black-stained sand”.
3. SVOCs were detected in two shallow soil samples at the Site, at concentrations that exceed the RWQCB ESLs for residential development. One of these samples is located in the southwestern portion of the Site and the other sample is located approximately 50 feet east of the former USTs in the western portion of the Site.

Groundwater samples collected from the Site do not indicate the presence of constituents in groundwater at concentrations that would appear to significantly impact human health or the environment.

This SAP describes investigation activities that will be used to assess the lateral and vertical extent of SVOCs and TRPH in soil in isolated areas of the Site, and whether they represent a significant risk to anticipated future Site users, including construction workers. Samples collected for SVOC and TRPH analysis will also be analyzed for metals, to provide additional data regarding the distribution of metals across the Site. Actual redevelopment plans are unknown at the time but will most likely include redevelopment of the Site for commercial or residential use. This investigation will utilize the most conservative approach, and therefore will include, but is not limited to, residential screening goals to assess potential human health risks.

The information gained from this investigation will be used by the City to assist the owner with the redevelopment of the parcel. Proposed sampling activities are summarized in Section 4.0

3.2 Data Quality Objectives (DQOs)

The primary objective of this investigation is to assess the lateral and vertical extent of selected constituents in soil at the Site. The results will be used to judge whether such impacts may affect various redevelopment plans. There are no specific requirements to conduct abatement and/or remediation as a direct result of these findings. However, investigation results will be used to prepare recommendations that will be used during redevelopment activities. The soil investigation will assess the lateral and vertical extent and human health risk of SVOCs and petroleum hydrocarbons in isolated areas of the Site. Table 1 summarizes the environmental screening criteria for the primary COPCS for the Site.

3.3 Data Quality Indicators

As stated in Section A.3.2 of the QAPP, data quality indicators (DQIs) refer to quality control criteria established for various aspects of data gathering, sampling, or analysis activity. For this project, laboratory data will be reconciled with DQIs based on the following five assessment parameters:

3.3.1 *Accuracy*

To assess the accuracy of the data for this investigation, Northgate will review 100% of the laboratory reports to confirm compliance with the laboratory's own quality control (QC) limits, particularly with respect to the laboratory's matrix spike and surrogate spike results.

3.3.2 *Precision*

To assess the precision of the data, Northgate will evaluate the relative percent difference (RPD) between duplicate laboratory and field samples on 100% of the laboratory reports. Typically an RPD of <30% for aqueous samples and <50% for soil is considered acceptable. It is noted that unless soil samples are homogenized, the RPD for soil can vary greatly.

3.3.3 *Completeness*

Field completeness is a measure of the amount of valid samples obtained during all sampling for the project. The field completeness goal is 90 percent. Laboratory completeness is a measure of the amount of valid measurements obtained from all the measurements taken in the project. The laboratory completeness goal is 90 percent.

3.3.4 *Representativeness*

Representativeness expresses the degree to which sample data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, or an environmental condition. The design of the sampling program ensures that environmental conditions have been sufficiently represented. Representativeness will be evaluated by the Project Manager based on review of other data quality indicators, quality assurance/quality control (QA/QC) samples, laboratory QC results, and site-specific data.

Based on the quantitative assessment described above and other qualitative assessment of the findings, Northgate will judge whether the data appear to be representative of Site conditions and whether they are acceptable and comparable for the purposes of the project, particularly with respect to the units and detection limits for chemicals of concern being compared to environmental screening levels (ESLs). For data that does not meet DQIs, such as field or laboratory measurement error, Northgate will reconcile the data, flag the data in our summary tables, and include a discussion of the reconciliation in the report. Corrective actions will be handled on a case-by-case basis.

3.3.5 *Comparability*

The comparability goal for this project will be achieved by requesting that the laboratory report the analytical results in appropriate and consistent units (e.g., not interchanging mg/kg with µg/kg) and by maintaining consistency in sampling conditions, selection of sampling procedures, sample preservation methods, and analytical methods (e.g., using EPA Test Method 8015 for all Total Extractable Petroleum Hydrocarbons [TEPH] analysis, and EPA Method 8270 for all SVOC analysis). The DQIs referenced above and listed in Tables A-1 through A-21 in Appendix A of the USEPA-approved QAPP will ensure the laboratory data will be useable for its intended purpose.

3.4 Data Review and Validation

For the purpose of this investigation, Northgate will conduct a Tier 1 evaluation of 100 percent of the data. Data review and validation will be conducted by Northgate staff. Data will be accepted, rejected, or qualified based on the following criteria:

- Accuracy and completeness of recording, transmitting, and processing of data;
- Completeness of sample information, including sample numbers, sample matrices;
- QC samples, shipping dates, preservation methods, sample containers, holding times, etc; and
- Compliance of duplicate sample results, preservation methods, sample containers, holding times, precision and accuracy measurements, and other QC measurements with specified DQIs.

Data review will be performed to verify whether an analytical method has been performed according to method and project specifications, and that these results have been reported correctly. The data review will involve reviewing the documentation and analytical reports associated with the samples. Both detected results and results detected below the reporting limit will be included for data review. For data that do not meet DQIs, such as field or laboratory measurement error, Northgate will reconcile the data, flag the data in our summary tables, and include a discussion of the reconciliation in the report. Corrective actions will be handled on a case-by-case basis.

3.5 Data Management

Project activities are documented in project plans and project reports, which in turn are supported by daily field reports and laboratory analysis reports. When records are used in project documents, or when attachments are added to these documents, they must be specific so that the reviewer can readily find the appropriate sections and pages containing the pertinent information.

The analytical testing laboratory will provide all chemical data to Northgate in hardcopy format and in electronic data deliverables (EDD), which will be used to generate summary tables for our investigation report. Northgate will reconcile all listed concentrations against the hardcopies of the laboratory report to confirm the accuracy of our summary tables.

3.6 Assessment Oversight

As presented in Appendix B of the USEPA-approved QAPP, Northgate will utilize Standard Operating Procedures (SOPs) for this investigation. The SOPs describe the procedures that will be used during field sampling activities and the data review and validation process. No field audits are planned for this investigation. However, based on our field findings as well as the data review and validation, Northgate may elect to conduct a field audit which could require changes to our field program as well as our data review and validation process.

4.0 FIELD DRILLING AND SAMPLING

This section describes the general procedures Northgate will use to ensure high quality data are collected during the soil and groundwater investigation at the Site. In general, the investigation will be performed in accordance with standards outlined in American Society of Testing and Materials (ASTM) E1903-97 *Standards for Phase II Environmental Site Investigations*. Descriptions of specific field work tasks are in the following sections. Sample locations are illustrated on Figure 3.

4.1 Pre-field Activities

Northgate will prepare for the field work by performing the following activities:

- Contacting all appropriate parties to obtain Site access;
- Obtaining permits for the borings from the Alameda County Public Works Agency (ACPWA);
- Contacting Underground Service Alert at least 48 hours in advance of field work to locate and mark public utilities located at the Site;
- Retaining the services of a private utility locating subcontractor to protect underground utilities at the Site and identify the potential locations of USTs; and
- Scheduling the services of our drilling subcontractor.

4.2 Soil Sampling

Borings for soil sampling will be advanced using direct-push GeoProbe drilling methods. Continuous soil cores will be collected from each boring in clear acetate liners for lithologic logging and soil sampling. Once extracted from the borehole, the liners will be opened at select intervals to expose the soil core. The cores will be screened with a photo-ionization detector (PID) to allow an initial determination of soil contaminated with volatile compounds.

Soil type and characteristics of materials encountered during drilling will be examined and described by a geologist, engineer, or other scientist working under the direction of a California Professional Geologist. Soil descriptions will be recorded in the field on a Boring Log Form. Soil cores will be described in accordance with the Unified Soil Classification System and ASTM D2499-94 Color Chart. The following information will be recorded, as appropriate, on the Boring Log Form:

- Project name and location;
- Soil boring location;

- Sampling depth;
- Soil classification;
- Soil color;
- Moisture condition of the soil;
- Soil odor (if noticed incidentally and consistent with health and safety precautions);
- PID or flame ionization detector (FID) field measurements;
- Descriptive comments, including obstacles encountered or other drilling difficulties;
- Depth to first encountered groundwater (if encountered);
- Depth to stabilized ground-water level (if encountered);
- Depth of fill material (if present and distinct); and
- Depth to bedrock (if encountered).

4.3 Soil Sample Rationale and Sampling Program

Multiple investigations have been performed at the Site, with soil and groundwater sample analysis for a wide range of constituents, including TPHg, TPHd, TRPH, VOCs, SVOCs and metals. These data indicate not detectable or low concentrations of TPHg, TPHd and VOCs in soil, detections of elevated concentrations of TRPH and SVOCs in isolated areas of the Site, and elevated concentrations of lead in soil in multiple areas of the Site, with no obvious source areas for the lead. Groundwater samples only contained low levels of these constituents in isolated samples. Based upon this historical data, this SAP is focused on evaluating the lateral and vertical extent of the petroleum hydrocarbons and SVOC contamination in isolated areas of the Site, and providing additional data regarding the presence of metals in shallow soil at the Site.

This testing program will consist of collecting soil samples from 13 borings advanced at the Site. The location of the soil borings is shown on Figure 3.

Five of the soil borings are located in the area of elevated TRPH concentrations, where borings P-8, P-25 and P-26 from the 1999 investigation detected TRPH at concentrations in excess of 1,000 mg/kg in soil samples collected from a depth of 0.5 feet bgs, while the 3 feet bgs samples from these borings were all not detect for TRPH. The five soil borings are spaced approximately 50 feet away from the 1999 borings, in order to evaluate the lateral and vertical extent of TRPH-impacted soil. Soil samples will be collected at depths of 1, 3 and 5 feet bgs, and analyzed for Total Extractable Petroleum Hydrocarbons (TEPH) to provide delineation of the petroleum hydrocarbon-impacted soil. Two duplicate samples will be collected from these borings for

TEPH analysis. The 1 foot samples will also be analyzed for California Assessment Manual (CAM) 17 metals, using EPA Method 6000/7000 series. The 3 foot samples will be placed on hold pending the results of the 1 foot samples. If any of the 1 foot samples exceed the residential California Human Health Screening Level (CHHSL) for lead of 80 mg/kg, the 3 foot sample from that boring will also be analyzed for CAM 17 metals. The 5 foot samples will not be analyzed for CAM 17 metals, because the historical data indicate that elevated lead concentrations were primarily found in the upper 1 foot of soil at the Site. Duplicate sample selection will be made in the field, and will be based upon visual, olfactory and PID evidence of soil contamination. In general, we will select samples that appear to have some hydrocarbon contamination for duplicate sample analysis.

The remaining eight borings are designed to evaluate the lateral and vertical extent of elevated SVOC concentrations in soil around the two soil borings (P-16 and P-19) where SVOCs were previously detected at elevated concentrations in Site soil. Four of the borings are located around boring P-16 and four of the borings are located around boring P-19. Soil samples will be collected at depths of 1, 3 and 5 feet bgs, and will be analyzed for SVOCs to provide delineation of the SVOC-impacted soil. The 1 foot samples will also be analyzed for CAM 17 metals, using EPA Method 6000/7000 series. The 3 foot samples will be placed on hold pending the results of the 1 foot samples. If any of the 1 foot samples exceed the residential CHHSL for lead of 80 mg/kg, the 3 foot sample from that boring will also be analyzed for CAM 17 metals. The 5 foot samples will not be analyzed for CAM 17 metals, because the historical data indicate that elevated lead concentrations were primarily found in the upper 1 foot of soil at the Site. Three duplicate samples will be collected from these borings for SVOC analysis. Duplicate sample selection will be made in the field, and will be based upon visual, olfactory and PID evidence of soil contamination. In general, we will select samples that appear to have some SVOC contamination for duplicate sample analysis.

4.4 Sampling Equipment Calibration

The Field Team Leader will be responsible for ensuring that instruments are properly functioning. At a minimum, this will entail checking the instrument prior to shipment to the field and performing daily operational checks and calibration (described below). Routine maintenance and trouble-shooting procedures will be performed as described in the manufacturer’s instructions. See section B.3 of EPA approved QAPP for a complete discussion of instrument calibration.

4.5 Sampling Equipment Decontamination

All non-dedicated equipment used during the investigation that could possibly come into contact with chemically affected materials will be thoroughly cleaned before and after each use. Decontamination procedures may be modified and/or revised at the discretion of the Project Manager based upon the data obtained. Soil and groundwater sampling equipment, and other field equipment will be decontaminated as follows:

- All drilling equipment, including drill pipe and samplers, will be decontaminated by steam cleaning and/or washing with Alconox (a laboratory-grade detergent) at a designated decontamination area and rinsing with deionized or distilled water.

4.6 Sample Containers and Preservation

All samples prepared in the field will follow approved protocols for sample containers, preservation methods, and holding times for the various analyses. All sample vials and bottles containing preservatives must be labeled accordingly by the laboratory before samples are collected. With the exception of samples that require special handling and preservation, all samples will be stored in coolers chilled to 4 degrees Centigrade for shipment to the analytical laboratory. Sample containers will not be reused. Samples will be shipped to the laboratory within a time frame to allow for extraction and analysis to be performed within prescribed holding times.

A sample label will be completed and attached to each sample container for every sample collected. Labels are made of a waterproof material backed with a water-resistant adhesive. Labels are to be filled out using waterproof ink, and are to contain at least the following information:

- Date and time;
- Sample number;
- Location identification;
- Sampler's initials; and
- Analyses to be conducted.

5.0 ANALYTICAL PROGRAM

Soil samples collected during the investigation will be analyzed at Torrent Laboratory of Milpitas, California. Torrent is certified by California EPA for the analyses to be performed. The method reporting limits and practical quantitation limits for the analytical methods for this investigation are presented in Appendix A, along with a copy of Torrent's QA Manual.

5.1 Analytical Methods

Analytical procedures will generally be conducted in accordance with the methodology set forth in EPA, *Test Methods for Evaluating Solid Waste, Physical and Chemical Methods,* (SW-846), Third Edition of SW-846 with Update I (pages dated September 1992), Update IIA (pages dated August 1993), Update II (pages dated September 1994), Update IIB (pages dated January 1995), and Update III (pages dated December 1996); unless otherwise approved by Northgate. Samples will be analyzed for the following constituents:

- Total Extractable Petroleum Hydrocarbons – EPA Method 8015;
- Semi-Volatile Organic Compounds – EPA Method 8270; and
- CAM 17 Metals – EPA Method 6000/7000 series.

In general, samples will be analyzed within five days of the sample collection date. The approved maximum holding times prior to analysis are 14 days for organic compounds and six months for metals.

6.0 DISPOSAL OF RESIDUAL MATERIALS

In the process of collecting environmental samples during this Site investigation, Northgate will generate the following types of potentially contaminated Investigation Derived Waste (IDW) as follows:

- Used personal protective equipment (PPE);
- Decontamination fluids (rinsate water from steam cleaning the drilling rods); and
- Soil cuttings from soil borings.

The EPA's National Contingency Plan requires that management of IDW generated during sampling comply with all applicable or relevant and appropriate requirements to the extent practicable. The sampling plan will follow the *Office of Emergency and Remedial Response (OERR) Directive 9345.3-02* (May 1991), which provides the guidance for the management of IDW. In addition, other legal and practical considerations that may affect the handling of IDW will be considered.

Used PPE and disposable equipment will be double bagged and placed in a municipal refuse dumpster. These wastes are not considered hazardous and can be sent to a municipal landfill. Any PPE and disposable equipment that is to be disposed of which can still be reused will be rendered inoperable before disposal in the refuse dumpster.

Decontamination fluids that will be generated during this sampling event will consist of rinse water and residual contaminants from the steam cleaning of the drilling rods, and these decontamination fluids will be stored in a DOT-approved 55-gallon drum. Soil cuttings will be stored in a separate 55-gallon drum or placed on and covered with plastic sheeting. All drums will be labeled, logged, and identified on a Site map or field sketch.

All IDW will be disposed of at an approved facility, in accordance with applicable local, state and federal regulations.

7.0 SAMPLE DOCUMENTATION AND SHIPMENT

7.1 Daily Field Logs

The field sampling outlined in this SAP will be performed in one to two days. As such, a daily field log will be completed by the field staff for each day of field work. The daily field form is included in Appendix C of the QAPP.

7.2 Photographic Record

Site conditions will be documented with photographs. A photographic record will be recorded on the daily field form.

7.3 Chain of Custody Documentation

Chain-of-custody forms will be prepared for groups of samples collected at a given location on a given day. Each chain-of-custody will be prepared in triplicate and will accompany each sample shipment to the laboratory. One of the three copies will accompany the samples to the laboratory. One copy will be kept in the QA/QC file and another copy will be retained in the project file, available at any time for review. The chain-of-custody form makes provisions for documenting sample integrity and the identity of any persons involved in sample transfer. Information entered on the chain-of-custody will consist of the following:

- Project name and number;
- Chain-of-custody serial number;
- Project location;
- Sample numbers;
- Sampler/recorder's signature;
- Date and time of collection of each sample;
- Sample type;
- Analyses requested;
- Name of person receiving the sample;
- Date of receipt of sample; and
- Name, address, and telephone number of laboratory.

A custody seal will be used when the samples are shipped through a common carrier (e.g., Federal Express), because a chain-of-custody signature will not document the shipment.

7.4 Sample Shipping Procedures

The method of shipment will be hand delivery by field personnel or laboratory courier within 24 hours of sample collection. The method of sample shipment will be noted on the chain-of-custody. If samples to be kept cool are to be held for longer than 24 hours, the samples will be placed in a refrigerator or similar insulated cooling container and maintained at approximately 4 degrees Centigrade.

7.5 Interaction with the Laboratory

The Field Program Manager will interact with the laboratory for sampling schedules and to coordinate adequate laboratory availability and qualifications. Field sampling activities will not start until the necessary laboratory equipment and personnel availability has been arranged. Once a shipment has been made, the laboratory will be contacted to provide specific information about the sample shipment, including the number of samples, types of samples, destination of samples, and analysis to be performed.

8.0 QUALITY CONTROL

Several types of field quality control sampling procedures are presented in Section A3 and B2 of the QAPP. Based on the scope presented in this SAP, the Site investigation will be completed over a one to two day period. Accordingly, QC samples for this investigation for soil will consist of two duplicate soil samples for TEPH and CAM 17 metals analysis and three duplicate samples for SVOC analysis. The duplicate soil samples will be collected simultaneously with the standard soil samples from selected borings.

Standard laboratory QA/QC procedures will be utilized as described in Section B6 of the QAPP. As part of the QC program, the laboratory will perform matrix spike / matrix spike duplicate (MS/MSD) analyses on the samples submitted from this investigation.

9.0 FIELD VARIANCES

As conditions in the field vary, it may be necessary to implement minor modifications to the sampling program presented in this SAP. Where appropriate, the QA Officer will be notified and a verbal approval will be obtained before implementing changes. Modifications to the approved SAP will be documented in the project report.

10.0 FIELD HEALTH AND SAFETY PROCEDURES

Field activities will be conducted in accordance with standard industry practices regarding worker health and safety. In addition, a site-specific health and safety plan will be prepared by Northgate prior to initiating field work. A copy of the health and safety plan will be submitted to DTSC prior to initiating field work. All field team members will read and sign the health and safety plan prior to each day's field work.

11.0 SCHEDULE AND REPORTING

We anticipate the following schedule for completing the work outlined in this SAP:

- Mobilizing for field work within two weeks of receiving authorization to proceed from the City of Oakland.

- Two weeks to complete the field work following mobilization.

- Receipt of sample analytical results within two weeks of completing the field work.

- Preparation of an investigation report within four weeks of receiving sample analytical results.

- Based upon this schedule, we anticipate completing a draft field investigation report within 10 weeks of of receiving authorization to proceed from the City of Oakland.

The investigation report will describe the sample collection procedures, summarize the chemical test results, present conclusions and recommendations regarding soil quality at the Site and provide recommendations, as appropriate, for remedial actions at the Site. The chemical test results will be compared to regulatory screening levels established by the California Regional Water Quality Control Board, the California Department of Toxic Substances Control, and other agencies as appropriate.

12.0 REFERENCES

ASTM, 2001, ASTM Standards Related to the Phase II Environmental Site Assessment Process, 2nd Edition.

EPA, 1991, Office of Emergency and Remedial Response (OERR) Directive 9345.3-02.

EPA, *Test Methods for Evaluating Solid Waste, Physical and Chemical Methods,* (SW-846), Third Edition of SW-846 with Update I (pages dated September 1992), Update IIA (pages dated August 1993), Update II (pages dated September 1994), Update IIB (pages dated January 1995), and Update III (pages dated December 1996).

GRC (Geo/Resource Consultants, Inc.), 1992. *Site Investigation Report – Area 4, Department of Transportation T.O. Number: 04-192201-01, Highway 880, Cypress Reconstruction, Oakland, CA* August 1992.

IT Corporation, 2000. *Site Investigation Report, Soil and Groundwater Investigation, Former Phoenix Iron Works Facility, 800 Cedar Street, Oakland, CA* March 8, 2000.

Northgate Environmental Management, Inc, 2009, *Draft Quality Assurance Project Plan, West Oakland Development Area, Oakland, California.* September 8.

On-Site Technologies, 1993. *Preliminary Endangerment Assessment, Phoenix 800, 800 Cedar Street, Oakland, CA* November 1993.

TABLES

TABLE 1
Constituents of Potential Concern and Environmental Screening Levels for Soil

Title 22 Metals - EPA Methods 6010B/7471A

Analyte	Residential ESL (mg/kg)	Industrial ESL (mg/kg)	Residential CHSSL (mg/kg)	Industrial CHSSL (mg/kg)	Laboratory Practical Quantitation Limit (mg/kg)
Antimony	6.3	40	30	380	5
Arsenic	0.39	1.6	0.072	0.24	1.7
Barium	750	1,500	5,200	63,000	5
Beryllium	4	8	150	1,700	2
Cadmium	1.7	7.4	2	8	1
Chromium III	750	750	100,000	100,000	5
Chromium VI	8	8	17	37	5
Cobalt	40	80	660	3,200	5
Copper	230	230	3,000	38,000	5
Lead	200	750	80	320	1
Mercury	1.3	10	18	180	0.1
Molybdenum	40	40	380	4,800	5
Nickel	150	150	1,600	16,000	5
Selenium	10	10	380	4,800	5
Silver	20	40	380	4,800	1
Thallium	1.3	16	5	63	5
Vanadium	16	200	530	6,700	5
Zinc	600	600	23,000	100,000	5

Petroleum Hydrocarbons - EPA Method 8015B

Analyte	Residential ESL (mg/kg)	Industrial ESL (mg/kg)	Residential CHSSL (mg/kg)	Industrial CHSSL (mg/kg)	Laboratory Practical Quantitation Limit (mg/kg)
TPH-g	83	83	--	--	1
TPH-d	83	83	--	--	1
TPH-mo	370	2,500	--	--	50

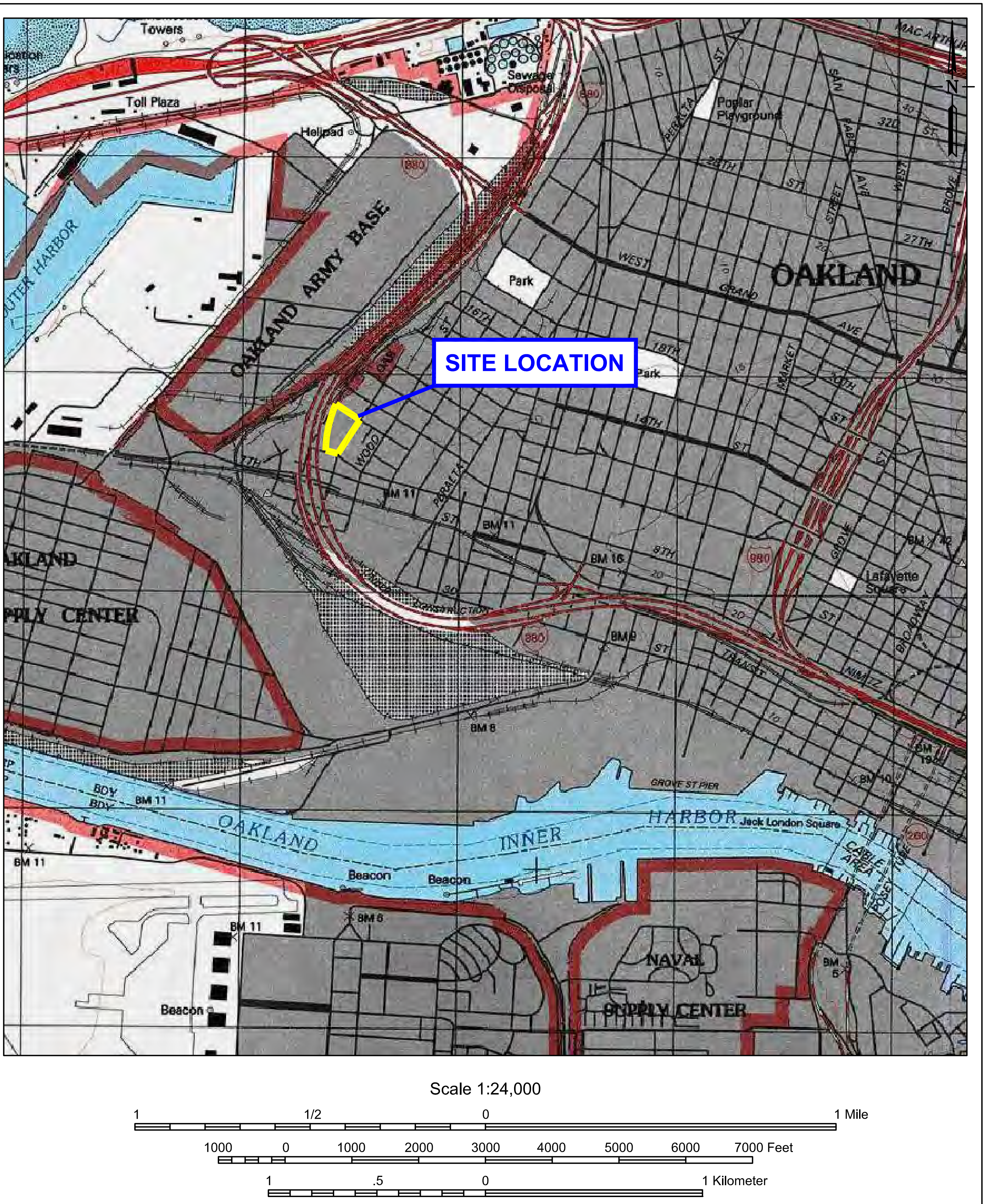
SVOCs - EPA Method 8270

Analyte	Residential ESL (mg/kg)	Industrial ESL (mg/kg)	Residential CHSSL (mg/kg)	Industrial CHSSL (mg/kg)	Laboratory Practical Quantitation Limit (mg/kg)
Anthracene	2.8	2.8	--	--	0.005
Benz[a]anthracene	0.38	1.3	--	--	0.005
Benzo(a)pyrene	0.038	0.13	0.038	0.13	0.33
Benzo[b]fluoranthene	0.38	1.3	--	--	0.33
Benzo[k]fluoranthene	0.38	1.3	--	--	0.33
Chrysene	2.3	23	--	--	0.66
Fluoranthene	40	40	--	--	0.33
Fluorene	8.9	8.9	--	--	0.33
Napthalene	1.3	2.8	--	--	0.33
Pentachlorophenol	3	5	--	--	3.31
Pyrene	85	85	--	--	0.33

NOTES:

Results reported in mg/kg (parts per million)
TPH: Total petroleum hydrocarbons
--: Not established
ESL: San Francisco Bay Regional Water Quality Control Board Tier 1 Environmental Screening Levels (May 2008)
CHHSL: California Environmental Protection Agency, Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties (January 2005), Lead CHSSL updated 2009.

FIGURES



Source: National Geographic USGS TOPO! 2000

FIGURE 1
Site Location Map

800 Cedar Street
Oakland, California

northgate
environmental management, inc.

Project No. 1204.18

G:\Projects\Temp\1204 City of Oakland\1204.18 800 Cedar\1204.18 Figures\Phase II Proposal\Figure 1.dwg Layout: 8.5x11-P User: oleg Feb 04, 2011 - 10:19am

LEGEND:

P-25 △ 1999 Soil borings

▬ ▬ Approximate site boundary

▬ ▬ Site boundary from PEA Report (1993)

FIGURE 2
Site Features Map

800 Cedar Street
Oakland, California

northgate
environmental management, inc.

Project No. 1204.18

G:\Projects\Temp\1204 City of Oakland\1204.18 800 Cedar\1204.18 Figures\Phase II SAP Version2\Figure 2-3 - SiteFeatures-Site Plan.dwg Layout: Fig2 Site Plan User: oleg Apr 18, 2011 - 10:53am

LEGEND:

◉	Proposed soil boring locations
P-25 △	1999 Soil borings
▬ ▬	Approximate site boundary
▬ ▬	Site boundary from PEA Report (1993)

N

0 50 100

Scale (Feet)

FIGURE 3
Proposed Soil Borings

800 Cedar Street
Oakland, California

northgate
environmental management, inc.

Project No. 1204.18

G:\Projects\Temp\1204 City of Oakland\1204.18 800 Cedar\1204.18 Figures\Phase II SAP Version2\Figure 2-3 - SiteFeatures-Site Plan.dwg Layout: Fig3 Sample Locs User: oleg Apr 18, 2011 - 10:51am

APPENDIX A
METHOD DETECTION LIMITS AND PRACTICAL QUANTITATION LIMITS, QUALITY CONTROL ACCEPTANCE CRITERIA FOR SELECTED ANALYTES AND TORRENT LABORATORY QUALITY ASSURANCE MANUAL

Metals Soil Water MDL/PQL

ICP Metals by EPA 6010B (Water)	MDL (mg/L)	PQL (mg/L)
Aluminum	0.004	0.05
Antimony	0.004	0.01
Arsenic	0.005	0.01
Barium	0.002	0.01
Beryllium	0.002	0.005
Boron	0.1	0.01
Cadmium	0.001	0.005
Calcium	0.035	0.1
Chromium	0.002	0.005
Cobalt	0.002	0.005
Copper	0.003	0.01
Gold	0.007	0.02
Iron	0.002	0.03
Lead	0.005	0.015
Lithium	0.01	0.02
Magnesium	0.013	0.05
Manganese	0.003	0.05
Molybdenum	0.002	0.005
Nickel	0.002	0.01
Phosphorus	0.02	0.05
Platinum	0.02	0.1
Potassium	0.037	1
Selenium	0.004	0.01
Silica	0.05	0.2
Silicon	0.01	0.02
Silver	0.002	0.005
Sodium	0.014	0.2
Strontium	0.002	0.005
Thallium	0.004	0.01
Tin	0.002	0.01
Titanium	0.01	0.01
Vanadium	0.004	0.01
Zinc	0.002	0.01

ICP Metals by EPA 6010B (Soil)	MDL (mg/Kg)	PQL (mg/Kg)
Aluminum	0.023	0.1
Aluminum	0.979	10
Antimony	0.2	5
Arsenic	0.28	1.7
Barium	0.11	5
Beryllium	0.084	2
Boron	0.2	10
Cadmium	0.059	1
Calcium	0.059	52
Chromium	0.059	5
Cobalt	0.14	5
Copper	0.09	5
Iron	1.22	50
Lead	0.13	1
Magnesium	1.7	50
Manganese	0.062	5
Molybdenum	0.059	5
Nickel	0.059	5
Selenium	0.29	5
Silicon	0	5
Silver	0.2	1
Strontium	0.42	10
Thallium	0.12	5
Tin	0.17	5
Titanium	0.46	5
Vanadium	0.12	5
Zinc	0.59	5

Title 22 Mercury by EPA 7470 (Water)	MDL (mg/Kg)	PQL (mg/Kg)
Mercury	0.00015	0.0002

Title 22 Mercury by EPA 7471 (Soil)	MDL (mg/Kg)	PQL (mg/Kg)
Mercury	0.046	0.1

OC Pesticides (EPA 8081A) Water and Soil MDL/PQL

OCP Pesticides (EPA 8081A) Water	MDL ug/L	PQL ug/L
4,4´-DDD	0.003	0.02
4,4´-DDE	0.005	0.02
4,4´-DDT	0.003	0.02
Aldrin	0.007	0.02
alpha-BHC	0.004	0.02
alpha-Chlordane	0.005	0.02
beta-BHC	0.005	0.02
Chlordane	0.13	0.25
delta-BHC	0.004	0.02
Dieldrin	0.005	0.02
Endosulfan I	0.005	0.02
Endosulfan II	0.003	0.02
Endosulfan sulfate	0.003	0.02
Endrin	0.005	0.02
Endrin aldehyde	0.003	0.02
Endrin ketone	0.003	0.02
gamma-BHC	0.004	0.02
gamma-Chlordane	0.005	0.02
Heptachlor	0.004	0.02
Heptachlor epoxide	0.005	0.02
Methoxychlor	0.003	0.05
Toxaphene	0.31	1

OCP Pecticides (8081A) Soil	MDL ug/Kg	PQL ug/Kg
4,4´-DDD	0.47	2
4,4´-DDE	0.476	2
4,4´-DDT	0.809	2
Aldrin	0.44	2
alpha-BHC	0.439	2
alpha-Chlordane	0.358	2
beta-BHC	0.364	2
Chlordane	10	20
delta-BHC	0.49	2
Dieldrin	0.427	2
Endosulfan I	0.59	2
Endosulfan II	1.526	2
Endosulfan sulfate	0.489	2
Endrin	0.569	2
Endrin aldehyde	1.028	2
Endrin ketone	0.401	2
gamma-BHC	0.396	2
gamma-Chlordane	0.42	2
Heptachlor	1.1	2
Heptachlor epoxide	0.316	2
Methoxychlor	0.616	5
Toxaphene	10	100

PCBs (EPA 8082) Water and Soil MDL/PQL

PCBs in Water (EPA 8082B)	MDL ug/L	PQL ug/L
Aroclor 1016	0.7	10
Aroclor 1221	5.6	10
Aroclor 1232	1.3	10
Aroclor 1242	4.1	10
Aroclor 1248	5.2	10
Aroclor 1254	2	10
Aroclor 1260	0.47	10

PCBs in Soil (EPA 8082B)	MDL mg/Kg	PQL mg/Kg
Aroclor 1016	0.023	0.1
Aroclor 1221	0.092	0.2
Aroclor 1232	0.046	0.1
Aroclor 1242	0.043	0.1
Aroclor 1248	0.036	0.1
Aroclor 1254	0.024	0.1
Aroclor 1260	0.027	0.1

EPA 8260B (Full List) Water MDL/PQL

8260B (Water)	MDL ug/L	PQL ug/L
1,1,1,2-Tetrachloroethane	0.56	1
1,1,1-Trichloroethane	0.26	0.5
1,1,2,2-Tetrachloroethane	0.56	1
1,1,2-Trichloroethane	0.22	0.5
1,1-Dichloroethane	0.34	0.5
1,1-Dichloroethene	0.34	1
1,1-Dichloropropene	0.3	0.5
1,2,3-Trichlorobenzene	0.21	1
1,2,3-Trichloropropane	0.53	1
1,2,4-Trichlorobenzene	0.2	1
1,2,4-Trimethylbenzene	0.35	0.5
1,2-Dibromo-3-chloropropane	0.4	0.5
1,2-Dibromoethane (EDB)	0.36	0.5
1,2-Dichlorobenzene	0.21	0.5
1,2-Dichloroethane (EDC)	0.36	0.5
1,2-Dichloropropane	0.28	1
1,3,5-Trimethylbenzene	0.38	0.5
1,3-Dichlorobenzene	0.23	0.5
1,3-Dichloropropene	0.35	0.5
1,4-Dichlorobenzene	0.27	0.5
2,2-Dichloropropane	0.36	0.5
2-Chloroethyl vinyl ether	0.91	1
2-Chlorotoluene	0.39	0.5
4-Chlorotoluene	0.36	0.5
4-Isopropyltoluene	0.35	0.5
Acetone	5.6	10
Benzene	0.34	0.5
Bromobenzene	0.3	0.5
Bromochloromethane	0.34	0.5
Bromodichloromethane	0.24	0.5
Bromoform	0.65	1
Bromomethane	1	1
Carbon tetrachloride	0.29	1
Chlorobenzene	0.31	0.5
Chloroform	0.29	0.5
Chloromethane	0.44	0.5
cis-1,2-Dichloroethene	0.36	0.5
cis-1,3-Dichloropropene	0.31	0.5
Dibromochloromethane	0.36	0.5
Dibromomethane	0.35	0.5
Dichlorodifluoromethane	0.32	0.5
Diisopropyl ether (DIPE)	0.45	0.5
Ethyl tert-butyl ether (ETBE)	0.42	0.5
Ethyl Benzene	0.15	0.5
1,1,1,2-Tetrachloroethane	0.023	0.1
Hexachlorobutadiene	0.22	0.5
Isopropylbenzene	0.74	1
Methyl tert-butyl ether (MTBE)	0.39	0.5
Methylene chloride	0.85	5
Naphthalene	0.2	1
n-Butylbenzene	0.22	0.5
n-Propylbenzene	0.25	0.5
sec-Butylbenzene	0.32	0.5
Styrene	0.28	0.5
t-Butyl alcohol (t-Butanol)	1.5	5
tert-Amyl methyl ether (TAME)	0.32	0.5
tert-Butylbenzene	0.36	0.5
Tetrachloroethene	0.24	0.5
Toluene	0.3	0.5
trans-1,2-Dichloroethene	0.5	0.5
trans-1,3-Dichloropropene	0.45	0.5
Trichloroethene	0.31	0.5
Trichlorofluoromethane	0.26	0.5
Vinyl chloride	0.36	0.5
m,p-Xylene	0.53	1
o-Xylene	0.24	1
Xylenes, Total	0.77	1.5

EPA 8260B (Full List) Soil MDL/PQL

8260B (Soil)	MDL ug/kg	PQL ug/Kg
1,1,1,2-Tetrachloroethane	2.916	10
1,1,1-Trichloroethane	3.44	10
1,1,2,2-Tetrachloroethane	4.14	10
1,1,2-Trichloroethane	2.262	10
1,1-Dichloroethane	3.1	10
1,1-Dichloroethene	2.08	10
1,1-Dichloropropene	3.95	10
1,2,3-Trichlorobenzene	5.64	10
1,2,3-Trichloropropane	8.79	10
1,2,4-Trichlorobenzene	5.19	10
1,2,4-Trimethylbenzene	4.56	10
1,2-Dibromo-3-chloropropane	4.52	10
1,2-Dibromoethane (EDB)	1.94	10
1,2-Dichlorobenzene	4.45	10
1,2-Dichloroethane (EDC)	3.28	10
1,2-Dichloropropane	3.46	10
1,3,5-Trimethylbenzene	4.48	10
1,3-Dichlorobenzene	3.99	10
1,3-Dichloropropane	4.06	10
1,4-Dichlorobenzene	4.07	10
2,2-Dichloropropane	2.27	10
2-Chloroethyl vinyl ether	6.11	10
2-Chlorotoluene	3.36	10
4-Chlorotoluene	3.36	10
4-Isopropyltoluene	1.99	10
Benzene	2.77	10
Bromobenzene	2.77	10
Bromochloromethane	7.93	10
Bromodichloromethane	3.04	10
Bromoform	3.31	10
Bromomethane	2.11	10
Carbon tetrachloride	4.25	10
Chlorobenzene	3.35	10
Chloroform	3.64	10
Chloromethane	2.46	10
cis-1,2-Dichloroethene	3.39	10
cis-1,3-Dichloropropene	2.61	10
Dibromochloromethane	3.06	10
Dibromomethane	2.2	10
Dichlorodifluoromethane	4.53	10
Ethanol	20	50
Ethyl tert-butyl ether (ETBE)	2.33	10
Ethylbenzene	2.83	10

8260B (Soil)	MDL ug/kg	PQL ug/Kg
1,1,1,2-Tetrachloroethane	0.858	10
Hexachlorobutadiene	5.53	10
Isopropyl ether (IPE)	3.03	10
Isopropylbenzene	2.94	10
Methyl tert-butyl ether (MTBE)	7.6	10
Methylene chloride	2.29	50
Naphthalene	9.87	20
n-Butylbenzene	5.09	10
n-Propylbenzene	4.05	10
sec-Butylbenzene	4.44	10
Styrene	3.4	10
t-Butyl alcohol (t-Butanol)	31.38	50
tert-Amyl methyl ether (TAME)	3.03	10
tert-Butylbenzene	4.16	10
Tetrachloroethene	3.56	10
Toluene	2.36	10
trans-1,2-Dichloroethene	3.34	10
trans-1,3-Dichloropropene	3.86	10
Trichloroethene	4.077	10
Trichlorofluoromethane	1.84	10
Vinyl chloride	1.78	10

EPA 8270C Soil MDL/PQL

8270C in Soil	MDL mg/Kg	PQL mg/Kg
1,2,4,5-Tetrachlorobenzene	0.074	0.33
1,2,4-Trichlorobenzene	0.072	0.33
1,2-Dichlorobenzene	0.074	0.33
1,3-Dichlorobenzene	0.067	0.33
1,3-Dinitrobenzene	0.122	0.33
1,4-Dichlorobenzene	0.096	0.33
2,3,4,6-Tetrachlorophenol	0.105	0.33
2,4,5-Trichlorophenol	0.134	0.66
2,4,6-Trichlorophenol	0.063	1.7
2,4-Dichlorophenol	0.03	0.33
2,4-Dimethylphenol	0.027	0.33
2,4-Dinitrophenol	0.06	0.33
2,4-Dinitrotoluene	0.13	0.33
2,6-Dichlorophenol	0.085	0.33
2,6-Dinitrotoluene	0.119	0.33
2-Chloronaphthalene	0.07	0.33
2-Chlorophenol	0.053	0.66
2-Methylnaphthalene	0.154	1.7
2-Methylphenol	0.13	0.33
2-Nitroaniline	0.046	0.33
2-Nitrophenol	0.067	0.33
3,3´-Dichlorobenzidine	0.082	0.33
3-Nitroaniline	0.103	0.33
4,6-Dinitro-2-methylphenol	0.067	0.33
4-Bromophenyl phenyl ether	0.081	0.33
4-Chloro-3-methylphenol	0.103	0.33
4-Chloroaniline	0.081	0.33
4-Chlorophenyl phenyl ether	0.067	0.33
4-Methylphenol	0.097	0.33
4-Nitroaniline	0.086	0.33
4-Nitrophenol	0.124	0.33
Acenaphthene	0.138	0.33
Acenaphthylene	0.151	0.33
Aniline	0.378	3.3
Anthracene	0.152	0.33

8270C in Soil	MDL mg/Kg	PQL mg/Lg
Benzidine	0.378	3.3
Benzo(g,h,i)perylene	0.152	0.33
Benzo[a]pyrene	0.136	0.33
Benzo[b]fluoranthene	0.134	0.33
Benzo[k]fluoranthene	0.171	0.33
Benzoic acid	5.65	6.66
Benzyl alcohol	0.105	6.66
Bis(2-chloroethoxy)methane	0.059	0.33
Bis(2-chloroethyl)ether	0.069	0.33
Bis(2-chloroisopropyl)ether	0.069	0.33
Bis(2-ethylhexyl)phthalate	0.084	0.33
Butyl benzyl phthalate	0.09	0.33
Chrysene	0.178	0.66
Dibenz(a,h)anthracene	0.153	0.33
Dibenzofuran	0.079	0.33
Diethyl phthalate	0.118	0.33
Dimethyl phthalate	0.119	0.33
Di-n-butyl phthalate	0.109	0.33
Di-n-octyl phthalate	0.139	0.33
Diphenylamine	0.137	0.33
Fluoranthene	0.1	0.33
Fluorene	0.102	0.33
Hexachlorobenzene	0.066	0.33
Hexachlorobutadiene	0.028	0.33
Hexachlorocyclopentadiene	0.047	0.33
Hexachloroethane	0.132	0.33
Indeno(1,2,3-cd)pyrene	0.058	0.33
Isophorone	0.091	0.33
Naphthalene	0.032	0.33
Nitrobenzene	0.111	0.33
N-Nitrosodimethylamine	0.094	0.33
N-Nitrosodi-n-propylamine	0.11	0.33
Phenanthrene	0.143	0.33
Phenol	0.13	0.33
Pyridine	0.11	0.33

TEPH and TPPH in Water and Soil MDL/PQL

TEPH (8015B Mod) - mg/Kg	MDL	PQL
Stoddard Solvent -SG	-	2
TPH (Bunker Oil-SG)	-	4
TPH (Diesel-SG)	0.83	2
TPH (Fuel Oil-SG)	-	4
TPH (Heating Oil-SG)	-	2
TPH (Hydraulic Oil-SG)	-	4
TPH (Jet Fuel-SG)	-	2
TPH (Kerosene-SG)	-	2
TPH (Mineral Oil-SG)	-	4
TPH (Motor Oil-SG)	0.97	4
TPH (Transformer Oil-SG)	-	4

TEPH (8015B) Mod - mg/L	MDL	PQL
Stoddard Solvent -SG	-	0.1
TPH (Bunker Oil-SG)	-	0.2
TPH (Diesel-SG)	0.0287	0.1
TPH (Fuel Oil-SG)	-	0.1
TPH (Heating Oil-SG)	-	0.1
TPH (Hydraulic Oil-SG)	-	0.2
TPH (Jet Fuel-SG)	-	0.1
TPH (Kerosene-SG)	-	0.1
TPH (Mineral Oil-SG)	-	0.2
TPH (Motor Oil-SG)	0.092	0.2
TPH (Transformer Oil-SG)	-	0.2

TPPH - GCMS - ug/Kg	MDL	PQL
TPH (Aviation Gas)	-	100
TPH (Gasoline)	17	100
TPH (Mineral Spirits)	-	100

TPPH - GCMS - ug/L	MDL	PQL
TPH (Aviation Gas)	-	50
TPH (Gasoline)	21.54	50
TPH (Mineral Spirits)	-	50

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QC Acceptance Limits TEPH in Soil by SW8015B (mod)

QC Type	**Frequency**	**Spiking Compounds**	**Acceptance Limits**
Calibration	as needed, upon2X CCV failure , when systemic change occurs, replacement of column	Diesel #2/Motor Oil* Pentacosane (surrogate)	RSD <20% or R>0.99
ICV	After each calibration	Diesel #2/Motor Oil Pentacosane (surrogate)	+/- 15% known concentration
CCV	Every 10 analytical samples and the beginning and end of any analytical sequence	Diesel #2 and Surrogate	+/- 20% known concentration
Method Blank	Prepared and analyzed with each batch of up to 20 field samples	Pentacosane	61.5 - 133
Lab Control Sample	Prepared and analyzed with each batch of up to 20 field samples	Diesel #2 and Surrogate	50.8 - 111 and 61.5 - 133
Lab Control Sample Dup	Prepared and analyzed with each batch of up to 20 field samples	Diesel #2 and Surrogate	50.8 - 111 and 61.5 - 133
Matrix Spike	Prepared and analyzed with each batch of up to 20 field samples	Diesel #2 and Surrogate	50.8 - 111 and 61.5 - 133
Matrix Spike Dup	Prepared and analyzed with each batch of up to 20 field samples	Diesel #2 and Surrogate	50.8 - 111 and 61.5 - 133
Surrogates in QC and Samples	Spiked in every calibration standard, field sample and QC sample	Pentacosane	61.5 - 133

* Default compounds used for TPH Extractable Curve. A variety of other fuels are available upon client request:
Kerosene, Fuel Oil, Jet A, JP-4, 5,7,8, JetFuel, Bunker C, Hydraulic Oil , Transformer Oil, Laquer Thinner, Mineral Oil,
The same criteria is required for what ever fuels are used in the calibration.

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QC Acceptance Limits SVOC BNA in Soil by SW8270C

QC Type	Frequency	Spiking Compounds	Acceptance Limits
Calibration	as needed, upon2X CCV failure , when systemic change occurs, replacement of column	Full Compound List and 6 Surrogates	RSD <20% or R>0.995
CCCs	after each calibration	method specified	each must be <30% RSD (SOP section 9.5.8 for list)
ICV	After each calibration	Full Compound List and 6 Surrogates	+/- 15% known concentration average for all compounds
Tuning	Every 12 hours and at the beginning of any analytical sequence	DFTPP	Per 8270 Method Requirements (SOP SVO-2043 section 9.3.1)
CCV/SPCC	Every 12 hours and at the beginning of any analytical sequence	Full Compound List and 6 Surrogates	+/- 15% known concentration average for all compounds/SPCC 0.050 min response factor
Method Blank	Prepared and analyzed with each batch of up to 20 field samples	6 surrogates	BNA Compounds <10% of the PQL. surrogates -see below
Lab Control Sample	Prepared and analyzed with each batch of up to 20 field samples	11 Compounds and 6 surrogates	see below
Lab Control Sample Dup	Prepared and analyzed with each batch of up to 20 field samples	11 Compounds and 6 surrogates	see below
Matrix Spike	Prepared and analyzed with each batch of up to 20 field samples	11 Compounds and 6 surrogates	see below
Matrix Spike Dup	Prepared and analyzed with each batch of up to 20 field samples	11 Compounds and 6 surrogates	see below
Surrogates in QC and Samples	Spiked in every calibration standard, field sample and QC sample	6 surrogates	see below

Spike Compounds	Limits	Surrogates	Limits
Phenol	16 - 98.6	Phenol-d6	24 - 113
2-Chlorphenol	12.9 - 91.3	2-Fluorophenol	25 - 113
1,4-DCB	21.9 -79.8	2,4,6-Tribromophenol	19 - 122
N-nitro-di-n-propylamine	15.5 - 116	Nitrobenzene-d5	23 - 120
1,2,4-TCB	31.7 - 85.1	2-Fluorobiphenyl	30 - 115
4,-Chloro-3-methylphenol	23.8 - 116	p-Terphenyl-d14	18 - 137
Acenaphthene	29.1 - 94.8		
4-Nitrophenol	10.4 - 131		
2,4-Dinitrotoluene	30.8 - 124		
Pentachlorophenol	19.9 - 133		
Pyrene	34.2 - 127		

SPCCs:
N-nitro-di-n-propylamine
Hexachlorocyclopentadiene
2,4,-Dinitrophenol
4-Nitrophenol

% RSD < 30%

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SW 6010B CAM 17 in Soil QC Acceptance Limits

QC Sample Type	Frequency	Spiking Compounds	Acceptance Limits
Initial Calibration Verification - ICV (2nd Source standard)	After each calibration	All CAM 17 metals	With +/- 10% of known concentration
Initial Calibration Blank - ICB	After ICV	All CAM 17 metals	ABS < 10% Reporting Limit
Continuing Calibration Verification (CCV) (can be same source as calibration standards)	Every 10 samples and close of analytical run	All CAM 17 metals	With +/- 10% of known concentration
Continuing Calibration Blank (CCB)	After every CCV and ICS check	All CAM 17 metals	With +/- 10% of known concentration
Laboratory Control Sample	One per batch of 20 samples or fewer	All CAM 17 metals	Within +/- 25 % of known value LCS/LCSD
Laboratory Control Sample Duplicate **	One per batch of 20 samples or fewer	All CAM 17 metals	Within +/- 25 % of known value LCS/LCSD %RPD = ABS +/- 30%
Matrix Spike	One per batch of 20 samples or fewer	All CAM 17 metals	Element Specific Limits established with laboratory control charts
Matrix Spike Duplicate **	One per batch of 20 samples or fewer (when submitted mass allows)	All CAM 17 metals	Element Specific Limits established with laboratory control charts, %RPD = ABS +/- 30%
Duplicate Sample	One per batch of 20 samples or fewer	All CAM 17 metals	ABS < 20% RPD for duplicate pair
Method Blank	One per batch of 20 samples or fewer	All CAM 17 metals	ABS < 10% Reporting Limit

Calibration replaced daily for
both ICP and CVAA - a corr.
Coeff of r^2 of 0.99 or better

QUALITY MANUAL

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FOR

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SECTION 2 - TABLE OF CONTENTS

SECTION 3 – INTRODUCTION AND SCOPE

The purpose of this *Quality Manual* is to outline the quality system for the laboratory. The *Quality Manual* defines the policies, procedures, and documentation that assure analytical services continually meet a defined standard of quality that is designed to provide clients with data of known and documented quality and, where applicable, demonstrate regulatory compliance.

POLICY

The Quality Manual sets the standard under which all laboratory operations are performed including the laboratory's organization, objectives, and operating philosophy.

3.1 Scope of Testing

The laboratory scope of analytical testing services includes those listed in Appendix A

3.2 Table of Contents, References and Appendices

The table of contents is in Section 2 of this Manual. This *Quality Manual* uses the references from the 2003 NELAC Standard, Chapter 5, Appendix A.

3.3 Glossary and Acronyms Used

Quality control terms are generally defined within the section that describes the activity.

Glossary

Appendix A, Chapter 1, 2003 NELAC Standards

Acronyms

A list of acronyms used in this document and their definitions are:

AA	–	Accrediting Authority
ANSI	–	American National Standards Institute
ASQC	–	American Society for Quality Control
ASTM	–	American Society for Testing and Materials
Blk	–	Blank
°C	–	degrees Celsius
cal	–	calibration
CAS	–	Chemical Abstract Service
CCV	–	Continuing calibration verification
COC	–	Chain of custody
DO	–	Dissolved oxygen
DOC	–	Demonstration of Capability
EPA	–	Environmental Protection Agency
g/L	–	grams per liter
GC/MS	–	gas chromatography/mass spectrometry
ICP-MS	–	inductively coupled plasma-mass spectrometry
ICV	–	Initial calibration verification
ISO/IEC	–	International Organization for Standardization/International Electrochemical Commission
lb/in2	–	pound per square inch

LCS – Laboratory control sample
LFB – Laboratory fortified blank
MDL – method detection limit
mg/Kg – milligrams per kilogram
mg/L – milligrams per liter
MS – matrix spike
MSD – matrix spike duplicate
NELAC – National Environmental Laboratory Accreditation Conference
NELAP – National Environmental Laboratory Accreditation Program
NIST – National Institute of Standards and Technology
PPBV - Parts per billion by volume (air unit)
PT – Proficiency Test(ing)
PTOB – Proficiency Testing Oversight Body
PTPA – Proficiency Testing Provider Accreditor
QA – Quality Assurance
QC – Quality Control
QM – *Quality Manual*
QAM – Quality Assurance Manager
RL – Reporting level
RPD – Relative percent difference
RSD – Relative standard deviation
SOPs – Standard operating procedures
spk – spike
std – standard
TNI - The NELAC institute
ug/Kg – micrograms per kilogram
ug/L - microgram per liter
ug/m3 - micrograms per cubic meter (air unit)
UV – Ultraviolet
VOC – Volatile organic compound
WET – Waste Extraction Threshold

SECTION 4 – ORGANIZATIONAL ROLES AND RESPONSIBILITIES

POLICY
The laboratory is a legally identifiable organization. Through application of the policies and procedures outlined in this chapter, the laboratory assures that it is impartial and that personnel are free from undue commercial, financial, or other undue pressures that might influence their technical judgment. The laboratory is responsible for carrying out testing activities that meet the requirements of the NELAC Standard and that meet the needs of the client.

4.1 Laboratory Organizational Structure

Policy
The organizational structure indicated minimizes the potential for conflicting or undue interests that might influence the technical judgment of analytical personnel.

The laboratory is a commercial organization. The tax ID number is available upon request, if applicable.

The current Organizational Chart can be found in Appendix B

4.2 Responsibility and Authority

MANAGEMENT includes the titles, Laboratory Director, Technical Directors (Department Managers) the Quality Manager.

Policy
Management has overall responsibility for the technical operations and authority needed to generate the required quality of laboratory operations.

Policy
Management’s commitment to quality and to the Quality System is stated in the Quality Policy, which is upheld through the application of related policies and procedures.

Policy
Management ensures technical competence of personnel operating equipment, performing tests, evaluating results, or signing reports, and limits authority to perform laboratory functions to those appropriately trained and/or supervised.

Procedure

The assignment of responsibilities, authorities, and interrelationships of the personnel who manage, perform, or verify work affecting the quality of environmental tests is documented in **Section 17.1**.

Management bears specific responsibility for maintenance of the Quality System. This includes defining roles and responsibilities to personnel, approving documents, providing required training, providing a procedure for confidential reporting of data integrity issues, and periodically reviewing data, procedures, and documentation.

Management ensures that audit findings and corrective actions are completed within required time frames.

Designated alternates are appointed by management during the absence of the Laboratory Manager, Technical Director(s) or the Quality Manager, and always if the absence is more than 15 days.

Management is responsible for defining the minimal level of education, qualifications, experience, and skills necessary for all positions in the laboratory and assuring that technical staff has demonstrated capabilities in their tasks.

Training is kept up to date as described in Section **17.4** by periodic review of training records and through employee performance review.

SECTION 5 – QUALITY SYSTEMS

The laboratory's Quality System is documented in this *Quality Manual* and associated quality system documents. Together they describe the policies, objectives, principles, organizational authority, responsibilities, accountability, and implementation plan of the organization for ensuring quality in its work processes, products, and services.

5.1 Quality Policy

A Quality Policy statement, including objectives and commitments by top management is required in the Quality Manual. The quality policy is signed and dated, and is issued under the authority of the highest level of laboratory management, which demonstrates management's commitment to integrity, ethics, the quality system and associated standards.

Quality Policy Statement

The objective of the quality system and the commitment of management is to consistently provide our customers with data of known and documented quality that meets their requirements. Our policy is to use good professional practices, to maintain quality, to uphold the highest quality of service, and to comply with the NELAC Standard. The laboratory ensures that personnel are free from any commercial, financial, and other undue pressures, which might adversely affect the quality of work. This policy is implemented and enforced through the unequivocal commitment of management, at all levels, to the Quality Assurance (QA) principles and practices outlined in this manual. However, the primary responsibility for quality rests with each individual within the laboratory organization. Every laboratory employee must ensure that the generation and reporting of quality analytical data is a fundamental priority. Laboratory employees are required to familiarize themselves with the quality documentation and to implement the policies and procedures in their work. All employees are trained annually on ethical principles and procedures surrounding the data that is generated. The laboratory maintains a strict policy of client confidentiality.

5.2 Quality Manual

Policy

The Quality Manager ensures that the laboratory's policies and objectives for quality are documented by reference or by inclusion in the *Quality Manual*, and that the *Quality Manual* is communicated to, understood by, and implemented by all personnel concerned.

Policy

Where the *Quality Manual* documents laboratory requirements, a separate SOP or policy is not required.

Procedure

All employees sign a form, kept with their training records on file with the Quality Manager that states that they have read and understood the *Quality Manual*, including the quality policy.

The *Quality Manual* is a dynamic document that is maintained by the Quality Manager and up-dated at least annually and often more frequently.

SECTION 6 – DOCUMENT MANAGEMENT

This Section describes procedures for document management, which includes controlling, distributing, reviewing, and accepting modifications. The purpose of document management is to preclude the use of invalid and/or obsolete documents.

The laboratory manages three types of documents, 1) controlled, 2) approved, and 3) obsolete.

A CONTROLLED DOCUMENT is one that is uniquely identified, issued, tracked, and kept current as part of the quality system. Controlled documents may be internal documents or external documents.

APPROVED means reviewed, and either signed and dated, or acknowledged in writing or by secure electronic means by the issuing authority(ies).

OBSOLETE DOCUMENTS are documents that have been superseded by more recent versions.

POLICY

All documents that affect the quality of laboratory data are managed appropriate to the scope and depth required.

6.1 Controlled Documents

Policy

Documents will be reviewed and approved for use by the Quality Manager prior to issue.

Procedure

Documents are reviewed annually to ensure their contents are suitable and in compliance with the current quality systems requirements, and accurately describe current operations.

Approved copies of documents are available at all locations where operations are essential to the effective functions of the laboratory.

Copies of documents to distribute to laboratory personnel are consecutively numbered from 1 to the total number of printed copies such as “1 of 50” and are preceded by the ID “TLICD (Torrent Laboratory Inc Controlled Document). Management determines and lists the employees to whom the documents will be distributed. The sequential number of each copy is recorded next to the individual’s name in the distribution list. The date of distribution is recorded. The employee initials that the copy was received. When the document is no longer valid, the date the document became obsolete is recorded, and the retrieved copies are checked off next to each employee’s name.

Controlled internal documents are uniquely identified with 1) date of issue, 2) revision identification, 3) page number, 4) the total number of pages and 5) the signatures of the issuing authority (i.e. management).

A master list of controlled internal documents is maintained that includes distribution, location, and revision dates. A master list of controlled external documents is also maintained that includes title, author, copyright date, and date of publication, and location. The Quality Manager maintains the controlled document list. The controlled document list is updated as required and reviewed quarterly.

6.1.1 Document Changes to Controlled Documents

6.1.1.1 Paper Document Changes

Policy
Document changes are approved by the Quality Manager and/ or the Laboratory Director.

Policy
The document management process allows for handwritten modifications to documents. All had written changes must be dated and initialed by initiator, affected Technical Director and Quality Manager.

Procedure
All document changes must be approved. The modified document is then copied and distributed, and obsolete documents are removed.

Amendments to documents are incorporated into a new revision and reissued as soon as practicable.

6.1.1.2 Electronic Document Changes

Procedure
Suggested revisions to electronic documents are presented to Laboratory Director and/or Technical Director(s) for review and approval. Changes to electronic documents are approved either on an accompanying form or through electronic means (such as email, change tracking functions, or memoranda). Final approval must include the Quality Manager’s initials.

Where practicable, the altered text or new text in the draft is identified during the revision or review process to provide for easy identification of the modifications.

6.2 Obsolete Documents

Policy
All invalid or obsolete documents are removed from general distribution, or otherwise prevented from unintended use.

Procedure
Obsolete documents retained for legal use or historical knowledge preservation are appropriately marked and retained.

Obsolete documents are stored electronically and identified as “removed from service” with a “removed date”. All original hardcopies are collected and shredded.

6.3 Standard Operating Procedures

STANDARD OPERATING PROCEDURES (SOPs) are used to ensure consistency of application of common procedures, are written procedures that describe in detail how to accurately reproduce laboratory processes, and are of two types: 1) test method SOPs, which have specifically required details, and 2) general use SOPs which document the more general organizational procedures.

SOPs do not have to be formal documents with predefined section headings and contents. They can be less formal descriptions of procedures described in the *Quality Manual* or other documents.

Policy
Copies of all SOPs are accessible to all personnel.

Procedure
Each test method SOP indicates the effective date, the revision number, and the signature(s) of the Quality Manager, Technical Director(s), and Laboratory Director. QA Officer and/or the Laboratory Director sign general use and administrative SOPs.

6.3.1 Test Method SOPs

Policy
The laboratory has SOPs for all test methods within its scope, located in the Quality Manager’s office as well as in the appropriate department for which the SOP is directed, and for procedures that are part of the Quality System that accurately reflect how the analytical process is performed. A list of all test methods performed in the laboratory can be found in the Quality Manager’s master SOP files. Where equipment manuals or published methods accurately reflect laboratory procedures in detail, a separate SOP is not required.

Policy
Any deviation from a test method is documented, including both a description of the change made and a technical justification. The deviation from a test method is reported to the client.

Procedure
Each Test Method SOP includes or references (as applicable) the following:

a) identification of the test method;
b) applicable matrix or matrices;
c) detection limit;
d) scope and application, including components to be analyzed;
e) summary of the test method;
f) definitions;
g) interferences;
h) safety;
i) equipment and supplies;
j) reagents and standards;
k) sample collection, preservation, shipment and storage;
l) quality control, including acceptance criteria (5.4.10.6);
m) calibration and standardization;
n) procedure;
o) data analysis and calculations;
p) method performance;
q) pollution prevention;
r) data assessment and acceptance criteria for quality control measures;

s) corrective actions for out-of-control ;
t) contingencies for handling out-of-control or unacceptable data;
u) waste management;
v) references; and,
w) any tables, diagrams, flowcharts and validation data.

SECTION 7 – REVIEW OF REQUESTS, TENDERS AND CONTRACTS

POLICY

The review of all new work assures that oversight is provided so that requirements are clearly defined, the laboratory has adequate resources and capability, and the test method is applicable to the customer's needs. This process assures that all work will be given adequate attention without shortcuts that may compromise data quality.

Contracts for new work may be formal bids, signed documents, verbal, or electronic.

PROCEDURE

7.1 Procedure for the Review of Work Requests

The Quality manager in conjunction with the laboratory Director and/or Technical Directors determine if the laboratory has the necessary accreditations, and resources including schedule, equipment, deliverables, and personnel to meet the work request.

The Project Manager informs the client of the results of the review if it indicates any potential conflict, deficiency, accreditation issues, or inability of the lab to complete the work satisfactorily.

The client is informed of any deviation from the contract including the test method or sample handling processes. All differences between the request and the final contract are resolved and recorded before any work begins. It is necessary that the contract be acceptable to both the laboratory and the client.

The laboratory and client repeats the review process when there are amendments to the original contract. The participating personnel are given copies of the amendments.

7.2 Documentation of Review

Records are maintained for every contract or work request, when appropriate. This includes pertinent discussions with a client relating to the client's requirements or the results of the work during the period of execution of the contract. Records may include but are not limited to documented phone conversations, stored emails and written instructions submitted throughout the project progress.

SECTION 8 – SUBCONTRACTING OF TESTS

A SUBCONTRACT LABORATORY is defined as a laboratory external to this laboratory, or at a different location than the address indicated on the front cover of this manual, that performs analyses for this laboratory.

POLICY

When subcontracting analytical services, the laboratory assures work requiring accreditation is placed with an appropriately accredited laboratory or one that meets applicable statutory and regulatory requirements for performing the tests.

PROCEDURE

A list of subcontractors is maintained.

A copy of the certificate and analyte list for subcontractors may be retained as evidence of compliance. An approved subcontractor list is maintained and contains the certification number and accreditation authority for each laboratory.

The laboratory notifies the client of the intent to subcontract the work in writing.
When possible, the laboratory gains the approval of the client to subcontract their work prior to implementation, preferably in writing. Where appropriate, all quotes and login summaries sent to clients contain verbiage indicating the necessity of sub-contracting specific analyses.

The laboratory performing the subcontracted work is identified in the final report. The laboratory assumes responsibility to the client for the subcontractor’s work, except in the case where a client or a regulating authority specified which subcontractor is to be used. In such cases, records documenting the specific request are included in the final report.

SECTION 9 – PURCHASING SERVICES AND SUPPLIES

POLICY

The laboratory ensures that purchased supplies and services affecting the quality of environmental tests are of the required or specified quality by using approved suppliers and products.

POLICY

The laboratory has procedures for purchasing, receiving, and storage of supplies that affect the quality of environmental tests.

PROCEDURE

The Laboratory Director reviews and approves the supplier of services and supplies and the Quality Manager and /or Technical Manager(s) approves the technical content of purchasing documents prior to ordering.

Evaluation of suppliers is accomplished by signing packing slips or other supply receipt documents ensuring the supplier ships the product or material ordered and that the material is of the appropriate quality. The purchasing documents contain the data that adequately describe the services and supplies ordered. The personnel whom approved the original purchase is responsible for ensuring the proper receipt of the ordered materials by initialing and dating the packing slip that arrives with the material. The packing slip is returned to the purchasing department where it is kept on file until the invoice is paid.

The laboratory keeps a list of approved suppliers and notes, where appropriate, there traceability standards (NIST, ISO 9001:2000, AIHA, etc).

SECTION 10 – SERVICE TO THE CLIENT

The laboratory collaborates with clients and/or their representatives in clarifying their requests and in monitoring of the laboratory performance related to their work. Each request is reviewed to determine the nature of the request and the laboratory's ability to comply with the request within the confines of prevailing statutes and/or regulations without risk to the confidentiality of other clients.

10.1 Client Confidentiality

Policy
The laboratory confidentiality policy is to not divulge or release any information to a third party without proper authorization.

Policy
All electronic data (storage or transmissions) are kept confidential, based on technology and laboratory limits, as required by client or regulation.

Procedure

Client data and support documents are stored and/or released in manner in which the client’s confidentiality is assured. Project management maintains strict control of all documents and correspondence associated with each work request and/or work order received. Individual folders are generated for each work order and are filed by work order number rather than client name. An electronic folder is also produced with the client’s name and all pertinent materials either scanned and stored or initiated in electronic format and stored. The client files are found on a computer drive that is accessible by password protection to only project management and the quality manager.

Use of a confidentiality statement on emails, documents and transmitted (fax) information is mandated for all written correspondences.

SECTION 11 – COMPLAINTS

The purpose of this section is to assure that customer complaints are addressed and corrected. This includes requests to verify results or analytical data.

POLICY

The laboratory reviews all complaints and determines appropriate action.

PROCEDURE

All customer complaints are documented by the person receiving the complaint and addressed by appropriate personnel. Initial complaints are kept in a log within the Project Management department. If it is determined that a complaint is without merit, it is documented, and the client is contacted. If it is determined that the complaint has merit, a corrective action is initiated. See Section 13 for corrective action procedures.

SECTION 12 – CONTROL OF NON-CONFORMING WORK

NON-CONFORMING WORK is work that does not meet acceptance criteria or requirements. Non-conformances can include unacceptable quality control results (see Section 24 - Assuring the Quality of Results) or departures from standard operating procedures or test methods. Requests for departures from laboratory procedures are approved by the Quality Manager and documented. (see Attachment H)

POLICY

The policy for control of non-conforming work is to identify the non-conformance, determine if it will be permitted, and take appropriate action. All employees have the authority to stop work on samples when any aspect of the process does not conform to laboratory requirements.

PROCEDURE

The responsibilities and authorities for the management of non-conforming work are detailed in Section 17.1.3. The procedure for investigating and taking associated corrective actions of non-conforming work are described in Section 13.

The laboratory evaluates the significance of the nonconforming work, and takes corrective action immediately. The client is notified if their data has been impacted. Resumption of work after a non-conformance has been issued is authorized by the either the Technical Director(s) or the Quality Manager, dependent on the severity of the non-conformance.

Where non-conformances are the result of quality control failures that can readily be attributed to either matrix interferences and /or failures that do not impact the validity of the data being reported, the non-conformance is communicated to the client in the form of a narrative statement in the final report. The statement details the non-conformance as well as why the non-conformance was accepted and how/why the non-conformance does or does not affect the reported data.

Where a non-conformance deviates outside of the established quality control parameters in a manner that is detrimental to either the acceptance of the data for it's intended use or due to a process or system malfunction, a corrective action must be initiated as detailed in Section 13.

SECTION 13 – CORRECTIVE ACTION

CORRECTIVE ACTION is the action taken to eliminate the causes of an existing nonconformity, defect, or other undesirable situation in order to prevent recurrence (NELAC, 2003).

POLICY

Deficiencies cited in external assessments, internal quality audits, data reviews, complaints, or managerial reviews are documented and require corrective action. Corrective actions taken are appropriate for the magnitude of the problem and the degree of risk.

PROCEDURE

Technical Directors and/or the Quality Manager are responsible for initiating corrective action on routine data reviews (See Attachment E). The Quality Manager is responsible for monitoring and recording corrective actions.

All deficiencies are investigated and a corrective action plan developed and implemented if determined necessary. The implementation is monitored for effectiveness.

Specific corrective action protocols specified in test methods may over-ride general corrective action procedures specified in this manual.

13.1 Selection and Implementation of Corrective Actions

ROOT CAUSE is the condition or event that, if corrected or eliminated, would prevent the recurrence of a deficiency.

Policy

Once a non-conformance is noted, the first action is an investigation to determine the root cause. Records are maintained of non-conformances requiring corrective action to show that the root cause(s) was investigated, and includes the results of the investigation (See 13.2).

Where uncertainty arises regarding the best approach for analysis of the cause of the non-conformances that require corrective action, appropriate personnel will recommend corrective actions to be initiated.
The appropriate Technical Director ensures that corrective actions are discharged within the agreed upon time frame.

13.2 Monitoring of Corrective Action

Policy

Appropriate personnel will monitor implementation and documentation of the corrective action to assure that the corrective actions were effective.

Procedure

The appropriate personnel detailing the non-conformance being investigated initiate a Corrective Action form. A suggested course of action is made and approved of by either the Technical Director affected or the Quality Manager. The action is taken and the outcome is documented. If the course of action is successful and a return to control is achieved, the corrective action form is signed off by the Quality Manager and stored appropriately. Where necessary, an affected client is informed and a copy of the completed corrective action form may be provided. If the corrective action results in a fundamental change/improvement to an existing procedure, the change is documented and promptly handwritten into the current SOP revision. At time of SOP review, it is permanently added to the affected SOP and the SOP is given a progressive revision number.

13.3 Technical Corrective Action

CAUSE ANALYSIS in corrective action investigates the root cause of the problem.

Policy
Sample data associated with a failed quality control are evaluated for the need to be reanalyzed or qualified.

Procedure
Unacceptable quality control results are documented, and if the evaluation requires cause analysis, the cause and solution are recorded.

The analyst is responsible for initiating or recommending corrective actions and ensuring that failures of quality control acceptance criteria are documented. Analysts routinely implement corrective actions for data with unacceptable QC measures. First level correction may include re-analysis without further assessment. If the test method SOPs addresses the specific actions to take, they are followed. Otherwise, corrective actions start with assessment of the cause of the problem.

Technical directors review corrective action reports and suggest improvements, alternative approaches, and procedures where needed. If the data reported are affected adversely by the nonconformance, the client is notified in writing.

The discovery of a non-conformance for results that have already been reported to the client must be immediately evaluated for significance of the non-conformance, its acceptability to the client, and determination of the appropriate corrective action.

13.4 Exceptionally Permitting Departures from Documented Policies and Procedures

Policy
The laboratory allows the release of non-conforming data only with approval by the appropriate Technical Director and/or the Quality manager or their designee on a case-by-case basis. Planned departures from procedures or policies do not require audits or investigations.

Procedure
Permitted departures for non-conformances, such as QC failures, are fully documented and include the reason for the departure, the affected test method(s), the impact of the departure on the data, and the data. Departures are addressed through the use of Non-Conformance Memos within the laboratory and through Case Narratives that are submitted to client with the final report. Case Narratives describe to the client the non-conforming event, any actions taken and the reason(s) why the data is being reported despite the non-conforming circumstance.

SECTION 14 – PREVENTIVE ACTION

PREVENTIVE ACTION, rather than corrective action, aims at minimizing or eliminating inferior data quality or other non-conformance through scheduled maintenance and review, before the non-conformance occurs.

Preventive action includes, but is not limited to, review of QC data to identify quality trends, regularly scheduled staff quality meetings, annual budget reviews, annual managerial reviews, scheduled column trimming, running a new LIMS system in tandem with the old system to assure at least one working system, and other actions taken to prevent problems.

All employees have the authority to recommend preventive action procedures, however management is responsible for implementing preventive action.

SECTION 15 – CONTROL OF RECORDS

RECORDS are a subset of documents, usually data recordings that include annotations, such as daily refrigerator temperatures posted to a laboratory form, lists, spreadsheets, or analyst notes on a chromatogram. Records may be on any form of media, including electronic and hard copy. Records allow for the historical reconstruction of laboratory activities related to sample handling and analysis.

POLICY
The laboratory maintains a record system appropriate to its needs, records all laboratory activities, and complies with applicable standards or regulations as required.

PROCEDURE
The laboratory retains all original observations, calculations and derived data, calibration records, and a copy of the test report for a minimum of five years.

Records of all procedures to which a sample is subjected while in the possession of the laboratory are kept.

15.1 Records Management and Storage

Policy
Records, including electronic records, are easy to retrieve, legible, and protected from deterioration or damage; held secure and in confidence; and are available to accrediting authorities for a minimum of five years.

Policy
The laboratory maintains a record management system for control of laboratory notebooks, instrument logbooks, standards logbooks, and records for data reduction, validation, storage, and reporting.

Policy
Archived information and access logs are protected against fire, theft, loss, environmental deterioration, vermin, and in the case of electronic records, electronic or magnetic sources.

Policy
In the event that the laboratory transfers ownership or goes out of business, records are maintained or transferred according to the clients' instructions.

Procedure
All electronic records are backed-up monthly. Access to protected records is limited to laboratory management or their designees to prevent unauthorized access or amendment.

Procedures for identification, collection, access, filing, storage, and disposal of records are found detailed in the Administrative SOP – Records Management.

15.2 Legal Chain of Custody Records

EVIDENTIARY SAMPLE DATA are used as legal evidence.

Policy
Procedures for evidentiary samples are documented in a separate SOP, if applicable.

Torrent laboratory provides a Chain of Custody (COC) that contains spaces for all information relevant to the material being submitted for analysis. While a client is free to use their own COC, all relevant information must be present on that COC before samples will be accepted at Torrent Laboratory for analysis. Below is the minimum number of items expected to be on an acceptable COC:

Client Name
Project Manger Name
Client Contact Information (phone, FAX and email)
Sampling Date
Sampling Location
Unique Client ID for each Sample received
Requested Analysis to be performed (description or method numbers)
Preservative Used in sample containers (if any)
“Relinquished By” Signature
“Received By” Signature
Special handling instructions
Requested Turn around Time (TAT) for report delivery

Any additional communication with the client regarding samples received on a COC including, but not limited to, separate instructions, emails, faxes or written phone records detailing conversations between project management and the client, become a part of the legal COC and copies will be included in the final report along with the original COC

SECTION 16 – AUDITS AND MANAGEMENT REVIEW

AUDITS measure laboratory performance and verify compliance with accreditation/ certification and project requirements. Audits specifically provide management with an on-going assessment of the quality system. They are also instrumental in identifying areas where improvement in the quality system will increase the reliability of data. Audits are of four main types: internal, external, performance, and system.

Notification of clients for events that cast doubt on the validity of the results is completed within one working day of the knowledge of said doubt on data validity.

16.1 Internal Audits

Policy
The laboratory conducts internal audits of its quality systems activities, including data integrity, and the use of trained and qualified personnel at least annually. Personnel may not audit their own activities except when it can be demonstrated that an effective audit will be carried out.

Procedure
Annually, the laboratory prepares a schedule of internal audits to be performed during the year. The schedule is prepared and distributed to the affected departments within the 1st quarter of each calendar year and audits are completed by the 3rd quarter of each calendar year. These audits verify compliance with the requirements of the quality system, including analytical methods, SOPs, ethics policies, other laboratory policies, and the NELAC Standard.

It is the responsibility of the Quality Manager to plan and organize audits as required by the schedule and requested by management.

Auditing forms specifically designed for each department to be audits are employed and include but are not limited to NELAC audit forms, QA Manager designed checklists and CA ELAP provided checklists.

The area audited, the audit findings, and corrective actions are recorded and a report written and submitted to the Laboratory Director.

All investigations that result in findings of inappropriate activity are documented and include any disciplinary actions involved, corrective actions taken, and all appropriate notifications of clients.

Clients are notified promptly, in writing, when audit findings cast doubt on the validity of the data.

In the forth quarter of each calendar year, audits are reviewed after completion to assure that corrective actions were implemented and effective. A follow-up report is generated and presented to the Laboratory Director during the year end quality system assessment meeting.

16.2 External Audits

Policy
It is the laboratory's policy to cooperate and assist with all external audits, whether performed by clients or an accrediting authority.

Policy
All external audits are fully documented and tracked to closure.

Procedure
Management ensures that all areas of the laboratory are accessible to auditors as applicable and that appropriate personnel are available to assist in conducting the audit.

Any findings related to an external audit follow corrective action procedures. Where specific requests by outside auditors not related to regulating authorities are made, accommodations are incorporated into the operating system as long as they are not disruptive to or in opposition to NELAC quality control guidelines.

Management ensures that corrective actions are carried out within the timeframe specified by the auditor(s). Reports are initiated by the Quality Manager and submitted to the auditing authority and the Laboratory Director. Any corrective actions associated with an audit finding must contain both a planned implementation date and an actual implementation date. The actual implementation date may not be greater than 30 days past the planned implementation date without notifying both the auditing authorities and the laboratory director.

16.3 Performance Audits

Performance audits may be Proficiency Test Samples, internal single-blind samples, double-blind samples through a provider or client, or anything that tests the performance of the analyst and method.

The policy and procedures for Proficiency Test Samples are discussed in **Section 23.7**

16.4 System Audits and Management Reviews

Policy
The Laboratory Director reviews the quality system and maintains records of review findings and actions.

Procedure
The quality system is reviewed annually, and findings are recorded. Managers assure that actions are performed within agreed time frames.

Findings from management reviews are recorded. These records ensure that corrective actions are completed in an appropriate time frame not to exceed two weeks from the outcome of the corrective action investigation.

SECTION 17 – PERSONNEL, TRAINING, AND DATA INTEGRITY

17.1 Job Descriptions and Minimum Employment Requirements

Policy

Job descriptions are available for all positions that manage, perform, or verify work affecting data quality, and are located in the Laboratory Director’s office. All personnel employed by Torrent must have received, at a minimum, a high school diploma or a high school equivalency certificate recognized by the State of California. Non-technical positions require a minimum of a high school diploma or equivalent. Positions relating to sample receiving and sample preparation have a minimum requirement of high school graduation and the enrollment in a higher education program including but not limited to junior college, state college or university enrollment. A certificate program may be substituted for higher-level education enrollment if deemed by the Laboratory Director to be sufficient for a sample receiving or sample preparation position. All analytical positions require a minimum of a BA/BS in physical, life or biological science. Technical Director positions require a BA/BS in physical, life or biological science and either an advanced degree within the area of discipline of their hire or a sufficient number of years of experience within the area of discipline to warrant a Technical Director position (generally in excess of 10 years). The Quality Manager position requires a minimum of a BA/BS degree in physical, life or biological science and working experience within the laboratory environment within two or more disciplines. Participation in Industry Certificate programs is encouraged but not required.

Procedure

Job descriptions include the specific tasks, minimum education and qualification details, skills, and experience required for each position.

17.1.1 Laboratory Director

The Laboratory Director is in charge of all laboratory activities, and is the highest level manager. The laboratory director signs the *Quality Manual*.

17.1.2 Technical Director(s)

Day to day supervision of technical laboratory operations is the responsibility of the Technical Directors who are full-time members of the staff and who assure reliable data through the following activities: monitoring quality control, corroborating the analysis performed, and signing demonstrations of capability.

The Technical Directors certify that personnel with appropriate educational and/or technical background perform all tests for which the laboratory is accredited.

The Technical Directors sign SOPs appropriate to their department, Corrective Action Forms, Demonstration of Capability Forms for personnel within their department and the *Quality Manua*l.

17.1.3 Quality Manager

The Quality Manager has the authority and responsibility for ensuring that the quality system is implemented and followed.

The Quality Manager has direct access to the Laboratory Director and is independent of operations where the Quality Manager has oversight.

The Quality Manager:

- is the focal point for the quality system and has oversight of quality control data.
- evaluates data objectively and performs assessments without managerial influence.
- arranges for, or conducts, internal audits at least annually; and,
- notifies laboratory management of deficiencies (or opportunities for continuous improvement) and monitors corrective actions.
- keeps the *Quality Manual* current.
- signs all demonstrations of capability.
- signs all SOPs
- signs final corrective action implementation documents

17.2 Data Integrity and Ethics

DATA INTEGRITY is the result of the processes that together assure valid data of known and documented quality.

Data integrity and ethics procedures in the laboratory include training, signed, and dated integrity documentation for all laboratory employees, periodic monitoring of data integrity, and documented data integrity procedures. The Laboratory Director manages these records. The QA Manager keeps copies of the Ethics and Integrity Acceptance Forms.

Policy
Technical managers uphold the spirit and intent by supporting integrity procedures, by enforcing data integrity procedures, and by signing and dating the data integrity procedure training forms.

Policy
Data integrity procedures and evidence of inappropriate actions are reviewed annually or through regularly scheduled internal audits, and are updated by management.

Policy
The mechanism for confidential reporting of ethics and data integrity issues is (1) unrestricted access to senior management, (2) an assurance that personnel will not be treated unfairly for reporting instances of ethics and data integrity breaches, and (3) anonymous reporting.

Policy
Employees are required to understand and accept, through training and review of quality systems documents that any infractions of the laboratory data integrity procedures will result in a detailed investigation that could lead to very serious consequences such as immediate termination and/or civil/criminal prosecution.

Policy
Any potential data integrity issue is handled confidentially until a follow-up evaluation, full investigation, or other appropriate actions have been completed and the issues clarified. Inappropriate activities are documented, including disciplinary actions, corrective actions, and notifications of clients, if applicable. These documents are maintained for a minimum of 5 years.

Procedure
Any determination for detailed investigation of data integrity issues must be communicated to senior management. Allegations are investigated and remain confidential to the extent necessary.

Documentation for all investigations that result in findings of inappropriate activity must include any disciplinary actions involved, corrective actions taken, and all appropriate notifications of clients.

Data integrity procedures are reviewed annually and are periodically monitored through in-depth data review, records review, or other thorough check processes.

Data integrity procedures are managed by Department Technical Directors under the oversight of the Quality Manager. Specific data checklists and other routine data quality monitoring forms are controlled by the Technical Directors once the Quality Manager approves original forms.

The Technical Directors of each department routinely audit 20% of all data submitted on a daily basis and perform random 100% audits at least once a month. Weekly reports of data integrity audits are submitted to the Quality Manager.

The Quality Manager audits data records randomly on a daily basis and formally at a minimum of quarterly. Weekly reports of data integrity audits from the Technical Directors are incorporated into a bi-weekly quality report that is submitted by the Quality Manager to the Laboratory Director.

17.3 Data Integrity and Ethics Training

Policy
Data integrity training is provided for all employees initially upon hire and annually thereafter. Data integrity training is the responsibility of the Laboratory Director.

Procedure
Attendance at an initial data integrity training (part of new employee orientation) and the annual refresher training is recorded with a signature attendance sheet or other form of documentation that demonstrates all staff participated and understand their obligations related to data integrity.

Training records regarding data integrity and ethics are signed and dated by senior management.

When contracted technical or support personnel are used, management is responsible for ensuring that they are trained to the laboratory's quality system and data integrity procedures, competent to perform the assigned tasks, and appropriately supervised.

Topics covered are provided in writing and provided to all trainees. Topics include but are not limited to the following:

General discussion of how "ethics" and " data integrity" are defined
Torrent "Bill of Rights"
Torrent "10 Commandments"
Ethical dilemmas within the environmental testing industry
Manual Integration policy (including demonstration of correct and incorrect integration techniques)
"Time Travelling"
Documentation of departures from "normal" procedure
Protecting Data Integrity through gatekeeper activities
Improper data manipulation and reporting practices
Proper use of LIMS and manual data checklists
Proper labeling of data files
Proper data storage procedures and redundancy practices
Consequences for improper handling and reporting of data

17.4 General Training

Policy
All personnel are appropriately trained and competent in their assigned tasks before they contribute to functions that can affect data quality. It is management's responsibility to assure personnel are trained.

Policy
Only trained personnel are authorized to perform specific tasks.

Policy
Training records are kept on individual training forms.

Procedure
New staff members are given introductory training and orientation upon arrival. Signature sheets of all who attended the training session document training.

The initial training for a new task contains the following steps:

- All documentation involved with a new and unfamiliar task is read and understood by the trainee.
- Training is under the direct supervision of a qualified senior analyst. During the time the analyst is training, the trainee may sign laboratory notebooks or logbooks, but the senior analyst, who is responsible for the data generated, must also co-sign all note/logbooks.

- The trainee demonstrates competency in the new task before they can operate independently. The competency for a test method is accomplished by a demonstration of capability as indicated in **Section 19**. Proof of competency is denoted with the initials or signature of the qualified senior analyst, the Technical Director of the trainee's department, and the Quality Manager. Prior to the release of the analyst for independent work, they must sign a statement that they have "read, understood and accepted" all materials submitted to them throughout the training process
- Each step of the training process is documented.

On-going training will consist of the following:

- The analyst attests, through signature that they have read, understood, and agreed to perform the latest version of the *Quality Manual* and any method SOP's that the analyst performs.
- Annually, the analyst shows continued proficiency in each method they perform.
- Other training as determined by management.
- Proof of acceptable on-going training is documented by the annual demonstrations of capability for each analyst and each method.

Cross Training – Employees participate in an active cross-training program. The reasons are two fold. First, management believes in extending every opportunity possible to their employees for both professional and personal growth. Management believes that providing continuous learning opportunity keeps analysts challenged and motivated to perform to the best of their ability. Secondly, management persistently strives to improve the laboratory's efficiency, and a highly motivated, cross-trained staff is germane to achieving that goal.

SECTION 18 – ACCOMMODATIONS & ENVIRONMENTAL CONDITIONS

POLICY

Laboratory facilities are designed and organized to facilitate testing of environmental samples. Environmental conditions are monitored to ensure that conditions do not invalidate results or adversely affect the required quality of any measurement.

POLICY

Environmental tests are stopped when the environmental conditions jeopardize the results.

POLICY

Access to, and use of areas affecting the quality of the environmental tests is controlled by restriction of areas to authorized personnel only.

POLICY

The laboratory workspaces are adequate for their use, and appropriately clean to support environmental testing and ensure an unencumbered work area.

PROCEDURE

Laboratory space is arranged to minimize cross-contamination between incompatible areas of the laboratory.

If the laboratory environment is required to be controlled by method or regulation, the adherence is recorded.

All areas of the laboratory are designated for appropriate activities such as sample homogenizing, sub-sampling from soil or bulk sample containers, performing WET/TCLP leaching procedures, adding preservatives to bottles, etc.

Technical Managers control the activities within their respective workspaces and are responsible for ensuring a clean, uncluttered workspace is maintained between shift changes and at the close of a business day. No unlabeled and/or uncovered containers are allowed at anytime, in any space.

The laboratory employs a janitorial service that will clean all exposed surfaces, floors and carpeted areas but will not invade bench top spaces or spaces under hoods. Tidiness of those spaces is the domain of the Technical Directors of the affected departments.

SECTION 19 – TEST METHODS AND METHOD VALIDATION

POLICY

A method is validated before it is put into use. All methods are published or documented.

19.1 Demonstration of Capability (DOC)

A DEMONSTRATION OF CAPABILITY (DOC) is a procedure to establish the ability of the analyst to generate data of acceptable accuracy and precision.

Policy

The laboratory confirms that and employee is capable of generating data of acceptable accuracy and precision on all methods before allowing them to proceed with process and procedures without direct supervision.

Procedure

The DOC is documented on the form similar to the form found in Appendix C of the 2003 NELAC Standard, and these completed forms are kept in the training files for each analyst.

A DOC is performed for each analyte and/or compound list whenever the method, analysts, analytes, or instrument type is changed.

The Technical Director certifies that technical staff members in their area of expertise are trained and authorized to perform all tests for which the laboratory are accredited by signing the DOC form.

The process for DOC is documented on a IDOC/DOC form that is maintained by the Quality Manager (Appendix B – Laboratory Quality Assurance Forms). All records supporting a DOC are submitted by the Technical Director to the Quality Manager whom, upon review of all data, gives final approval of DOC compliance. Once approval is given, the analyst performing the DOC is released into the work cell as a fully trained member of that cell.

19.2 On-Going (or Continued) Proficiency

After the demonstration of capability is completed, on-going proficiency is maintained and demonstrated at least annually through the analysis of either single-blind samples, performing another DOC, or use of four consecutive laboratory control samples compared to pre-determined acceptance limits for precision and accuracy.This is documented in the training file of each analyst.

19.3 Initial Test Method Evaluation

For chemical analyses, the INITIAL TEST METHOD EVALUATION involves the determination of the Limit of Detection (LOD) or Method of Detection (MDL), confirmation of the Limit of Quantitation (LOQ) or Practical Quantitation Limit (PQL), an evaluation of precision and bias, and an evaluation of the selectivity of the method.

19.3.1 Limit of Detection (LOD)

The LIMIT OF DETECTION (LOD) is an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte-and matrix specific and may be laboratory-dependent. (NELAC Glossary 2003).

19.3.2 Limit of Quantitation (LOQ)

The LIMIT OF QUANTITATION (LOQ) is an estimate of the minimum amount of a substance that can be reported with a specified degree of confidence. (NELAC Glossary 2003).

Policy
If an LOD study is not performed, concentrations less that the Limit of Quantitation are not reported. If results are not reported outside of the calibration range (low), the LOD determination is not required.

Policy
The lowest calibration standard is equal to or less than the LOQ.

Policy
The LOQ will always be greater than the LOD.

Procedure
LODs are determined from a quality system matrix using all sample processing steps, and are verified annually or when there is a change in the test method or instruments affects sensitivity.

LODs are performed annually for all parameters within a test method that require a calibration procedure. LODs are performed per parameter per matrix (Aqueous, Solid, Wipe, Oil). First, the standard deviation of concentrations found over a minimum of 5 and a maximum of 10 consecutive samples spiked at or below the expected LOQ are determined. The standard deviation found is multiplied by the appropriate Student T value and a final LOD is determined. The LOQ is normally set at between 2 to 5 times the LOD and is only set at the LOQ if a method requires a specific LOQ that is not greater than 2 times the LOD.

The LOQ is verified using a quality systems matrix sample spiked at 1-2 times the determined LOQ that returns a concentration within the acceptance criteria for accuracy, according to the requirements of the method or client data quality objectives.

19.3.3 Precision and Bias

PRECISION is the degree to which a set of observations or measurements of the same property, obtained under similar conditions, conform to themselves. Precision is usually expressed as standard deviation, variance, or range, in either absolute or relative terms.

BIAS is the systematic error that contributes to the difference between the mean of a significant number of test results and the accepted reference value.

Policy
Precision and bias are determined for standard and non-standard methods.

Procedure
Precision and bias are determined for standard methods through the performance of a Demonstration of Capability.

Precision and bias using non-standard, modified standard or laboratory-developed methods are compared to the criteria established by the client (when requested), the method, or the laboratory.

Replicate spikes in a quality system matrix are analyzed according the procedures outlined in the 2003 NELAC Standard, Appendix C.3.3.b. where applicable.

DOC Procedure (Evaluation of Precision and Bias)

1. Analyze QC samples in quadruplicate containing the analytes of concern at or near the limit of quantitation, at the upper-range of the calibration (upper 20%) and at a mid-range concentration.
2. Process these samples on different days as 3 sets of samples through the entire measurement system for each analyte of interest.
3. Each day, one QC sample at each concentration is analyzed.
4. A separate method blank shall be subjected to the analytical method along with the QC samples on each of the three days. (Note that the three samples at the LOQ concentration can demonstrate sensitivity as well).
5. For each analyst, calculate the mean recovery for each day, for each level over each day, and for all nine samples.
6. Calculate the relative standard deviation for each of the separate means obtained.
7. Compare the standard deviations for the different days and the standard deviations for the different concentrations.
8. If the different standard deviations are all statistically insignificant (e.g. F-test), then compare the overall mean and standard deviation with the established criteria from above.

19.3.4 Selectivity

SELECTIVITY is the capability of a test method or instrument to respond to a target substance or constituent in the presence of non-target substances (EPA-QAD).

Policy
The laboratory evaluates selectivity through procedures defined in the test method SOPs.

19.4 Estimation of Uncertainty

ESTIMATION OF UNCERTAINTY consists of the sum (combining the components) of the uncertainties of the numerous steps of the analytical process, including, but not limited to, sample plan variability, spatial and temporal sample variation, sample heterogeneity, calibration/calibration check variability, extraction variability, and weighing variability.

Procedure

The laboratory estimates uncertainty using the standard deviation calculated from routine quality control samples.

All routine quality control sample data points are captured in the Laboratory Information Management System (LIMS) from both passing and failing criteria. Those points are used to establish in-house quality control acceptance and warning limits for all parameters tested per method per matrix. Points are accepted or rejected based on using GRUBS outlier calculation software. Limits are up-dated quarterly and are either equal to or stricter than those prescribed by a specific method. When a trend develops (6 consecutive data points on either side of the mean), a Corrective Action Form is initiated by either the Technical Director of the department affected and/or by the Quality Manager. When warning limits are reached, the Technical Directors affected are to take appropriate pro-action to regain control of their procedures. These pro-actions do not require a Corrective Action Form be initiated.

19.5 Laboratory-Developed or Non-Standard Method Validation

Policy
Laboratory developed, modified standard methods, and non-standard methods require method validation.

METHOD VALIDATION is the confirmation by examination and the provision of objective evidence that the particular requirements for a specific intended use are fulfilled (NELAC 2003).

Policy
Where applicable, the laboratory validates non-standard methods, laboratory-designed/developed methods, standard methods used outside their published scope, and amplifications and modifications of standard methods to confirm that the methods are fit for the intended use.

Policy
The range and accuracy of the values obtainable from validated methods (e.g. the uncertainty of the results, detection limit, selectivity of the method, linearity, limit of repeatability and/or reproducibility, robustness against external influences and/or cross-sensitivity against interference from the matrix of the sample/test object), is assessed for the intended use and whether it is relevant to the clients' needs.

Procedure
The laboratory’s method validation procedures include, at a minimum, the steps described in Appendix C.3 to Chapter 5 (NELAC 2003). The laboratory records method validation results, the procedure used for the validation, and a statement as to whether the method is fit for the intended use.

19.6 Control of Data

Policy
All calculations and all relevant data are subject to appropriate checks in a systematic manner.

Policy
Commercial off-the-shelf software (e. g. word processing, database and statistical programs) used within the designed application range is considered sufficiently validated when in-house programming is not used.

Procedure
The laboratory assures that computers and software are protected, maintained, and secure through measures such as documentation, locked access, and control of the laboratory environment.

Administrative SOP “Computer and Computer Software Management” details the procedure for assuring computer and software control

The laboratory procedures to insure that reported data are free from transcription and calculation errors can be found in each department under the responsibility of the Technical Directors. All procedures meet the approval of the Quality Manager prior to implementation.

The laboratory procedure that all quality control measures are reviewed and evaluated before data are reported is found in each department reporting data and is under the responsibility of the Technical Director of the department. All procedures meet the approval of the Quality Manager prior to implementation.

The laboratory procedure to address manual calculations, including manual integrations is found within the specific SOPs affected by the need for manual calculations and/or integrations.

The laboratory assures that computers, user-developed computer software, automated equipment, or microprocessors used for the acquisition, processing, recording, reporting, storage, or retrieval of environmental test data is:

a) documented in sufficient detail and validated as being adequate for use;
b) protected for integrity and confidentiality of data entry or collection, data storage, data transmission and data processing;
c) maintained to ensure proper functioning and are provided with the environmental and operating conditions necessary to maintain the integrity of environmental test data; and
d) held secure including the prevention of unauthorized access to, and the unauthorized amendment of, computer records.

SECTION 20 – EQUIPMENT

20.1 General Equipment Requirements

Policy
The laboratory provides all the necessary equipment required for the correct performance of the scope of environmental testing presented in this *Quality Manual*.

Policy
All equipment and software used for testing and sampling is capable of achieving the accuracy required and complies with the specifications of the environmental test method as specified in the laboratory SOP.

Policy
Equipment is operated only by authorized personnel.

Policy
The laboratory procedure for safe handling, transport, storage, use and planned maintenance of measuring equipment to ensure proper functioning and in order to prevent contamination or deterioration is found in the front cover of all maintenance logbooks.

Procedure

Up-to-date instructions on the use and maintenance of equipment (including any relevant manuals provided by the manufacturer of the equipment) are readily available for use by laboratory personnel.

All equipment is calibrated or checked before being placed into use to ensure that it meets laboratory specifications and the relevant standard specifications.

Test equipment, including hardware and software, are safeguarded from adjustments, which would invalidate the test result measures, by limiting access to the equipment and using password protection where possible.

Equipment that has been subject to overloading, mishandling, given suspect results, or been shown to be defective or outside specifications is taken out of service, isolated to prevent its use, or clearly labeled as being out of service until it has been shown to function properly. If it is shown that previous tests are affected, then procedures for non-conforming work are followed.

When equipment is needed for a test that is outside of permanent control of the laboratory, the lab ensures the equipment meets the requirements of this manual prior to its use by inspecting or otherwise testing it.

Each item of equipment and the software used for testing that is significant to the results is uniquely identified, and records of equipment and software are maintained. This information includes the following:

a) Identity of the equipment and its software;
b) Manufacturer's name, type identification, serial number or other unique identifier;
c) Checks that equipment complies with specifications of applicable tests;

d) Current location;
e) Manufacturer's instructions, if available, or a reference to their location;
f) Dates, results and copies of reports and certificates of all calibrations, adjustments, acceptance criteria, and the due date of next calibration;
g) Maintenance plan where appropriate, and maintenance carried out to date; documentation on all routine and non-routine maintenance activities and reference material verifications;
h) Any damage, malfunction, modification or repair to the equipment;
i) Date received and date placed into service (if available); and
j) Condition when received, if available (new, used, reconditioned).

A current *analytical equipment* list is maintained by the Quality Manager and can be found as an attachment to the current Quality Manual (Appendix C). Equipment list up-dates are performed at least annually or as necessary based on equipment replacement and /or equipment additions.

20.2 Support Equipment

SUPPORT EQUIPMENT includes, but is not limited to: balances, ovens, refrigerators, freezers, incubators, water baths, temperature measuring devices, volumetric dispensing devices, and thermal/pressure sample preparation devices.

Policy
All support equipment is maintained in proper working order and records are kept of all repair and maintenance activities, including service calls.

Procedure
All raw data records are retained to document equipment performance. These records include logbooks, data sheets, or equipment computer files.

All support equipment is calibrated or verified annually over the entire range of use using NIST traceable references where available. The results of the calibration of support equipment are within specifications or (1) the equipment is removed from service until repaired, or (2) records are maintained of correction factors to correct all measurements.

Support equipment such as balances, ovens, refrigerators, freezers, and water baths are checked with a NIST traceable reference if available, each day prior to use, to ensure they are operating within the expected range for the application for which the equipment is to be used.

Mechanical volumetric dispensing equipment, including burettes (except Class A glassware), is checked for accuracy quarterly.

Glass micro-liter syringes have a certificate attesting to the established accuracy. If the certificate of accuracy for glass micro-liter syringes is not available, the accuracy of the syringe is demonstrated upon receipt and documented.

For chemical tests that use autoclaves, the temperature, cycle time, and pressure is documented by use of chemical indicators or temperature recorders and pressure gauges.

A current *support equipment* list is maintained by the Quality Manager and can be found as an attachment to the current Quality Manual (Appendix D). Equipment list up-dates are performed at least annually or as necessary based on equipment replacement and /or equipment additions

20.2.1 Support Equipment Maintenance

Regular maintenance of support equipment, such as balances and fume hoods is conducted at least annually.

Maintenance on other support equipment, such as ovens, refrigerators, and thermometers is conducted on an as needed basis.

Records of maintenance to support equipment are documented in Instrument Maintenance Logs. Each piece of support equipment does not necessarily have its own logbook. Maintenance logbooks may be shared with equipment that is housed in the same laboratory area.

20.2.2 Support Equipment Calibration

Calibration requirements for analytical support equipment are found in the table below. For analytical instrumentation, the calibration requirements are found in the SOP specific to the methods requiring the use of the equipment and/or in the table found below:

Table 20.2 - 2 Calibration And Maintenance

Instrument	Activity	Frequency	Documentation
Balance	1. Clean 2. Check alignment 3. Certification	1. Before use 2. Before use 3. Annually	Worksheet/log book Post annual service date on balance Keep Certificate
ASTM Class 1Weights	1. Only use for the intended purpose 2. Use plastic forceps to handle 3. Keep in case 4. Re-calibrate	Once every year	Keep certificate
Thermometers: 1. Glass and electronic 2. Dial thermometers	Check at the temperature used, against a reference NIST certified thermometer	1. Annually for glass and electronic 2. Quarterly for dial thermometers	Calibration factor and date of calibration on thermometer and worksheet/log book
pH probe ISE Probes Ammonia Probe DO Probe	Maintenance: Use manufacturer's specifications	As needed	Worksheet/log book
Spectrophotometer.	1. Keep cells clean 2. Service contract. Check wavelength settings with color standards	Annually	Post service date on cover
Automatic or digital type pipettes	Calibrate for accuracy and precision using reagent water and analytical balance	At least Quarterly	Worksheet/logbook
Refrigerators and Freezers	1. Thermometers are immersed in liquid to the appropriate immersion line 2. The thermometers are graduated in increments of 1°C or less	Temperatures are recorded each day in use	Worksheet/log book

20.3 Analytical Equipment

20.3.1 Maintenance for Analytical Equipment

Policy
All equipment is properly maintained, inspected, and cleaned.

Procedure
Maintenance of analytical instruments and other equipment may include regularly scheduled preventive maintenance or maintenance on an as-needed basis due to instrument malfunction and is documented in Instrument Maintenance Logs, which become part of the laboratory's permanent records.

Table 20.3-1 Analytical Equipment Maintenance

Instrument	Procedure	Frequency
PerkinElmer FIMS Mercury Analyzer	Check tubing for wear	Daily
	Fill rinse tank with 10% HCl	Daily
	Insert clean drying tube filled with Magnesium Perchlorate	Daily
	Fill reductant bottle with 10% Stannous Chloride	Daily
ICP	Check pump tubing	Daily
	Check liquid argon supply	Daily
	Check fluid level in waste container	Daily
	Check filters	Weekly
	Clean or replace filters	As required
	Check torch	Daily
	Check sample spray chamber for debris	Monthly
	Clean and align nebulizer	Monthly
	Check entrance slit for debris	Monthly
	Change printer ribbon	As required
	Replace pump tubing	As required
UV-Vis Spectrophotometer	Clean ambient flow cell	As required
	Precision check/alignment of flow cell	As required
	Wavelength verification check	Semi-annually
TOC Analyzer	Clean sampler	Daily
	Check all tubing	Daily
	Clean pump well and pump rollers	Quarterly
	Clean wash fluid receptacle	Weekly
	Oil rollers/chains/side rails	Weekly
	Clean optics and cells	Quarterly
IR Spectrophotometer	Clean cell	Annually
	Check/adjust cell alignment	As required
Varian and Shimadzu GC/MS	Ion gauge tube degassing	As required
	Pump oil-level check	Monthly
	Pump oil changing	Semi-annually
	Analyzer bake-out	As required
	Analyzer cleaning	As required
	Resolution adjustment	As required
	COMPUTER SYSTEM AND PRINTER:	
	Air filter cleaning	As required
	Change data system air filter	As required
	Printer head carriage lubrication	As required
	Paper sprocket cleaning	As required
	Drive belt lubrication	As required
Varian and Shimadzu Gas Chromatograph	Compare standard response to previous day or since last initial calibration	Daily
	Check carrier gas flow rate in column	Daily via use of known compound retention
	Check temp. of detector, inlet, column oven	Daily
	Septum replacement	As required
	Glass wool replacement	As required
	Check system for gas leaks with SNOOP	W/cylinder change as required
	Check for loose/fray wires and insulation Bake	Monthly

Table 20.3-1 Analytical Equipment Maintenance

Instrument	Procedure	Frequency
	injector/column Change/remove sections of guard column Replace connectors/liners Change/replace column(s)	As required As required As required As required
Electron Capture Detector (ECD)	Detector wipe test (Ni-63) Detector cleaning	Semi-annually As required
Flame Ionization Detector (FID)	Detector cleaning	As required
Photoionization Detector (PID)	Change O-rings Clean lamp window	As required As required
IC	Change guard columns Change lamps Change pump seals Replace tubing Change fuses in power supply Filter all samples and eluents Change autosampler rotor/stator	As required As required Semi-annually or as required As required As required Daily As required
Balances	Class "S" traceable weight check Clean pan and check if level Field service	Daily, when used Daily At least annually
Conductivity Meter	0.01 M KCl calibration Conductivity cell cleaning	Daily As required
Turbidimeter	Check light bulb	Daily, when used
Deionized/Distilled Water	Check conductivity Check deionizer light Monitor for VOA's System cleaning Replace cartridge & large mixed bed resins	Daily Daily Daily As required As required
Drying Ovens	Temperature monitoring Temperature adjustments	Daily As required
Refrigerators/ Freezers	Temperature monitoring Warning system checked Temperature adjustment Defrosting/cleaning	Daily Monthly As required As required
Vacuum Pumps/ Air Compressor	Drained Belts checked Lubricated	Weekly Monthly Semi-annually
pH/Specific Ion/Gas Meter	Calibration/check slope Clean electrode	Daily As required
Centrifuge	Check brushes and bearings	Every 6 months or as needed
Water Baths	Temperature monitoring Water replaced	Daily Monthly or as needed

20.3.2 Initial Instrument Calibration

Initial instrument calibration and continuing instrument calibration verification are an important part of ensuring data of known and documented quality. If more stringent calibration requirements are included in a mandated method or by regulation, those calibration requirements override any requirements outlined here or in laboratory SOPs. Generally, instrument calibrations are provided in test methods.

Policy
All initial instrument calibrations are verified with a standard obtained from a second source traceable to a national standard when commercially available. If a second source is not available, a standard prepared from a separate lot may be used as long as the manufacturer can demonstrate the lot was prepared independently from other lots purchased.

Policy
If the reference or mandated method does not specify the number of calibration standards to use, the minimum number is three not including blanks or a zero standard.

Policy
Any samples that are analyzed after an unacceptable initial calibration are re-analyzed or the data are reported with qualifiers, appropriate to the scope of the unacceptable condition.

Policy
Quantitation is always determined from the initial calibration unless the test method or applicable regulations require quantitation from the continuing calibration.

Policy
The lowest calibration standard is the lowest concentration for which quantitative results can be reported without qualification. The lowest calibration standard is equal to the Limit of Quantitation and is greater than the limit of detection.

Policy
The highest calibration standard is the highest concentration for which quantitative results can be reported without qualifiers.

Policy
Data reported that are greater than the highest calibration standard without dilution are considered to be an estimate and are reported with a qualifier code and explained in the case narrative.

Procedure
Initial instrument calibration includes calculations, integrations, acceptance criteria, and associated statistics referenced in the test method SOP.

Sufficient raw data records are collected to allow reconstruction of the initial instrument calibration. These include, at a minimum, calibration date, test method, instrument, analysis date, analyte names, analysts signature or initials, concentration and response, calibration curve or response factor, or unique equation or coefficient used to reduce instrument responses to concentration.

Calibration date and expiration date (when recalibration is due) is recorded for equipment requiring calibration, where practicable.

Acceptance criteria are listed in individual method SOPs.

Corrective actions are performed when the initial calibration results are outside acceptance criteria. Calibration points are not dropped from the middle of the curve unless the cause is determined and documented. If the cause cannot be determined, the calibration curve is re-prepared. If the low or high calibration point is dropped from the curve, the working curve is adjusted and sample results outside the curve are qualified.

Results that are less than the lower calibration standard are considered to have increased uncertainty, and are either reported with a qualifier code or explained in the case narrative.

Results that are greater than the highest calibration standard are either diluted to within the calibration range, or considered to be an estimate; and are reported with a qualifier code, and explained in the case narrative.

For instrumentation where single point calibration is recommended by manufacturer’s instructions, such as with some ICP and ICP/MS technologies (with a zero and single point calibration), the following apply:

a) For single point plus zero blank calibrations, the zero point and the single point standard are analyzed prior to the analysis of samples, and the linear range of the instrument established by analyzing a series of standards, one of which is at the lowest quantitation level.
b) Zero blank and single point calibration standards are analyzed with each analytical batch for methods where they are specified.
c) A standard corresponding to the limit of quantitation is analyzed with each analytical batch and must meet established acceptance criteria when using single point plus zero blank calibrations.
d) The linearity of single point plus zero blank calibrations is verified at a frequency established by the method or the manufacturer.

20.3.3 Continuing Instrument Calibration

Policy
The validity of the initial calibration is verified prior to sample analysis by use of continuing instrument calibration verification (CCV) standards.

Policy
Corrective action is initiated for continuing instrument calibration verification results that are outside of acceptance criteria.

Procedure
Continuing instrument calibration verification is performed at the beginning and end of each analytical batch, except for instances when an internal standard is used. For methods employing internal standards, a single verification is performed at the beginning of the analytical batch.

Continuing instrument calibration verification is performed whenever it is expected that the analytical system may be out of calibration or might not meet verification acceptance criteria.

Continuing instrument calibration verification is performed when the time period for calibration or the most recent calibration verification has expired.

Continuing instrument calibration verification is performed for all analytical systems that have a calibration verification requirement.

Calibration is verified for each compound, element, or other discrete chemical species.

The calculations and associated statistics for continuing instrument calibration are included or referenced in the test method SOP.

Sufficient raw data records are retained to allow reconstruction of the continuing instrument calibration verification. Continuing instrument calibration verification records connect the continuing verification date to the initial instrument calibration.

Continuing instrument calibration verification criteria are specified in each method specific SOP as appropriate.

20.3.4 Unacceptable Continuing Instrument Calibration Verifications

If routine corrective action for continuing instrument calibration verification fails to produce a second, consecutive (immediate) calibration verification within acceptance criteria, then a new calibration is performed or acceptable performance is demonstrated after corrective action with two consecutive calibration verifications.

For any samples analyzed on a system with an unacceptable calibration, some results may be useable if qualified and under the following conditions:

a) If the acceptance criteria are exceeded high (high bias) and the associated samples are below detection, then those sample results that are non-detects may be reported as non-detects.

b) If the acceptance criteria are exceeded low (low bias) and there are samples that exceed the maximum regulatory limit, then those exceeding the regulatory limit may be reported.

SECTION 21 – MEASUREMENT TRACEABILITY

Measurement quality assurance comes in part from traceability of standards to certified materials.

POLICY

All equipment used that affects the quality of test results are calibrated prior to being put into service and on a continuing basis. These calibrations are traceable to national standards of measurement where available.

POLICY

Measurements from laboratory equipment provide the uncertainty required by test method or client.

POLICY

If traceability of measurements to SI units is not possible or not relevant, evidence for correlation of results through inter-laboratory comparisons, proficiency testing, or independent analysis is provided.

PROCEDURE

All equipment that affects the quality of test results are calibrated according to the minimum frequency suggested by the manufacturer, by regulation, by method, or as needed.

Clients can verify that required uncertainty is achieved by reviewing the internal quality control data provided with each report. Instrument quality control data is available to a client upon the client's request.

21.1 Reference Standards

REFERENCE STANDARDS are standards of the highest quality available at a given location, from which measurements are derived.

Policy

Reference Standards, such as ASTM Class 1 weights, are used for calibration only and for no other purpose unless it is shown that their performance as reference standards will not be invalidated.

Procedure

Reference standards, such as ASTM Class 1 weights, are calibrated by an entity that can provide traceability to national or international standards.
The following reference standards subject to certification via an outside source to a national standard:

a) Class 1 weights are calibrated every year by an qualified outside vendor
b) Reference thermometers are calibrated every year by an qualified outside vendor

21.2 Reference Materials

REFERENCE MATERIALS are substances that have concentrations that are sufficiently well established to use for calibration or as a frame of reference.

Policy
Reference materials, where commercially available, are traceable to national standards of measurement, or to Certified Reference Materials, usually by a Certificate of Analysis.

Policy
Internal reference materials, such as working standards or intermediate stock solutions, are checked as far as technically and economically possible.

Procedure
Purchased Reference Materials require a Certificate of Analysis where available. Otherwise, purchased reference materials are verified by application to a certified reference material, inter-laboratory comparison, past performance evaluation study samples and/or demonstration of capability.

Internal Reference Materials, such as working standards and intermediate stock solutions, are checked with proficiency tests or a second source independently prepared quality sample.

a) Internal thermometers are checked annually against the NIST certified reference thermometer.
b) Working class weights are checked against Class 1 weights at least monthly.
c) Class A pipettes are verified for accuracy gravimetrically at least twice a year.

21.3 Transport and Storage of Reference Standards and Materials

Policy
The laboratory handles and transports reference standards and materials in a way that protects their integrity.

Procedure
Reference standard and material integrity is protected by separation from incompatible materials and/or minimizing exposure to degrading environments or materials.

Reference standards and materials are stored according to manufacturer’s recommendations and separately from working standards or samples.

21.4 Labeling of Reference Standards, Reagents, and Materials

Policy
Reference standards and materials are tracked from purchase, receipt, and storage through disposal.

Policy
Expiration dates can be extended if the reference standard or material’s integrity is verified against a standard whose expiration data has not been met.

Policy
Reagent quality is verified during routine blank analyses.

Procedure

Records for all standards, reagents, reference materials, and media include:

1. the manufacturer/vendor name (or traceability to purchased stocks or neat compounds)
2. the manufacturer's Certificate of Analysis or purity (if supplied)
3. the date of receipt
4. reference to the method of preparation
5. date of preparation
6. recommended storage conditions
7. an expiration date after which the material shall not be used (unless its reliability is verified by the laboratory). It may be documented elsewhere if referenced.
8. preparer's initials (if prepared)

In methods where the purity of reagents is not specified, analytical reagent grade is used. If the purity is specified, that is the minimum acceptable grade. Purity is verified and documented according to Section 9, Purchasing, Services, and Supplies.

All containers of standards, reagents, or materials, whether original or prepared, are labeled with an expiration date.

All containers of prepared standards and reference materials have a preparation date and unique identifier. This laboratory uses lab book number, lab book page and sequential numbers to identify prepared materials.

Standard preparation records are kept in laboratory notebooks and indicate traceability to purchased stocks or neat compounds, reference to the method of preparation, date of preparation, expiration date, and preparer's initials.

Prepared reagents are verified to meet the requirements of the test method through Blank analysis.

SECTION 22 – SAMPLE MANAGEMENT

22.1 Sample Receipt

Procedure
When samples are received at the laboratory, their condition is documented, they are given unique identifiers, and they are logged into the sample tracking system.

22.2 Sample Acceptance

Policy
The minimum conditions a sample must meet on receipt are:
Person to whom the sample results are to be reported, unique client sample ID, location, date of collection, collector's name, preservation type (outlined below), sample type, and comments, relinquished by signature, expected Turn around time for report delivery

If these conditions are not met, the client is contacted prior to any further processing.

A notation regarding the presence of a sampling time is also noted. Samples are not rejected if no sampling time is present on the CoC but a note is added to the login summary indicating to the client that no times were supplied at time of sample acceptance

A second notation is made regarding client sample label durability. It is the policy of Torrent to only accept samples that have labels that are legible and are attached directly to the sample container being submitted to the laboratory.

If this condition is not met, the client is contacted immediately by voice and by email prior to any further processing of the samples.

Procedure
The laboratory checks samples for the conditions above, where appropriate, to evaluate sample acceptance.

The following preservation checks are performed and documented upon receipt:

Thermal preservation:

a) For temperature preservation, the temperature must be within ± 2°C unless otherwise stated.
b) For samples that require preservation at 4°C, the acceptable range is "from just above freezing to 6°C".
c) Samples that are delivered to the lab the same day as they are collected are likely not to have reached a fully chilled temperature. This is acceptable if there is evidence that chilling has begun.
d) Record on the receipt form if ice is present and the temperature.

pH checks:

e) The pH of samples requiring acid/base preservation is checked upon sample receipt or upon initiation of analysis.

The sample acceptance policy is available to sample collection personnel, and emphasizes the need for use of water resistant ink, durable labels, use of appropriate containers, and adherence to holding times, sample volume requirements, and what to do with compromised samples.

Sample submission sheets from the field are maintained in client folders and scanned and stored electronically

If the checks performed upon sample receipt indicate the criteria are not met, then 1) the sample is rejected as agreed with the client, 2) the decision to proceed is documented and agreed upon with the client, 3) the condition is noted on the Chain of Custody form and/or lab receipt documents, and 4) the data are qualified in the report.

22.3 Sample Identification

Policy
Samples, including sub-samples, extracts, and digestates, are uniquely identified in a permanent chronological record through the LIMS to prevent mix-up and to document receipt of all sample containers.

Procedure
Sample Receiving, Storage and Disposal – Torrent Laboratory utilizes a state-of the-art Laboratory Information Management System (LIMS) to track all aspects of sample analysis from sample receipt to sample disposal. Through the use of this system and an additional document, the Sample Receipt Log, control of the samples from sample receipt to sample disposal is maintained. When samples are received at Torrent they are subjected to a seven-step procedure:.

1. The samples are relinquished to and received by Torrent through the client submitted COC. The samples are removed from the coolers and a representative sample's temperature is taken using an infrared temperature gun.
2. A sample receipt log is filled in with the information found on the sample containers, the condition of the samples as they arrived (broken bottles, seal not intact, bubbles in VOAs), the temperature taken in step one, the type of delivery (walk-in, courier, over-night delivery), and the types of containers received (see example receipt log following this section). There is also space for a laboratory ID (assigned in step 4), signature line for sample receiver, and a space to record the disposal date of the samples.
3. The sample receipt log is then compared to the chain of custody received with the samples and any discrepancy noted between the COC and the receipt log is noted on the receipt log.
4. The samples are then logged into the LIMS system according to the analyses requested on the COC. The groups of samples received on the COC (s) are given a unique ID referred to as the Work Order number. Each sample on that Work Order is given a unique laboratory ID associated with that Work Order. Now each sample can be tracked through the entire analytical process by its unique identifier. For example: Seven samples are received on work order 041101. Each sample receives sub identifiers – 0401101-001, 04011-001-002, etc. If more than one container is

received for the sample analysis on the same sample, those containers can be further identified by the addition of a alphabetic identifier – 04011001-001A, -001B, -001C, etc.
5. Labels are printed out and attached to the samples and the samples are properly stored. The label information includes the unique work order and sample ID, the client sample ID, the sample date and time, and the sample storage location.
6. The COCs and the Receipt Log are placed in a binder located with the Project Manager where the COC is reviewed for completeness. The Project Manager will contact the client with any findings or discrepancies that were observe ed during sample log in or that are identified upon the Project Manager's review.
7. Once samples are logged in and reviewed by project management through the LIMS system, the samples are available to the analysts for preparation and analysis.

The following information is collected in the Work Order Module of the LIMS

a) Client or project name
b) Date and time of sampling
c) Date and time of receipt at lab
d) Unique laboratory identification number
e) Unique field identification number (may be same as lab #)
f) Initials of recorder
g) Analyses requested
h) Comments regarding rejection (if any).

22.4 Sample Storage

Procedure
Storage conditions are monitored for any required criteria, verified, and the verification recorded in logbooks. This includes temperature monitoring and holding times.

Samples are held secure, as required. Liquid samples are held up to 30 days from sample receipt and soil samples are held up to 6 months from sample receipt. Samples are stored apart from standards, reagents, food or potentially contaminating sources, and such that cross-contamination is minimized. All portions of samples, including extracts, digestates, leachates, or any product of the sample is maintained according to the required conditions. Longer retention times can be arranged with a written request from the client.

22.5 Sample Disposal

Policy
Samples are disposed of according to Federal, State and local regulations. Procedures are available for the disposal of samples, digestates, leachates, and extracts.

22.6 Sample Transport

Policy
Samples that are transported under the responsibility of the laboratory, where necessary, are done so safely and according to storage conditions. This includes moving bottles within the laboratory. Specific safety operations are addressed outside of this document.

22.7 Sampling Records

Policy
Sub-sampling within the laboratory is performed according to test method SOPs.

SECTION 23 – QUALITY OF TEST RESULTS

23.1 Essential Quality Control Procedures

Policy
All essential quality control elements are collected and assessed on a continuing basis.

Policy
The qualities of test results are recorded in such a way that trends are detectable, and where practicable, are statistically evaluated.

Policy
For test methods that do not provide acceptance criteria for an essential quality control element or where no regulatory criteria exist, acceptance criteria are developed. Control limits are developed using the mean, plus or minus 3 standard deviations; or static limits such as +/- 15 percent. These limits can be found in Section 19.4

Policy
Laboratory personnel follow the quality control procedures specified in test methods. The most stringent of control procedures is used in cases where multiple controls are offered. If it is not clear which is the most stringent, that mandated by test method or regulation is followed.

Procedure
To monitor the validity of environmental tests performed, review includes any one or combination of the techniques below:

a) use of certified reference materials or cultures and/or internal quality control using secondary reference materials;
b) participation in proficiency testing programs;
c) replicate testing using the same or different methods;
d) retesting of retained samples; and/or
e) correlation of results for different characteristics of a sample.

Written procedures to monitor quality controls including acceptance criteria are located in the test method SOPs, except where noted, and include such procedures as:

a) use of laboratory control samples and blanks to serve as positive and negative controls for chemistry methods;
b) use of laboratory control samples to monitor test variability of laboratory results;
c) use of calibrations, continuing calibrations, certified reference materials and/or PT samples to monitor accuracy of the test method;
d) measures to monitor test method capability, such as limit of detection, limit of quantitation, and/or range of test applicability, such as linearity;
e) use of regression analysis, internal/external standards, or statistical analysis to reduce raw data to final results;
f) use of reagents and standards of appropriate quality;

g) procedures to ensure the selectivity of the test method;

h) measures to assure constant and consistent test conditions, such as temperature, humidity, rotation speed, etc., when required by test method;

i) use of sterility checks for equipment, media and dilution water for microbiology; and

j) use of positive and negative culture controls for microbiology.

23.2 Internal Quality Control Practices

Analytical data generated with QC samples that fall within prescribed acceptance limits indicate the test method is IN CONTROL.

QC samples that fall outside QC limits indicate the test method is OUT OF CONTROL (non-conforming) and that corrective action is required or that the data are qualified.

Policy
Detailed QC procedures and QC limits are included in text method standard operating procedures (SOPs), or where unspecified in the SOPs, are detailed elsewhere.

Policy
All QC measures are assessed and evaluated on an on-going basis, so that trends are detected.

Procedure
The following general controls are used:
Positive and Negative Controls such as:

a) Blanks (negative)

b) Laboratory control sample (positive)

Selectivity is assured through:

a) absolute and relative retention times in chromatographic analyses;

b) two-column confirmation when using non-specific detectors;

c) use of acceptance criteria for mass-spectral tuning (found in test method SOPs);

d) use of the correct method according to its scope assessed during method validation; and

Consistency, Variability, Repeatability, and Accuracy are assured through:

a) proper installation and operation of instruments according to manufacturer’s recommendations or according to the processes used during method validation;

b) monitoring and controlling environmental conditions (temperature, access, proximity to potential contaminants);

c) selection and use of reagents and standards of appropriate quality; and

d) cleaning glassware appropriate to the level required by the analysis. Cleaning procedures not provided in test method SOPs are provided in a separate SOP. Note: Make an SOP for glassware cleaning if you don’t have one.

e) following SOPs and documenting any deviation, assessing for impact, and treating data appropriately; testing to define the variability and/or repeatability of the laboratory results, such as replicates;

f) use of measures to assure the accuracy of the test method, including calibration and/or continuing calibrations, use of certified reference materials, proficiency test samples, or other measures;

g) use of duplicate plate counts on positive samples (microbiology only).

Acceptance or rejection criteria are created according to laboratory policy where no method or regulatory criteria exist. Acceptance criteria define the boundary for the appropriate response from laboratory personnel, such as corrective action, reporting with qualifiers, reanalysis, review, and others.

Test Method Capability is assured through:

a) establishment of the limit of detection (LOD) where appropriate;

b) establishment of the limit of quantitation (LOQ)or reporting leve (RL)l; and/or

c) establishment of the range of applicability such as linearity;

Data reduction is assured to be accurate by:

a) selection of appropriate formulae to reduce raw data to final results such as regression;

b) periodic review of data reduction processes to assure applicability.

The following tables summarize the key elements of a quality control system for a laboratory performing chemistry.

Table 23.2-1 Essential Quality Control Elements for Chemistry

Item	Frequency	Acceptance Criteria	Corrective action
Negative Control (Method Blank)	1/batch	Method specific or reporting limit	Qualify data and take corrective action
Positive Control (Laboratory Control Sample)	1/batch	Method specific or determined by laboratory	Reprocess, reanalyze, or qualify data.
Matrix Spike; Matrix Spike Duplicates	Per method requirement	Method specific or determined by laboratory	Corrective action and qualify data.
Surrogate spikes	Per method requirement	Method specific or determined by laboratory	Corrective action and qualify data
Matrix Duplicates	Per method requirement	Method specific or determined by laboratory	Corrective action and qualify data
Continuing Calibration Verification	Per method requirement	Method specific or determined by the laboratory	Reanalyze standard immediately; Corrective action
Initial calibration Verification	Start of each analytical run	Method specific or determined by laboratory	Reanalyze standard immediately; Corrective action

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23.3 Method Blanks

Policy
Contaminated blanks are identified according to the acceptance limits in the test method SOPs or laboratory documentation.
Policy
Samples associated with a contaminated blank are evaluated as to the appropriate corrective action for the samples (e.g. reprocessing or data qualifying codes).

Procedure
Our laboratory identifies a blank as contaminated when analyte results are greater than the reporting limit AND greater than 1/10 of that found in any sample, or where the contamination affects the sample results according to test method requirements or client objectives.

When contamination of a blank is determined, the cause must be investigated and measures taken to minimize or eliminate the problem.

Data that are unaffected by the blank contamination (non-detects or other analytes) are reported unqualified.

Sample data that are suspect due to the presence of a contaminated blank are reanalyzed, qualified, or deleted.

23.4 Laboratory Control Samples

LABORATORY CONTROL SAMPLES (LCS) are prepared from analyte free water, and spiked with verified and known amounts of analytes for the purpose of establishing precision or bias measurements.
Policy
Laboratory control samples are analyzed at a frequency mandated by method, regulation and/or client request whichever is more stringent.

Procedure
The results of laboratory control samples (LCS) are calculated in percent recovery or other appropriate statistical technique that allows comparison to established acceptance criteria. The laboratory documents the calculation in the test method SOP.

The individual LCS is compared to the acceptance criteria as published in the mandated test method, or where there are no established criteria, the laboratory established limits.

23.5 Matrix Spikes and Matrix Spike Duplicates

MATRIX SPIKES (MS and MSD [duplicates]) are environmental samples fortified with a known amount of analyte to help assess the affect of the matrix on method performance.

Policy
The MS/MSD results are used to help assess the effect of the sample matrix on method performance.

Procedure
The laboratory procedure for MS/MSD includes spiking appropriate analytes at appropriate concentrations, calculating percent recoveries and relative percent difference (RPD), and evaluating and reporting the results.

Where there are no established criteria, the laboratory uses the mean plus or minus three standard deviations as the control limits for MS/MSD.

For MS/MSD results outside established criteria corrective action is documented or the data are reported with appropriate data qualifying codes.

23.6 Surrogate Spikes

SURROGATES are substances with chemical properties and behaviors similar to the analytes of interest used to assess method performance in individual samples.

Policy
Surrogates are added to all samples (in test methods where surrogate use is appropriate) prior to sample preparation or extraction.

Procedure
Surrogate recovery results are compared to the acceptance criteria as published in the mandated test method.

Where there are no established criteria, the laboratory uses the mean plus or minus three standard deviations as surrogate control limits.

For surrogate results outside established criteria that are either low or high bias with detected results of associated compounds, data are evaluated to determine the impact. Corrective actions include re-analysis of the sample (a single sample may act as a representative of an entire group of samples collected from the same site) to prove possible matrix interference, re-analysis of the sample if the surrogate spiking solution is suspect, or qualifying of the surrogate recovery if evidence exists through associated analysis of possible matrix effects.

If surrogates fail (high bias) and there are no detections of associated compounds, the results are reported and the high bias failure narrated.

23.7 Proficiency Test Samples or Interlaboratory Comparisons

Policy
The laboratory participates in proficiency test (PT) samples annually.

Policy
The laboratory institutes corrective action procedures for failed PT samples.

Policy
The laboratory does not share PT samples with other laboratories, does not communicate with other laboratories regarding current PT sample results, and does not attempt to obtain the assigned value of any PT sample from the PT provider.

Procedure
Proficiency Testing (PT) or Proficiency Evaluation (PE) samples are treated as typical samples in the normal production process where possible, including the same preparation, calibration, quality control and acceptance criteria, sequence of analytical steps, number of replicates, and sample log-in. PT samples are not analyzed multiple times unless routine environmental samples are analyzed multiple times.

23.8 Data Review

Policy
The laboratory reviews all data generated in the laboratory for compliance with method, laboratory and, where appropriate, client requirements.

Policy
All data review is documented.

Procedure
Initially, the analyst reviews data for acceptability of quality control measures and accuracy of the final result(s).

After the initial review, a second reviewer (peer and/or Technical Manager) considers all manual transfers and calculations of data in detail and spot checks all electronic transfers of data.

Final reports are compared to raw data either directly or through several reviewed steps.

Bench sheets are used to record the information required for traceability of the analysis. The bench sheets include quality control measurements and acceptance criteria. Data are recorded on the bench sheets promptly at the time of the analysis, in ink.
Analysts review sample data and the QC information at the time of analysis and indicate if the QC parameters meet the acceptance criteria by marking the bench sheet.
The analyst signs and dates the bench sheet to indicate that they have performed the steps indicated and that the analysis meets acceptance criteria or has exceptions that are noted in the comments section of the bench sheet.

When the analyst has finished the primary analysis review, another person in the laboratory checks the bench sheet for the following items:

a) All required information has been recorded on the bench sheet.
b) QC criteria have been met or exceptions are documented in the comments section of the bench sheet.
c) Manual calculations are checked for accuracy.

When these checks have been completed, the reviewer signs and dates the bench sheet to document that the review has been performed.

SECTION 24 – REPORTING OF RESULTS

POLICY

The result of each test carried out is reported accurately, clearly, unambiguously, and objectively and complies with all specific instructions contained in the test method.

POLICY

Data are reported without qualification if they are greater than the lowest calibration standard; lower than the highest calibration standard, and without compromised sample or method integrity.

24.1 Test Reports

Policy

The report format has been designed to accommodate each type of test performed and to minimize the potential for misunderstanding or misuse.

Procedure

Each test report generated contains the following information (unless not required by the client):

a) a title, such as Test Report or Test Results;

b) the name and address of the laboratory, the location of the laboratory if different from the address, and the phone number and name of a contact person;

c) unique identification of the test report, such as a serial number, on each page and a pagination system that ensures that each page is recognized as part of the test report and a clear identification of the end of the report, such as 3 of 10;

d) the name and address of the client if applicable;

e) the identification of the test method used;

f) an unambiguous identification of the sample(s), including the client identification code;

g) the date of sample receipt when it is critical to the validity and application of the results, date and time of sample collection, dates the tests were performed, the time of sample preparation and analysis if the required holding time for either activity is less than or equal to 72 hours;

h) reference to the sampling plan and procedures used by the laboratory where these are relevant to the validity or application of the results;

i) the test results with failures identified, units of measurement, an indication of whether results are calculated on a dry weight or wet weight basis, and for Whole Effluent Toxicity, an identification of the statistical package used;

j) the name, function, and signature or an equivalent electronic identification of the person authorizing the test report, and the date of issue;

k) a statement to the effect that the results relate only to the samples;

l) at the laboratory’s discretion, a statement that the report shall not be reproduced except in full without written approval of the laboratory;

m) certification that the results are in compliance with the NELAC Standards if accredited to be in compliance or provide reasons and/or justification if they do not comply.

24.2 Supplemental Test Report Information

When necessary for interpretation of the results or when requested by the client, test reports include the following additional information:

a) deviations from, additions to, or exclusions from the test method, information on specific test conditions, such as environmental conditions, and any non-standard conditions that may have affected the quality of the results, and any information on the use and definitions of data qualifiers;
b) a statement of compliance/non-compliance when requirements of the quality systems are not met, including identification of test results that did not meet NELAC sample acceptance requirements, such as holding time, preservation, etc.;
c) where applicable and when requested by the client, a statement on the estimated uncertainty of the measurement;
d) where appropriate and needed, opinions and interpretations
a. When opinions and interpretations are included, the basis upon which the opinions and interpretations are documented. Opinions and interpretations are clearly marked as such in the test report.

e) additional information which may be required by specific methods or client;
f) qualification of results with values outside the working range.

For test reports that contain the results of sampling, the following is provided if necessary for the interpretation of the results:

a) the date of sampling;
b) unambiguous identification of the material sampled;
c) the locations of the sampling, including diagrams, sketches, or photographs;
d) a reference to the sampling plan and procedures used;
e) details of any environmental conditions during sampling that may affect the interpretations of the test results;
f) any standard or other specification for the sampling method or procedure, and deviations, additions to or exclusions from the specification concerned.

24.3 Environmental Testing Obtained from Subcontractors

Test results obtained from tests performed by subcontractors are clearly identified on the test report by subcontractor name and/or accreditation number.

The test results from subcontractors are reported in writing or electronically. A copy of the subcontractors report is made available to the client if requested.

24.4 Electronic Transmission of Results

Policy
All test results transmitted by telephone, fax, telex, e-mail, or other electronic means comply with the requirements of this *Quality Manual* and associated procedures to protect the confidentiality and proprietary rights of the client.

24.5 Amendments to Test Reports

Policy
Material amendments to a test report after it has been issued are made only in the form of another document or data transfer. All supplemental reports meet all the requirements for the initial report and the requirements of this *Quality Manual*.

Procedure
Amended test reports are titled, “Revision to Original Report ….. (with applicable revision #)” or an equivalent form of wording to assure they can be differentiated from other test reports.

When it is necessary to issue a complete new report, the new report is uniquely identified and contains a reference to the original that it replaces.

SECTION 25 – APPENDICES

Appendices A, B, E, F, G and H are chronicled in the form of Attachments found at the end of the paginated section of the Quality Assurance Manual.

APPENDIX C & D
Laboratory Equipment List

Appendix C – Laboratory Analytical Equipment			
Name	**Brand**	**Model**	**Date Purchased / Date Placed in Service**
6 – Gas Chromatograph	Varian	CP-3800 GC	
2 – GC/MS	Varain	Saturn 2200	2003 & 2006/ 2003 & 2006
2 – GC/MS	Varian	Saturn 2000	2003/2003
Oxidation Catalyst Furnace	Thermo Electron Corp	Lindberg/Blue M	2006/2006
12 Position Suma Canister Cleaner	Despatch	Custom Made	2006/2006
Ion Chromatograph	Dionex	IC25	2003/2003
Flashpoint Closed Cup		Rapid Tester	2001/2001
3-51 Position Autosamplers	Varain	Archon	2003 – 2006/ 2003 – 2006
16 Position Air Autosampler	Teeydyn/Tekmar	Autocan (custom)	2006/2006
2- Purge & Trap Concentrators	Tekmar	3000	2003 – 2006 / 2003 – 2006
Purge & Trap Concentrator	Teledy/Tekmar	Velocity	2003
2- IC Autosamplers	Dionex	AS40	2003 & 2005 / 2003 & 2005
IC Absorbance Detector	Dionex	AD 25	2005/2005
IC Isocratic Pump	Dionex	IP25	2003/2003
IC Pneumatic Controller	Dionex	PC 10	2003/2003
Reverse Osmosis H2O Purifier	Purelab	Option Q	2006
ICP –AES Sequential	Varain	Liberty AX	1999
ICP-OES Simultaneous	PerkinElmer	Optima 5300 OV	2004
ICP 52 Pos Autosampler	Varain	SPS-5	1999
ICP 120 Pos. Autosampler	PerkinElmer	AS 93 Plus	2004
ICP-MS	PerkinElemer	ELAN DRC-e	2008
ICP-MS 120Pos Autosampler	PerkinElmer	AS 93 Plus	2008
2-Midi-Distillation Systems	LabCrest	Cyanide/Phenol	1999 & 2006 / 1999 & 2006
CVAA Mercury Analyzer	PerkinElmer	FIMS 400	2006 / 2006
Mercury 106 Pos. Autosampler	PerkinElmer	AS 90	2006 / 2006
Analytical Balance	Mettler	AB204	1999/ 1999
Analytical Balance	Mettler	AB104-S	1999 / 1999
pH/DO/ISE/Cond Meter	VWR	Symphony SB90 M5	2007 / 2007
Conductivity/TDS Meter	HACH		2001 / 2001
Spectrophotometer	HACH	DR2000	2001 / 2001
TOC Water Analyzer w/68 Pos autosampler	Shimadzu	TOC-V CSH	2003 / 2003
TC/IC Soil Analyzer	Shimadzu	SSM-5000A	2003 /2003
Mechanical Convection Oven	Precision Scientific	25EM	1999 / 1999

APPENDIX C & D
Laboratory Equipment List

Appendix C – Laboratory Analytical Equipment			
Name	**Brand**	**Model**	**Date Purchased / Date Placed in Service**
FT-IR	PerkinElmer	Spectrum 100	2007 /2007
GCMS	Shimadzu	OP 2010	2003 / 2003
4- Gas Chromatographs	Shimadzu	GC 2010	2001 – 2005 / 2001 – 2005
4 – 150 Pos. Autosamplers	Shimadzu	AOC-20S	2001 – 2005 / 2001 – 2005
2 – 99 Pos. Dual Tower Autosamplers	Varain	8400	2001 / 2001
GPC Auto Prep w/UV Detector and 30	O-I Analytical		2006 / 2006
Solvent Extractor w/26 pos. autosampler	Dionex	ASE2000	2005 / 2005
Solid Phase Extractor	CPI	SPE 6	2003 / 2003
Pressure Solvent Extractor – 6 Position	Applied Separations	PSE 6	2006 / 2006
2-Nitrogen Evaporators –6 position	Caliper Life Sciences	Turbo Vap II	2003 & 2005 / 2003 & 2005
Nitrogen Evaporator – 6 Position	Organomation Assoc.	N-EVAP III	1999 / 1999
Nitrogen Evaporator –24 Position	Caliper Life Sciences	Turbo Vap LV	2005 / 2005
Muffle Furnace	Barstead/Thermolyne	1400	2007
2-Liquid Chromatographs	Shimadu	LC-20AD XR	2009
LC Digasser	Shimadzu	DGU-20A5	2009
LC Communication Bus Module	Shimadzu	SBM-20A	2009
LC Column Oven	Shimadzu	CTO-20AC	2009
LC UV-VIS Detector	Shimadzu	SPD-20AV	2009
LC Fluorescence Detector	Shimadzu	RF-10A XL	2009
LC Autosampler	Shimadzu	SIL-20AC XR	2009

APPENDIX C & D
Laboratory Equipment List

Appendix D- Laboratory Support Equipment List

Name	Brand	Model	Date Purchased / Date Placed in Service
3-Stainless steel Refrigerators	True Line	High Capacity	2003 – 2006 / 2003 – 2006
2 Sliding Door Refrigerators	True Line	Deli Style	2006 / 2006
Upright Refrigerators	Kenmore	Upright	2004
3-Refrigerator/Freezer-Upright	Kenmore	Upright	2004/2008
Refrigerator – Upright w/ freezer	Amana	Upright	2003
Refrigerator/Freezer	Magic Chef	Upright	2005
2- 12 Pos. Rotators	Lab Express		2003 / 2003
Ultrasonic Bath	Branson	3510	2001
Ultrasonic Cleaning Station	Branson	1510	2003
Hydrogen Generator	Balston Analytical	Gas Systems	2005 (Out of Service 2008)
2 - Hydrogen Generator	Chrysalis	II	2005/2008
2- Hotplate/Stirrers	Barnstead Thermolyne	Cimare	2003
Hotplate/Stirrer – Large	VWR	375	1999
Hotplate/Stirrer	VWR	200 Mini	2003
Vortex Spinner	VWR		2003
Recirculator Chiller	Poly Science		2005
Recirculator Chiller	Affinity		1999
Bakers Drying Rack – 20 Pos	Costco		2008
2 – 48 Pos. Heating Blocks w/ dual channel controllers	CPI		2003 & 2005
COD Digestion Block	HACH	DRB 2000	2005
4 – Gas/Vacuum Pumps			1999
2 – Top-Loading Balances	O-Haus	Precision Advanced	1999
Centrifuge – 4 Position	Kocour		2000
2 – 4 Shelf Dessicators	Sedador		2001
Separatory Funnel Shaker – 4 Position 2 Liter	Glas-Col		2002
Class A Pipets	Kimax	Various	1999 - 2007
160 – 6L Suma Canister w/Gauge (to –30 Hg”)	Entech/Restek	Various	2006 – 2008
50 – 1L Suma Canisters	Restek	Various	2008
14 - Adjustable Pipets	Eppendorf/VWR	Various	1999 – 2008
pH/ISE Probes	Orion/VWR/Fischer	PH/F/DO/NH4	1999 – 2007
Laboratory Glassware	Kimax/VWR	Various	1999 -2007

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Charlie Crist
Governor

FLORIDA DEPARTMENT OF
HEALTH

Ana M. Viamonte Ros. M.D.. M.P.H.
State Surgeon General

Laboratory Scope of Accreditation

Attachment to Certificate #: E871032-05, expiration date June 30, 2011. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E871032 **EPA Lab Code: CA01218** **(408) 263-5258**

E871032
Torrent Laboratory, Inc.
483 Sinclair Frontage Rd
Milpitas, CA 95035

Matrix: Air and Emissions

Analyte	Method/Tech	Category	Certification Type	Effective Date
1,1,1,2-Tetrachloroethane	TORL TO-15/GC-MS	Volatile Organics	NELAP	3/24/2008
1,1,1-Trichloroethane	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
1,1,1-Trichloroethane	EPA TO-15	Volatile Organics	NELAP	3/24/2008
1,1,2,2-Tetrachloroethane	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA TO-15	Volatile Organics	NELAP	3/24/2008
1,1,2-Trichloroethane	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
1,1,2-Trichloroethane	EPA TO-15	Volatile Organics	NELAP	3/24/2008
1,1-Dichloroethane	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
1,1-Dichloroethane	EPA TO-15	Volatile Organics	NELAP	3/24/2008
1,1-Dichloroethylene	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
1,1-Dichloroethylene	EPA TO-15	Volatile Organics	NELAP	3/24/2008
1,2,4-Trichlorobenzene	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
1,2,4-Trichlorobenzene	EPA TO-15	Volatile Organics	NELAP	3/24/2008
1,2,4-Trimethylbenzene	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA TO-15	Volatile Organics	NELAP	3/24/2008
1,2-Dichlorobenzene	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
1,2-Dichlorobenzene	EPA TO-15	Volatile Organics	NELAP	3/24/2008
1,2-Dichloroethane	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
1,2-Dichloroethane	EPA TO-15	Volatile Organics	NELAP	3/24/2008
1,2-Dichloropropane	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
1,2-Dichloropropane	EPA TO-15	Volatile Organics	NELAP	3/24/2008
1,3,5-Trimethylbenzene	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
1,3-Butadiene	EPA TO-15	Volatile Organics	NELAP	3/24/2008
1,3-Dichlorobenzene	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
1,3-Dichlorobenzene	EPA TO-15	Volatile Organics	NELAP	3/24/2008
1,4-Dichlorobenzene	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
1,4-Dichlorobenzene	EPA TO-15	Volatile Organics	NELAP	3/24/2008
1,4-Dioxane (1,4-Diethyleneoxide)	EPA TO-15	Volatile Organics	NELAP	3/24/2008
1-Methylnaphthalene	TORL TO-13/GC-MS	Extractable Organics	NELAP	3/24/2008
2-Butanone (Methyl ethyl ketone, MEK)	EPA TO-15	Volatile Organics	NELAP	3/24/2008
2-Hexanone	TORL TO-15/GC-MS	Volatile Organics	NELAP	3/24/2008
2-Methylnaphthalene	TORL TO-13/GC-MS	Extractable Organics	NELAP	3/24/2008
4,4'-DDD	TORL TO-10/GC-ECD	Pesticides-Herbicides-PCB's	NELAP	3/24/2008
4,4'-DDE	EPA TO-10A	Pesticides-Herbicides-PCB's	NELAP	3/24/2008
4,4'-DDT	EPA TO-10A	Pesticides-Herbicides-PCB's	NELAP	3/24/2008

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program. **Issue Date: 7/1/2010** **Expiration Date: 6/30/2011**

Attachment to Certificate #: E871032-05, expiration date June 30, 2011. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E871032 **EPA Lab Code: CA01218** **(408) 263-5258**

E871032
Torrent Laboratory, Inc.
483 Sinclair Frontage Rd
Milpitas, CA 95035

Matrix: Air and Emissions

Analyte	Method/Tech	Category	Certification Type	Effective Date
4-Methyl-2-pentanone (MIBK)	EPA TO-15	Volatile Organics	NELAP	3/24/2008
Acenaphthene	EPA TO-13A	Extractable Organics	NELAP	3/24/2008
Acenaphthylene	EPA TO-13A	Extractable Organics	NELAP	3/24/2008
Acetone	TORL TO-15/GC-MS	Volatile Organics	NELAP	3/24/2008
Aldrin	EPA TO-10A	Pesticides-Herbicides-PCB's	NELAP	3/24/2008
alpha-BHC (alpha-Hexachlorocyclohexane)	EPA TO-10A	Pesticides-Herbicides-PCB's	NELAP	3/24/2008
alpha-Chlordane	TORL TO-10/GC-ECD	Pesticides-Herbicides-PCB's	NELAP	3/24/2008
Anthracene	EPA TO-13A	Extractable Organics	NELAP	3/24/2008
Aroclor-1242 (PCB-1242)	EPA TO-10A	Pesticides-Herbicides-PCB's	NELAP	3/24/2008
Aroclor-1260 (PCB-1260)	EPA TO-10A	Pesticides-Herbicides-PCB's	NELAP	3/24/2008
Benzene	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
Benzene	EPA TO-15	Volatile Organics	NELAP	3/24/2008
Benzo(a)anthracene	EPA TO-13A	Extractable Organics	NELAP	3/24/2008
Benzo(a)pyrene	EPA TO-13A	Extractable Organics	NELAP	3/24/2008
Benzo(b)fluoranthene	EPA TO-13A	Extractable Organics	NELAP	3/24/2008
Benzo(e)pyrene	EPA TO-13A	Extractable Organics	NELAP	3/24/2008
Benzo(g,h,i)perylene	EPA TO-13A	Extractable Organics	NELAP	3/24/2008
Benzo(k)fluoranthene	EPA TO-13A	Extractable Organics	NELAP	3/24/2008
Benzyl chloride	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
Benzyl chloride	EPA TO-15	Volatile Organics	NELAP	3/24/2008
beta-BHC (beta-Hexachlorocyclohexane)	EPA TO-10A	Pesticides-Herbicides-PCB's	NELAP	3/24/2008
Bromoform	EPA TO-15	Volatile Organics	NELAP	3/24/2008
C5-C12 (carbon number 5-12)	TORL TO-3/GC-FID	Volatile Organics	NELAP	3/24/2008
Carbon disulfide	EPA TO-15	Volatile Organics	NELAP	3/24/2008
Carbon tetrachloride	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
Carbon tetrachloride	EPA TO-15	Volatile Organics	NELAP	3/24/2008
Chlorobenzene	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
Chlorobenzene	EPA TO-15	Volatile Organics	NELAP	3/24/2008
Chloroethane	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
Chloroethane	EPA TO-15	Volatile Organics	NELAP	3/24/2008
Chloroform	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
Chloroform	EPA TO-15	Volatile Organics	NELAP	3/24/2008
Chrysene	EPA TO-13A	Extractable Organics	NELAP	3/24/2008
cis-1,2-Dichloroethylene	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
cis-1,2-Dichloroethylene	EPA TO-15	Volatile Organics	NELAP	3/24/2008
cis-1,3-Dichloropropene	EPA TO-14A	Volatile Organics	NELAP	3/24/2008

Laboratory Scope of Accreditation

Attachment to Certificate #: E871032-05, expiration date June 30, 2011. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E871032 **EPA Lab Code: CA01218** **(408) 263-5258**

E871032
Torrent Laboratory, Inc.
483 Sinclair Frontage Rd
Milpitas, CA 95035

Matrix: Air and Emissions

Analyte	Method/Tech	Category	Certification Type	Effective Date
cis-1,3-Dichloropropene	EPA TO-15	Volatile Organics	NELAP	3/24/2008
delta-BHC	TORL TO-10/GC-ECD	Pesticides-Herbicides-PCB's	NELAP	3/24/2008
Dibenz(a,h)anthracene	EPA TO-13A	Extractable Organics	NELAP	3/24/2008
Dichlorodifluoromethane	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
Dichlorodifluoromethane	TORL TO-15/GC-MS	Volatile Organics	NELAP	3/24/2008
Dieldrin	EPA TO-10A	Pesticides-Herbicides-PCB's	NELAP	3/24/2008
Di-isopropylether (DIPE)	TORL TO-15/GC-MS	Volatile Organics	NELAP	3/24/2008
Endosulfan I	TORL TO-10/GC-ECD	Pesticides-Herbicides-PCB's	NELAP	3/24/2008
Endosulfan II	TORL TO-10/GC-ECD	Pesticides-Herbicides-PCB's	NELAP	3/24/2008
Endosulfan sulfate	TORL TO-10/GC-ECD	Pesticides-Herbicides-PCB's	NELAP	3/24/2008
Endrin	EPA TO-10A	Pesticides-Herbicides-PCB's	NELAP	3/24/2008
Endrin aldehyde	EPA TO-10A	Pesticides-Herbicides-PCB's	NELAP	3/24/2008
Endrin ketone	TORL TO-10/GC-ECD	Pesticides-Herbicides-PCB's	NELAP	3/24/2008
Ethylbenzene	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
Ethylbenzene	EPA TO-15	Volatile Organics	NELAP	3/24/2008
Ethyl-t-butylether (ETBE)	TORL TO-15/GC-MS	Volatile Organics	NELAP	3/24/2008
Fluoranthene	EPA TO-13A	Extractable Organics	NELAP	3/24/2008
Fluorene	EPA TO-13A	Extractable Organics	NELAP	3/24/2008
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA TO-10A	Pesticides-Herbicides-PCB's	NELAP	3/24/2008
gamma-Chlordane	TORL TO-10/GC-ECD	Pesticides-Herbicides-PCB's	NELAP	3/24/2008
Heptachlor	EPA TO-10A	Pesticides-Herbicides-PCB's	NELAP	3/24/2008
Heptachlor epoxide	EPA TO-10A	Pesticides-Herbicides-PCB's	NELAP	3/24/2008
Hexachlorobutadiene	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
Hexachlorobutadiene	EPA TO-15	Volatile Organics	NELAP	3/24/2008
Indeno(1,2,3-cd)pyrene	EPA TO-13A	Extractable Organics	NELAP	3/24/2008
Methoxychlor	EPA TO-10A	Pesticides-Herbicides-PCB's	NELAP	3/24/2008
Methyl bromide (Bromomethane)	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
Methyl bromide (Bromomethane)	EPA TO-15	Volatile Organics	NELAP	3/24/2008
Methyl chloride (Chloromethane)	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
Methyl chloride (Chloromethane)	EPA TO-15	Volatile Organics	NELAP	3/24/2008
Methyl tert-butyl ether (MTBE)	EPA TO-15	Volatile Organics	NELAP	3/24/2008
Methylene chloride	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
Methylene chloride	EPA TO-15	Volatile Organics	NELAP	3/24/2008
Naphthalene	EPA TO-13A	Extractable Organics	NELAP	3/24/2008
Naphthalene	TORL TO-15/GC-MS	Volatile Organics	NELAP	3/24/2008
n-Hexane	EPA TO-15	Volatile Organics	NELAP	3/24/2008

Laboratory Scope of Accreditation

Attachment to Certificate #: E871032-05, expiration date June 30, 2011. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E871032 **EPA Lab Code: CA01218** **(408) 263-5258**

E871032
Torrent Laboratory, Inc.
483 Sinclair Frontage Rd
Milpitas, CA 95035

Matrix: Air and Emissions

Analyte	Method/Tech	Category	Certification Type	Effective Date
Phenanthrene	EPA TO-13A	Extractable Organics	NELAP	3/24/2008
Pyrene	EPA TO-13A	Extractable Organics	NELAP	3/24/2008
Styrene	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
Styrene	EPA TO-15	Volatile Organics	NELAP	3/24/2008
T-amylmethylether (TAME)	TORL TO-15/GC-MS	Volatile Organics	NELAP	3/24/2008
Tetrachloroethylene (Perchloroethylene)	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
Toluene	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
Toluene	EPA TO-15	Volatile Organics	NELAP	3/24/2008
trans-1,2-Dichloroethylene	EPA TO-15	Volatile Organics	NELAP	3/24/2008
trans-1,3-Dichloropropylene	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
trans-1,3-Dichloropropylene	EPA TO-15	Volatile Organics	NELAP	3/24/2008
Trichloroethene (Trichloroethylene)	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
Trichloroethene (Trichloroethylene)	EPA TO-15	Volatile Organics	NELAP	3/24/2008
Trichlorofluoromethane	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
Trichlorofluoromethane	EPA TO-15	Volatile Organics	NELAP	3/24/2008
Vinyl acetate	EPA TO-15	Volatile Organics	NELAP	3/24/2008
Vinyl chloride	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
Vinyl chloride	EPA TO-15	Volatile Organics	NELAP	3/24/2008
Xylene (total)	EPA TO-14A	Volatile Organics	NELAP	3/24/2008
Xylene (total)	EPA TO-15	Volatile Organics	NELAP	3/24/2008

CDPH

CALIFORNIA DEPARTMENT OF PUBLIC HEALTH
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
Accredited Fields of Testing

TORRENT LABORATORY, INC.
483 SINCLAIR FRONTAGE ROAD
MILPITAS, CA 95035
Phone: (408) 263-5258

Certificate No.: 1991
Renew Date: 4/30/2010

Field of Testing: 102 - Inorganic Chemistry of Drinking Water

102.045	001	Perchlorate	EPA 314.0

Field of Testing: 103 - Toxic Chemical Elements of Drinking Water

103.310	001	Chromium (VI)	EPA 218.6

Field of Testing: 108 - Inorganic Chemistry of Wastewater

108.020	001	Conductivity	EPA 120.1
108.110	001	Turbidity	EPA 180.1
108.112	001	Boron	EPA 200.7
108.112	002	Calcium	EPA 200.7
108.112	003	Hardness (calc.)	EPA 200.7
108.112	004	Magnesium	EPA 200.7
108.112	005	Potassium	EPA 200.7
108.112	006	Silica	EPA 200.7
108.112	007	Sodium	EPA 200.7
108.120	001	Bromide	EPA 300.0
108.120	002	Chloride	EPA 300.0
108.120	003	Fluoride	EPA 300.0
108.120	004	Nitrate	EPA 300.0
108.120	005	Nitrite	EPA 300.0
108.120	006	Nitrate-nitrite	EPA 300.0
108.120	007	Phosphate, Ortho	EPA 300.0
108.120	008	Sulfate	EPA 300.0
108.264	001	Phosphate, Ortho	EPA 365.3
108.265	001	Phosphorus, Total	EPA 365.3
108.360	001	Phenols, Total	EPA 420.1
108.381	001	Oil and Grease	EPA 1664A
108.390	001	Turbidity	SM2130B
108.400	001	Acidity	SM2310B
108.410	001	Alkalinity	SM2320B
108.420	001	Hardness (calc.)	SM2340B
108.430	001	Conductivity	SM2510B
108.440	001	Residue, Total	SM2540B
108.441	001	Residue, Filterable	SM2540C
108.442	001	Residue, Non-filterable	SM2540D
108.443	001	Residue, Settleable	SM2540F
108.470	001	Cyanide, Manual Distillation	SM4500-CN C

As of 5/10/2010 , this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

108.472	001	Cyanide, Total	SM4500-CN E
108.473	001	Cyanide, amenable	SM4500-CN G
108.490	001	pH	SM4500-H+ B
108.494	001	Ammonia	SM4500-NH3 F or G (18th)
108.540	001	Phosphate, Ortho	SM4500-P E
108.541	001	Phosphorus, Total	SM4500-P E
108.582	001	Sulfide	SM4500-S= F (19th/20th)
108.610	001	Total Organic Carbon	SM5310B
108.630	001	Oil and Grease	SM5520B (20th)
108.660	001	Chemical Oxygen Demand	HACH8000

Field of Testing: 109 - Toxic Chemical Elements of Wastewater

109.010	001	Aluminum	EPA 200.7
109.010	002	Antimony	EPA 200.7
109.010	003	Arsenic	EPA 200.7
109.010	004	Barium	EPA 200.7
109.010	005	Beryllium	EPA 200.7
109.010	007	Cadmium	EPA 200.7
109.010	009	Chromium	EPA 200.7
109.010	010	Cobalt	EPA 200.7
109.010	011	Copper	EPA 200.7
109.010	012	Iron	EPA 200.7
109.010	013	Lead	EPA 200.7
109.010	015	Manganese	EPA 200.7
109.010	016	Molybdenum	EPA 200.7
109.010	017	Nickel	EPA 200.7
109.010	019	Selenium	EPA 200.7
109.010	021	Silver	EPA 200.7
109.010	023	Thallium	EPA 200.7
109.010	024	Tin	EPA 200.7
109.010	025	Titanium	EPA 200.7
109.010	026	Vanadium	EPA 200.7
109.010	027	Zinc	EPA 200.7
109.020	001	Aluminum	EPA 200.8
109.020	002	Antimony	EPA 200.8
109.020	003	Arsenic	EPA 200.8
109.020	004	Barium	EPA 200.8
109.020	005	Beryllium	EPA 200.8
109.020	006	Cadmium	EPA 200.8
109.020	007	Chromium	EPA 200.8
109.020	008	Cobalt	EPA 200.8
109.020	009	Copper	EPA 200.8
109.020	010	Lead	EPA 200.8
109.020	011	Manganese	EPA 200.8

109.020	012	Molybdenum	EPA 200.8	
109.020	013	Nickel	EPA 200.8	
109.020	014	Selenium	EPA 200.8	
109.020	015	Silver	EPA 200.8	
109.020	016	Thallium	EPA 200.8	
109.020	017	Vanadium	EPA 200.8	
109.020	018	Zinc	EPA 200.8	
109.020	020	Gold	EPA 200.8	
109.104	001	Chromium (VI)	EPA 218.6	
109.190	001	Mercury	EPA 245.1	

Field of Testing: 110 - Volatile Organic Chemistry of Wastewater

110.040	040	Halogenated Hydrocarbons	EPA 624
110.040	041	Aromatic Compounds	EPA 624
110.040	042	Oxygenates	EPA 624
110.040	043	Other Volatile Organics	EPA 624

Field of Testing: 111 - Semi-volatile Organic Chemistry of Wastewater

111.272	001	Oil and Grease	SM5520B (20th)
111.273	001	Oil and Grease	EPA 1664A

Field of Testing: 114 - Inorganic Chemistry of Hazardous Waste

114.010	001	Antimony	EPA 6010B	
114.010	002	Arsenic	EPA 6010B	
114.010	003	Barium	EPA 6010B	
114.010	004	Beryllium	EPA 6010B	
114.010	005	Cadmium	EPA 6010B	
114.010	006	Chromium	EPA 6010B	
114.010	007	Cobalt	EPA 6010B	
114.010	008	Copper	EPA 6010B	
114.010	009	Lead	EPA 6010B	
114.010	010	Molybdenum	EPA 6010B	
114.010	011	Nickel	EPA 6010B	
114.010	012	Selenium	EPA 6010B	
114.010	013	Silver	EPA 6010B	
114.010	014	Thallium	EPA 6010B	
114.010	015	Vanadium	EPA 6010B	
114.010	016	Zinc	EPA 6010B	
114.020	001	Antimony	EPA 6020	Aqueous Only
114.020	002	Arsenic	EPA 6020	Aqueous Only
114.020	003	Barium	EPA 6020	Aqueous Only
114.020	004	Beryllium	EPA 6020	Aqueous Only
114.020	005	Cadmium	EPA 6020	Aqueous Only
114.020	006	Chromium	EPA 6020	Aqueous Only
114.020	007	Cobalt	EPA 6020	Aqueous Only
114.020	008	Copper	EPA 6020	Aqueous Only

114.020	009	Lead	EPA 6020	Aqueous Only
114.020	010	Molybdenum	EPA 6020	Aqueous Only
114.020	011	Nickel	EPA 6020	Aqueous Only
114.020	012	Selenium	EPA 6020	Aqueous Only
114.020	013	Silver	EPA 6020	Aqueous Only
114.020	014	Thallium	EPA 6020	Aqueous Only
114.020	015	Vanadium	EPA 6020	Aqueous Only
114.020	016	Zinc	EPA 6020	Aqueous Only
114.103	001	Chromium (VI)	EPA 7196A	Aqueous Only
114.106	001	Chromium (VI)	EPA 7199	
114.140	001	Mercury	EPA 7470A	Aqueous Only
114.141	001	Mercury	EPA 7471A	
114.221	001	Cyanide, Total	EPA 9012A	
114.222	001	Cyanide	EPA 9014	
114.240	001	Corrosivity - pH Determination	EPA 9040B	Aqueous Only
114.241	001	Corrosivity - pH Determination	EPA 9045C	
114.250	001	Fluoride	EPA 9056	
114.270	001	Fluoride	EPA 9214	

Field of Testing: 115 - Extraction Test of Hazardous Waste

115.021	001	TCLP Inorganics	EPA 1311
115.022	001	TCLP Extractables	EPA 1311
115.030	001	Waste Extraction Test (WET)	CCR Chapter11, Article 5, Appendix II
115.040	001	Synthetic Precipitation Leaching Procedure (SPLP)	EPA 1312

Field of Testing: 116 - Volatile Organic Chemistry of Hazardous Waste

116.020	030	Nonhalogenated Volatiles	EPA 8015B
116.020	031	Ethanol and Methanol	EPA 8015B
116.030	001	Gasoline-range Organics	EPA 8015B
116.040	041	Methyl tert-butyl Ether (MTBE)	EPA 8021B
116.040	062	BTEX	EPA 8021B
116.080	000	Volatile Organic Compounds	EPA 8260B
116.080	120	Oxygenates	EPA 8260B
116.100	001	Total Petroleum Hydrocarbons - Gasoline	LUFT GC/MS
116.100	010	BTEX and MTBE	LUFT GC/MS

Field of Testing: 117 - Semi-volatile Organic Chemistry of Hazardous Waste

117.010	001	Diesel-range Total Petroleum Hydrocarbons	EPA 8015B
117.110	000	Extractable Organics	EPA 8270C
117.140	000	Polynuclear Aromatic Hydrocarbons	EPA 8310
117.171	000	Nitroaromatics and Nitramines	EPA 8330A
117.210	000	Organochlorine Pesticides	EPA 8081A
117.220	000	PCBs	EPA 8082

Field of Testing: 120 - Physical Properties of Hazardous Waste

120.020	001	Ignitability	EPA 1020A

TORRENT LABORATORY, INC.

Certificate No. 1991
Renew Date: 4/30/2010

120.070	001	Corrosivity - pH Determination	EPA 9040B
120.080	001	Corrosivity - pH Determination	EPA 9045C

As of 5/10/2010 , this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

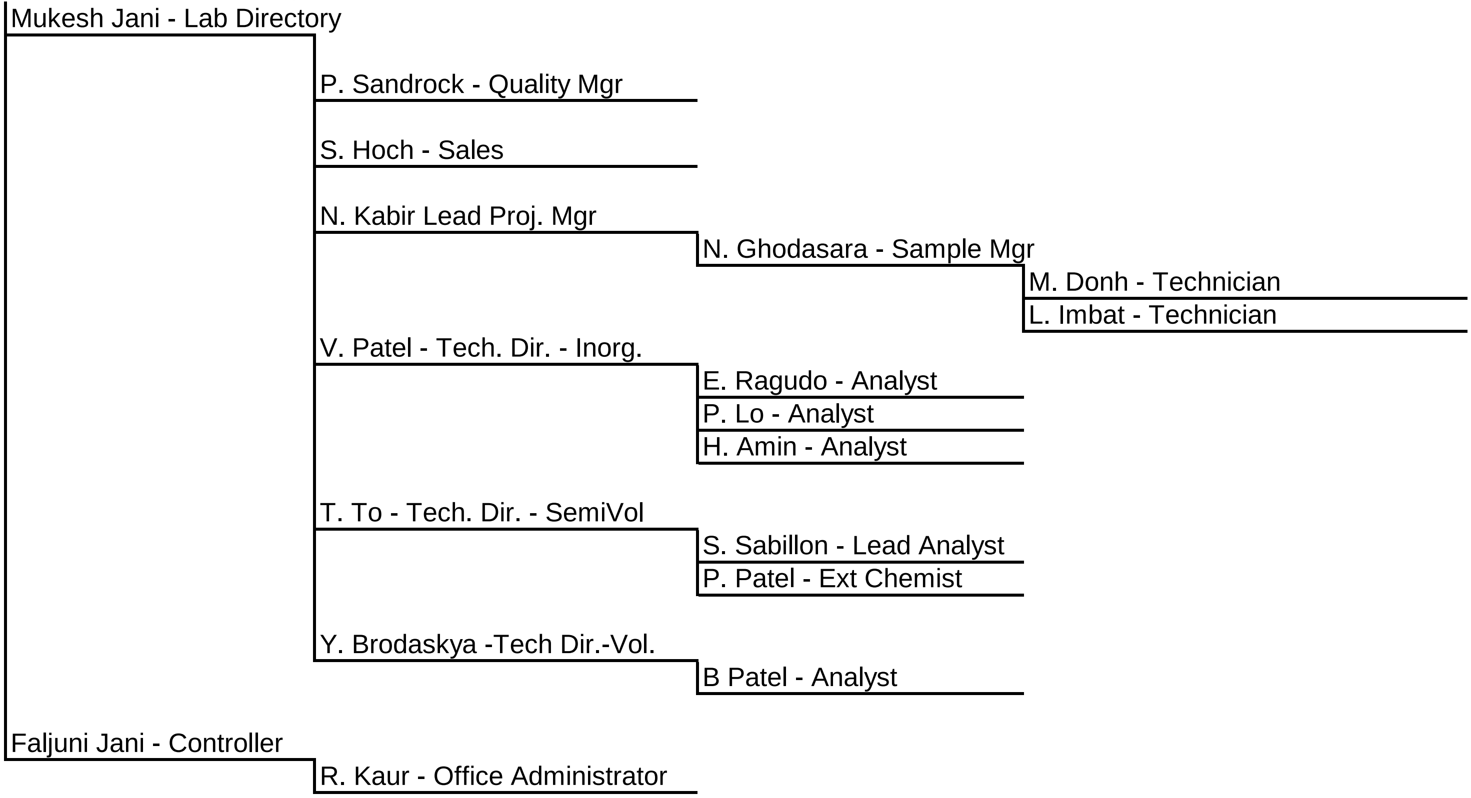
Appendix B

TORRENT LABORATORY, INC

Organizational Chart January 2008

Torrent Laboratory, Inc

Attachment B



Corrective Action Report (CAR)

Attachment E

Date ____________________
Department ____________________
Analyst Initiating CAR ____________________
Reason ____

Description of Incident

Proposed Corrective Action

Department Manager CAR Acceptance **Date** __________ **Manager Signature** __________

Additional Comments (if any)

QA/QC Manager Acceptance **Date** __________ **QC Manager Signature** __________

Additional Comments (if any)

Effective Date of Corrective Action ____________________

Implemented By __________
Actual Implementation Date __________

Original: QA/QC
Copy Department Affected

Change Order Form

Date: ________________ Time: ____________

Client: ________________ Order ID: ____________

Project Number: ________________ Project Name: ____________

Order Taken By: ________________ Ordered By: ____________

Laboratory ID	Client ID	Change Requested

Remarks:

Date Test(s) Added: Test(s) Added By:

Note: Original to be placed in client file (electronic and/or hardcopy)

Data Validation Request Form

Attachment G

Date Requested ____________________
Requested By ____________________
Work Order # ____________________
Analyses Affected __________________
____

Request Taken By __________
Response Needed By __________

Submitted to (Dept) ___________
Submitted By __________
Date Submitted ___________

Description of Validation Requested By Client:

____
____
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____
____
____
____
____

Validation Investigation Results:

____
____
____
____
____
____
____
____

Analysts(s) Investigating:	Date:
Re-issue Required (Yes/No):	Date Report Re-issued:
Response to Client By:	Date:
Client Notified By (phone, FAX, email):	

All Data Validation Requests must be stored with client file.

Original requests resides with PM, one copy in file (electronic and/or hard), one with QA

Phase II Soil Investigation Report
800 Cedar Street
APN 006-047-001
Oakland, California

November 9, 2011

Prepared Under:

USEPA Brownfields Grant # 2B-00T18101-0

For:

City of Oakland
250 Frank H. Ogawa Plaza, 4th Floor
Oakland, California 94612

Prepared By:

Northgate Environmental Management, Inc.
300 Frank H. Ogawa Plaza, Suite 510
Oakland, California 94612

Dennis Laduzinsky, C.E.G., R.E.A.
Principal

Adam Klein, P.G., C.HG.
Associate Hydrogeologist

1204.18

TABLE OF CONTENTS

TABLES

FIGURES

APPENDICES

ACRONYMS AND ABBREVIATIONS

APN	Assessor's Parcel Number
BAG	Brownfield Assessment Grant
bgs	Below Ground Surface
Cal/EPA	California Environmental Protection Agency
Caltrans	California Department of Transportation
CHHSLs	California Human Health Screening Levels
DTSC	Department of Toxic Substances Control
EPA	Environmental Protection Agency
ESL	Environmental Screening Levels
GRC	Geo/Resource Consultants, Inc.
LCS	Laboratory Control Spike
LCSD	Laboratory Control Spike Duplicate
mg/kg	Milligrams Per Kilogram
mg/L	Milligrams Per Liter
MS/MSD	Matrix Spike/Matrix Spike Duplicate
OEHHA	Office of Environmental Health Hazard Assessment
PID	Photo Ionization Detector
ppm	Parts Per Million
PQL	Practical Quantitation Limits
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
RPD	Relative Percent Difference
RWQCB	Regional Water Quality Control Board
SAP	Sampling and Analysis Plan
STLC	Soluble Threshold Limit Concentration
SVOC	Semi-volatile Organic Compound
TEPH	Total Extractable Petroleum Hydrocarbons
TPH	Total Petroleum Hydrocarbons
TPH-d	Total Petroleum Hydrocarbons as Diesel
TPH-mo	Total Petroleum Hydrocarbons as Motor Oil
TRPH	Total Recoverable Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentration
ULRP	Urban Land Redevelopment Program
USEPA	United States Environmental Protection Agency
USA	Underground Service Alert
UST	Underground Storage Tank
VCA	Voluntary Cleanup Agreement
WET	Waste Extraction Test

1.0 INTRODUCTION AND SCOPE OF SERVICES

This report presents the results of a Phase II Soil Investigation performed by Northgate Environmental Management, Inc. (Northgate) for the City of Oakland (the City) at 800 Cedar Street in Oakland, California (the Site). The Site consists of an approximate five acre vacant parcel located on the west side of Pine Street between 9th Street and Shorey Street in Oakland and is owned by the California Department of Transportation (Caltrans). The Site has historically been identified as 800 Cedar Street. However, reconfiguration of Interstate 880 in Oakland has removed Cedar Street at this location. The parcel is identified as Assessor's Parcel Number (APN) 006-047-001 in Alameda County. A Site Location Map is shown on Figure 1.

The work is being performed for the City under Brownfield Assessment Grant (BAG) Number 2B-00T18101-0 for both hazardous substances and petroleum hydrocarbons, issued by the United States Environmental Protection Agency (USEPA) for the West Oakland Development Area. The work was performed in accordance with the following documents:

- *Quality Assurance Project Plan, West Oakland Development Area, Oakland, California*, Northgate, September 8, 2009 (the QAPP), and
- *Sampling and Analysis Plan, Phase II Soil Investigation, APN 006-047-001 (800 Cedar Street), Oakland, California*, Northgate, July 14, 2011 (the SAP).

The purpose of this Phase II Soil Investigation is to:

- Define the extent of semi-volatile organic compound (SVOC) and petroleum hydrocarbon soil contamination in specific areas of the Site that were identified in previous investigations;
- Further evaluate elevated lead concentrations detected in soil at the Site; and
- Evaluate the potential need for remediation or additional evaluation of risk at the Site.

The scope of work for this investigation included the following services:

- Collecting soil samples from 13 borings advanced at the Site;
- Selectively analyzing soil samples for 17 metals, total extractable petroleum hydrocarbons (TEPH), and SVOCs; and
- Preparing this report.

2.0 BACKGROUND

2.1 Site Description

The Site consists of an approximate five acre (600 feet by 400 feet) parcel of land located on the west side of Pine Street, between 9th Street and Shorey Street in Oakland, California. The Site is almost entirely covered by the remnant concrete slab of a former building. The Site is currently owned by Caltrans, and is used for construction material storage.

The Site is located in an area of mixed residential and commercial development. The Site is bordered on the north by 9th Street, across which are residences and industrial warehouse buildings. The Site is bordered on the east and south by Pine Street and Shorey Streets, followed by residences. The Site is bordered along the west by an access ramp for Interstate 880. Figure 1 shows the Site location and Figure 2 (Site Plan) shows a current aerial view of the Site overlain by the approximate Site boundary as it existed in the early 1990s, along with historical features identified in previous environmental investigation reports. Figure 2 also shows historical soil borings where elevated concentrations of total petroleum hydrocarbons (TPH) and/or SVOCs have been detected in soil, as well as the locations of the soil borings installed during this current investigation.

2.2 Previous Investigations and Regulatory Involvement

The Site is currently regulated by the State of California Environmental Protection Agency, Department of Toxic Substances Control (DTSC), under a Voluntary Cleanup Agreement (VCA), as amended twice in 1996, and once each in 1997, 1999 and 2002. USEPA is the agency overseeing the BAG for the Site.

Multiple investigations and remedial activities have been performed at the Site since 1990. The following investigation reports have been prepared for the Site:

- Geo/Resource Consultants, Inc. (GRC), 1992. *Site Investigation Report – Area 4, Department of Transportation T.O. Number: 04-192201-01, Highway 880, Cypress Reconstruction, Oakland, California,* August 1992.
- On-Site Technologies, 1993. *Preliminary Endangerment Assessment, Phoenix 800, 800 Cedar Street, Oakland, California,* November 1993.
- IT Corporation, 2000. *Site Investigation Report, Soil and Groundwater Investigation, Former Phoenix Iron Works Facility, 800 Cedar Street, Oakland, California,* dated March 8, 2000.

The key issues identified in these reports are as follows:

- Historically, the Site was used for a variety of purposes between 1920 and the present, including auto parts manufacturing, steel and ironworks fabrication, and fireworks manufacturing.
- One diesel and one gasoline underground storage tank (UST) located on the western side of the Site were removed sometime between 1995 and 1997, and a total of 800 cubic yards of soil were excavated and disposed of as part of the UST removals.
- Soil sampling performed at the Site during the tank removals indicated up to 17,000 parts per million (ppm) of lead and 44 ppm of arsenic in soil in the southwest corner of the former Phoenix Iron Works property, which is now outside the current Site property boundary. Soil excavation was initiated to remove these elevated metals concentrations, and during this excavation, two solvent-containing USTs (approximately 250 gallons and 10 gallons) and a settling sump were encountered. A total of 3,300 cubic yards of soil were excavated and disposed of as part of this remedial action (IT, 2000).
- Soil sampling performed in 1999 indicated that shallow soil along the western edge of the Site contains total recoverable petroleum hydrocarbons (TRPH) in excess of 1,000 ppm. This area was previously identified as containing “black-stained sand”, and was previously characterized by soil sampling in borings P-25, P-26 and P-8 (see Figure 2).
- The 1999 soil sampling indicated two boring locations (borings P-16 and P-19 on Figure 2) with elevated SVOC concentrations in shallow soil samples, and the presence of elevated lead concentrations in shallow soil at multiple locations across the Site.

A detailed summary of these prior investigations is provided in the SAP, and in the *Site Investigation Summary Report, APN 006-047-001 (800 Cedar Street), Oakland, California,* (Northgate, 2011).

The City of Oakland Redevelopment Agency is considering purchasing this property from Caltrans. The City of Oakland Redevelopment Agency is evaluating potential commercial redevelopment options for the Site, although the exact redevelopment use for the Site is not known at this time. The purpose of this investigation is to evaluate the extent of TEPH and SVOCs at selected locations at the Site and to provide additional data regarding the presence of metals in shallow soil at the Site.

3.0 SOIL INVESTIGATION

3.1 Investigation Methods

Northgate performed soil sampling at the Site on August 11, 2011. Prior to sampling, Northgate notified Underground Service Alert (USA, ticket #0260009) and contracted with a private utility locator to scan each boring location with utility locating equipment to ensure the boring locations were clear of any underground utilities. Following the scanning, 13 soil borings (NG-1 through NG-13) were advanced to depths of 5 feet below the ground surface (bgs) for soil sample collection. Approximate boring locations are shown on Figure 2. Permit number W2011-0062 for the borings, obtained from the Alameda County Public Works Department, is presented in Appendix A.

The borings were advanced using a track mounted direct-push GeoProbe drill rig. A continuous soil core was collected from each boring in clear acetate liners. The acetate liner was opened at multiple intervals, and the soils were screened for the possible presence of volatile aromatic compounds using a photoionization detector (PID). Soil lithology observations for each boring were recorded in the field notes.

Soil samples were collected for chemical analysis at approximate depths of 1, 3, and 5 feet bgs in each boring. Samples were collected by cutting 6 inch lengths of the acetate liners from the continuous cores, sealing the 6 inch segments with Teflon tape and plastic caps, labeling the samples and storing them on ice in a cooler. Samples were transported to the analytical laboratory (Torrent Laboratories of Milpitas, California) under chain-of-custody control. Duplicate soil samples were collected at 1 foot bgs from borings NG-2, NG-3, NG-7, NG-10, and NG-13. Boring locations for duplicate sample collection were chosen at locations where either soil discoloration was observed or to provide geographic coverage across the Site.

Soil samples collected from borings NG-1 through NG-5 were analyzed for the following constituents:

- Total petroleum hydrocarbons as motor oil (TPH-mo) and diesel (TPH-d) using EPA Method 8015; and
- 17 metals using EPA Method 6010/7471.

Soil samples collected from borings NG-6 through NG-13 were analyzed for the following constituents:

- SVOCs using USEPA Method 8270; and
- 17 metals using USEPA Method 6010/7471.

All drilling equipment was steam-cleaned prior to use at each boring location. After completion of sampling activities, all borings were backfilled with neat cement in accordance with the Alameda County Public Works Agency, Water Resources Section permit requirements and with oversight from the Alameda County Public Works Agency Water Resources inspector. Soil cuttings were used to fill the top 2 feet of boring NG-5 (located on bare soil).

3.2 Subsurface Conditions

Subsurface soils encountered at the Site consisted primarily of a gravelly sandy fill underlain by well graded sand. Subsurface conditions were similar at all of the borings. Groundwater was not encountered in any of the borings.

3.3 Soil Screening Levels

Analytical results from the soil samples were evaluated using the following screening levels:

- California Human Health Screening Levels (CHHSLs) for both residential and commercial/industrial land use;
- Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) Table A-1, Residential Land Use, Groundwater is a Current or Potential Source of Drinking Water (RWQCB 2008);
- RWQCB ESLs Table A-2, Commercial/Industrial Land Use, Groundwater is a Current or Potential Source of Drinking Water (RWQCB 2008);
- RWQCB ESLs Table K-3, Direct Exposure Soil Screening Levels, Construction/Trench Worker Exposure Scenario (RWQCB 2008);
- The City of Oakland's Urban Land Redevelopment Program (ULRP) Survey of Background Metal Concentration Studies; and
- Total Threshold Limit Concentrations (TTLCs) for characterization of hazardous waste.

Additional information regarding each of these screening levels is provided below.

The CHHSLs were developed by the Office of Environmental Health Hazard Assessment (OEHHA) on behalf of California Environmental Protection Agency (Cal/EPA) and are based on an excess lifetime cancer risk of 10^{-6} and a hazard quotient of 1.0 for noncancer health effects. The CHHSLs were developed using standard exposure assumptions and chemical toxicity values published by the USEPA and Cal/EPA. Under most circumstances the presence of a chemical in soil at concentrations below the corresponding CHHSLs can be assumed to not pose a significant health risk to people who may live (residential CHHSLs) or work (commercial/industrial CHHSLs) at the site. The presence of a chemical at concentrations in excess of a CHHSL does not necessarily indicate that adverse impacts to human health are occurring or will occur, but suggests that further evaluation of potential human health concerns is warranted (Cal/EPA, 2005).

The RWQCB presents ESLs in their guidance document *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater* (RWQCB, 2008) for multiple site use scenarios and for different media. For site characterization studies such as the present investigation, ESLs are used as a general screening guide to determine whether additional investigation, remedial actions, or risk assessment may be required. The presence of a chemical at a concentration above an ESL does not necessarily indicate that adverse impacts to human health or the environment are occurring, but rather, indicate that a potential for adverse risk may exist and that additional evaluation may be warranted. Neither the ESLs nor the CHSSLs are regulatory cleanup standards, and they are intended to be used for screening evaluation only.

In some cases, particularly with respect to metals such as arsenic and vanadium, both the CHSSLs and the RWQCB residential and commercial/industrial ESLs are lower than the naturally occurring regional background concentrations. In these cases, generally accepted background concentrations are used for evaluation. The City of Oakland's ULRP has developed a Survey of Background Metal Concentration Studies, and values from this table were included as screening levels for the soil analytical results for metals.

The TTLCs are used to define material as a hazardous or non-hazardous waste for landfill disposal purposes and do not necessarily have any relation to health risk evaluation. However, these levels are used to evaluate the volume of soil that may require disposal as hazardous waste and are included as screening levels in this report.

3.4 Soil Analytical Results

Soil sample analytical results are presented in Tables 1, 2, 3, and 4. Laboratory analytical reports are presented in Appendix B. Analytical results for each of the analyte groups are discussed below.

3.4.1 Total Petroleum Hydrocarbons

A total of 17 soil samples (including two duplicate samples) collected from four different soil borings were analyzed for TPH-d and TPH-mo. TPH-d and TPH-mo analytical results are presented in Table 1 and on Figure 3. As shown in Table 1, TPH-d was detected in two samples; sample NG-1-1.0 at a concentration of 630 milligrams per kilogram (mg/kg) and sample NG-2-1.0 at a concentration of 4.4 mg/kg. The TPH-d result from sample NG-2-1.0 was reported by the lab to be not typical of the diesel standard pattern. The NG-1-1.0 TPH-d concentration exceeds the 83 mg/kg ESL for both residential and commercial/industrial land use, but was well below the 4,200 mg/kg ESL for construction/trench worker exposure.

TPH-mo was detected in 11 of the 17 samples at concentrations ranging from 4.8 to 2,700 mg/kg. The TPH-mo result from sample from NG-1-5.0 (13 mg/kg) was reported by the lab to be atypical of the motor oil standard pattern. Two of these samples (NG-1-1.0 and NG-3-1.0 duplicate) exceeded the 370 mg/kg ESL for residential land use. Sample NG-1-1.0 (2,700 mg/kg) exceeds the 2,500 mg/kg ESL for commercial/industrial land use. All of the sample concentrations were well below the 3,700 mg/kg ESL for construction/trench worker exposure.

3.4.2 17 Metals Analytical Results

A total of 28 soil samples (including two duplicate samples) collected from 13 different borings were analyzed for 17 metals. Analytical results for metals are shown in Table 2. Beryllium, molybdenum, selenium, and thallium were not detected above the laboratory Practical Quantitation Limits (PQLs) in any of the samples. With the exception of arsenic, cadmium, and lead, metals concentrations were below their respective residential CHHSLs in all of the samples.

Arsenic was detected in 16 samples at concentrations ranging from 1.7 to 65 mg/kg. All of these reported concentrations exceed the residential CHHSL of 0.07 mg/kg and the commercial/industrial CHHSL of 0.24 mg/kg. However, only two of the measured concentrations (17 mg/kg in NG-2-1.0 and 65 mg/kg in NG-1-3.0) were above the RWQCB ESL for construction worker/trench worker exposure of 15 mg/kg. The City of Oakland ULRP indicates naturally-occurring background concentrations of 1.8 - 31 mg/kg for arsenic in soil. All of the detected values were less than the TTLC of 500 mg/kg.

Cadmium was detected in four of the samples at concentrations of 1.7 to 4.9 mg/kg. Three of the reported concentrations exceeded the residential CHHSL of 1.7 mg/kg, but none of the reported concentrations were above the commercial/industrial CHHSL of 7.5 mg/kg, the RWQCB ESL for construction worker/trench worker exposure of 39 mg/kg, or the TTLC of 100 mg/kg.

Lead was detected in all of the samples, at concentrations ranging from 1.3 to 2,900 mg/kg. Lead analytical results are shown graphically on Figure 4. Lead concentrations in 11 of the samples exceeded the 80 mg/kg residential CHSSL, and six of these samples (NG-2-1.0 at 640 mg/kg; NG-2-1.0 duplicate at 340 mg/kg; NG-3-1.0 at 350 mg/kg; NG-5-1.0 at 520 mg/kg; NG-10-1.0 at 460 mg/kg; and NG-13-1.0 at 2,900 mg/kg) exceeded the 320 mg/kg commercial/industrial CHHSL. The only sample that exceeded the 1,000 mg/kg TTLC for lead was NG-13-1.0, with a concentration of 2,900 mg/kg of lead. Nine samples (NG-1-1.0, NG-2-1.0, NG-2-1.0-D, NG-3-1.0, NG-5-1.0, NG-6-1.0, NG-10-1.0, NG-11-1.0, and NG-13-1.0-D) were analyzed for soluble lead using the Waste Extraction Test (WET) to classify the soil for hazardous waste landfill disposal. Seven of the samples (NG-1-1.0, NG-2-1.0, NG-2-1.0-D, NG-3-1.0, NG-6-1.0, NG-10-1.0, and NG-13-1.0-D) contained soluble lead above the Soluble Threshold Limit Concentration (STLC) of 5 mg/kg, with NG-13-1.0-D having the highest concentration of soluble lead (520 milligrams per liter, mg/L).

3.4.3 SVOC Analytical Results

A total of 28 samples (including three duplicates) collected from eight soil borings were analyzed for SVOCs. Analytical results for SVOCs are shown in Table 3. Fluoranthene and pyrene were the only SVOCs detected above the laboratory PQLs, and these chemicals were only detected in one sample, NG-6-1.0 (21 mg/kg fluoranthene and 25 mg/kg pyrene). Both of these detections were below their respective residential and commercial/industrial ESLs.

3.5 Quality Assurance/Quality Control

Soil samples were collected following sampling protocols and quality assurance/quality control (QA/QC) procedures outlined in the SAP. QC objectives include *precision*, a measure of mutual agreement among individual measurements of the same property; *accuracy*, the agreement of a measurement with the accepted reference value; *representativeness*, the degree to which sample distribution falls within the statistical bounds of a population; *completeness*, a measure of the amount of valid data obtained compared to what was planned; and *comparability*, the confidence with which one data set can be compared to another. QC procedures are designed to increase or improve data quality and to help interpret discrepancies in results. Sampling QA/QC procedures were followed with respect to equipment, field procedures, sample containers, decontamination, storage, holding times, and field QC sampling. Chain-of-custody forms were completed for all samples, and samples were preserved according to the analytical method requirements. Torrent Laboratory in Milpitas, California performed the analyses and is state-certified for the methods listed. All samples were preserved according to the analytical methods requirements, all analyses were performed according to standard methods, and all sample holding times and preservation requirements were met. Analytical results were reported for all values above the PQL.

Northgate collected the following duplicate samples for analysis:

- For TPH-d and TPH-mo: NG-2-1.0/NG-2-1.0-D and NG-3-1.0/NG-3-1.0-D;
- For 17 metals: NG-2-1.0/NG-2-1.0-D and NG-13-1.0/NG-13-1.0-D; and
- For SVOCs: NG-7-1.0/NG-7-1.0-D, NG-7-1.0/NG-7-1.0-D and NG-13-1.0/NG-13-1.0-D.

Comparison of primary and duplicate sample results using the relative percent difference (RPD) between the duplicate sample results is used to assess the precision of the test data. Typically, an RPD of 50% or less is considered acceptable for soil samples. Table 4 presents the duplicate sample results, and the RPD calculations for each of the analyses. RPD calculations cannot be performed for samples where the analytical result is non-detect. Because the duplicate samples did not contain detectable concentrations of SVOCs above the PQL, SVOCs are not included in Table 4.

The results presented in Table 4 indicate that over half of the duplicate analyses had RPDs that were greater than 50%. This high RPD is likely due to the natural heterogeneity of the soil samples.

Several QA/QC analyses were performed by the analytical laboratory. Method blanks were analyzed for each analytical method performed to assess the level of contamination introduced by the laboratory. Results of the method blank analyses were all non-detect, with the exception of TPH-d and TPH-mo, reported at 0.86 and 2.2 mg/kg in the method blank sample. Results of the method blank analyses for SVOCs were all non-detect, with the exception of dimethyl phthalate and diethylphthalate, reported at 0.47 and 0.28 mg/kg. Several metals were also reported at very low-level concentrations in the method blank samples for soil.

Surrogate recoveries were performed in which selected samples were spiked with a known concentration of contaminant (laboratory control spike [LCS] and laboratory control spike duplicate [LCSD]) and the percent recovery was calculated to assess the accuracy of the analytic method. Surrogate recoveries and the RPD between duplicate results - calculated to assess the precision of the data - were all within the acceptable ranges, with the following exceptions:

- The percent recoveries for pyrene for one analytical batch were outside of laboratory control limits but were within the percent RPD limits.
- The percent recoveries for barium, copper and zinc for one analytical batch were outside of laboratory control limits, but the associated LCS/LCSD percent recoveries and percent RPDs were within the laboratory control limits.
- The spikes for the matrix spike/matrix spike duplicate (MS/MSD) for lead were not recoverable.

The laboratory stated that no corrective actions were required based on these QA/QC results. Details regarding the QA/QC results are provided in the Case Narrative in the laboratory analytical report, which is included in Appendix B.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The soil sampling performed during this investigation was intended to supplement prior investigation work at the Site. The prior investigation work indicated the following:

- Elevated concentrations of lead (above the 80 mg/kg residential CHSSL and in many cases, above the 320 mg/kg commercial/industrial CHSSL) were detected in shallow soil samples from across the Site. There was no apparent pattern to these elevated lead concentrations, with the exception that they were confined to the upper 1 to 3 feet of soil.
- The only area of TPH-impacted soil at the Site was limited to the northwest portion of the Site, and was labeled as a “black-stained sand area”.

Results from the current soil investigation were consistent with the results from these prior investigations, and indicated the following:

- Elevated concentrations of lead, in excess of the 80 mg/kg residential CHSSL, are present across the Site in the upper 1 foot of soil. Soil samples that were collected from a depth of 3 feet bgs consistently had concentrations of lead below this CHSSL and were typically below 20 mg/kg. Eleven of the 28 samples analyzed for lead during this investigation contained lead above the residential land use CHHSL of 80 mg/kg. Six of these samples contained lead above the commercial/industrial land use CHSSL of 320 mg/kg. Nine of the 1 foot depth samples were analyzed for soluble lead using the WET, and seven of these samples exceeded the 5 mg/L STLC for lead, indicating that if this soil is to be disposed of at a landfill, it may have to be disposed of as hazardous waste. Additional evaluation of soluble lead would be required to determine if the soil would be classified as a RCRA or Federal hazardous waste.
- The area of TPH-impacted soil in the northwest portion of the Site that had previously been delineated as a “black-stained sand area” is relatively limited and is confined to the upper 1 to 2 feet of soil. Three of the five sampling locations in this area had soil samples at a depth of 1 foot that contained concentrations of TPH-mo in excess of 100 mg/kg, but the maximum concentration of TPH-mo detected in a sample below 1 foot was 14 mg/kg.
- The elevated concentrations of SVOCs that were previously detected in soil borings P-16 and P-19 appear to be of limited extent. SVOCs were only detected in 1 of 27 samples collected from 8 borings surrounding these two borings, and fluoranthene and pyrene were the only SVOCs detected. These SVOCs were present at concentrations well below their residential and commercial/industrial land use ESLs.

Based upon these data and data from prior investigations at the Site, it appears that the primary hazardous substance present at the Site is lead in shallow soil, and the elevated lead concentrations appear to be confined to the upper 1-2 feet at the Site. Based on a Site area of 240,000 square feet, the volume of impacted soil may be as much as 18,000 cubic yards. The lead appears to be soluble, based upon the WET analysis results, and these soluble lead concentrations may result in this soil being classified as hazardous waste if the soil is excavated and removed from the Site. Almost the entire Site is capped by concrete, and therefore, the lead does not appear to currently present a human health risk. However, we recommend some form of remedial action be implemented in order to redevelop the Site. Suitable alternatives include:

1. Selective excavation and off-site disposal of soil containing lead above commercial land use standards.
2. Selective excavation and on-site encapsulation of soil containing lead above commercial land use standards.
3. On-site treatment of soil containing elevated concentrations of lead in order to reduce the solubility or bio-availability (toxicity) of lead, in order to re-use the soil in a commercial land use setting.

We recommend that all soil containing lead above the residential land use CHSSL be excavated and removed from the Site if the Site will be redeveloped for residential land use.

The extent of TPH-impacted soil in the northwest corner of the Site appears to be relatively limited. Soil containing TPH above commercial land use standards could be excavated and removed from the Site. However, TPH is not a hazardous chemical by itself. Historical analytical results from the Site have demonstrated that the more hazardous substances associated with TPH, such as benzene, toluene and naphthalene, are not present in the soil in this area. Under these circumstances, it may be appropriate to leave the TPH-impacted soil in place. We recommend that regulatory discussions to establish Site-specific cleanup goals be initiated before any remedial efforts are started at the Site. Additionally, if soils are left on Site with concentrations of contaminants above the unrestricted (residential) land use screening levels, a soil management plan should be prepared to outline procedures for managing the impacted soil.

5.0 LIMITATIONS

The purpose of a soil quality investigation is to reasonably characterize existing Site conditions based on the results of a limited target subsurface investigation. In performing such a study, it is understood that a balance must be struck between a reasonable inquiry into the Site conditions and an exhaustive analysis of each conceivable environmental characteristic. The following paragraphs discuss the assumptions and parameters under which such an opinion is rendered.

No investigation is thorough enough to describe all environmental conditions of interest at a given Site. If conditions have not been identified during the study, such findings should not, therefore, be construed as a guarantee of the absence of such conditions at the Site, but rather as the result of the services performed within the scope, limitations, and cost of the work performed.

We are unable to report on or accurately predict events that may change the Site conditions after the described services are performed, whether occurring naturally or caused by external forces. We assume no responsibility for conditions we were not authorized to evaluate or conditions not generally recognized as predictable when services were performed.

Environmental conditions may exist at the Site that cannot be identified solely by visual observation. Where subsurface exploratory work was performed, our professional opinions are based in part on interpretation of data from discrete sampling locations that may not represent actual conditions at unsampled locations.

6.0 REFERENCES

Geo/Resource Consultants, Inc. (GRC), 1992. *Site Investigation Report – Area 4, Department of Transportation T.O. Number: 04-192201-01, Highway 880, Cypress Reconstruction, Oakland, California.* August 1992.

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New York Times, "To Nullify Lead, Add a Bunch of Fish Bones", July 20, 2011.

Northgate Environmental Management Inc. (Northgate), 2011. *Quality Assurance Project Plan (QAPP), West Oakland Development Area, Oakland, California,* September 8, 2009.

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On-Site Technologies, 1993. *Preliminary Endangerment Assessment, Phoenix 800, 800 Cedar Street, Oakland, California*, November 1993.

Regional Water Quality Control Board, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater,* revised May 2008.

TABLES

TABLE 1
Soil Sample Analytical Results - TEPH

Sample ID	Sample Depth (feet bgs)	TPH as diesel (mg/kg)	TPH as motor oil (mg/kg)
NG-1-1.0	1.0	**630**	**2,700**
NG-1-3.0	3.0	< 0.1	**14**
NG-1-5.0	5.0	< 0.1	**13**
NG-2-1.0	1.0	**4.4**	**130**
NG-2-1.0-D	1.0	< 0.1	**77**
NG-2-3.0	3.0	< 0.1	**8.1**
NG-2-5.0	5.0	< 0.1	< 2.0
NG-3-1.0	1.0	< 0.1	**190**
NG-3-1.0-D	1.0	< 0.1	**990**
NG-3-3.0	3.0	< 0.1	< 2.0
NG-3-5.0	5.0	< 0.1	< 2.0
NG-4-1.0	1.0	< 0.1	< 2.0
NG-4-3.0	3.0	< 0.1	**4.8**
NG-4-5.0	5.0	< 0.1	< 2.0
NG-5-1.0	1.0	< 0.1	**28**
NG-5-3.0	3.0	< 0.1	**6.9**
NG-5-5.0	5.0	< 0.1	< 1.53
Regulatory Standards			
RWQCB ESL - Residential		83	370
RWQCB ESL - Commercial/Industrial		83	2,500
RWQCB ESL - Construction Worker		4,200	12,000

NOTES:

TPH: Total Petroleum Hydrocarbons

mg/kg: milligrams per kilogram (parts per million)

<: Not detected at or above the indicated Practical Quantitation Limit (PQL)

RWQCB ESL - Residential: From Table A-1, Shallows Soil Screening Levels, Residential Land Use (RWQCB, 2008)

RWQCB ESL - Commercial From Table A-2, Shallows Soil Screening Levels, Commercial/Industrial Land Use (RWQCB, 2008)

RWQCB ESL - Construction Worker: Values from Table K-3, Direct Exposure Soil Screening Levels, Construction/Trench Worker Exposure Scenario (RWQCB, 2008)

TABLE 2
Soil Sample Analytical Results - Metals

		ANALYTE																	
		Antimony	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Copper**	**Lead**	**Soluble Lead***	**Mercury**	**Molybdenum**	**Nickel**	**Selenium**	**Silver**	**Thallium**	**Vanadium**	**Zinc**
Soil Sample ID	**Sample Depth**	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NG-1-1.0	1.0	<5.0	**9.3**	**64**	<2.0	<1.0	**21**	6.3	**71**	**99**	**6.1**	<0.10	<5.0	**21**	<5.0	<1.0	<5.0	**36**	**160**
NG-1-3.0	3.0	**5.1**	**65**	**170**	<2.0	**1.7**	**21**	<5.0	**23**	**22**	**--**	<0.10	<5.0	**15**	<5.0	**1.2**	<5.0	**27**	**17**
NG-2-1.0	1.0	<5.0	**17**	**88**	<2.0	**2.1**	**26**	**11**	**100**	**640**	**18**	**0.13**	<5.0	**25**	<5.0	<1.0	<5.0	**25**	**260**
NG-2-1.0-D	1.0	<5.0	**4.9**	**95**	<2.0	<1.0	**33**	**6.1**	**31**	**340**	**18**	**0.10**	<5.0	**26**	<5.0	<1.0	<5.0	**23**	**140**
NG-2-3.0	3.0	<5.0	**1.7**	**46**	<2.0	<1.0	**25**	<5.0	**5.6**	**2.8**	**--**	<0.10	<5.0	**15**	<5.0	<1.0	<5.0	**20**	**12**
NG-3-1.0	1.0	**6.1**	**7.8**	**110**	<2.0	**1.9**	**30**	**8.4**	**94**	**350**	**29**	**0.30**	<5.0	**31**	<5.0	<1.0	<5.0	**18**	**370**
NG-3-3.0	3.0	<5.0	<1.7	**65**	<2.0	<1.0	**25**	<5.0	**6.3**	**6.3**	**--**	<0.10	<5.0	**16**	<5.0	<1.0	<5.0	**18**	**190**
NG-4-1.0	1.0	<5.0	<1.7	**31**	<2.0	<1.0	**27**	<5.0	<5.0	**2.2**	**--**	<0.10	<5.0	**18**	<5.0	<1.0	<5.0	**19**	**12**
NG-4-3.0	3.0	<5.0	<1.7	**42**	<2.0	<1.0	**23**	<5.0	**5.7**	**1.4**	**--**	<0.10	<5.0	**15**	<5.0	<1.0	<5.0	**18**	**10**
NG-5-1.0	1.0	<5.0	**3.5**	**100**	<2.0	<1.0	**39**	**6.5**	**40**	**520**	**3.4**	<0.10	<5.0	**33**	<5.0	<1.0	<5.0	**25**	**190**
NG-5-3.0	3.0	<5.0	**7.4**	**64**	<2.0	<1.0	**53**	**11**	**150**	**180**	**--**	**0.24**	<5.0	**56**	<5.0	<1.0	<5.0	**26**	**93**
NG-6-1.0	1.0	<5.0	**2.8**	**96**	<2.0	<1.0	**23**	<5.0	**22**	**180**	**5.2**	<0.10	<5.0	**18**	<5.0	<1.0	<5.0	**20**	**49**
NG-6-3.0	3.0	<5.0	<1.7	**49**	<2.0	<1.0	**26**	**5.4**	**6.4**	**2.1**	**--**	<0.10	<5.0	**17**	<5.0	<1.0	<5.0	**20**	**12**
NG-7-1.0	1.0	<5.0	<1.7	**53**	<2.0	<1.0	**26**	<5.0	**6.5**	**5.8**	**--**	<0.10	<5.0	**19**	<5.0	<1.0	<5.0	**19**	**16**
NG-7-3.0	3.0	<5.0	<1.7	**40**	<2.0	<1.0	**29**	<5.0	**5.6**	**1.3**	**--**	<0.10	<5.0	**15**	<5.0	<1.0	<5.0	**18**	**10**
NG-8-1.0	1.0	<5.0	<1.7	**58**	<2.0	<1.0	**26**	<5.0	**6.5**	**10**	**--**	<0.10	<5.0	**16**	<5.0	<1.0	<5.0	**19**	**19**
NG-8-3.0	3.0	<5.0	<1.7	**38**	<2.0	<1.0	**24**	<5.0	**5.2**	**1.3**	**--**	<0.10	<5.0	**15**	<5.0	<1.0	<5.0	**19**	**9.7**
NG-9-1.0	1.0	<5.0	**3.0**	**62**	<2.0	<1.0	**39**	**6.5**	**11**	**21**	**--**	<0.10	<5.0	**33**	<5.0	<1.0	<5.0	**26**	**34**
NG-9-3.0	3.0	<5.0	<1.7	**47**	<2.0	<1.0	**27**	<5.0	**5.4**	**1.8**	**--**	<0.10	<5.0	**15**	<5.0	<1.0	<5.0	**19**	**11**
NG-10-1.0	1.0	<5.0	**3.6**	**200**	<2.0	<1.0	**26**	<5.0	**34**	**460**	**58**	**0.54**	<5.0	**18**	<5.0	<1.0	<5.0	**20**	**240**
NG-10-3.0	3.0	<5.0	<1.7	**32**	<2.0	<1.0	**25**	<5.0	**5.1**	**1.6**	**--**	<0.10	<5.0	**16**	<5.0	<1.0	<5.0	**18**	**9.2**
NG-11-1.0	1.0	<5.0	**2.6**	**180**	<2.0	<1.0	**21**	<5.0	**45**	**200**	**3.9**	**0.29**	<5.0	**16**	<5.0	<1.0	<5.0	**16**	**470**
NG-11-3.0	3.0	<5.0	**1.7**	**49**	<2.0	<1.0	**27**	<5.0	**7.3**	**4.9**	**--**	<0.10	<5.0	**15**	<5.0	<1.0	<5.0	**21**	**130**
NG-12-1.0	1.0	<5.0	**1.8**	**49**	<2.0	<1.0	**25**	<5.0	**6.8**	**25**	**--**	<0.10	<5.0	**16**	<5.0	<1.0	<5.0	**20**	**27**
NG-12-3.0	3.0	<5.0	<1.7	**44**	<2.0	<1.0	**26**	<5.0	**9.3**	**1.9**	**--**	<0.10	<5.0	**15**	<5.0	<1.0	<5.0	**20**	**11**
NG-13-1.0	1.0	**15**	**9.2**	**1,100**	<2.0	**4.9**	**54**	<5.0	**150**	**2,900**	**--**	**0.27**	<5.0	**30**	<5.0	<1.0	<5.0	**21**	**2000**
NG-13-1.0-D	1.0	<5.0	**3.5**	**82**	<2.0	<1.0	**29**	**8.4**	**26**	**200**	**520**	**0.22**	<5.0	**19**	<5.0	<1.0	<5.0	**22**	**100**
NG-13-3.0	3.0	<5.0	<1.7	**43**	<2.0	<1.0	**23**	<5.0	<5.0	**6.1**	**--**	<0.10	<5.0	**15**	<5.0	<1.0	<5.0	**17**	**610**

TABLE 2
Soil Sample Analytical Results - Metals

		ANALYTE																	
		Antimony	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Copper**	**Lead**	**Soluble Lead***	**Mercury**	**Molybdenum**	**Nickel**	**Selenium**	**Silver**	**Thallium**	**Vanadium**	**Zinc**
Soil Sample ID	**Sample Depth**	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Regulatory Standards																			
CHHSLs - Residential		30	0.07	5,200	150	1.7	100,000	660	3,000	80	ne	18	380	1,600	380	380	5.0	530	23,000
CHHSLs - Commercial/Industrial		380	0.2	63,000	1,700	7.5	100,000	3,200	38,000	320	ne	180	4,800	16,000	4,800	4,800	63	6,700	100,000
RWQCB ESL - Construction Worker		310	15	2,600	98	39	1,200,000	94	310,000	750	ne	58	3,900	260	3,900	3,900	62	770	230,000
Background Metals - City of Oakland		<3 -7.1	1.8-31	ne	<0.25 - 1.1	<0.25 - 3.3	24.8 - 99.7	ne	11.8 - 99.7	3.3 - 144.3	ne	<0.1 - 7.0	ne	2.9 - 144.3	ne	ne	ne	ne	9.3 - 474
TTLC		500	500	10,000	75	100	2,500	8,000	2,500	1,000	5**	20	3,500	2,000	100	500	700	2,400	5,000

NOTES:

mg/kg: milligrams per kilogram (parts per million)
<: Not detected at or above the indicated laboratory practical quantitation limit
ne: Not established
--: Not analyzed
CHSSLs - Residential: California Human Health Screening Level for residential land use established by California EPA (September 2009, January 2005)
CHSSLs -Commercial/Industrial: California Human Health Screening Level for commercial/industrial land use established by California EPA (September 2009, January 2005)
RWQCB ESL - Construction Worker: Values from Table K-3, Direct Exposure Soil Screening Levels, Construction/Trench Worker Exposure Scenario (RWQCB, 2008)
Background Metals - City of Oakland: 'Values taken from City of Oakland Urban Land Redevelopment Program, Survey of Background Metal Concentration Studies, 1995.
TTLC: Total Threshold Limit Concentration for defining a waste as a hazardous waste
STLC: Soluble Threshold Limit Concentration for defining a waste as a hazardous waste
*: Soluable lead determined using the California Waste Extraction Test
****** : STLC

TABLE 3
Soil Sample Analytical Results - SVOCs

Soil Sample ID	Sample Depth (feet bgs)	Fluoranthene mg/kg	Pyrene mg/kg
NG-6-1.0	1.0	**21 J**	**25 J**
NG-6-3.0	3.0	<0.132	<0.147
NG-6-5.0	5.0	<0.132	<0.147
NG-7-1.0	1.0	<0.132	<0.147
NG-7-1.0-D	1.0	<20.1	<22.3
NG-7-3.0	3.0	<0.132	<0.147
NG-7-5.0	5.0	<0.132	<0.147
NG-8-1.0	1.0	<0.132	<0.147
NG-8-3.0	3.0	<0.132	<0.147
NG-8-5.0	5.0	<0.132	<0.147
NG-9-1.0	1.0	<0.132	<0.147
NG-9-3.0	3.0	<0.132	<0.147
NG-9-5.0	5.0	<0.132	<0.147
NG-10.1.0	1.0	<20.1	<22.3
NG-10-1.0-D	1.0	<0.132	<0.147
NG-10-3.0	3.0	<0.132	<0.147
NG-10-5.0	5.0	<0.132	<0.147
NG-11-1.0	1.0	<0.132	<0.147
NG-11-3.0	3.0	<0.132	<0.147
NG-11-5.0	5.0	<0.132	<0.147
NG-12-1.0	1.0	<40.1	<44.5
NG-12-3.0	3.0	<0.132	<0.147
NG-12-5.0	5.0	<0.132	<0.147
NG-13-1.0	1.0	<80.2	<89.0
NG-13-1.0-D	1.0	<20.1	<22.3
NG-13-3.0	3.0	<0.132	<0.147
NG-13-5.0	5.0	<0.132	<0.147
Regulatory Standards			
RWQCB ESL - Residential		40	85
RWQCB ESL - Commercial/Industrial		40	85
RWQCB ESL - Construction Worker		14,000	21,000

NOTES:

mg/kg: milligrams per kilogram (parts per million)

J: Indicates a value between the method detection limit and the practical quantitiation limit and that the reported concentration should be considered as estimated

<: Not detected at or above the indicated laboratory practical quantitation limit

RWQCB ESL - Residential: From Table A-1, Shallows Soil Screening Levels, Residential Land Use (RWQCB, 2008)

RWQCB ESL - Commercial/Industrial: From Table A-2, Shallows Soil Screening Levels, Commercial/Industrial Land Use (RWQCB, 2008)

RWQCB ESL - Construction Worker: Values from Table K-3, Direct Exposure Soil Screening Levels, Construction/Trench Worker Exposure Scenario (RWQCB, 2008)

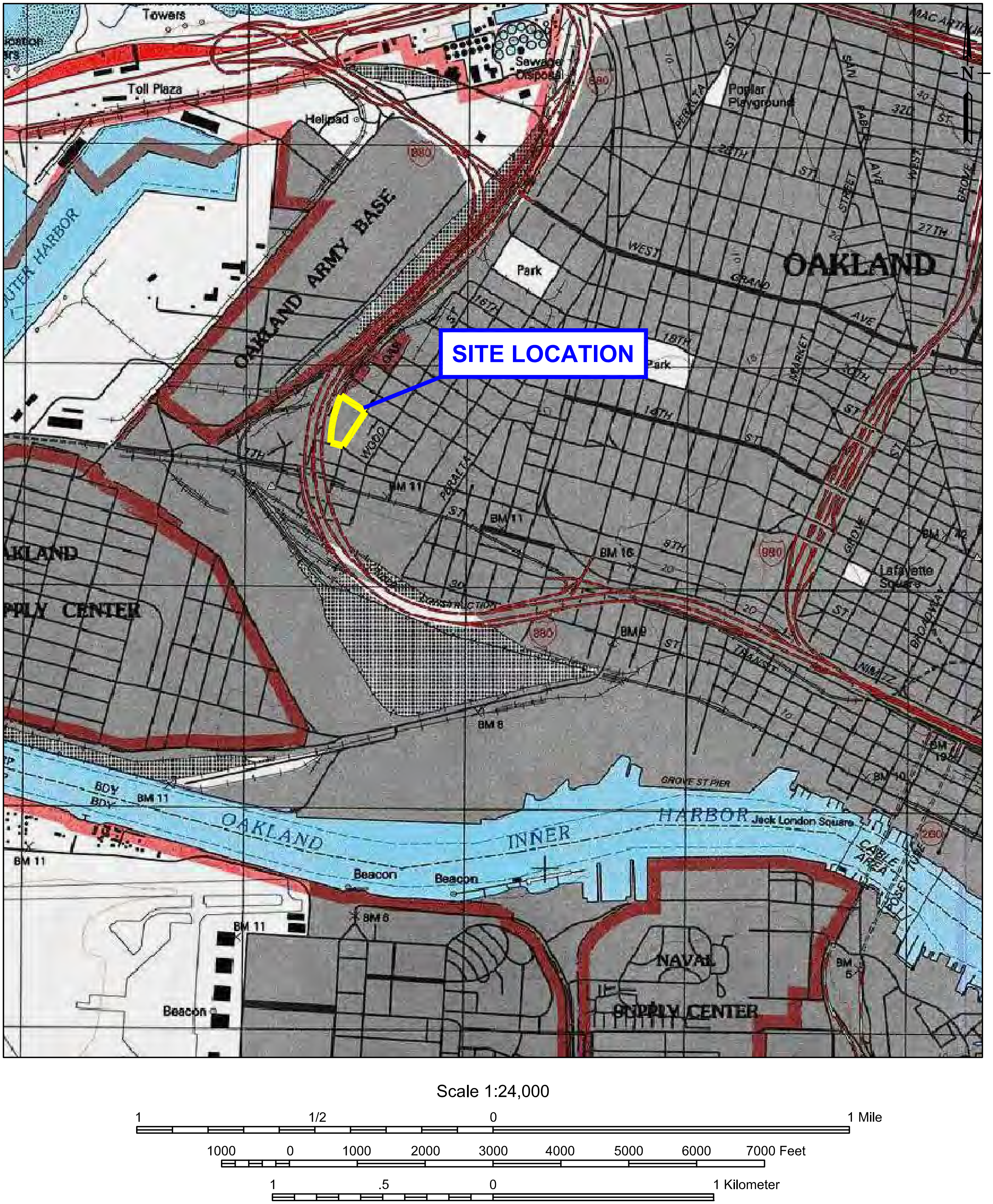
TABLE 4
Duplicate Soil Sample Analyses, Relative Percent Differences

Analyte	NG-2-1.0 (mg/kg)	NG-2-1.0-D (mg/kg)	RPD	NG-3-1.0 (mg/kg)	NG-3-1.0-D (mg/kg)	RPD	NG-13-1.0 (mg/kg)	NG-13-1.0-D (mg/kg)	RPD
TPHd	4.4	< 0.1	NA	< 0.1	< 0.1	NA	-----	-----	-----
TPHmo	130	77	51.2%	190	990	135.59%	-----	-----	-----
Antimony	<5.0	<5.0	NA	-----	-----	-----	15	<5.0	NA
Arsenic	17	4.9	110.5%	-----	-----	-----	9.2	3.5	89.8%
Barium	88	95	7.7%	-----	-----	-----	1100	82	172.3%
Cadmium	2.1	<1.0	NA	-----	-----	-----	4.9	<1.0	NA
Chromium	26	33	23.7%	-----	-----	-----	54	29	60.2%
Cobalt	11	6.1	57.3%	-----	-----	-----	<5.0	8.4	NA
Copper	100	31	105.3%	-----	-----	-----	150	26	140.9%
Lead	640	340	61.2%	-----	-----	-----	2900	200	174.2%
Mercury	0.13	0.1	26.1%	-----	-----	-----	0.27	0.22	20.4%
Nickel	25	26	3.9%	-----	-----	-----	30	19	44.9%
Vanadium	25	23	8.3%	-----	-----	-----	21	22	4.7%
Zinc	260	140	60.0%	-----	-----	-----	2000	100	181.0%

NOTES:

mg/kg: milligrams per kilogram (parts per million)
RPD: Relative Percent Difference
NA: not applicable
<: Not detected at or above the indicated Practical Quantitation Limit (PQL)

FIGURES



Source: National Geographic USGS TOPO! 2000

FIGURE 1
Site Location Map

800 Cedar Street
Oakland, California

northgate
environmental management, inc.

Project No. 1204.18

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LEGEND:

● Soil boring locations

P-25 △ 1999 Soil borings

Approximate site boundary

Site boundary from PEA Report (1993)

0 50 100

Scale (Feet)

N

FIGURE 2
Site Plan

800 Cedar Street
Oakland, California

northgate
environmental management, inc.

Project No. 1204.18

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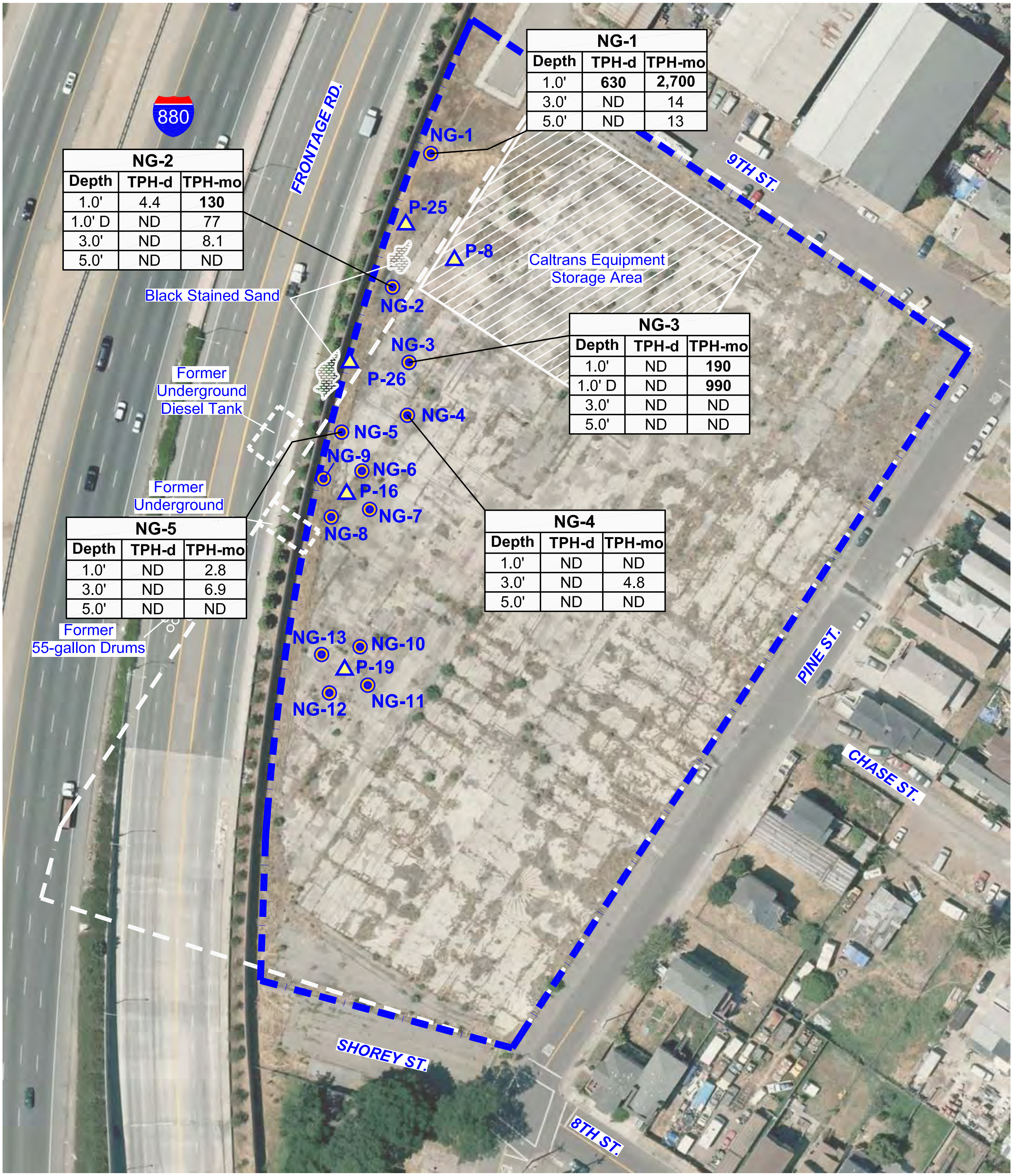


NG-1

Depth	TPH-d	TPH-mo
1.0'	**630**	**2,700**
3.0'	ND	14
5.0'	ND	13

NG-2

Depth	TPH-d	TPH-mo
1.0'	4.4	**130**
1.0' D	ND	77
3.0'	ND	8.1
5.0'	ND	ND

NG-3

Depth	TPH-d	TPH-mo
1.0'	ND	**190**
1.0' D	ND	**990**
3.0'	ND	ND
5.0'	ND	ND

NG-4

Depth	TPH-d	TPH-mo
1.0'	ND	ND
3.0'	ND	4.8
5.0'	ND	ND

NG-5

Depth	TPH-d	TPH-mo
1.0'	ND	2.8
3.0'	ND	6.9
5.0'	ND	ND

LEGEND:

- ◉ Soil boring locations
- P-25 △ 1999 Soil borings
- ▬ ▬ Approximate site boundary
- ▬ ▬ Site boundary from PEA Report (1993)

Notes:
- Data in mg/Kg
- **Bold** = Exceeds RWQCB ESL of 83 mg/Kg for TPH-d and TPH-mo

0 50 100
Scale (Feet)

N

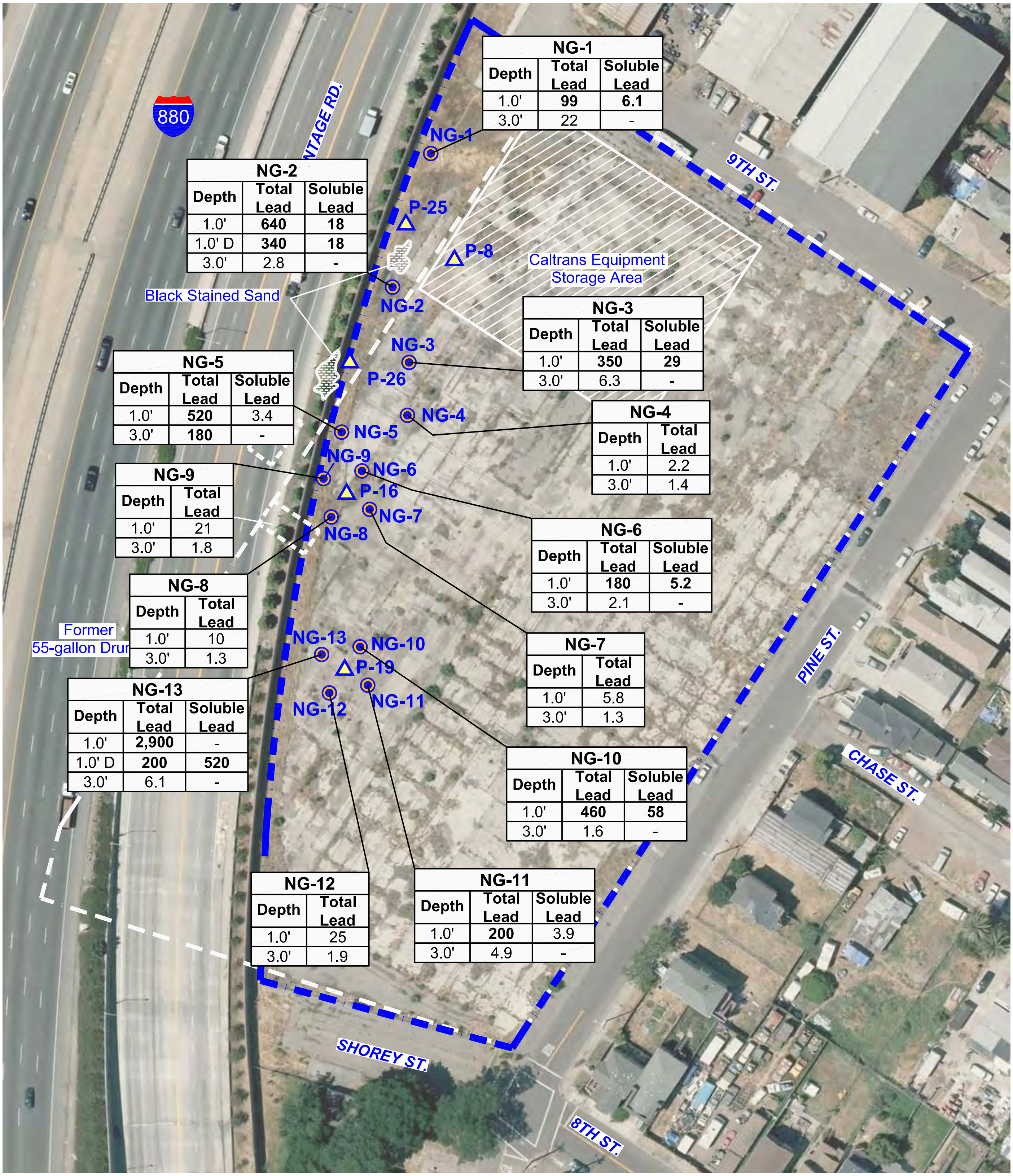
FIGURE 3
TPH Concentrations in Soil

800 Cedar Street
Oakland, California

northgate
environmental management, inc.

Project No. 1204.18

G:\Projects\Temp\1204 City of Oakland\1204.18 800 Cedar\1204.18 Figures\Phase II Rpt\Figure 3-4 - TPH-Lead-Soil.dwg Layout: Fig3 TPH User: oleg Sep 07, 2011 - 2:58pm



NG-1

Depth	Total Lead	Soluble Lead
1.0'	**99**	**6.1**
3.0'	22	-

NG-2

Depth	Total Lead	Soluble Lead
1.0'	**640**	**18**
1.0' D	**340**	**18**
3.0'	2.8	-

NG-3

Depth	Total Lead	Soluble Lead
1.0'	**350**	**29**
3.0'	6.3	-

NG-4

Depth	Total Lead
1.0'	2.2
3.0'	1.4

NG-5

Depth	Total Lead	Soluble Lead
1.0'	**520**	3.4
3.0'	**180**	-

NG-9

Depth	Total Lead
1.0'	21
3.0'	1.8

NG-6

Depth	Total Lead	Soluble Lead
1.0'	**180**	**5.2**
3.0'	2.1	-

NG-8

Depth	Total Lead
1.0'	10
3.0'	1.3

NG-7

Depth	Total Lead
1.0'	5.8
3.0'	1.3

NG-13

Depth	Total Lead	Soluble Lead
1.0'	**2,900**	-
1.0' D	**200**	**520**
3.0'	6.1	-

NG-10

Depth	Total Lead	Soluble Lead
1.0'	**460**	**58**
3.0'	1.6	-

NG-12

Depth	Total Lead
1.0'	25
3.0'	1.9

NG-11

Depth	Total Lead	Soluble Lead
1.0'	**200**	3.9
3.0'	4.9	-

LEGEND:

- ◉ Soil boring locations
- P-25 △ 1999 Soil borings
- ▬ ▬ Approximate site boundary
- ▬ ▬ Site boundary from PEA Report (1993)

Notes:
- Data in mg/Kg
- **Bold** = Exceeds Residential CHHSL of 80 mg/Kg for Total Lead and STLC of 5 mg/Kg for Soluble Lead
- Soluble lead based on the WET

0 50 100
Scale (Feet)

N

FIGURE 4
Lead Concentrations in Soil

800 Cedar Street
Oakland, California

northgate
environmental management, inc.

Project No. 1204.18

G:\Projects\Temp\1204 City of Oakland\1204.18 800 Cedar\1204.18 Figures\Phase II Rpt\Figure 3-4 - TPH-Lead-Soil.dwg Layout: Fig4 Lead User: oleg Sep 15, 2011 - 3:00pm

APPENDIX A
BORING PERMITS

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633   Fax:(510)782-1939

Application Approved on: 02/10/2011 By jamesy

Permit Numbers: W2011-0062
Permits Valid from 08/10/2011 to 08/17/2011

Application Id:	1297297504974	**City of Project Site:**	Oakland
Site Location:	800 Cedar St, Oakland, CA		
Project Start Date:	02/23/2011	**Completion Date:**	02/24/2011
Extension Start Date:	08/10/2011	**Extension End Date:**	08/17/2011
Extension Count:	1	**Extended By:**	priest

Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

Applicant:	Northgate Environmental Mgt. - Adam Klein 300 Ogawa Plaza, Ste 510, Oakland, CA 94612	**Phone:**	510-839-0688 x215
Property Owner:	City of Oakland c/o Gopakumar Nair, Envr. Services Div. 250 Frank Ogawa Plaza, Ste 5301, Oakland, CA 94612	**Phone:**	510-238-5361
Client:	** same as Property Owner **		

	Total Due:	$265.00
Receipt Number: WR2011-0033	**Total Amount Paid:**	~~$265.00~~
Payer Name : Northgate	Paid By: CHECK	**PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 15 Boreholes
Driller: RSI - Lic #: 802334 - Method: DP

Work Total: $265.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2011-0062	02/10/2011	05/24/2011	15	3.00 in.	15.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit

application on site shall result in a fine of $500.00.

6. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

APPENDIX B
LABORATORY ANALYTICAL REPORTS

Northgate Environmental Management Inc.
300 Frank H. Ogawa Plaza, Suite 510
Oakland, California 94612
Tel: 5108390688
Fax: (510) 839-4350

RE: 800 Cedar St. , Oakland, CA

Work Order No.: 1108085 Rev: 1

Dear Adam Klein:

Torrent Laboratory, Inc. received sample(s) on August 11, 2011 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

August 19, 2011

Patti Sandrock

Date

Date: 8/19/2011

Client: Northgate Environmental Management Inc.

Project: 800 Cedar St. , Oakland, CA

Work Order: 1108085

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Analytical Comments for method S_8270C, 1108085-028 MS/MSD, QC Analytical Batch ID 406344, Note:The % recoveries for Pyrene are outside of laboratory control limits but are within % RPD limits. The associated LCS/LCSD % recoveries and % RPD are within limits. No corrective action required.

Analytical Comments for method S_6010B, 1108085-015 MS/MSD, QC Analytical Batch ID 406312, Note:The % recoveries for Barium, Copper and Zinc are outside of laboratory control limits. The associated LCS/LCSD % recoveries and % RPD are within limits. No corrective action required.

Analytical Comment for S)6010B, Note:The spikes in the MS/MSD for Lead are not recoverable. The sample concentration is greater than 4X the spike concentration. No corrective action is required.

REVISIONS:

Per client request, STLC analysis added to several samples.

Note: Extraction of 50 g sample / 500g 0.2M Sodium Citrate Solution was performed according to wet extraction procedure (WET) which was rotated in a rotary shaker for 48 hours.

STLC:Extraction started on 8/22/11 @2:45 PM and ended on 8/24/11 @2:45 PM.

Sample 1108085-041 (NG-13-1.0) TTLC and STLC ratio was outside of acceptance limits. TTLC results was 2900 mg/Kg while STLC was 520 mg/L. The ratio for TTLC to STLC should not be greater than 10:1 in a normal, homogeneous sample. As a result, the TTLC was re-prepared in triplicate and yielded the following results:

4600 mg/Kg
3400 mg/Kg
5600 mg/Kg

These wide ranges of results are indicative of a heterogeneous sample. Because only 1 - 2 grams is used in TTLC preparation while a minimum 50 grams is used in STLC preparation, the STLC data is likely the most representative value for this sample.

Data for the triplicate analyses can be reported upon client request.

Rev 1 (8/29/11)

Sample Result Summary

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

NG-1-1.0 1108085-001

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.28	1.7	9.3	mg/Kg
Barium	SW6010B	1	1	5.0	64	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	21	mg/Kg
Cobalt	SW6010B	1	0.14	5.0	6.3	mg/Kg
Copper	SW6010B	1	0.0900	5.0	71	mg/Kg
Lead	SW6010B	1	0.043	1.0	99	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	21	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	36	mg/Kg
Zinc	SW6010B	1	0.59	5.0	160	mg/Kg
TPH as Diesel (SG)	SW8015B(M)	50	38	99	630	mg/Kg
TPH as Motor Oil (SG)	SW8015B(M)	50	89	200	2700	mg/Kg
Lead (STLC)	SW6010B	1	0.0500	0.10	6.1	mg/L

NG-1-3.0 1108085-002

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TPH as Motor Oil (SG)	SW8015B(M)	1	1.8	4.0	14	mg/Kg
Antimony	SW6010B	1	0.20	5.0	5.1	mg/Kg
Arsenic	SW6010B	1	0.28	1.7	65	mg/Kg
Barium	SW6010B	1	1	5.0	170	mg/Kg
Cadmium	SW6010B	1	0.0590	1.0	1.7	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	21	mg/Kg
Copper	SW6010B	1	0.0900	5.0	23	mg/Kg
Lead	SW6010B	1	0.043	1.0	22	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	15	mg/Kg
Silver	SW6010B	1	1.0	1.0	1.2	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	27	mg/Kg
Zinc	SW6010B	1	0.59	5.0	17	mg/Kg

Sample Result Summary

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

NG-1-5.0 1108085-003

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TPH as Motor Oil (SG)	SW8015B(M)	1	1.8	4.0	13	mg/Kg

NG-2-1.0 1108085-004

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.28	1.7	17	mg/Kg
Barium	SW6010B	1	1	5.0	88	mg/Kg
Cadmium	SW6010B	1	0.0590	1.0	2.1	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	26	mg/Kg
Cobalt	SW6010B	1	0.14	5.0	11	mg/Kg
Copper	SW6010B	1	0.0900	5.0	100	mg/Kg
Lead	SW6010B	1	0.043	1.0	640	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	25	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	25	mg/Kg
Zinc	SW6010B	1	0.59	5.0	260	mg/Kg
Mercury	SW7471A	1	0.01	0.10	0.13	mg/Kg
TPH as Diesel (SG)	SW8015B(M)	1	0.76	2.0	4.4	mg/Kg
TPH as Motor Oil (SG)	SW8015B(M)	1	1.8	4.0	130	mg/Kg
Lead (STLC)	SW6010B	1	0.0500	0.10	18	mg/L

Sample Result Summary

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

NG-2-1.0 D 1108085-005

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Lead (STLC)	SW6010B	1	0.0500	0.10	18	mg/L
Arsenic	SW6010B	1	0.28	1.7	4.9	mg/Kg
Barium	SW6010B	1	1	5.0	95	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	33	mg/Kg
Cobalt	SW6010B	1	0.14	5.0	6.1	mg/Kg
Copper	SW6010B	1	0.0900	5.0	31	mg/Kg
Lead	SW6010B	1	0.043	1.0	340	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	26	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	23	mg/Kg
Zinc	SW6010B	1	0.59	5.0	140	mg/Kg
Mercury	SW7471A	1	0.01	0.10	0.10	mg/Kg
TPH as Motor Oil (SG)	SW8015B(M)	1	1.8	4.0	77	mg/Kg

NG-2-3.0 1108085-006

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TPH as Motor Oil (SG)	SW8015B(M)	1	1.8	4.0	8.1	mg/Kg
Arsenic	SW6010B	1	0.28	1.7	1.7	mg/Kg
Barium	SW6010B	1	1	5.0	46	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	25	mg/Kg
Copper	SW6010B	1	0.0900	5.0	5.6	mg/Kg
Lead	SW6010B	1	0.043	1.0	2.8	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	15	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	20	mg/Kg
Zinc	SW6010B	1	0.59	5.0	12	mg/Kg

NG-2-5.0 1108085-007

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Sample Result Summary

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

NG-3-1.0 1108085-008

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	SW6010B	1	0.20	5.0	6.1	mg/Kg
Arsenic	SW6010B	1	0.28	1.7	7.8	mg/Kg
Barium	SW6010B	1	1	5.0	110	mg/Kg
Cadmium	SW6010B	1	0.0590	1.0	1.9	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	30	mg/Kg
Cobalt	SW6010B	1	0.14	5.0	8.4	mg/Kg
Copper	SW6010B	1	0.0900	5.0	94	mg/Kg
Lead	SW6010B	1	0.043	1.0	350	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	31	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	18	mg/Kg
Zinc	SW6010B	1	0.59	5.0	370	mg/Kg
Mercury	SW7471A	1	0.01	0.10	0.30	mg/Kg
TPH as Motor Oil (SG)	SW8015B(M)	3	5.3	12	190	mg/Kg
Lead (STLC)	SW6010B	1	0.0500	0.10	29	mg/L

NG-3-1.0 D 1108085-009

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TPH as Motor Oil (SG)	SW8015B(M)	20	36	79	990	mg/Kg

NG-3-3.0 1108085-010

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Barium	SW6010B	1	1	5.0	65	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	25	mg/Kg
Copper	SW6010B	1	0.0900	5.0	6.3	mg/Kg
Lead	SW6010B	1	0.043	1.0	6.3	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	16	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	18	mg/Kg
Zinc	SW6010B	1	0.59	5.0	190	mg/Kg

Sample Result Summary

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

NG-3-5.0 1108085-011

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

NG-4-1.0 1108085-012

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Barium	SW6010B	1	1	5.0	31	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	27	mg/Kg
Lead	SW6010B	1	0.043	1.0	2.2	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	18	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	19	mg/Kg
Zinc	SW6010B	1	0.59	5.0	12	mg/Kg

NG-4-3.0 1108085-013

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TPH as Motor Oil (SG)	SW8015B(M)	1	1.8	4.0	4.8	mg/Kg
Barium	SW6010B	1	1	5.0	42	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	23	mg/Kg
Copper	SW6010B	1	0.0900	5.0	5.7	mg/Kg
Lead	SW6010B	1	0.043	1.0	1.4	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	15	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	18	mg/Kg
Zinc	SW6010B	1	0.59	5.0	10	mg/Kg

NG-4-5.0 1108085-014

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Sample Result Summary

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

NG-5-1.0 1108085-015

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.28	1.7	3.5	mg/Kg
Barium	SW6010B	1	1	5.0	100	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	39	mg/Kg
Cobalt	SW6010B	1	0.14	5.0	6.5	mg/Kg
Copper	SW6010B	1	0.0900	5.0	40	mg/Kg
Lead	SW6010B	1	0.043	1.0	520	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	33	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	25	mg/Kg
Zinc	SW6010B	1	0.59	5.0	190	mg/Kg
TPH as Motor Oil (SG)	SW8015B(M)	1	1.8	4.0	28	mg/Kg
Lead (STLC)	SW6010B	1	0.0500	0.10	3.4	mg/L

NG-5-3.0 1108085-016

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TPH as Motor Oil (SG)	SW8015B(M)	1	1.8	4.0	6.9	mg/Kg
Arsenic	SW6010B	1	0.28	1.7	7.4	mg/Kg
Barium	SW6010B	1	1	5.0	64	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	53	mg/Kg
Cobalt	SW6010B	1	0.14	5.0	11	mg/Kg
Copper	SW6010B	1	0.0900	5.0	150	mg/Kg
Lead	SW6010B	1	0.043	1.0	180	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	56	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	26	mg/Kg
Zinc	SW6010B	1	0.59	5.0	93	mg/Kg
Mercury	SW7471A	1	0.01	0.10	0.24	mg/Kg

NG-5-5.0 1108085-017

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Sample Result Summary

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

NG-6-1.0 1108085-018

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.28	1.7	2.8	mg/Kg
Barium	SW6010B	1	1	5.0	96	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	23	mg/Kg
Copper	SW6010B	1	0.0900	5.0	22	mg/Kg
Lead	SW6010B	1	0.043	1.0	180	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	18	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	20	mg/Kg
Zinc	SW6010B	1	0.59	5.0	49	mg/Kg
Fluoranthene	SW8270C	10	20.1	99.0	21	mg/Kg
Pyrene	SW8270C	10	22.3	50.0	25	mg/Kg
Lead (STLC)	SW6010B	1	0.0500	0.10	5.2	mg/L

NG-6-3.0 1108085-019

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Barium	SW6010B	1	1	5.0	49	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	26	mg/Kg
Cobalt	SW6010B	1	0.14	5.0	5.4	mg/Kg
Copper	SW6010B	1	0.0900	5.0	6.4	mg/Kg
Lead	SW6010B	1	0.043	1.0	2.1	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	17	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	20	mg/Kg
Zinc	SW6010B	1	0.59	5.0	12	mg/Kg

NG-6-5.0 1108085-020

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Sample Result Summary

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

NG-7-1.0 1108085-021

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Barium	SW6010B	1	1	5.0	53	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	26	mg/Kg
Copper	SW6010B	1	0.0900	5.0	6.5	mg/Kg
Lead	SW6010B	1	0.043	1.0	5.8	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	19	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	19	mg/Kg
Zinc	SW6010B	1	0.59	5.0	16	mg/Kg

NG-7-1.0 D 1108085-022

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

NG-7-3.0 1108085-023

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Barium	SW6010B	1	1	5.0	40	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	29	mg/Kg
Copper	SW6010B	1	0.0900	5.0	5.6	mg/Kg
Lead	SW6010B	1	0.043	1.0	1.3	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	15	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	18	mg/Kg
Zinc	SW6010B	1	0.59	5.0	10	mg/Kg

NG-7-5.0 1108085-024

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Sample Result Summary

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

NG-8-1.0 1108085-025

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Barium	SW6010B	1	1	5.0	58	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	26	mg/Kg
Copper	SW6010B	1	0.0900	5.0	6.5	mg/Kg
Lead	SW6010B	1	0.043	1.0	10	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	16	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	19	mg/Kg
Zinc	SW6010B	1	0.59	5.0	19	mg/Kg

NG-8-3.0 1108085-026

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Barium	SW6010B	1	1	5.0	38	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	24	mg/Kg
Copper	SW6010B	1	0.0900	5.0	5.2	mg/Kg
Lead	SW6010B	1	0.043	1.0	1.3	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	15	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	19	mg/Kg
Zinc	SW6010B	1	0.59	5.0	9.7	mg/Kg

NG-8-5.0 1108085-027

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Sample Result Summary

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

NG-9-1.0 1108085-028

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.28	1.7	3.0	mg/Kg
Barium	SW6010B	1	1	5.0	62	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	39	mg/Kg
Cobalt	SW6010B	1	0.14	5.0	6.5	mg/Kg
Copper	SW6010B	1	0.0900	5.0	11	mg/Kg
Lead	SW6010B	1	0.043	1.0	21	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	33	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	26	mg/Kg
Zinc	SW6010B	1	0.59	5.0	34	mg/Kg

NG-9-3.0 1108085-029

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Barium	SW6010B	1	1	5.0	47	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	27	mg/Kg
Copper	SW6010B	1	0.0900	5.0	5.4	mg/Kg
Lead	SW6010B	1	0.043	1.0	1.8	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	15	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	19	mg/Kg
Zinc	SW6010B	1	0.59	5.0	11	mg/Kg

NG-9-5.0 1108085-030

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Sample Result Summary

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

NG-10-1.0 1108085-031

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.28	1.7	3.6	mg/Kg
Barium	SW6010B	1	1	5.0	200	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	26	mg/Kg
Copper	SW6010B	1	0.0900	5.0	34	mg/Kg
Lead	SW6010B	1	0.043	1.0	460	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	18	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	20	mg/Kg
Zinc	SW6010B	1	0.59	5.0	240	mg/Kg
Mercury	SW7471A	1	0.01	0.10	0.54	mg/Kg
Lead (STLC)	SW6010B	1	0.0500	0.10	58	mg/L

NG-10-1.0 D 1108085-032

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

NG-10-3.0 1108085-033

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Barium	SW6010B	1	1	5.0	32	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	25	mg/Kg
Copper	SW6010B	1	0.0900	5.0	5.1	mg/Kg
Lead	SW6010B	1	0.043	1.0	1.6	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	16	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	18	mg/Kg
Zinc	SW6010B	1	0.59	5.0	9.2	mg/Kg

NG-10-5.0 1108085-034

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Sample Result Summary

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

NG-11-1.0 1108085-035

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.28	1.7	2.6	mg/Kg
Barium	SW6010B	1	1	5.0	180	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	21	mg/Kg
Copper	SW6010B	1	0.0900	5.0	45	mg/Kg
Lead	SW6010B	1	0.043	1.0	200	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	16	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	16	mg/Kg
Zinc	SW6010B	1	0.59	5.0	470	mg/Kg
Mercury	SW7471A	1	0.01	0.10	0.29	mg/Kg
Lead (STLC)	SW6010B	1	0.0500	0.10	3.9	mg/L

NG-11-3.0 1108085-036

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.28	1.7	1.7	mg/Kg
Barium	SW6010B	1	1	5.0	49	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	27	mg/Kg
Copper	SW6010B	1	0.0900	5.0	7.3	mg/Kg
Lead	SW6010B	1	0.043	1.0	4.9	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	15	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	21	mg/Kg
Zinc	SW6010B	1	0.59	5.0	130	mg/Kg

NG-11-5.0 1108085-037

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Sample Result Summary

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

NG-12-1.0 1108085-038

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.28	1.7	1.8	mg/Kg
Barium	SW6010B	1	1	5.0	49	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	25	mg/Kg
Copper	SW6010B	1	0.0900	5.0	6.8	mg/Kg
Lead	SW6010B	1	0.043	1.0	25	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	16	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	20	mg/Kg
Zinc	SW6010B	1	0.59	5.0	27	mg/Kg

NG-12-3.0 1108085-039

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Barium	SW6010B	1	1	5.0	44	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	26	mg/Kg
Copper	SW6010B	1	0.0900	5.0	9.3	mg/Kg
Lead	SW6010B	1	0.043	1.0	1.9	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	15	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	20	mg/Kg
Zinc	SW6010B	1	0.59	5.0	11	mg/Kg

NG-12-5.0 1108085-040

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Sample Result Summary

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

NG-13-1.0 1108085-041

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	SW6010B	1	0.20	5.0	15	mg/Kg
Arsenic	SW6010B	1	0.28	1.7	9.2	mg/Kg
Barium	SW6010B	1	1	5.0	1100	mg/Kg
Cadmium	SW6010B	1	0.0590	1.0	4.9	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	54	mg/Kg
Copper	SW6010B	1	0.0900	5.0	150	mg/Kg
Lead	SW6010B	1	0.043	1.0	2900	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	30	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	21	mg/Kg
Zinc	SW6010B	1	0.59	5.0	2000	mg/Kg
Mercury	SW7471A	1	0.01	0.10	0.27	mg/Kg

NG-13-1.0 D 1108085-042

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.28	1.7	3.5	mg/Kg
Barium	SW6010B	1	1	5.0	82	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	29	mg/Kg
Cobalt	SW6010B	1	0.14	5.0	8.4	mg/Kg
Copper	SW6010B	1	0.0900	5.0	26	mg/Kg
Lead	SW6010B	1	0.043	1.0	200	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	19	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	22	mg/Kg
Zinc	SW6010B	1	0.59	5.0	100	mg/Kg
Mercury	SW7471A	1	0.01	0.10	0.22	mg/Kg
Lead (STLC)	SW6010B	1	0.0500	0.10	520	mg/L

Sample Result Summary

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

NG-13-3.0 1108085-043

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Barium	SW6010B	1	1	5.0	43	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	23	mg/Kg
Lead	SW6010B	1	0.043	1.0	6.1	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	15	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	17	mg/Kg
Zinc	SW6010B	1	0.59	5.0	610	mg/Kg

NG-13-5.0 1108085-044

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-1-1.0	**Lab Sample ID:**	1108085-001A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 8:50		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead (STLC)	SW6010B	8/24/11	08/25/11	1	0.0500	0.10	6.1		mg/L	406420	3488

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406288	3405
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	9.3		mg/Kg	406288	3405
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	64		mg/Kg	406288	3405
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406288	3405
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	ND		mg/Kg	406288	3405
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	21		mg/Kg	406288	3405
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	6.3		mg/Kg	406288	3405
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	71		mg/Kg	406288	3405
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	99		mg/Kg	406288	3405
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406288	3405
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	21		mg/Kg	406288	3405
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406288	3405
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406288	3405
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406288	3405
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	36		mg/Kg	406288	3405
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	160		mg/Kg	406288	3405

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/15/11	08/16/11	1	0.01	0.10	ND		mg/Kg	406270	3393

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/16/11	08/19/11	50	38	99	630		mg/Kg	406345	3403
TPH as Motor Oil (SG)	SW8015B(M)	8/16/11	08/19/11	50	89	200	2700		mg/Kg	406345	3403
Pentacosane (S)	SW8015B(M)	8/16/11	08/19/11	50	61.5	133	0.000	S,D	%	406345	3403

NOTE: D - Surrogates not recoverable due to dilution of the sample.

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-1-3.0	**Lab Sample ID:**	1108085-002A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 8:55		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	5.1		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	65		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	170		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	1.7		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	21		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	ND		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	23		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	22		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	15		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	1.2		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	27		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	17		mg/Kg	406377	3460

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	ND		mg/Kg	406366	3453

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/16/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406345	3403
TPH as Motor Oil (SG)	SW8015B(M)	8/16/11	08/19/11	1	1.8	4.0	14		mg/Kg	406345	3403
Pentacosane (S)	SW8015B(M)	8/16/11	08/19/11	1	61.5	133	92.1		%	406345	3403

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-1-5.0	**Lab Sample ID:**	1108085-003A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 9:00		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/16/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406345	3403
TPH as Motor Oil (SG)	SW8015B(M)	8/16/11	08/19/11	1	1.8	4.0	13	x	mg/Kg	406345	3403
Pentacosane (S)	SW8015B(M)	8/16/11	08/19/11	1	61.5	133	83.0		%	406345	3403

NOTE: x-Not typical of Motor oil standard pattern (discrete hydrocarbon peaks present).

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-2-1.0	**Lab Sample ID:**	1108085-004A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 9:25		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead (STLC)	SW6010B	8/24/11	08/25/11	1	0.0500	0.10	18		mg/L	406420	3488

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406288	3405
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	17		mg/Kg	406288	3405
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	88		mg/Kg	406288	3405
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406288	3405
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	2.1		mg/Kg	406288	3405
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	26		mg/Kg	406288	3405
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	11		mg/Kg	406288	3405
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	100		mg/Kg	406288	3405
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	640		mg/Kg	406288	3405
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406288	3405
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	25		mg/Kg	406288	3405
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406288	3405
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406288	3405
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406288	3405
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	25		mg/Kg	406288	3405
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	260		mg/Kg	406288	3405

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/15/11	08/16/11	1	0.01	0.10	0.13		mg/Kg	406270	3393

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/16/11	08/19/11	1	0.76	2.0	4.4	x	mg/Kg	406345	3403
TPH as Motor Oil (SG)	SW8015B(M)	8/16/11	08/19/11	1	1.8	4.0	130		mg/Kg	406345	3403
Pentacosane (S)	SW8015B(M)	8/16/11	08/19/11	1	61.5	133	92.5		%	406345	3403

NOTE: x-Not typical of Diesel standard pattern. Diesel result is carry over from TPH as motor oil quantitation range.

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-2-1.0 D	**Lab Sample ID:**	1108085-005A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 9:25		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead (STLC)	SW6010B	8/24/11	08/25/11	1	0.0500	0.10	18		mg/L	406420	3488

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406288	3405
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	4.9		mg/Kg	406288	3405
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	95		mg/Kg	406288	3405
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406288	3405
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	ND		mg/Kg	406288	3405
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	33		mg/Kg	406288	3405
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	6.1		mg/Kg	406288	3405
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	31		mg/Kg	406288	3405
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	340		mg/Kg	406288	3405
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406288	3405
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	26		mg/Kg	406288	3405
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406288	3405
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406288	3405
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406288	3405
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	23		mg/Kg	406288	3405
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	140		mg/Kg	406288	3405

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/15/11	08/16/11	1	0.01	0.10	0.10		mg/Kg	406270	3393

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/16/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406345	3403
TPH as Motor Oil (SG)	SW8015B(M)	8/16/11	08/19/11	1	1.8	4.0	77		mg/Kg	406345	3403
Pentacosane (S)	SW8015B(M)	8/16/11	08/19/11	1	61.5	133	91.9		%	406345	3403

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-2-3.0	**Lab Sample ID:**	1108085-006A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 9:30		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	ND		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	1.7		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	46		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	ND		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	25		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	ND		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	5.6		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	2.8		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	15		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	ND		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	20		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	12		mg/Kg	406377	3460

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	ND		mg/Kg	406366	3453

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/16/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406345	3403
TPH as Motor Oil (SG)	SW8015B(M)	8/16/11	08/19/11	1	1.8	4.0	8.1		mg/Kg	406345	3403
Pentacosane (S)	SW8015B(M)	8/16/11	08/19/11	1	61.5	133	103		%	406345	3403

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-2-5.0	**Lab Sample ID:**	1108085-007A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 9:35		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/16/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406345	3403
TPH as Motor Oil (SG)	SW8015B(M)	8/16/11	08/19/11	1	1.8	4.0	ND		mg/Kg	406345	3403
Pentacosane (S)	SW8015B(M)	8/16/11	08/19/11	1	61.5	133	74.4		%	406345	3403

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-3-1.0	**Lab Sample ID:**	1108085-008A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 9:40		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead (STLC)	SW6010B	8/24/11	08/25/11	1	0.0500	0.10	29		mg/L	406420	3488

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	6.1		mg/Kg	406288	3405
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	7.8		mg/Kg	406288	3405
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	110		mg/Kg	406288	3405
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406288	3405
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	1.9		mg/Kg	406288	3405
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	30		mg/Kg	406288	3405
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	8.4		mg/Kg	406288	3405
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	94		mg/Kg	406288	3405
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	350		mg/Kg	406288	3405
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406288	3405
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	31		mg/Kg	406288	3405
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406288	3405
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406288	3405
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406288	3405
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	18		mg/Kg	406288	3405
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	370		mg/Kg	406288	3405

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/16/11	08/17/11	1	0.01	0.10	0.30		mg/Kg	406292	3410

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/16/11	08/19/11	3	2.3	5.9	ND		mg/Kg	406345	3403
TPH as Motor Oil (SG)	SW8015B(M)	8/16/11	08/19/11	3	5.3	12	190		mg/Kg	406345	3403
Pentacosane (S)	SW8015B(M)	8/16/11	08/19/11	3	61.5	133	69.1		%	406345	3403

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-3-1.0 D	**Lab Sample ID:**	1108085-009A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 9:40		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
TPH as Diesel (SG)	SW8015B(M)	8/16/11	08/19/11	20	15	40	ND		mg/Kg	406345	3403
TPH as Motor Oil (SG)	SW8015B(M)	8/16/11	08/19/11	20	36	79	990		mg/Kg	406345	3403
Pentacosane (S)	SW8015B(M)	8/16/11	08/19/11	20	61.5	133	82.9		%	406345	3403

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-3-3.0	**Lab Sample ID:**	1108085-010A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 9:45		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	ND		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	ND		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	65		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	ND		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	25		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	ND		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	6.3		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	6.3		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	16		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	ND		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	18		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	190		mg/Kg	406377	3460

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	ND		mg/Kg	406366	3453

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/16/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406345	3403
TPH as Motor Oil (SG)	SW8015B(M)	8/16/11	08/19/11	1	1.8	4.0	ND		mg/Kg	406345	3403
Pentacosane (S)	SW8015B(M)	8/16/11	08/19/11	1	61.5	133	88.7		%	406345	3403

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-3-5.0	**Lab Sample ID:**	1108085-011A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 9:50		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
TPH as Diesel (SG)	SW8015B(M)	8/16/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406345	3403
TPH as Motor Oil (SG)	SW8015B(M)	8/16/11	08/19/11	1	1.8	4.0	ND		mg/Kg	406345	3403
Pentacosane (S)	SW8015B(M)	8/16/11	08/19/11	1	61.5	133	78.0		%	406345	3403

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-4-1.0	**Lab Sample ID:**	1108085-012A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 9:55		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406288	3405
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	ND		mg/Kg	406288	3405
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	31		mg/Kg	406288	3405
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406288	3405
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	ND		mg/Kg	406288	3405
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	27		mg/Kg	406288	3405
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	ND		mg/Kg	406288	3405
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	ND		mg/Kg	406288	3405
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	2.2		mg/Kg	406288	3405
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406288	3405
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	18		mg/Kg	406288	3405
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406288	3405
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406288	3405
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406288	3405
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	19		mg/Kg	406288	3405
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	12		mg/Kg	406288	3405

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/16/11	08/17/11	1	0.01	0.10	ND		mg/Kg	406292	3410

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/16/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406345	3403
TPH as Motor Oil (SG)	SW8015B(M)	8/16/11	08/19/11	1	1.8	4.0	ND		mg/Kg	406345	3403
Pentacosane (S)	SW8015B(M)	8/16/11	08/19/11	1	61.5	133	95.6		%	406345	3403

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-4-3.0	**Lab Sample ID:**	1108085-013A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:00		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	ND		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	ND		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	42		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	ND		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	23		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	ND		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	5.7		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	1.4		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	15		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	ND		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	18		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	10		mg/Kg	406377	3460

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	ND		mg/Kg	406366	3453

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/18/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406342	3429
TPH as Motor Oil (SG)	SW8015B(M)	8/18/11	08/19/11	1	1.8	4.0	4.8		mg/Kg	406342	3429
Pentacosane (S)	SW8015B(M)	8/18/11	08/19/11	1	61.5	133	127		%	406342	3429

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-4-5.0	**Lab Sample ID:**	1108085-014A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:05		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
TPH as Diesel (SG)	SW8015B(M)	8/18/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406342	3429
TPH as Motor Oil (SG)	SW8015B(M)	8/18/11	08/19/11	1	1.8	4.0	ND		mg/Kg	406342	3429
Pentacosane (S)	SW8015B(M)	8/18/11	08/19/11	1	61.5	133	68.4		%	406342	3429

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-5-1.0	**Lab Sample ID:**	1108085-015A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:10		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead (STLC)	SW6010B	8/24/11	08/25/11	1	0.0500	0.10	3.4		mg/L	406420	3488

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406312	3407
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	3.5		mg/Kg	406312	3407
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	100		mg/Kg	406312	3407
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406312	3407
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	ND		mg/Kg	406312	3407
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	39		mg/Kg	406312	3407
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	6.5		mg/Kg	406312	3407
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	40		mg/Kg	406312	3407
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	520		mg/Kg	406312	3407
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406312	3407
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	33		mg/Kg	406312	3407
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406312	3407
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406312	3407
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406312	3407
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	25		mg/Kg	406312	3407
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	190		mg/Kg	406312	3407

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/16/11	08/17/11	1	0.01	0.10	ND		mg/Kg	406292	3410

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/18/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406342	3429
TPH as Motor Oil (SG)	SW8015B(M)	8/18/11	08/19/11	1	1.8	4.0	28		mg/Kg	406342	3429
Pentacosane (S)	SW8015B(M)	8/18/11	08/19/11	1	61.5	133	100		%	406342	3429

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-5-3.0	**Lab Sample ID:**	1108085-016A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:15		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	ND		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	7.4		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	64		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	ND		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	53		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	11		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	150		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	180		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	56		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	ND		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	26		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	93		mg/Kg	406377	3460

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	0.24		mg/Kg	406366	3453

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/18/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406342	3429
TPH as Motor Oil (SG)	SW8015B(M)	8/18/11	08/19/11	1	1.8	4.0	6.9		mg/Kg	406342	3429
Pentacosane (S)	SW8015B(M)	8/18/11	08/19/11	1	61.5	133	107		%	406342	3429

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-5-5.0	**Lab Sample ID:**	1108085-017A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:20		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
TPH as Diesel (SG)	SW8015B(M)	8/18/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406342	3429
TPH as Motor Oil (SG)	SW8015B(M)	8/18/11	08/19/11	1	1.8	4.0	ND		mg/Kg	406342	3429
Pentacosane (S)	SW8015B(M)	8/18/11	08/19/11	1	61.5	133	73.9		%	406342	3429

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-6-1.0	**Lab Sample ID:**	1108085-018A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:25		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead (STLC)	SW6010B	8/24/11	08/25/11	1	0.0500	0.10	5.2		mg/L	406420	3488

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406312	3407
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	2.8		mg/Kg	406312	3407
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	96		mg/Kg	406312	3407
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406312	3407
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	ND		mg/Kg	406312	3407
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	23		mg/Kg	406312	3407
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	ND		mg/Kg	406312	3407
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	22		mg/Kg	406312	3407
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	180		mg/Kg	406312	3407
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406312	3407
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	18		mg/Kg	406312	3407
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406312	3407
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406312	3407
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406312	3407
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	20		mg/Kg	406312	3407
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	49		mg/Kg	406312	3407

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/16/11	08/17/11	1	0.01	0.10	ND		mg/Kg	406292	3410

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-6-1.0	**Lab Sample ID:**	1108085-018A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:25		
Tag Number:	800 Cedar St		

The results shown below are reported using their MDL.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/15/11	08/16/11	10	100	99.0	ND		mg/Kg	406316	3385
N-Nitrosdimethylamine	SW8270C	8/15/11	08/16/11	10	16.7	50.0	ND		mg/Kg	406316	3385
Aniline	SW8270C	8/15/11	08/16/11	10	18.6	50.0	ND		mg/Kg	406316	3385
Phenol	SW8270C	8/15/11	08/16/11	10	19.5	50.0	ND		mg/Kg	406316	3385
Bis(2-chloroethyl) ether	SW8270C	8/15/11	08/16/11	10	10.4	50.0	ND		mg/Kg	406316	3385
2-Chlorophenol	SW8270C	8/15/11	08/16/11	10	19.5	50.0	ND		mg/Kg	406316	3385
1,3-Dichlorobenzene	SW8270C	8/15/11	08/16/11	10	11.1	50.0	ND		mg/Kg	406316	3385
1,4-Dichlorobenzene	SW8270C	8/15/11	08/16/11	10	10.1	999	ND		mg/Kg	406316	3385
Benzyl Alcohol	SW8270C	8/15/11	08/16/11	10	15.8	50.0	ND		mg/Kg	406316	3385
1,2-Dichlorobenzene	SW8270C	8/15/11	08/16/11	10	10.8	50.0	ND		mg/Kg	406316	3385
2-Methylphenol (o-Cresol)	SW8270C	8/15/11	08/16/11	10	17.6	50.0	ND		mg/Kg	406316	3385
Bis(2-chloroisopropyl)ether	SW8270C	8/15/11	08/16/11	10	10.4	50.0	ND		mg/Kg	406316	3385
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/15/11	08/16/11	10	21.0	50.0	ND		mg/Kg	406316	3385
N-nitroso-di-n-propylamine	SW8270C	8/15/11	08/16/11	10	14.1	50.0	ND		mg/Kg	406316	3385
Hexachloroethane	SW8270C	8/15/11	08/16/11	10	7.05	50.0	ND		mg/Kg	406316	3385
Nitrobenzene	SW8270C	8/15/11	08/16/11	10	8.00	50.0	ND		mg/Kg	406316	3385
Isophorone	SW8270C	8/15/11	08/16/11	10	8.70	99.0	ND		mg/Kg	406316	3385
2-Nitrophenol	SW8270C	8/15/11	08/16/11	10	7.95	99.0	ND		mg/Kg	406316	3385
2,4-Dimethylphenol	SW8270C	8/15/11	08/16/11	10	20.1	999	ND		mg/Kg	406316	3385
Benzoic Acid	SW8270C	8/15/11	08/16/11	10	848	50.0	ND		mg/Kg	406316	3385
Bis(2-Chloroethoxy)methane	SW8270C	8/15/11	08/16/11	10	8.85	50.0	ND		mg/Kg	406316	3385
2,4-Dichlorophenol	SW8270C	8/15/11	08/16/11	10	15.8	50.0	ND		mg/Kg	406316	3385
1,2,4-Trichlorobenzene	SW8270C	8/15/11	08/16/11	10	11.1	50.0	ND		mg/Kg	406316	3385
2,6-Dichlorophenol	SW8270C	8/15/11	08/16/11	10	15.8	50.0	ND		mg/Kg	406316	3385
Naphthalene	SW8270C	8/15/11	08/16/11	10	13.7	50.0	ND		mg/Kg	406316	3385
4-Chloroaniline	SW8270C	8/15/11	08/16/11	10	15.0	50.0	ND		mg/Kg	406316	3385
Hexachloro-1,3-butadiene	SW8270C	8/15/11	08/16/11	10	9.90	50.0	ND		mg/Kg	406316	3385
4-Chloro-3-methylphenol	SW8270C	8/15/11	08/16/11	10	15.5	50.0	ND		mg/Kg	406316	3385
2-Methylnaphthalene	SW8270C	8/15/11	08/16/11	10	12.0	50.0	ND		mg/Kg	406316	3385
1-Methylnaphthalene	SW8270C	8/15/11	08/16/11	10	12.0	50.0	ND		mg/Kg	406316	3385
Hexachlorocyclopentadiene	SW8270C	8/15/11	08/16/11	10	4.20	50.0	ND		mg/Kg	406316	3385
2,4,6-Trichlorophenol	SW8270C	8/15/11	08/16/11	10	14.4	50.0	ND		mg/Kg	406316	3385
2,4,5-Trichlorophenol	SW8270C	8/15/11	08/16/11	10	18.3	50.0	ND		mg/Kg	406316	3385
2-Chloronaphthalene	SW8270C	8/15/11	08/16/11	10	9.00	495	ND		mg/Kg	406316	3385
2-Nitroaniline	SW8270C	8/15/11	08/16/11	10	10.5	50.0	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-6-1.0	**Lab Sample ID:**	1108085-018A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:25		
Tag Number:	800 Cedar St		

The results shown below are reported using their MDL.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dimethyl phthalate	SW8270C	8/15/11	08/16/11	10	17.9	50.0	ND		mg/Kg	406316	3385
1,3-Dinitrobenzene	SW8270C	8/15/11	08/16/11	10	16.0	50.0	ND		mg/Kg	406316	3385
Acenaphthylene	SW8270C	8/15/11	08/16/11	10	12.9	50.0	ND		mg/Kg	406316	3385
2,6-Dinitrotoluene	SW8270C	8/15/11	08/16/11	10	4.05	50.0	ND		mg/Kg	406316	3385
1,2-Dinitrobenzene	SW8270C	8/15/11	08/16/11	10	13.0	50.0	ND		mg/Kg	406316	3385
3-Nitroaniline	SW8270C	8/15/11	08/16/11	10	10.5	50.0	ND		mg/Kg	406316	3385
Acenaphthene	SW8270C	8/15/11	08/16/11	10	14.6	50.0	ND		mg/Kg	406316	3385
2,4-Dinitrophenol	SW8270C	8/15/11	08/16/11	10	4.50	495	ND		mg/Kg	406316	3385
4-Nitrophenol	SW8270C	8/15/11	08/16/11	10	10.1	50.0	ND		mg/Kg	406316	3385
Dibenzofuran	SW8270C	8/15/11	08/16/11	10	11.9	50.0	ND		mg/Kg	406316	3385
2,4-Dinitrotoluene	SW8270C	8/15/11	08/16/11	10	4.05	50.0	ND		mg/Kg	406316	3385
2,3,5,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	10	18.0	50.0	ND		mg/Kg	406316	3385
2,3,4,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	10	18.0	50.0	ND		mg/Kg	406316	3385
Diethylphthalate	SW8270C	8/15/11	08/16/11	10	17.7	50.0	ND		mg/Kg	406316	3385
Fluorene	SW8270C	8/15/11	08/16/11	10	15.0	50.0	ND		mg/Kg	406316	3385
4-Chlorophenyl phenyl ether	SW8270C	8/15/11	08/16/11	10	12.2	50.0	ND		mg/Kg	406316	3385
4-Nitroaniline	SW8270C	8/15/11	08/16/11	10	12.2	50.0	ND		mg/Kg	406316	3385
4,6-Dinitro-2-methylphenol	SW8270C	8/15/11	08/16/11	10	10.1	50.0	ND		mg/Kg	406316	3385
Diphenylamine	SW8270C	8/15/11	08/16/11	10	10.1	50.0	ND		mg/Kg	406316	3385
Azobenzene	SW8270C	8/15/11	08/16/11	10	16.5	50.0	ND		mg/Kg	406316	3385
4-Bromophenyl phenyl ether	SW8270C	8/15/11	08/16/11	10	12.3	495	ND		mg/Kg	406316	3385
Hexachlorobenzene	SW8270C	8/15/11	08/16/11	10	15.3	50.0	ND		mg/Kg	406316	3385
Pentachlorophenol	SW8270C	8/15/11	08/16/11	10	15.5	495	ND		mg/Kg	406316	3385
Phenanthrene	SW8270C	8/15/11	08/16/11	10	21.5	50.0	ND		mg/Kg	406316	3385
Anthracene	SW8270C	8/15/11	08/16/11	10	20.1	50.0	ND	J	mg/Kg	406316	3385
Carbazole	SW8270C	8/15/11	08/16/11	10	20.1	50.0	ND		mg/Kg	406316	3385
Di-n-butylphthalate	SW8270C	8/15/11	08/16/11	10	16.4	255	ND		mg/Kg	406316	3385
Fluoranthene	SW8270C	8/15/11	08/16/11	10	20.1	99.0	21	J	mg/Kg	406316	3385
Benzidine	SW8270C	8/15/11	08/16/11	10	56.7	495	ND		mg/Kg	406316	3385
Pyrene	SW8270C	8/15/11	08/16/11	10	22.3	50.0	25	J	mg/Kg	406316	3385
Benzyl butyl phthalate	SW8270C	8/15/11	08/16/11	10	13.5	50.0	ND		mg/Kg	406316	3385
Benz[a]anthracene	SW8270C	8/15/11	08/16/11	10	22.7	50.0	ND		mg/Kg	406316	3385
3,3'-Dichlorobenzidine	SW8270C	8/15/11	08/16/11	10	23.1	50.0	ND		mg/Kg	406316	3385
Chrysene	SW8270C	8/15/11	08/16/11	10	26.7	50.0	ND		mg/Kg	406316	3385
Bis(2-Ethylhexyl)phthalate	SW8270C	8/15/11	08/16/11	10	12.6	50.0	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-6-1.0	**Lab Sample ID:**	1108085-018A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:25		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
The results shown below are reported using their MDL.											
Di-n-octyl phthalate	SW8270C	8/15/11	08/16/11	10	20.9	50.0	ND		mg/Kg	406316	3385
Benzo[b]fluoranthene	SW8270C	8/15/11	08/16/11	10	20.1	50.0	ND		mg/Kg	406316	3385
Benzo[k]fluoranthene	SW8270C	8/15/11	08/16/11	10	25.7	50.0	ND		mg/Kg	406316	3385
Benzo[a]pyrene	SW8270C	8/15/11	08/16/11	10	20.4	50.0	ND		mg/Kg	406316	3385
Indeno[1,2,3-cd]pyrene	SW8270C	8/15/11	08/16/11	10	19.8	50.0	ND		mg/Kg	406316	3385
Dibenz[a,h]anthracene	SW8270C	8/15/11	08/16/11	10	23.0	50.0	ND		mg/Kg	406316	3385
Benzo[g,h,i]perylene	SW8270C	8/15/11	08/16/11	10	22.8	50.0	ND		mg/Kg	406316	3385
1,4-Dinitrobenzene	SW8270C	8/15/11	08/16/11	10	22.8	50.0	ND		mg/Kg	406316	3385
2,4,6-Tribromophenol (S)	SW8270C	8/15/11	08/16/11	10	19	122	0.000	S,D	%	406316	3385
2-Fluorobiphenyl (S)	SW8270C	8/15/11	08/16/11	10	30	115	0.000	S,D	%	406316	3385
2-Fluorophenol (S)	SW8270C	8/15/11	08/16/11	10	25	121	0.000	S,D	%	406316	3385
Nitrobenzene-d5 (S)	SW8270C	8/15/11	08/16/11	10	23	120	0.000	S,D	%	406316	3385
Phenol-d6 (S)	SW8270C	8/15/11	08/16/11	10	24	113	0.000	S,D	%	406316	3385
p-Terphenyl-d14 (S)	SW8270C	8/15/11	08/16/11	10	18	137	0.000	S,D	%	406316	3385

NOTE: D - Surrogates not recoverable due to dilution of the sample. Reporting limits increased due to the nature of the sample matrix (viscous and dark color extract).

Torrent
LABORATORY, INC.

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-6-3.0	**Lab Sample ID:**	1108085-019A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:30		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	ND		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	ND		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	49		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	ND		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	26		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	5.4		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	6.4		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	2.1		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	17		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	ND		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	20		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	12		mg/Kg	406377	3460

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	ND		mg/Kg	406366	3453

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-6-3.0	**Lab Sample ID:**	1108085-019A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:30		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/15/11	08/16/11	1	0.660	0.653	ND		mg/Kg	406316	3385
N-Nitrosdimethylamine	SW8270C	8/15/11	08/16/11	1	0.110	0.330	ND		mg/Kg	406316	3385
Aniline	SW8270C	8/15/11	08/16/11	1	0.123	0.330	ND		mg/Kg	406316	3385
Phenol	SW8270C	8/15/11	08/16/11	1	0.129	0.330	ND		mg/Kg	406316	3385
Bis(2-chloroethyl) ether	SW8270C	8/15/11	08/16/11	1	0.0683	0.330	ND		mg/Kg	406316	3385
2-Chlorophenol	SW8270C	8/15/11	08/16/11	1	0.129	0.330	ND		mg/Kg	406316	3385
1,3-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0733	0.330	ND		mg/Kg	406316	3385
1,4-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0663	6.59	ND		mg/Kg	406316	3385
Benzyl Alcohol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
1,2-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0713	0.330	ND		mg/Kg	406316	3385
2-Methylphenol (o-Cresol)	SW8270C	8/15/11	08/16/11	1	0.116	0.330	ND		mg/Kg	406316	3385
Bis(2-chloroisopropyl)ether	SW8270C	8/15/11	08/16/11	1	0.0683	0.330	ND		mg/Kg	406316	3385
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/15/11	08/16/11	1	0.139	0.330	ND		mg/Kg	406316	3385
N-nitroso-di-n-propylamine	SW8270C	8/15/11	08/16/11	1	0.0931	0.330	ND		mg/Kg	406316	3385
Hexachloroethane	SW8270C	8/15/11	08/16/11	1	0.0465	0.330	ND		mg/Kg	406316	3385
Nitrobenzene	SW8270C	8/15/11	08/16/11	1	0.0528	0.330	ND		mg/Kg	406316	3385
Isophorone	SW8270C	8/15/11	08/16/11	1	0.0574	0.653	ND		mg/Kg	406316	3385
2-Nitrophenol	SW8270C	8/15/11	08/16/11	1	0.0525	0.653	ND		mg/Kg	406316	3385
2,4-Dimethylphenol	SW8270C	8/15/11	08/16/11	1	0.133	6.59	ND		mg/Kg	406316	3385
Benzoic Acid	SW8270C	8/15/11	08/16/11	1	5.59	0.330	ND		mg/Kg	406316	3385
Bis(2-Chloroethoxy)methane	SW8270C	8/15/11	08/16/11	1	0.0584	0.330	ND		mg/Kg	406316	3385
2,4-Dichlorophenol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
1,2,4-Trichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0733	0.330	ND		mg/Kg	406316	3385
2,6-Dichlorophenol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
Naphthalene	SW8270C	8/15/11	08/16/11	1	0.0901	0.330	ND		mg/Kg	406316	3385
4-Chloroaniline	SW8270C	8/15/11	08/16/11	1	0.0990	0.330	ND		mg/Kg	406316	3385
Hexachloro-1,3-butadiene	SW8270C	8/15/11	08/16/11	1	0.0653	0.330	ND		mg/Kg	406316	3385
4-Chloro-3-methylphenol	SW8270C	8/15/11	08/16/11	1	0.102	0.330	ND		mg/Kg	406316	3385
2-Methylnaphthalene	SW8270C	8/15/11	08/16/11	1	0.0792	0.330	ND		mg/Kg	406316	3385
1-Methylnaphthalene	SW8270C	8/15/11	08/16/11	1	0.0792	0.330	ND		mg/Kg	406316	3385
Hexachlorocyclopentadiene	SW8270C	8/15/11	08/16/11	1	0.0277	0.330	ND		mg/Kg	406316	3385
2,4,6-Trichlorophenol	SW8270C	8/15/11	08/16/11	1	0.0950	0.330	ND		mg/Kg	406316	3385
2,4,5-Trichlorophenol	SW8270C	8/15/11	08/16/11	1	0.121	0.330	ND		mg/Kg	406316	3385
2-Chloronaphthalene	SW8270C	8/15/11	08/16/11	1	0.0594	3.27	ND		mg/Kg	406316	3385
2-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0693	0.330	ND		mg/Kg	406316	3385
Dimethyl phthalate	SW8270C	8/15/11	08/16/11	1	0.118	0.330	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-6-3.0	**Lab Sample ID:**	1108085-019A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:30		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.106	0.330	ND		mg/Kg	406316	3385
Acenaphthylene	SW8270C	8/15/11	08/16/11	1	0.0851	0.330	ND		mg/Kg	406316	3385
2,6-Dinitrotoluene	SW8270C	8/15/11	08/16/11	1	0.0267	0.330	ND		mg/Kg	406316	3385
1,2-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.0858	0.330	ND		mg/Kg	406316	3385
3-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0693	0.330	ND		mg/Kg	406316	3385
Acenaphthene	SW8270C	8/15/11	08/16/11	1	0.0960	0.330	ND		mg/Kg	406316	3385
2,4-Dinitrophenol	SW8270C	8/15/11	08/16/11	1	0.0297	3.27	ND		mg/Kg	406316	3385
4-Nitrophenol	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Dibenzofuran	SW8270C	8/15/11	08/16/11	1	0.0782	0.330	ND		mg/Kg	406316	3385
2,4-Dinitrotoluene	SW8270C	8/15/11	08/16/11	1	0.0267	0.330	ND		mg/Kg	406316	3385
2,3,5,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	1	0.119	0.330	ND		mg/Kg	406316	3385
2,3,4,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	1	0.119	0.330	ND		mg/Kg	406316	3385
Diethylphthalate	SW8270C	8/15/11	08/16/11	1	0.117	0.330	ND		mg/Kg	406316	3385
Fluorene	SW8270C	8/15/11	08/16/11	1	0.0990	0.330	ND		mg/Kg	406316	3385
4-Chlorophenyl phenyl ether	SW8270C	8/15/11	08/16/11	1	0.0802	0.330	ND		mg/Kg	406316	3385
4-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0802	0.330	ND		mg/Kg	406316	3385
4,6-Dinitro-2-methylphenol	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Diphenylamine	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Azobenzene	SW8270C	8/15/11	08/16/11	1	0.109	0.330	ND		mg/Kg	406316	3385
4-Bromophenyl phenyl ether	SW8270C	8/15/11	08/16/11	1	0.0812	3.27	ND		mg/Kg	406316	3385
Hexachlorobenzene	SW8270C	8/15/11	08/16/11	1	0.101	0.330	ND		mg/Kg	406316	3385
Pentachlorophenol	SW8270C	8/15/11	08/16/11	1	0.102	3.27	ND		mg/Kg	406316	3385
Phenanthrene	SW8270C	8/15/11	08/16/11	1	0.142	0.330	ND		mg/Kg	406316	3385
Anthracene	SW8270C	8/15/11	08/16/11	1	0.132	0.330	ND		mg/Kg	406316	3385
Carbazole	SW8270C	8/15/11	08/16/11	1	0.132	0.330	ND		mg/Kg	406316	3385
Di-n-butylphthalate	SW8270C	8/15/11	08/16/11	1	0.108	1.68	ND		mg/Kg	406316	3385
Fluoranthene	SW8270C	8/15/11	08/16/11	1	0.132	0.653	ND		mg/Kg	406316	3385
Benzidine	SW8270C	8/15/11	08/16/11	1	0.374	3.27	ND		mg/Kg	406316	3385
Pyrene	SW8270C	8/15/11	08/16/11	1	0.147	0.330	ND		mg/Kg	406316	3385
Benzyl butyl phthalate	SW8270C	8/15/11	08/16/11	1	0.0891	0.330	ND		mg/Kg	406316	3385
Benz[a]anthracene	SW8270C	8/15/11	08/16/11	1	0.149	0.330	ND		mg/Kg	406316	3385
3,3'-Dichlorobenzidine	SW8270C	8/15/11	08/16/11	1	0.152	0.330	ND		mg/Kg	406316	3385
Chrysene	SW8270C	8/15/11	08/16/11	1	0.176	0.330	ND		mg/Kg	406316	3385
Bis(2-Ethylhexyl)phthalate	SW8270C	8/15/11	08/16/11	1	0.0832	0.330	ND		mg/Kg	406316	3385
Di-n-octyl phthalate	SW8270C	8/15/11	08/16/11	1	0.138	0.330	ND		mg/Kg	406316	3385
Benzo[b]fluoranthene	SW8270C	8/15/11	08/16/11	1	0.133	0.330	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-6-3.0	**Lab Sample ID:**	1108085-019A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:30		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Benzo[k]fluoranthene	SW8270C	8/15/11	08/16/11	1	0.169	0.330	ND		mg/Kg	406316	3385
Benzo[a]pyrene	SW8270C	8/15/11	08/16/11	1	0.135	0.330	ND		mg/Kg	406316	3385
Indeno[1,2,3-cd]pyrene	SW8270C	8/15/11	08/16/11	1	0.131	0.330	ND		mg/Kg	406316	3385
Dibenz[a,h]anthracene	SW8270C	8/15/11	08/16/11	1	0.151	0.330	ND		mg/Kg	406316	3385
Benzo[g,h,i]perylene	SW8270C	8/15/11	08/16/11	1	0.150	0.330	ND		mg/Kg	406316	3385
1,4-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.150	0.330	ND		mg/Kg	406316	3385
2,4,6-Tribromophenol (S)	SW8270C	8/15/11	08/16/11	1	19	122	48.3		%	406316	3385
2-Fluorobiphenyl (S)	SW8270C	8/15/11	08/16/11	1	30	115	67.5		%	406316	3385
2-Fluorophenol (S)	SW8270C	8/15/11	08/16/11	1	25	121	70.6		%	406316	3385
Nitrobenzene-d5 (S)	SW8270C	8/15/11	08/16/11	1	23	120	69.2		%	406316	3385
Phenol-d6 (S)	SW8270C	8/15/11	08/16/11	1	24	113	75.1		%	406316	3385
p-Terphenyl-d14 (S)	SW8270C	8/15/11	08/16/11	1	18	137	102		%	406316	3385

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-6-5.0	**Lab Sample ID:**	1108085-020A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:35		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/15/11	08/16/11	1	0.660	0.653	ND		mg/Kg	406316	3385
N-Nitrosdimethylamine	SW8270C	8/15/11	08/16/11	1	0.110	0.330	ND		mg/Kg	406316	3385
Aniline	SW8270C	8/15/11	08/16/11	1	0.123	0.330	ND		mg/Kg	406316	3385
Phenol	SW8270C	8/15/11	08/16/11	1	0.129	0.330	ND		mg/Kg	406316	3385
Bis(2-chloroethyl) ether	SW8270C	8/15/11	08/16/11	1	0.0683	0.330	ND		mg/Kg	406316	3385
2-Chlorophenol	SW8270C	8/15/11	08/16/11	1	0.129	0.330	ND		mg/Kg	406316	3385
1,3-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0733	0.330	ND		mg/Kg	406316	3385
1,4-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0663	6.59	ND		mg/Kg	406316	3385
Benzyl Alcohol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
1,2-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0713	0.330	ND		mg/Kg	406316	3385
2-Methylphenol (o-Cresol)	SW8270C	8/15/11	08/16/11	1	0.116	0.330	ND		mg/Kg	406316	3385
Bis(2-chloroisopropyl)ether	SW8270C	8/15/11	08/16/11	1	0.0683	0.330	ND		mg/Kg	406316	3385
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/15/11	08/16/11	1	0.139	0.330	ND		mg/Kg	406316	3385
N-nitroso-di-n-propylamine	SW8270C	8/15/11	08/16/11	1	0.0931	0.330	ND		mg/Kg	406316	3385
Hexachloroethane	SW8270C	8/15/11	08/16/11	1	0.0465	0.330	ND		mg/Kg	406316	3385
Nitrobenzene	SW8270C	8/15/11	08/16/11	1	0.0528	0.330	ND		mg/Kg	406316	3385
Isophorone	SW8270C	8/15/11	08/16/11	1	0.0574	0.653	ND		mg/Kg	406316	3385
2-Nitrophenol	SW8270C	8/15/11	08/16/11	1	0.0525	0.653	ND		mg/Kg	406316	3385
2,4-Dimethylphenol	SW8270C	8/15/11	08/16/11	1	0.133	6.59	ND		mg/Kg	406316	3385
Benzoic Acid	SW8270C	8/15/11	08/16/11	1	5.59	0.330	ND		mg/Kg	406316	3385
Bis(2-Chloroethoxy)methane	SW8270C	8/15/11	08/16/11	1	0.0584	0.330	ND		mg/Kg	406316	3385
2,4-Dichlorophenol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
1,2,4-Trichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0733	0.330	ND		mg/Kg	406316	3385
2,6-Dichlorophenol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
Naphthalene	SW8270C	8/15/11	08/16/11	1	0.0901	0.330	ND		mg/Kg	406316	3385
4-Chloroaniline	SW8270C	8/15/11	08/16/11	1	0.0990	0.330	ND		mg/Kg	406316	3385
Hexachloro-1,3-butadiene	SW8270C	8/15/11	08/16/11	1	0.0653	0.330	ND		mg/Kg	406316	3385
4-Chloro-3-methylphenol	SW8270C	8/15/11	08/16/11	1	0.102	0.330	ND		mg/Kg	406316	3385
2-Methylnaphthalene	SW8270C	8/15/11	08/16/11	1	0.0792	0.330	ND		mg/Kg	406316	3385
1-Methylnaphthalene	SW8270C	8/15/11	08/16/11	1	0.0792	0.330	ND		mg/Kg	406316	3385
Hexachlorocyclopentadiene	SW8270C	8/15/11	08/16/11	1	0.0277	0.330	ND		mg/Kg	406316	3385
2,4,6-Trichlorophenol	SW8270C	8/15/11	08/16/11	1	0.0950	0.330	ND		mg/Kg	406316	3385
2,4,5-Trichlorophenol	SW8270C	8/15/11	08/16/11	1	0.121	0.330	ND		mg/Kg	406316	3385
2-Chloronaphthalene	SW8270C	8/15/11	08/16/11	1	0.0594	3.27	ND		mg/Kg	406316	3385
2-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0693	0.330	ND		mg/Kg	406316	3385
Dimethyl phthalate	SW8270C	8/15/11	08/16/11	1	0.118	0.330	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-6-5.0	**Lab Sample ID:**	1108085-020A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:35		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.106	0.330	ND		mg/Kg	406316	3385
Acenaphthylene	SW8270C	8/15/11	08/16/11	1	0.0851	0.330	ND		mg/Kg	406316	3385
2,6-Dinitrotoluene	SW8270C	8/15/11	08/16/11	1	0.0267	0.330	ND		mg/Kg	406316	3385
1,2-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.0858	0.330	ND		mg/Kg	406316	3385
3-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0693	0.330	ND		mg/Kg	406316	3385
Acenaphthene	SW8270C	8/15/11	08/16/11	1	0.0960	0.330	ND		mg/Kg	406316	3385
2,4-Dinitrophenol	SW8270C	8/15/11	08/16/11	1	0.0297	3.27	ND		mg/Kg	406316	3385
4-Nitrophenol	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Dibenzofuran	SW8270C	8/15/11	08/16/11	1	0.0782	0.330	ND		mg/Kg	406316	3385
2,4-Dinitrotoluene	SW8270C	8/15/11	08/16/11	1	0.0267	0.330	ND		mg/Kg	406316	3385
2,3,5,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	1	0.119	0.330	ND		mg/Kg	406316	3385
2,3,4,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	1	0.119	0.330	ND		mg/Kg	406316	3385
Diethylphthalate	SW8270C	8/15/11	08/16/11	1	0.117	0.330	ND		mg/Kg	406316	3385
Fluorene	SW8270C	8/15/11	08/16/11	1	0.0990	0.330	ND		mg/Kg	406316	3385
4-Chlorophenyl phenyl ether	SW8270C	8/15/11	08/16/11	1	0.0802	0.330	ND		mg/Kg	406316	3385
4-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0802	0.330	ND		mg/Kg	406316	3385
4,6-Dinitro-2-methylphenol	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Diphenylamine	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Azobenzene	SW8270C	8/15/11	08/16/11	1	0.109	0.330	ND		mg/Kg	406316	3385
4-Bromophenyl phenyl ether	SW8270C	8/15/11	08/16/11	1	0.0812	3.27	ND		mg/Kg	406316	3385
Hexachlorobenzene	SW8270C	8/15/11	08/16/11	1	0.101	0.330	ND		mg/Kg	406316	3385
Pentachlorophenol	SW8270C	8/15/11	08/16/11	1	0.102	3.27	ND		mg/Kg	406316	3385
Phenanthrene	SW8270C	8/15/11	08/16/11	1	0.142	0.330	ND		mg/Kg	406316	3385
Anthracene	SW8270C	8/15/11	08/16/11	1	0.132	0.330	ND		mg/Kg	406316	3385
Carbazole	SW8270C	8/15/11	08/16/11	1	0.132	0.330	ND		mg/Kg	406316	3385
Di-n-butylphthalate	SW8270C	8/15/11	08/16/11	1	0.108	1.68	ND		mg/Kg	406316	3385
Fluoranthene	SW8270C	8/15/11	08/16/11	1	0.132	0.653	ND		mg/Kg	406316	3385
Benzidine	SW8270C	8/15/11	08/16/11	1	0.374	3.27	ND		mg/Kg	406316	3385
Pyrene	SW8270C	8/15/11	08/16/11	1	0.147	0.330	ND		mg/Kg	406316	3385
Benzyl butyl phthalate	SW8270C	8/15/11	08/16/11	1	0.0891	0.330	ND		mg/Kg	406316	3385
Benz[a]anthracene	SW8270C	8/15/11	08/16/11	1	0.149	0.330	ND		mg/Kg	406316	3385
3,3'-Dichlorobenzidine	SW8270C	8/15/11	08/16/11	1	0.152	0.330	ND		mg/Kg	406316	3385
Chrysene	SW8270C	8/15/11	08/16/11	1	0.176	0.330	ND		mg/Kg	406316	3385
Bis(2-Ethylhexyl)phthalate	SW8270C	8/15/11	08/16/11	1	0.0832	0.330	ND		mg/Kg	406316	3385
Di-n-octyl phthalate	SW8270C	8/15/11	08/16/11	1	0.138	0.330	ND		mg/Kg	406316	3385
Benzo[b]fluoranthene	SW8270C	8/15/11	08/16/11	1	0.133	0.330	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-6-5.0	**Lab Sample ID:**	1108085-020A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:35		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/15/11	08/16/11	1	0.169	0.330	ND		mg/Kg	406316	3385
Benzo[a]pyrene	SW8270C	8/15/11	08/16/11	1	0.135	0.330	ND		mg/Kg	406316	3385
Indeno[1,2,3-cd]pyrene	SW8270C	8/15/11	08/16/11	1	0.131	0.330	ND		mg/Kg	406316	3385
Dibenz[a,h]anthracene	SW8270C	8/15/11	08/16/11	1	0.151	0.330	ND		mg/Kg	406316	3385
Benzo[g,h,i]perylene	SW8270C	8/15/11	08/16/11	1	0.150	0.330	ND		mg/Kg	406316	3385
1,4-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.150	0.330	ND		mg/Kg	406316	3385
2,4,6-Tribromophenol (S)	SW8270C	8/15/11	08/16/11	1	19	122	30.9		%	406316	3385
2-Fluorobiphenyl (S)	SW8270C	8/15/11	08/16/11	1	30	115	58.3		%	406316	3385
2-Fluorophenol (S)	SW8270C	8/15/11	08/16/11	1	25	121	32.8		%	406316	3385
Nitrobenzene-d5 (S)	SW8270C	8/15/11	08/16/11	1	23	120	61.7		%	406316	3385
Phenol-d6 (S)	SW8270C	8/15/11	08/16/11	1	24	113	47.2		%	406316	3385
p-Terphenyl-d14 (S)	SW8270C	8/15/11	08/16/11	1	18	137	91.9		%	406316	3385

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-7-1.0	**Lab Sample ID:**	1108085-021A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:40		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406312	3407
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	ND		mg/Kg	406312	3407
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	53		mg/Kg	406312	3407
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406312	3407
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	ND		mg/Kg	406312	3407
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	26		mg/Kg	406312	3407
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	ND		mg/Kg	406312	3407
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	6.5		mg/Kg	406312	3407
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	5.8		mg/Kg	406312	3407
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406312	3407
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	19		mg/Kg	406312	3407
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406312	3407
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406312	3407
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406312	3407
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	19		mg/Kg	406312	3407
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	16		mg/Kg	406312	3407

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/16/11	08/17/11	1	0.01	0.10	ND		mg/Kg	406292	3410

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-7-1.0	**Lab Sample ID:**	1108085-021A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:40		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/15/11	08/16/11	1	0.660	0.653	ND		mg/Kg	406316	3385
N-Nitrosdimethylamine	SW8270C	8/15/11	08/16/11	1	0.110	0.330	ND		mg/Kg	406316	3385
Aniline	SW8270C	8/15/11	08/16/11	1	0.123	0.330	ND		mg/Kg	406316	3385
Phenol	SW8270C	8/15/11	08/16/11	1	0.129	0.330	ND		mg/Kg	406316	3385
Bis(2-chloroethyl) ether	SW8270C	8/15/11	08/16/11	1	0.0683	0.330	ND		mg/Kg	406316	3385
2-Chlorophenol	SW8270C	8/15/11	08/16/11	1	0.129	0.330	ND		mg/Kg	406316	3385
1,3-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0733	0.330	ND		mg/Kg	406316	3385
1,4-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0663	6.59	ND		mg/Kg	406316	3385
Benzyl Alcohol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
1,2-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0713	0.330	ND		mg/Kg	406316	3385
2-Methylphenol (o-Cresol)	SW8270C	8/15/11	08/16/11	1	0.116	0.330	ND		mg/Kg	406316	3385
Bis(2-chloroisopropyl)ether	SW8270C	8/15/11	08/16/11	1	0.0683	0.330	ND		mg/Kg	406316	3385
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/15/11	08/16/11	1	0.139	0.330	ND		mg/Kg	406316	3385
N-nitroso-di-n-propylamine	SW8270C	8/15/11	08/16/11	1	0.0931	0.330	ND		mg/Kg	406316	3385
Hexachloroethane	SW8270C	8/15/11	08/16/11	1	0.0465	0.330	ND		mg/Kg	406316	3385
Nitrobenzene	SW8270C	8/15/11	08/16/11	1	0.0528	0.330	ND		mg/Kg	406316	3385
Isophorone	SW8270C	8/15/11	08/16/11	1	0.0574	0.653	ND		mg/Kg	406316	3385
2-Nitrophenol	SW8270C	8/15/11	08/16/11	1	0.0525	0.653	ND		mg/Kg	406316	3385
2,4-Dimethylphenol	SW8270C	8/15/11	08/16/11	1	0.133	6.59	ND		mg/Kg	406316	3385
Benzoic Acid	SW8270C	8/15/11	08/16/11	1	5.59	0.330	ND		mg/Kg	406316	3385
Bis(2-Chloroethoxy)methane	SW8270C	8/15/11	08/16/11	1	0.0584	0.330	ND		mg/Kg	406316	3385
2,4-Dichlorophenol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
1,2,4-Trichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0733	0.330	ND		mg/Kg	406316	3385
2,6-Dichlorophenol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
Naphthalene	SW8270C	8/15/11	08/16/11	1	0.0901	0.330	ND		mg/Kg	406316	3385
4-Chloroaniline	SW8270C	8/15/11	08/16/11	1	0.0990	0.330	ND		mg/Kg	406316	3385
Hexachloro-1,3-butadiene	SW8270C	8/15/11	08/16/11	1	0.0653	0.330	ND		mg/Kg	406316	3385
4-Chloro-3-methylphenol	SW8270C	8/15/11	08/16/11	1	0.102	0.330	ND		mg/Kg	406316	3385
2-Methylnaphthalene	SW8270C	8/15/11	08/16/11	1	0.0792	0.330	ND		mg/Kg	406316	3385
1-Methylnaphthalene	SW8270C	8/15/11	08/16/11	1	0.0792	0.330	ND		mg/Kg	406316	3385
Hexachlorocyclopentadiene	SW8270C	8/15/11	08/16/11	1	0.0277	0.330	ND		mg/Kg	406316	3385
2,4,6-Trichlorophenol	SW8270C	8/15/11	08/16/11	1	0.0950	0.330	ND		mg/Kg	406316	3385
2,4,5-Trichlorophenol	SW8270C	8/15/11	08/16/11	1	0.121	0.330	ND		mg/Kg	406316	3385
2-Chloronaphthalene	SW8270C	8/15/11	08/16/11	1	0.0594	3.27	ND		mg/Kg	406316	3385
2-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0693	0.330	ND		mg/Kg	406316	3385
Dimethyl phthalate	SW8270C	8/15/11	08/16/11	1	0.118	0.330	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-7-1.0	**Lab Sample ID:**	1108085-021A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:40		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.106	0.330	ND		mg/Kg	406316	3385
Acenaphthylene	SW8270C	8/15/11	08/16/11	1	0.0851	0.330	ND		mg/Kg	406316	3385
2,6-Dinitrotoluene	SW8270C	8/15/11	08/16/11	1	0.0267	0.330	ND		mg/Kg	406316	3385
1,2-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.0858	0.330	ND		mg/Kg	406316	3385
3-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0693	0.330	ND		mg/Kg	406316	3385
Acenaphthene	SW8270C	8/15/11	08/16/11	1	0.0960	0.330	ND		mg/Kg	406316	3385
2,4-Dinitrophenol	SW8270C	8/15/11	08/16/11	1	0.0297	3.27	ND		mg/Kg	406316	3385
4-Nitrophenol	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Dibenzofuran	SW8270C	8/15/11	08/16/11	1	0.0782	0.330	ND		mg/Kg	406316	3385
2,4-Dinitrotoluene	SW8270C	8/15/11	08/16/11	1	0.0267	0.330	ND		mg/Kg	406316	3385
2,3,5,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	1	0.119	0.330	ND		mg/Kg	406316	3385
2,3,4,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	1	0.119	0.330	ND		mg/Kg	406316	3385
Diethylphthalate	SW8270C	8/15/11	08/16/11	1	0.117	0.330	ND		mg/Kg	406316	3385
Fluorene	SW8270C	8/15/11	08/16/11	1	0.0990	0.330	ND		mg/Kg	406316	3385
4-Chlorophenyl phenyl ether	SW8270C	8/15/11	08/16/11	1	0.0802	0.330	ND		mg/Kg	406316	3385
4-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0802	0.330	ND		mg/Kg	406316	3385
4,6-Dinitro-2-methylphenol	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Diphenylamine	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Azobenzene	SW8270C	8/15/11	08/16/11	1	0.109	0.330	ND		mg/Kg	406316	3385
4-Bromophenyl phenyl ether	SW8270C	8/15/11	08/16/11	1	0.0812	3.27	ND		mg/Kg	406316	3385
Hexachlorobenzene	SW8270C	8/15/11	08/16/11	1	0.101	0.330	ND		mg/Kg	406316	3385
Pentachlorophenol	SW8270C	8/15/11	08/16/11	1	0.102	3.27	ND		mg/Kg	406316	3385
Phenanthrene	SW8270C	8/15/11	08/16/11	1	0.142	0.330	ND		mg/Kg	406316	3385
Anthracene	SW8270C	8/15/11	08/16/11	1	0.132	0.330	ND		mg/Kg	406316	3385
Carbazole	SW8270C	8/15/11	08/16/11	1	0.132	0.330	ND		mg/Kg	406316	3385
Di-n-butylphthalate	SW8270C	8/15/11	08/16/11	1	0.108	1.68	ND		mg/Kg	406316	3385
Fluoranthene	SW8270C	8/15/11	08/16/11	1	0.132	0.653	ND		mg/Kg	406316	3385
Benzidine	SW8270C	8/15/11	08/16/11	1	0.374	3.27	ND		mg/Kg	406316	3385
Pyrene	SW8270C	8/15/11	08/16/11	1	0.147	0.330	ND		mg/Kg	406316	3385
Benzyl butyl phthalate	SW8270C	8/15/11	08/16/11	1	0.0891	0.330	ND		mg/Kg	406316	3385
Benz[a]anthracene	SW8270C	8/15/11	08/16/11	1	0.149	0.330	ND		mg/Kg	406316	3385
3,3'-Dichlorobenzidine	SW8270C	8/15/11	08/16/11	1	0.152	0.330	ND		mg/Kg	406316	3385
Chrysene	SW8270C	8/15/11	08/16/11	1	0.176	0.330	ND		mg/Kg	406316	3385
Bis(2-Ethylhexyl)phthalate	SW8270C	8/15/11	08/16/11	1	0.0832	0.330	ND		mg/Kg	406316	3385
Di-n-octyl phthalate	SW8270C	8/15/11	08/16/11	1	0.138	0.330	ND		mg/Kg	406316	3385
Benzo[b]fluoranthene	SW8270C	8/15/11	08/16/11	1	0.133	0.330	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-7-1.0	**Lab Sample ID:**	1108085-021A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:40		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/15/11	08/16/11	1	0.169	0.330	ND		mg/Kg	406316	3385
Benzo[a]pyrene	SW8270C	8/15/11	08/16/11	1	0.135	0.330	ND		mg/Kg	406316	3385
Indeno[1,2,3-cd]pyrene	SW8270C	8/15/11	08/16/11	1	0.131	0.330	ND		mg/Kg	406316	3385
Dibenz[a,h]anthracene	SW8270C	8/15/11	08/16/11	1	0.151	0.330	ND		mg/Kg	406316	3385
Benzo[g,h,i]perylene	SW8270C	8/15/11	08/16/11	1	0.150	0.330	ND		mg/Kg	406316	3385
1,4-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.150	0.330	ND		mg/Kg	406316	3385
2,4,6-Tribromophenol (S)	SW8270C	8/15/11	08/16/11	1	19	122	47.4		%	406316	3385
2-Fluorobiphenyl (S)	SW8270C	8/15/11	08/16/11	1	30	115	59.3		%	406316	3385
2-Fluorophenol (S)	SW8270C	8/15/11	08/16/11	1	25	121	68.2		%	406316	3385
Nitrobenzene-d5 (S)	SW8270C	8/15/11	08/16/11	1	23	120	62.5		%	406316	3385
Phenol-d6 (S)	SW8270C	8/15/11	08/16/11	1	24	113	73.1		%	406316	3385
p-Terphenyl-d14 (S)	SW8270C	8/15/11	08/16/11	1	18	137	80.6		%	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-7-1.0 D	**Lab Sample ID:**	1108085-022A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:40		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
The results shown below are reported using their MDL.											
Pyridine	SW8270C	8/15/11	08/16/11	10	100	99.0	ND		mg/Kg	406316	3385
N-Nitrosdimethylamine	SW8270C	8/15/11	08/16/11	10	16.7	50.0	ND		mg/Kg	406316	3385
Aniline	SW8270C	8/15/11	08/16/11	10	18.6	50.0	ND		mg/Kg	406316	3385
Phenol	SW8270C	8/15/11	08/16/11	10	19.5	50.0	ND		mg/Kg	406316	3385
Bis(2-chloroethyl) ether	SW8270C	8/15/11	08/16/11	10	10.4	50.0	ND		mg/Kg	406316	3385
2-Chlorophenol	SW8270C	8/15/11	08/16/11	10	19.5	50.0	ND		mg/Kg	406316	3385
1,3-Dichlorobenzene	SW8270C	8/15/11	08/16/11	10	11.1	50.0	ND		mg/Kg	406316	3385
1,4-Dichlorobenzene	SW8270C	8/15/11	08/16/11	10	10.1	999	ND		mg/Kg	406316	3385
Benzyl Alcohol	SW8270C	8/15/11	08/16/11	10	15.8	50.0	ND		mg/Kg	406316	3385
1,2-Dichlorobenzene	SW8270C	8/15/11	08/16/11	10	10.8	50.0	ND		mg/Kg	406316	3385
2-Methylphenol (o-Cresol)	SW8270C	8/15/11	08/16/11	10	17.6	50.0	ND		mg/Kg	406316	3385
Bis(2-chloroisopropyl)ether	SW8270C	8/15/11	08/16/11	10	10.4	50.0	ND		mg/Kg	406316	3385
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/15/11	08/16/11	10	21.0	50.0	ND		mg/Kg	406316	3385
N-nitroso-di-n-propylamine	SW8270C	8/15/11	08/16/11	10	14.1	50.0	ND		mg/Kg	406316	3385
Hexachloroethane	SW8270C	8/15/11	08/16/11	10	7.05	50.0	ND		mg/Kg	406316	3385
Nitrobenzene	SW8270C	8/15/11	08/16/11	10	8.00	50.0	ND		mg/Kg	406316	3385
Isophorone	SW8270C	8/15/11	08/16/11	10	8.70	99.0	ND		mg/Kg	406316	3385
2-Nitrophenol	SW8270C	8/15/11	08/16/11	10	7.95	99.0	ND		mg/Kg	406316	3385
2,4-Dimethylphenol	SW8270C	8/15/11	08/16/11	10	20.1	999	ND		mg/Kg	406316	3385
Benzoic Acid	SW8270C	8/15/11	08/16/11	10	848	50.0	ND		mg/Kg	406316	3385
Bis(2-Chloroethoxy)methane	SW8270C	8/15/11	08/16/11	10	8.85	50.0	ND		mg/Kg	406316	3385
2,4-Dichlorophenol	SW8270C	8/15/11	08/16/11	10	15.8	50.0	ND		mg/Kg	406316	3385
1,2,4-Trichlorobenzene	SW8270C	8/15/11	08/16/11	10	11.1	50.0	ND		mg/Kg	406316	3385
2,6-Dichlorophenol	SW8270C	8/15/11	08/16/11	10	15.8	50.0	ND		mg/Kg	406316	3385
Naphthalene	SW8270C	8/15/11	08/16/11	10	13.7	50.0	ND		mg/Kg	406316	3385
4-Chloroaniline	SW8270C	8/15/11	08/16/11	10	15.0	50.0	ND		mg/Kg	406316	3385
Hexachloro-1,3-butadiene	SW8270C	8/15/11	08/16/11	10	9.90	50.0	ND		mg/Kg	406316	3385
4-Chloro-3-methylphenol	SW8270C	8/15/11	08/16/11	10	15.5	50.0	ND		mg/Kg	406316	3385
2-Methylnaphthalene	SW8270C	8/15/11	08/16/11	10	12.0	50.0	ND		mg/Kg	406316	3385
1-Methylnaphthalene	SW8270C	8/15/11	08/16/11	10	12.0	50.0	ND		mg/Kg	406316	3385
Hexachlorocyclopentadiene	SW8270C	8/15/11	08/16/11	10	4.20	50.0	ND		mg/Kg	406316	3385
2,4,6-Trichlorophenol	SW8270C	8/15/11	08/16/11	10	14.4	50.0	ND		mg/Kg	406316	3385
2,4,5-Trichlorophenol	SW8270C	8/15/11	08/16/11	10	18.3	50.0	ND		mg/Kg	406316	3385
2-Chloronaphthalene	SW8270C	8/15/11	08/16/11	10	9.00	495	ND		mg/Kg	406316	3385
2-Nitroaniline	SW8270C	8/15/11	08/16/11	10	10.5	50.0	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-7-1.0 D	**Lab Sample ID:**	1108085-022A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:40		
Tag Number:	800 Cedar St		

The results shown below are reported using their MDL.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dimethyl phthalate	SW8270C	8/15/11	08/16/11	10	17.9	50.0	ND		mg/Kg	406316	3385
1,3-Dinitrobenzene	SW8270C	8/15/11	08/16/11	10	16.0	50.0	ND		mg/Kg	406316	3385
Acenaphthylene	SW8270C	8/15/11	08/16/11	10	12.9	50.0	ND		mg/Kg	406316	3385
2,6-Dinitrotoluene	SW8270C	8/15/11	08/16/11	10	4.05	50.0	ND		mg/Kg	406316	3385
1,2-Dinitrobenzene	SW8270C	8/15/11	08/16/11	10	13.0	50.0	ND		mg/Kg	406316	3385
3-Nitroaniline	SW8270C	8/15/11	08/16/11	10	10.5	50.0	ND		mg/Kg	406316	3385
Acenaphthene	SW8270C	8/15/11	08/16/11	10	14.6	50.0	ND		mg/Kg	406316	3385
2,4-Dinitrophenol	SW8270C	8/15/11	08/16/11	10	4.50	495	ND		mg/Kg	406316	3385
4-Nitrophenol	SW8270C	8/15/11	08/16/11	10	10.1	50.0	ND		mg/Kg	406316	3385
Dibenzofuran	SW8270C	8/15/11	08/16/11	10	11.9	50.0	ND		mg/Kg	406316	3385
2,4-Dinitrotoluene	SW8270C	8/15/11	08/16/11	10	4.05	50.0	ND		mg/Kg	406316	3385
2,3,5,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	10	18.0	50.0	ND		mg/Kg	406316	3385
2,3,4,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	10	18.0	50.0	ND		mg/Kg	406316	3385
Diethylphthalate	SW8270C	8/15/11	08/16/11	10	17.7	50.0	ND		mg/Kg	406316	3385
Fluorene	SW8270C	8/15/11	08/16/11	10	15.0	50.0	ND		mg/Kg	406316	3385
4-Chlorophenyl phenyl ether	SW8270C	8/15/11	08/16/11	10	12.2	50.0	ND		mg/Kg	406316	3385
4-Nitroaniline	SW8270C	8/15/11	08/16/11	10	12.2	50.0	ND		mg/Kg	406316	3385
4,6-Dinitro-2-methylphenol	SW8270C	8/15/11	08/16/11	10	10.1	50.0	ND		mg/Kg	406316	3385
Diphenylamine	SW8270C	8/15/11	08/16/11	10	10.1	50.0	ND		mg/Kg	406316	3385
Azobenzene	SW8270C	8/15/11	08/16/11	10	16.5	50.0	ND		mg/Kg	406316	3385
4-Bromophenyl phenyl ether	SW8270C	8/15/11	08/16/11	10	12.3	495	ND		mg/Kg	406316	3385
Hexachlorobenzene	SW8270C	8/15/11	08/16/11	10	15.3	50.0	ND		mg/Kg	406316	3385
Pentachlorophenol	SW8270C	8/15/11	08/16/11	10	15.5	495	ND		mg/Kg	406316	3385
Phenanthrene	SW8270C	8/15/11	08/16/11	10	21.5	50.0	ND		mg/Kg	406316	3385
Anthracene	SW8270C	8/15/11	08/16/11	10	20.1	50.0	ND		mg/Kg	406316	3385
Carbazole	SW8270C	8/15/11	08/16/11	10	20.1	50.0	ND		mg/Kg	406316	3385
Di-n-butylphthalate	SW8270C	8/15/11	08/16/11	10	16.4	255	ND		mg/Kg	406316	3385
Fluoranthene	SW8270C	8/15/11	08/16/11	10	20.1	99.0	ND		mg/Kg	406316	3385
Benzidine	SW8270C	8/15/11	08/16/11	10	56.7	495	ND		mg/Kg	406316	3385
Pyrene	SW8270C	8/15/11	08/16/11	10	22.3	50.0	ND		mg/Kg	406316	3385
Benzyl butyl phthalate	SW8270C	8/15/11	08/16/11	10	13.5	50.0	ND		mg/Kg	406316	3385
Benz[a]anthracene	SW8270C	8/15/11	08/16/11	10	22.7	50.0	ND		mg/Kg	406316	3385
3,3'-Dichlorobenzidine	SW8270C	8/15/11	08/16/11	10	23.1	50.0	ND		mg/Kg	406316	3385
Chrysene	SW8270C	8/15/11	08/16/11	10	26.7	50.0	ND		mg/Kg	406316	3385
Bis(2-Ethylhexyl)phthalate	SW8270C	8/15/11	08/16/11	10	12.6	50.0	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-7-1.0 D	**Lab Sample ID:**	1108085-022A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:40		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.											
Di-n-octyl phthalate	SW8270C	8/15/11	08/16/11	10	20.9	50.0	ND		mg/Kg	406316	3385
Benzo[b]fluoranthene	SW8270C	8/15/11	08/16/11	10	20.1	50.0	ND		mg/Kg	406316	3385
Benzo[k]fluoranthene	SW8270C	8/15/11	08/16/11	10	25.7	50.0	ND		mg/Kg	406316	3385
Benzo[a]pyrene	SW8270C	8/15/11	08/16/11	10	20.4	50.0	ND		mg/Kg	406316	3385
Indeno[1,2,3-cd]pyrene	SW8270C	8/15/11	08/16/11	10	19.8	50.0	ND		mg/Kg	406316	3385
Dibenz[a,h]anthracene	SW8270C	8/15/11	08/16/11	10	23.0	50.0	ND		mg/Kg	406316	3385
Benzo[g,h,i]perylene	SW8270C	8/15/11	08/16/11	10	22.8	50.0	ND		mg/Kg	406316	3385
1,4-Dinitrobenzene	SW8270C	8/15/11	08/16/11	10	22.8	50.0	ND		mg/Kg	406316	3385
2,4,6-Tribromophenol (S)	SW8270C	8/15/11	08/16/11	10	19	122	0.000	S,D	%	406316	3385
2-Fluorobiphenyl (S)	SW8270C	8/15/11	08/16/11	10	30	115	0.000	S,D	%	406316	3385
2-Fluorophenol (S)	SW8270C	8/15/11	08/16/11	10	25	121	0.000	S,D	%	406316	3385
Nitrobenzene-d5 (S)	SW8270C	8/15/11	08/16/11	10	23	120	0.000	S,D	%	406316	3385
Phenol-d6 (S)	SW8270C	8/15/11	08/16/11	10	24	113	0.000	S,D	%	406316	3385
p-Terphenyl-d14 (S)	SW8270C	8/15/11	08/16/11	10	18	137	0.000	S,D	%	406316	3385

NOTE: D - Surrogates not recoverable due to dilution of the sample. Reporting limits increased due to the nature of the sample matrix (viscous and dark color extract).

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-7-3.0	**Lab Sample ID:**	1108085-023A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:45		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	ND		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	ND		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	40		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	ND		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	29		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	ND		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	5.6		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	1.3		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	15		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	ND		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	18		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	10		mg/Kg	406377	3460

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	ND		mg/Kg	406366	3453

Torrent
LABORATORY, INC.

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-7-3.0	**Lab Sample ID:**	1108085-023A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:45		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/15/11	08/16/11	1	0.660	0.653	ND		mg/Kg	406316	3385
N-Nitrosdimethylamine	SW8270C	8/15/11	08/16/11	1	0.110	0.330	ND		mg/Kg	406316	3385
Aniline	SW8270C	8/15/11	08/16/11	1	0.123	0.330	ND		mg/Kg	406316	3385
Phenol	SW8270C	8/15/11	08/16/11	1	0.129	0.330	ND		mg/Kg	406316	3385
Bis(2-chloroethyl) ether	SW8270C	8/15/11	08/16/11	1	0.0683	0.330	ND		mg/Kg	406316	3385
2-Chlorophenol	SW8270C	8/15/11	08/16/11	1	0.129	0.330	ND		mg/Kg	406316	3385
1,3-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0733	0.330	ND		mg/Kg	406316	3385
1,4-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0663	6.59	ND		mg/Kg	406316	3385
Benzyl Alcohol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
1,2-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0713	0.330	ND		mg/Kg	406316	3385
2-Methylphenol (o-Cresol)	SW8270C	8/15/11	08/16/11	1	0.116	0.330	ND		mg/Kg	406316	3385
Bis(2-chloroisopropyl)ether	SW8270C	8/15/11	08/16/11	1	0.0683	0.330	ND		mg/Kg	406316	3385
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/15/11	08/16/11	1	0.139	0.330	ND		mg/Kg	406316	3385
N-nitroso-di-n-propylamine	SW8270C	8/15/11	08/16/11	1	0.0931	0.330	ND		mg/Kg	406316	3385
Hexachloroethane	SW8270C	8/15/11	08/16/11	1	0.0465	0.330	ND		mg/Kg	406316	3385
Nitrobenzene	SW8270C	8/15/11	08/16/11	1	0.0528	0.330	ND		mg/Kg	406316	3385
Isophorone	SW8270C	8/15/11	08/16/11	1	0.0574	0.653	ND		mg/Kg	406316	3385
2-Nitrophenol	SW8270C	8/15/11	08/16/11	1	0.0525	0.653	ND		mg/Kg	406316	3385
2,4-Dimethylphenol	SW8270C	8/15/11	08/16/11	1	0.133	6.59	ND		mg/Kg	406316	3385
Benzoic Acid	SW8270C	8/15/11	08/16/11	1	5.59	0.330	ND		mg/Kg	406316	3385
Bis(2-Chloroethoxy)methane	SW8270C	8/15/11	08/16/11	1	0.0584	0.330	ND		mg/Kg	406316	3385
2,4-Dichlorophenol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
1,2,4-Trichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0733	0.330	ND		mg/Kg	406316	3385
2,6-Dichlorophenol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
Naphthalene	SW8270C	8/15/11	08/16/11	1	0.0901	0.330	ND		mg/Kg	406316	3385
4-Chloroaniline	SW8270C	8/15/11	08/16/11	1	0.0990	0.330	ND		mg/Kg	406316	3385
Hexachloro-1,3-butadiene	SW8270C	8/15/11	08/16/11	1	0.0653	0.330	ND		mg/Kg	406316	3385
4-Chloro-3-methylphenol	SW8270C	8/15/11	08/16/11	1	0.102	0.330	ND		mg/Kg	406316	3385
2-Methylnaphthalene	SW8270C	8/15/11	08/16/11	1	0.0792	0.330	ND		mg/Kg	406316	3385
1-Methylnaphthalene	SW8270C	8/15/11	08/16/11	1	0.0792	0.330	ND		mg/Kg	406316	3385
Hexachlorocyclopentadiene	SW8270C	8/15/11	08/16/11	1	0.0277	0.330	ND		mg/Kg	406316	3385
2,4,6-Trichlorophenol	SW8270C	8/15/11	08/16/11	1	0.0950	0.330	ND		mg/Kg	406316	3385
2,4,5-Trichlorophenol	SW8270C	8/15/11	08/16/11	1	0.121	0.330	ND		mg/Kg	406316	3385
2-Chloronaphthalene	SW8270C	8/15/11	08/16/11	1	0.0594	3.27	ND		mg/Kg	406316	3385
2-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0693	0.330	ND		mg/Kg	406316	3385
Dimethyl phthalate	SW8270C	8/15/11	08/16/11	1	0.118	0.330	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-7-3.0	**Lab Sample ID:**	1108085-023A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:45		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.106	0.330	ND		mg/Kg	406316	3385
Acenaphthylene	SW8270C	8/15/11	08/16/11	1	0.0851	0.330	ND		mg/Kg	406316	3385
2,6-Dinitrotoluene	SW8270C	8/15/11	08/16/11	1	0.0267	0.330	ND		mg/Kg	406316	3385
1,2-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.0858	0.330	ND		mg/Kg	406316	3385
3-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0693	0.330	ND		mg/Kg	406316	3385
Acenaphthene	SW8270C	8/15/11	08/16/11	1	0.0960	0.330	ND		mg/Kg	406316	3385
2,4-Dinitrophenol	SW8270C	8/15/11	08/16/11	1	0.0297	3.27	ND		mg/Kg	406316	3385
4-Nitrophenol	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Dibenzofuran	SW8270C	8/15/11	08/16/11	1	0.0782	0.330	ND		mg/Kg	406316	3385
2,4-Dinitrotoluene	SW8270C	8/15/11	08/16/11	1	0.0267	0.330	ND		mg/Kg	406316	3385
2,3,5,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	1	0.119	0.330	ND		mg/Kg	406316	3385
2,3,4,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	1	0.119	0.330	ND		mg/Kg	406316	3385
Diethylphthalate	SW8270C	8/15/11	08/16/11	1	0.117	0.330	ND		mg/Kg	406316	3385
Fluorene	SW8270C	8/15/11	08/16/11	1	0.0990	0.330	ND		mg/Kg	406316	3385
4-Chlorophenyl phenyl ether	SW8270C	8/15/11	08/16/11	1	0.0802	0.330	ND		mg/Kg	406316	3385
4-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0802	0.330	ND		mg/Kg	406316	3385
4,6-Dinitro-2-methylphenol	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Diphenylamine	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Azobenzene	SW8270C	8/15/11	08/16/11	1	0.109	0.330	ND		mg/Kg	406316	3385
4-Bromophenyl phenyl ether	SW8270C	8/15/11	08/16/11	1	0.0812	3.27	ND		mg/Kg	406316	3385
Hexachlorobenzene	SW8270C	8/15/11	08/16/11	1	0.101	0.330	ND		mg/Kg	406316	3385
Pentachlorophenol	SW8270C	8/15/11	08/16/11	1	0.102	3.27	ND		mg/Kg	406316	3385
Phenanthrene	SW8270C	8/15/11	08/16/11	1	0.142	0.330	ND		mg/Kg	406316	3385
Anthracene	SW8270C	8/15/11	08/16/11	1	0.132	0.330	ND		mg/Kg	406316	3385
Carbazole	SW8270C	8/15/11	08/16/11	1	0.132	0.330	ND		mg/Kg	406316	3385
Di-n-butylphthalate	SW8270C	8/15/11	08/16/11	1	0.108	1.68	ND		mg/Kg	406316	3385
Fluoranthene	SW8270C	8/15/11	08/16/11	1	0.132	0.653	ND		mg/Kg	406316	3385
Benzidine	SW8270C	8/15/11	08/16/11	1	0.374	3.27	ND		mg/Kg	406316	3385
Pyrene	SW8270C	8/15/11	08/16/11	1	0.147	0.330	ND		mg/Kg	406316	3385
Benzyl butyl phthalate	SW8270C	8/15/11	08/16/11	1	0.0891	0.330	ND		mg/Kg	406316	3385
Benz[a]anthracene	SW8270C	8/15/11	08/16/11	1	0.149	0.330	ND		mg/Kg	406316	3385
3,3'-Dichlorobenzidine	SW8270C	8/15/11	08/16/11	1	0.152	0.330	ND		mg/Kg	406316	3385
Chrysene	SW8270C	8/15/11	08/16/11	1	0.176	0.330	ND		mg/Kg	406316	3385
Bis(2-Ethylhexyl)phthalate	SW8270C	8/15/11	08/16/11	1	0.0832	0.330	ND		mg/Kg	406316	3385
Di-n-octyl phthalate	SW8270C	8/15/11	08/16/11	1	0.138	0.330	ND		mg/Kg	406316	3385
Benzo[b]fluoranthene	SW8270C	8/15/11	08/16/11	1	0.133	0.330	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-7-3.0	**Lab Sample ID:**	1108085-023A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:45		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Benzo[k]fluoranthene	SW8270C	8/15/11	08/16/11	1	0.169	0.330	ND		mg/Kg	406316	3385
Benzo[a]pyrene	SW8270C	8/15/11	08/16/11	1	0.135	0.330	ND		mg/Kg	406316	3385
Indeno[1,2,3-cd]pyrene	SW8270C	8/15/11	08/16/11	1	0.131	0.330	ND		mg/Kg	406316	3385
Dibenz[a,h]anthracene	SW8270C	8/15/11	08/16/11	1	0.151	0.330	ND		mg/Kg	406316	3385
Benzo[g,h,i]perylene	SW8270C	8/15/11	08/16/11	1	0.150	0.330	ND		mg/Kg	406316	3385
1,4-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.150	0.330	ND		mg/Kg	406316	3385
2,4,6-Tribromophenol (S)	SW8270C	8/15/11	08/16/11	1	19	122	59.4		%	406316	3385
2-Fluorobiphenyl (S)	SW8270C	8/15/11	08/16/11	1	30	115	78.3		%	406316	3385
2-Fluorophenol (S)	SW8270C	8/15/11	08/16/11	1	25	121	63.0		%	406316	3385
Nitrobenzene-d5 (S)	SW8270C	8/15/11	08/16/11	1	23	120	76.6		%	406316	3385
Phenol-d6 (S)	SW8270C	8/15/11	08/16/11	1	24	113	76.0		%	406316	3385
p-Terphenyl-d14 (S)	SW8270C	8/15/11	08/16/11	1	18	137	99.7		%	406316	3385

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID: NG-7-5.0
Lab Sample ID: 1108085-024A
Project Name/Location: 800 Cedar St. , Oakland, CA
Sample Matrix: Soil
Project Number: 1204.18
Date/Time Sampled: 08/11/11 / 10:50
Tag Number: 800 Cedar St

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/15/11	08/16/11	1	0.660	0.653	ND		mg/Kg	406316	3385
N-Nitrosdimethylamine	SW8270C	8/15/11	08/16/11	1	0.110	0.330	ND		mg/Kg	406316	3385
Aniline	SW8270C	8/15/11	08/16/11	1	0.123	0.330	ND		mg/Kg	406316	3385
Phenol	SW8270C	8/15/11	08/16/11	1	0.129	0.330	ND		mg/Kg	406316	3385
Bis(2-chloroethyl) ether	SW8270C	8/15/11	08/16/11	1	0.0683	0.330	ND		mg/Kg	406316	3385
2-Chlorophenol	SW8270C	8/15/11	08/16/11	1	0.129	0.330	ND		mg/Kg	406316	3385
1,3-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0733	0.330	ND		mg/Kg	406316	3385
1,4-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0663	6.59	ND		mg/Kg	406316	3385
Benzyl Alcohol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
1,2-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0713	0.330	ND		mg/Kg	406316	3385
2-Methylphenol (o-Cresol)	SW8270C	8/15/11	08/16/11	1	0.116	0.330	ND		mg/Kg	406316	3385
Bis(2-chloroisopropyl)ether	SW8270C	8/15/11	08/16/11	1	0.0683	0.330	ND		mg/Kg	406316	3385
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/15/11	08/16/11	1	0.139	0.330	ND		mg/Kg	406316	3385
N-nitroso-di-n-propylamine	SW8270C	8/15/11	08/16/11	1	0.0931	0.330	ND		mg/Kg	406316	3385
Hexachloroethane	SW8270C	8/15/11	08/16/11	1	0.0465	0.330	ND		mg/Kg	406316	3385
Nitrobenzene	SW8270C	8/15/11	08/16/11	1	0.0528	0.330	ND		mg/Kg	406316	3385
Isophorone	SW8270C	8/15/11	08/16/11	1	0.0574	0.653	ND		mg/Kg	406316	3385
2-Nitrophenol	SW8270C	8/15/11	08/16/11	1	0.0525	0.653	ND		mg/Kg	406316	3385
2,4-Dimethylphenol	SW8270C	8/15/11	08/16/11	1	0.133	6.59	ND		mg/Kg	406316	3385
Benzoic Acid	SW8270C	8/15/11	08/16/11	1	5.59	0.330	ND		mg/Kg	406316	3385
Bis(2-Chloroethoxy)methane	SW8270C	8/15/11	08/16/11	1	0.0584	0.330	ND		mg/Kg	406316	3385
2,4-Dichlorophenol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
1,2,4-Trichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0733	0.330	ND		mg/Kg	406316	3385
2,6-Dichlorophenol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
Naphthalene	SW8270C	8/15/11	08/16/11	1	0.0901	0.330	ND		mg/Kg	406316	3385
4-Chloroaniline	SW8270C	8/15/11	08/16/11	1	0.0990	0.330	ND		mg/Kg	406316	3385
Hexachloro-1,3-butadiene	SW8270C	8/15/11	08/16/11	1	0.0653	0.330	ND		mg/Kg	406316	3385
4-Chloro-3-methylphenol	SW8270C	8/15/11	08/16/11	1	0.102	0.330	ND		mg/Kg	406316	3385
2-Methylnaphthalene	SW8270C	8/15/11	08/16/11	1	0.0792	0.330	ND		mg/Kg	406316	3385
1-Methylnaphthalene	SW8270C	8/15/11	08/16/11	1	0.0792	0.330	ND		mg/Kg	406316	3385
Hexachlorocyclopentadiene	SW8270C	8/15/11	08/16/11	1	0.0277	0.330	ND		mg/Kg	406316	3385
2,4,6-Trichlorophenol	SW8270C	8/15/11	08/16/11	1	0.0950	0.330	ND		mg/Kg	406316	3385
2,4,5-Trichlorophenol	SW8270C	8/15/11	08/16/11	1	0.121	0.330	ND		mg/Kg	406316	3385
2-Chloronaphthalene	SW8270C	8/15/11	08/16/11	1	0.0594	3.27	ND		mg/Kg	406316	3385
2-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0693	0.330	ND		mg/Kg	406316	3385
Dimethyl phthalate	SW8270C	8/15/11	08/16/11	1	0.118	0.330	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-7-5.0	**Lab Sample ID:**	1108085-024A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:50		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.106	0.330	ND		mg/Kg	406316	3385
Acenaphthylene	SW8270C	8/15/11	08/16/11	1	0.0851	0.330	ND		mg/Kg	406316	3385
2,6-Dinitrotoluene	SW8270C	8/15/11	08/16/11	1	0.0267	0.330	ND		mg/Kg	406316	3385
1,2-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.0858	0.330	ND		mg/Kg	406316	3385
3-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0693	0.330	ND		mg/Kg	406316	3385
Acenaphthene	SW8270C	8/15/11	08/16/11	1	0.0960	0.330	ND		mg/Kg	406316	3385
2,4-Dinitrophenol	SW8270C	8/15/11	08/16/11	1	0.0297	3.27	ND		mg/Kg	406316	3385
4-Nitrophenol	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Dibenzofuran	SW8270C	8/15/11	08/16/11	1	0.0782	0.330	ND		mg/Kg	406316	3385
2,4-Dinitrotoluene	SW8270C	8/15/11	08/16/11	1	0.0267	0.330	ND		mg/Kg	406316	3385
2,3,5,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	1	0.119	0.330	ND		mg/Kg	406316	3385
2,3,4,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	1	0.119	0.330	ND		mg/Kg	406316	3385
Diethylphthalate	SW8270C	8/15/11	08/16/11	1	0.117	0.330	ND		mg/Kg	406316	3385
Fluorene	SW8270C	8/15/11	08/16/11	1	0.0990	0.330	ND		mg/Kg	406316	3385
4-Chlorophenyl phenyl ether	SW8270C	8/15/11	08/16/11	1	0.0802	0.330	ND		mg/Kg	406316	3385
4-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0802	0.330	ND		mg/Kg	406316	3385
4,6-Dinitro-2-methylphenol	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Diphenylamine	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Azobenzene	SW8270C	8/15/11	08/16/11	1	0.109	0.330	ND		mg/Kg	406316	3385
4-Bromophenyl phenyl ether	SW8270C	8/15/11	08/16/11	1	0.0812	3.27	ND		mg/Kg	406316	3385
Hexachlorobenzene	SW8270C	8/15/11	08/16/11	1	0.101	0.330	ND		mg/Kg	406316	3385
Pentachlorophenol	SW8270C	8/15/11	08/16/11	1	0.102	3.27	ND		mg/Kg	406316	3385
Phenanthrene	SW8270C	8/15/11	08/16/11	1	0.142	0.330	ND		mg/Kg	406316	3385
Anthracene	SW8270C	8/15/11	08/16/11	1	0.132	0.330	ND		mg/Kg	406316	3385
Carbazole	SW8270C	8/15/11	08/16/11	1	0.132	0.330	ND		mg/Kg	406316	3385
Di-n-butylphthalate	SW8270C	8/15/11	08/16/11	1	0.108	1.68	ND		mg/Kg	406316	3385
Fluoranthene	SW8270C	8/15/11	08/16/11	1	0.132	0.653	ND		mg/Kg	406316	3385
Benzidine	SW8270C	8/15/11	08/16/11	1	0.374	3.27	ND		mg/Kg	406316	3385
Pyrene	SW8270C	8/15/11	08/16/11	1	0.147	0.330	ND		mg/Kg	406316	3385
Benzyl butyl phthalate	SW8270C	8/15/11	08/16/11	1	0.0891	0.330	ND		mg/Kg	406316	3385
Benz[a]anthracene	SW8270C	8/15/11	08/16/11	1	0.149	0.330	ND		mg/Kg	406316	3385
3,3'-Dichlorobenzidine	SW8270C	8/15/11	08/16/11	1	0.152	0.330	ND		mg/Kg	406316	3385
Chrysene	SW8270C	8/15/11	08/16/11	1	0.176	0.330	ND		mg/Kg	406316	3385
Bis(2-Ethylhexyl)phthalate	SW8270C	8/15/11	08/16/11	1	0.0832	0.330	ND		mg/Kg	406316	3385
Di-n-octyl phthalate	SW8270C	8/15/11	08/16/11	1	0.138	0.330	ND		mg/Kg	406316	3385
Benzo[b]fluoranthene	SW8270C	8/15/11	08/16/11	1	0.133	0.330	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-7-5.0	**Lab Sample ID:**	1108085-024A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:50		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/15/11	08/16/11	1	0.169	0.330	ND		mg/Kg	406316	3385
Benzo[a]pyrene	SW8270C	8/15/11	08/16/11	1	0.135	0.330	ND		mg/Kg	406316	3385
Indeno[1,2,3-cd]pyrene	SW8270C	8/15/11	08/16/11	1	0.131	0.330	ND		mg/Kg	406316	3385
Dibenz[a,h]anthracene	SW8270C	8/15/11	08/16/11	1	0.151	0.330	ND		mg/Kg	406316	3385
Benzo[g,h,i]perylene	SW8270C	8/15/11	08/16/11	1	0.150	0.330	ND		mg/Kg	406316	3385
1,4-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.150	0.330	ND		mg/Kg	406316	3385
2,4,6-Tribromophenol (S)	SW8270C	8/15/11	08/16/11	1	19	122	42.7		%	406316	3385
2-Fluorobiphenyl (S)	SW8270C	8/15/11	08/16/11	1	30	115	61.9		%	406316	3385
2-Fluorophenol (S)	SW8270C	8/15/11	08/16/11	1	25	121	69.7		%	406316	3385
Nitrobenzene-d5 (S)	SW8270C	8/15/11	08/16/11	1	23	120	64.7		%	406316	3385
Phenol-d6 (S)	SW8270C	8/15/11	08/16/11	1	24	113	77.4		%	406316	3385
p-Terphenyl-d14 (S)	SW8270C	8/15/11	08/16/11	1	18	137	97.5		%	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-8-1.0	**Lab Sample ID:**	1108085-025A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:55		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406312	3407
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	ND		mg/Kg	406312	3407
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	58		mg/Kg	406312	3407
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406312	3407
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	ND		mg/Kg	406312	3407
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	26		mg/Kg	406312	3407
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	ND		mg/Kg	406312	3407
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	6.5		mg/Kg	406312	3407
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	10		mg/Kg	406312	3407
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406312	3407
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	16		mg/Kg	406312	3407
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406312	3407
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406312	3407
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406312	3407
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	19		mg/Kg	406312	3407
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	19		mg/Kg	406312	3407

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/16/11	08/17/11	1	0.01	0.10	ND		mg/Kg	406292	3410

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-8-1.0	**Lab Sample ID:**	1108085-025A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:55		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-8-1.0	**Lab Sample ID:**	1108085-025A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:55		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-8-1.0	**Lab Sample ID:**	1108085-025A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:55		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	71.7		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	85.7		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	94.9		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	85.8		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	92.4		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	72.6		%	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-8-3.0	**Lab Sample ID:**	1108085-026A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:00		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	ND		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	ND		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	38		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	ND		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	24		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	ND		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	5.2		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	1.3		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	15		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	ND		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	19		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	9.7		mg/Kg	406377	3460

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	ND		mg/Kg	406366	3453

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-8-3.0	**Lab Sample ID:**	1108085-026A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:00		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-8-3.0	**Lab Sample ID:**	1108085-026A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:00		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-8-3.0	**Lab Sample ID:**	1108085-026A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:00		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	37.5		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	48.7		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	68.7		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	55.1		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	63.0		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	101		%	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-8-5.0	**Lab Sample ID:**	1108085-027A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:05		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-8-5.0	**Lab Sample ID:**	1108085-027A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:05		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-8-5.0	**Lab Sample ID:**	1108085-027A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:05		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	65.7		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	69.9		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	77.9		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	69.5		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	76.2		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	87.3		%	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-9-1.0	**Lab Sample ID:**	1108085-028A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:10		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406312	3407
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	3.0		mg/Kg	406312	3407
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	62		mg/Kg	406312	3407
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406312	3407
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	ND		mg/Kg	406312	3407
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	39		mg/Kg	406312	3407
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	6.5		mg/Kg	406312	3407
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	11		mg/Kg	406312	3407
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	21		mg/Kg	406312	3407
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406312	3407
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	33		mg/Kg	406312	3407
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406312	3407
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406312	3407
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406312	3407
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	26		mg/Kg	406312	3407
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	34		mg/Kg	406312	3407

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/16/11	08/17/11	1	0.01	0.10	ND		mg/Kg	406292	3410

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-9-1.0	**Lab Sample ID:**	1108085-028A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:10		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-9-1.0	**Lab Sample ID:**	1108085-028A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:10		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-9-1.0	**Lab Sample ID:**	1108085-028A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:10		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	68.4		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	69.0		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	79.4		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	66.6		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	77.5		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	77.7		%	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-9-3.0	**Lab Sample ID:**	1108085-029A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:15		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	ND		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	ND		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	47		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	ND		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	27		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	ND		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	5.4		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	1.8		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	15		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	ND		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	19		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	11		mg/Kg	406377	3460

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	ND		mg/Kg	406366	3453

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-9-3.0	**Lab Sample ID:**	1108085-029A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:15		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-9-3.0	**Lab Sample ID:**	1108085-029A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:15		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

Torrent
LABORATORY, INC.

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-9-3.0	**Lab Sample ID:**	1108085-029A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:15		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	63.7		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	62.3		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	64.6		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	58.9		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	64.8		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	95.5		%	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-9-5.0	**Lab Sample ID:**	1108085-030A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:20		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

Torrent
LABORATORY, INC.

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-9-5.0	**Lab Sample ID:**	1108085-030A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:20		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-9-5.0	**Lab Sample ID:**	1108085-030A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:20		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	48.7		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	55.2		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	60.5		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	53.8		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	57.1		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	90.3		%	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-10-1.0	**Lab Sample ID:**	1108085-031A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:25		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead (STLC)	SW6010B	8/24/11	08/25/11	1	0.0500	0.10	58		mg/L	406420	3488

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406312	3407
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	3.6		mg/Kg	406312	3407
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	200		mg/Kg	406312	3407
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406312	3407
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	ND		mg/Kg	406312	3407
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	26		mg/Kg	406312	3407
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	ND		mg/Kg	406312	3407
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	34		mg/Kg	406312	3407
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	460		mg/Kg	406312	3407
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406312	3407
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	18		mg/Kg	406312	3407
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406312	3407
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406312	3407
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406312	3407
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	20		mg/Kg	406312	3407
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	240		mg/Kg	406312	3407

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/16/11	08/17/11	1	0.01	0.10	0.54		mg/Kg	406292	3410

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-10-1.0	**Lab Sample ID:**	1108085-031A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:25		
Tag Number:	800 Cedar St		

The results shown below are reported using their MDL.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	10	100	99.0	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	10	16.7	50.0	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	10	18.6	50.0	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	10	19.5	50.0	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	10	10.4	50.0	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	10	19.5	50.0	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	10	11.1	50.0	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	10	10.1	999	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	10	15.8	50.0	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	10	10.8	50.0	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	10	17.6	50.0	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	10	10.4	50.0	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	10	21.0	50.0	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	10	14.1	50.0	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	10	7.05	50.0	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	10	8.00	50.0	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	10	8.70	99.0	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	10	7.95	99.0	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	10	20.1	999	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	10	848	50.0	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	10	8.85	50.0	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	10	15.8	50.0	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	10	11.1	50.0	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	10	15.8	50.0	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	10	13.7	50.0	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	10	15.0	50.0	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	10	9.90	50.0	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	10	15.5	50.0	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	10	12.0	50.0	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	10	12.0	50.0	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	10	4.20	50.0	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	10	14.4	50.0	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	10	18.3	50.0	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	10	9.00	495	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	10	10.5	50.0	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-10-1.0	**Lab Sample ID:**	1108085-031A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:25		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.											
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	10	17.9	50.0	ND		mg/Kg	406344	3432
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	10	16.0	50.0	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	10	12.9	50.0	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	10	4.05	50.0	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	10	13.0	50.0	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	10	10.5	50.0	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	10	14.6	50.0	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	10	4.50	495	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	10	10.1	50.0	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	10	11.9	50.0	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	10	4.05	50.0	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	10	18.0	50.0	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	10	18.0	50.0	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	10	17.7	50.0	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	10	15.0	50.0	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	10	12.2	50.0	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	10	12.2	50.0	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	10	10.1	50.0	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	10	10.1	50.0	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	10	16.5	50.0	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	10	12.3	495	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	10	15.3	50.0	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	10	15.5	495	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	10	21.5	50.0	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	10	20.1	50.0	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	10	20.1	50.0	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	10	16.4	255	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	10	20.1	99.0	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	10	56.7	495	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	10	22.3	50.0	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	10	13.5	50.0	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	10	22.7	50.0	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	10	23.1	50.0	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	10	26.7	50.0	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	10	12.6	50.0	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-10-1.0	**Lab Sample ID:**	1108085-031A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:25		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
The results shown below are reported using their MDL.											
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	10	20.9	50.0	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	10	20.1	50.0	ND		mg/Kg	406344	3432
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	10	25.7	50.0	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	10	20.4	50.0	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	10	19.8	50.0	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	10	23.0	50.0	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	10	22.8	50.0	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	10	22.8	50.0	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	10	19	122	0.000	S,D	%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	10	30	115	0.000	S,D	%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	10	25	121	0.000	S,D	%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	10	23	120	0.000	S,D	%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	10	24	113	0.000	S,D	%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	10	18	137	0.000	S,D	%	406344	3432

NOTE: D - Surrogates not recoverable due to dilution of the sample. Reporting limits increased due to the nature of the sample matrix (viscous and dark color extract).

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-10-1.0 D	**Lab Sample ID:**	1108085-032A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:25		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-10-1.0 D	**Lab Sample ID:**	1108085-032A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:25		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-10-1.0 D	**Lab Sample ID:**	1108085-032A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:25		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	59.7		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	69.5		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	62.3		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	61.3		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	65.2		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	69.8		%	406344	3432

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-10-3.0	**Lab Sample ID:**	1108085-033A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:30		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	ND		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	ND		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	32		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	ND		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	25		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	ND		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	5.1		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	1.6		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	16		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	ND		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	18		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	9.2		mg/Kg	406377	3460

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	ND		mg/Kg	406366	3453

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-10-3.0	**Lab Sample ID:**	1108085-033A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:30		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-10-3.0	**Lab Sample ID:**	1108085-033A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:30		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-10-3.0	**Lab Sample ID:**	1108085-033A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:30		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	64.4		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	69.2		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	66.6		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	63.3		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	66.0		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	108		%	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-10-5.0	**Lab Sample ID:**	1108085-034A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:35		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-10-5.0	**Lab Sample ID:**	1108085-034A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:35		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-10-5.0	**Lab Sample ID:**	1108085-034A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:35		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	60.5		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	70.5		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	61.7		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	68.3		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	62.6		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	109		%	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-11-1.0	**Lab Sample ID:**	1108085-035A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:40		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead (STLC)	SW6010B	8/24/11	08/25/11	1	0.0500	0.10	3.9		mg/L	406420	3488

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406312	3407
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	2.6		mg/Kg	406312	3407
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	180		mg/Kg	406312	3407
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406312	3407
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	ND		mg/Kg	406312	3407
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	21		mg/Kg	406312	3407
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	ND		mg/Kg	406312	3407
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	45		mg/Kg	406312	3407
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	200		mg/Kg	406312	3407
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406312	3407
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	16		mg/Kg	406312	3407
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406312	3407
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406312	3407
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406312	3407
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	16		mg/Kg	406312	3407
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	470		mg/Kg	406312	3407

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/16/11	08/17/11	1	0.01	0.10	0.29		mg/Kg	406292	3410

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-11-1.0	**Lab Sample ID:**	1108085-035A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:40		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

Torrent
LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-11-1.0	**Lab Sample ID:**	1108085-035A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:40		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-11-1.0	**Lab Sample ID:**	1108085-035A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:40		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	57.7		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	63.8		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	48.8		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	56.4		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	58.9		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	73.7		%	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-11-3.0	**Lab Sample ID:**	1108085-036A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:45		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	ND		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	1.7		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	49		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	ND		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	27		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	ND		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	7.3		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	4.9		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	15		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	ND		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	21		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	130		mg/Kg	406377	3460

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	ND		mg/Kg	406366	3453

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-11-3.0	**Lab Sample ID:**	1108085-036A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:45		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-11-3.0	**Lab Sample ID:**	1108085-036A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:45		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-11-3.0	**Lab Sample ID:**	1108085-036A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:45		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	52.9		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	59.2		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	56.5		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	53.3		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	56.0		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	88.4		%	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-11-5.0	**Lab Sample ID:**	1108085-037A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:50		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-11-5.0	**Lab Sample ID:**	1108085-037A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:50		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-11-5.0	**Lab Sample ID:**	1108085-037A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:50		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	64.7		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	70.6		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	74.3		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	67.7		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	72.7		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	108		%	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-12-1.0	**Lab Sample ID:**	1108085-038A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:55		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406312	3407
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	1.8		mg/Kg	406312	3407
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	49		mg/Kg	406312	3407
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406312	3407
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	ND		mg/Kg	406312	3407
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	25		mg/Kg	406312	3407
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	ND		mg/Kg	406312	3407
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	6.8		mg/Kg	406312	3407
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	25		mg/Kg	406312	3407
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406312	3407
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	16		mg/Kg	406312	3407
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406312	3407
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406312	3407
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406312	3407
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	20		mg/Kg	406312	3407
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	27		mg/Kg	406312	3407

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/16/11	08/17/11	1	0.01	0.10	ND		mg/Kg	406292	3410

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-12-1.0	**Lab Sample ID:**	1108085-038A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:55		
Tag Number:	800 Cedar St		

The results shown below are reported using their MDL.

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Pyridine	SW8270C	8/18/11	08/18/11	20	200	198	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	20	33.3	100	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	20	37.2	100	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	20	39.0	100	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	20	20.7	100	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	20	39.0	100	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	20	22.2	100	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	20	20.1	2000	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	20	31.5	100	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	20	21.6	100	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	20	35.1	100	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	20	20.7	100	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	20	42.0	100	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	20	28.2	100	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	20	14.1	100	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	20	16.0	100	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	20	17.4	198	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	20	15.9	198	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	20	40.2	2000	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	20	1700	100	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	20	17.7	100	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	20	31.5	100	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	20	22.2	100	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	20	31.5	100	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	20	27.3	100	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	20	30.0	100	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	20	19.8	100	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	20	30.9	100	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	20	24.0	100	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	20	24.0	100	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	20	8.40	100	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	20	28.8	100	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	20	36.6	100	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	20	18.0	990	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	20	21.0	100	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-12-1.0	**Lab Sample ID:**	1108085-038A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:55		
Tag Number:	800 Cedar St		

The results shown below are reported using their MDL.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	20	35.7	100	ND		mg/Kg	406344	3432
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	20	32.0	100	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	20	25.8	100	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	20	8.10	100	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	20	26.0	100	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	20	21.0	100	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	20	29.1	100	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	20	9.00	990	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	20	20.1	100	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	20	23.7	100	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	20	8.10	100	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	20	36.0	100	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	20	36.0	100	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	20	35.4	100	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	20	30.0	100	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	20	24.3	100	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	20	24.3	100	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	20	20.1	100	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	20	20.1	100	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	20	33.0	100	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	20	24.6	990	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	20	30.6	100	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	20	30.9	990	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	20	42.9	100	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	20	40.1	100	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	20	40.1	100	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	20	32.7	510	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	20	40.1	198	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	20	113	990	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	20	44.5	100	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	20	27.0	100	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	20	45.3	100	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	20	46.2	100	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	20	53.4	100	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	20	25.2	100	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-12-1.0	**Lab Sample ID:**	1108085-038A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:55		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.											
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	20	41.7	100	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	20	40.2	100	ND		mg/Kg	406344	3432
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	20	51.3	100	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	20	40.8	100	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	20	39.6	100	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	20	45.9	100	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	20	45.6	100	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	20	45.6	100	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	20	19	122	0.000	S,D	%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	20	30	115	0.000	S,D	%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	20	25	121	0.000	S,D	%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	20	23	120	0.000	S,D	%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	20	24	113	0.000	S,D	%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	20	18	137	0.000	S,D	%	406344	3432

NOTE: D - Surrogates not recoverable due to dilution of the sample. Reporting limits increased due to the nature of the sample matrix (viscous and dark color extract).

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-12-3.0	**Lab Sample ID:**	1108085-039A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:00		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	ND		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	ND		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	44		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	ND		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	26		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	ND		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	9.3		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	1.9		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	15		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	ND		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	20		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	11		mg/Kg	406377	3460

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	ND		mg/Kg	406366	3453

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-12-3.0	**Lab Sample ID:**	1108085-039A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:00		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-12-3.0	**Lab Sample ID:**	1108085-039A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:00		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-12-3.0	**Lab Sample ID:**	1108085-039A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:00		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	55.5		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	64.5		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	76.8		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	66.0		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	73.0		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	98.1		%	406344	3432

Torrent
LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-12-5.0	**Lab Sample ID:**	1108085-040A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:05		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-12-5.0	**Lab Sample ID:**	1108085-040A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:05		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-12-5.0	**Lab Sample ID:**	1108085-040A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:05		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	56.2		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	67.1		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	71.1		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	67.3		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	70.7		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	102		%	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-13-1.0	**Lab Sample ID:**	1108085-041A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:10		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	15		mg/Kg	406312	3407
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	9.2		mg/Kg	406312	3407
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	1100		mg/Kg	406312	3407
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406312	3407
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	4.9		mg/Kg	406312	3407
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	54		mg/Kg	406312	3407
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	ND		mg/Kg	406312	3407
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	150		mg/Kg	406312	3407
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	2900		mg/Kg	406312	3407
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406312	3407
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	30		mg/Kg	406312	3407
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406312	3407
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406312	3407
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406312	3407
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	21		mg/Kg	406312	3407
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	2000		mg/Kg	406312	3407

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/16/11	08/17/11	1	0.01	0.10	0.27		mg/Kg	406292	3410

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-13-1.0	**Lab Sample ID:**	1108085-041A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:10		
Tag Number:	800 Cedar St		

The results shown below are reported using their MDL.

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Pyridine	SW8270C	8/18/11	08/18/11	40	400	396	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	40	66.6	200	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	40	74.4	200	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	40	78.0	200	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	40	41.4	200	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	40	78.0	200	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	40	44.4	200	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	40	40.2	4000	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	40	63.0	200	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	40	43.2	200	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	40	70.2	200	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	40	41.4	200	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	40	84.0	200	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	40	56.4	200	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	40	28.2	200	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	40	32.0	200	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	40	34.8	396	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	40	31.8	396	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	40	80.4	4000	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	40	3390	200	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	40	35.4	200	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	40	63.0	200	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	40	44.4	200	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	40	63.0	200	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	40	54.6	200	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	40	60.0	200	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	40	39.6	200	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	40	61.8	200	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	40	48.0	200	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	40	48.0	200	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	40	16.8	200	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	40	57.6	200	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	40	73.2	200	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	40	36.0	1980	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	40	42.0	200	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-13-1.0	**Lab Sample ID:**	1108085-041A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:10		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.											
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	40	71.4	200	ND		mg/Kg	406344	3432
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	40	64.0	200	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	40	51.6	200	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	40	16.2	200	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	40	52.0	200	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	40	42.0	200	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	40	58.2	200	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	40	18.0	1980	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	40	40.2	200	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	40	47.4	200	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	40	16.2	200	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	40	72.0	200	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	40	72.0	200	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	40	70.8	200	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	40	60.0	200	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	40	48.6	200	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	40	48.6	200	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	40	40.2	200	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	40	40.2	200	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	40	66.0	200	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	40	49.2	1980	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	40	61.2	200	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	40	61.8	1980	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	40	85.8	200	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	40	80.3	200	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	40	80.3	200	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	40	65.4	1020	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	40	80.2	396	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	40	227	1980	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	40	89.0	200	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	40	54.0	200	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	40	90.6	200	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	40	92.4	200	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	40	107	200	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	40	50.4	200	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-13-1.0	**Lab Sample ID:**	1108085-041A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:10		
Tag Number:	800 Cedar St		

The results shown below are reported using their MDL.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	40	83.4	200	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	40	80.4	200	ND		mg/Kg	406344	3432
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	40	103	200	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	40	81.6	200	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	40	79.2	200	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	40	91.8	200	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	40	91.2	200	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	40	91.2	200	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	40	19	122	0.000	S,D	%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	40	30	115	0.000	S,D	%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	40	25	121	0.000	S,D	%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	40	23	120	0.000	S,D	%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	40	24	113	0.000	S,D	%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	40	18	137	0.000	S,D	%	406344	3432

NOTE: D - Surrogates not recoverable due to dilution of the sample. Reporting limits increased due to the nature of the sample matrix (viscous and dark color extract).

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-13-1.0 D	**Lab Sample ID:**	1108085-042A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:10		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead (STLC)	SW6010B	8/24/11	08/25/11	1	0.0500	0.10	520		mg/L	406420	3488

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406312	3407
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	3.5		mg/Kg	406312	3407
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	82		mg/Kg	406312	3407
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406312	3407
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	ND		mg/Kg	406312	3407
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	29		mg/Kg	406312	3407
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	8.4		mg/Kg	406312	3407
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	26		mg/Kg	406312	3407
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	200		mg/Kg	406312	3407
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406312	3407
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	19		mg/Kg	406312	3407
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406312	3407
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406312	3407
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406312	3407
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	22		mg/Kg	406312	3407
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	100		mg/Kg	406312	3407

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/16/11	08/17/11	1	0.01	0.10	0.22		mg/Kg	406292	3410

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-13-1.0 D	**Lab Sample ID:**	1108085-042A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:10		
Tag Number:	800 Cedar St		

The results shown below are reported using their MDL.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	10	100	99.0	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	10	16.7	50.0	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	10	18.6	50.0	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	10	19.5	50.0	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	10	10.4	50.0	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	10	19.5	50.0	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	10	11.1	50.0	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	10	10.1	999	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	10	15.8	50.0	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	10	10.8	50.0	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	10	17.6	50.0	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	10	10.4	50.0	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	10	21.0	50.0	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	10	14.1	50.0	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	10	7.05	50.0	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	10	8.00	50.0	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	10	8.70	99.0	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	10	7.95	99.0	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	10	20.1	999	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	10	848	50.0	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	10	8.85	50.0	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	10	15.8	50.0	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	10	11.1	50.0	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	10	15.8	50.0	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	10	13.7	50.0	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	10	15.0	50.0	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	10	9.90	50.0	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	10	15.5	50.0	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	10	12.0	50.0	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	10	12.0	50.0	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	10	4.20	50.0	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	10	14.4	50.0	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	10	18.3	50.0	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	10	9.00	495	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	10	10.5	50.0	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-13-1.0 D	**Lab Sample ID:**	1108085-042A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:10		
Tag Number:	800 Cedar St		

The results shown below are reported using their MDL.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	10	17.9	50.0	ND		mg/Kg	406344	3432
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	10	16.0	50.0	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	10	12.9	50.0	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	10	4.05	50.0	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	10	13.0	50.0	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	10	10.5	50.0	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	10	14.6	50.0	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	10	4.50	495	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	10	10.1	50.0	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	10	11.9	50.0	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	10	4.05	50.0	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	10	18.0	50.0	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	10	18.0	50.0	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	10	17.7	50.0	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	10	15.0	50.0	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	10	12.2	50.0	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	10	12.2	50.0	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	10	10.1	50.0	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	10	10.1	50.0	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	10	16.5	50.0	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	10	12.3	495	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	10	15.3	50.0	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	10	15.5	495	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	10	21.5	50.0	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	10	20.1	50.0	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	10	20.1	50.0	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	10	16.4	255	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	10	20.1	99.0	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	10	56.7	495	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	10	22.3	50.0	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	10	13.5	50.0	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	10	22.7	50.0	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	10	23.1	50.0	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	10	26.7	50.0	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	10	12.6	50.0	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-13-1.0 D	**Lab Sample ID:**	1108085-042A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:10		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
The results shown below are reported using their MDL.											
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	10	20.9	50.0	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	10	20.1	50.0	ND		mg/Kg	406344	3432
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	10	25.7	50.0	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	10	20.4	50.0	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	10	19.8	50.0	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	10	23.0	50.0	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	10	22.8	50.0	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	10	22.8	50.0	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	10	19	122	0.000	S,D	%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	10	30	115	0.000	S,D	%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	10	25	121	0.000	S,D	%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	10	23	120	0.000	S,D	%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	10	24	113	0.000	S,D	%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	10	18	137	0.000	S,D	%	406344	3432

NOTE: D - Surrogates not recoverable due to dilution of the sample. Reporting limits increased due to the nature of the sample matrix (viscous and dark color extract).

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-13-3.0	**Lab Sample ID:**	1108085-043A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:15		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	ND		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	ND		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	43		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	ND		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	23		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	ND		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	ND		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	6.1		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	15		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	ND		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	17		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	610		mg/Kg	406377	3460

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	ND		mg/Kg	406366	3453

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-13-3.0	**Lab Sample ID:**	1108085-043A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:15		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-13-3.0	**Lab Sample ID:**	1108085-043A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:15		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-13-3.0	**Lab Sample ID:**	1108085-043A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:15		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	61.2		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	62.9		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	66.7		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	61.4		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	64.7		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	131		%	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-13-5.0	**Lab Sample ID:**	1108085-044A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:20		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-13-5.0	**Lab Sample ID:**	1108085-044A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:20		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-13-5.0	**Lab Sample ID:**	1108085-044A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:20		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	32.9		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	54.3		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	40.6		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	54.3		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	40.8		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	95.8		%	406344	3432

MB Summary Report

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/15/11	**Prep Batch:**	3385
Matrix:	Soil	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/16/11	**Analytical Batch:**	406316
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Pyridine	0.660	0.653	ND	
N-Nitrosdimethylamine	0.110	0.330	ND	
Aniline	0.123	0.330	ND	
Phenol	0.129	0.330	ND	
Bis(2-chloroethyl) ether	0.0683	0.330	ND	
2-Chlorophenol	0.129	0.330	ND	
1,3-Dichlorobenzene	0.0733	0.330	ND	
1,4-Dichlorobenzene	0.0663	6.59	ND	
Benzyl Alcohol	0.104	0.330	ND	
1,2-Dichlorobenzene	0.0713	0.330	ND	
2-Methylphenol (o-Cresol)	0.116	0.330	ND	
Bis(2-chloroisopropyl)ether	0.0683	0.330	ND	
3-/4-Methylphenol (p-/m-Cresol)	0.139	0.330	ND	
N-nitroso-di-n-propylamine	0.0931	0.330	ND	
Hexachloroethane	0.0465	0.330	ND	
Nitrobenzene	0.0528	0.330	ND	
Isophorone	0.0574	0.653	ND	
2-Nitrophenol	0.0525	0.653	ND	
2,4-Dimethylphenol	0.133	6.59	ND	
Benzoic Acid	5.59	0.330	ND	
Bis(2-Chloroethoxy)methane	0.0584	0.330	ND	
2,4-Dichlorophenol	0.104	0.330	ND	
1,2,4-Trichlorobenzene	0.0733	0.330	ND	
2,6-Dichlorophenol	0.104	0.330	ND	
Naphthalene	0.0901	0.330	ND	
4-Chloroaniline	0.0990	0.330	ND	
Hexachloro-1,3-butadiene	0.0653	0.330	ND	
4-Chloro-3-methylphenol	0.102	0.330	ND	
2-Methylnaphthalene	0.0792	0.330	ND	
1-Methylnaphthalene	0.0792	0.330	ND	
Hexachlorocyclopentadiene	0.0277	0.330	ND	
2,4,6-Trichlorophenol	0.0950	0.330	ND	
2,4,5-Trichlorophenol	0.121	0.330	ND	
2-Chloronaphthalene	0.0594	3.27	ND	
2-Nitroaniline	0.0693	0.330	ND	
Dimethyl phthalate	0.118	0.330	ND	
1,3-Dinitrobenzene	0.106	0.330	ND	
Acenaphthylene	0.0851	0.330	ND	
2,6-Dinitrotoluene	0.0267	0.330	ND	
1,2-Dinitrobenzene	0.0858	0.330	ND	

MB Summary Report

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/15/11	**Prep Batch:**	3385
Matrix:	Soil	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/16/11	**Analytical Batch:**	406316
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Lab Qualifier**
3-Nitroaniline	0.0693	0.330	ND	
Acenaphthene	0.0960	0.330	ND	
2,4-Dinitrophenol	0.0297	3.27	ND	
4-Nitrophenol	0.0663	0.330	ND	
Dibenzofuran	0.0782	0.330	ND	
2,4-Dinitrotoluene	0.0267	0.330	ND	
2,3,5,6-Tetrachlorophenol	0.119	0.330	ND	
2,3,4,6-Tetrachlorophenol	0.119	0.330	ND	
Diethylphthalate	0.117	0.330	ND	
Fluorene	0.0990	0.330	ND	
4-Chlorophenyl phenyl ether	0.0802	0.330	ND	
4-Nitroaniline	0.0802	0.330	ND	
4,6-Dinitro-2-methylphenol	0.0663	0.330	ND	
Diphenylamine	0.0663	0.330	ND	
Azobenzene	0.109	0.330	ND	
4-Bromophenyl phenyl ether	0.0812	3.27	ND	
Hexachlorobenzene	0.101	0.330	ND	
Pentachlorophenol	0.102	3.27	ND	
Phenanthrene	0.142	0.330	ND	
Anthracene	0.132	0.330	ND	
Carbazole	0.132	0.330	ND	
Di-n-butylphthalate	0.108	1.68	ND	
Fluoranthene	0.132	0.653	ND	
Benzidine	0.374	3.27	ND	
Pyrene	0.147	0.330	ND	
Benzyl butyl phthalate	0.0891	0.330	ND	
Benz[a]anthracene	0.149	0.330	ND	
3,3'-Dichlorobenzidine	0.152	0.330	ND	
Chrysene	0.176	0.330	ND	
Bis(2-Ethylhexyl)phthalate	0.0832	0.330	ND	
Di-n-octyl phthalate	0.138	0.330	ND	
Benzo[b]fluoranthene	0.133	0.330	ND	
Benzo[k]fluoranthene	0.169	0.330	ND	
Benzo[a]pyrene	0.135	0.330	ND	
Indeno[1,2,3-cd]pyrene	0.131	0.330	ND	
Dibenz[a,h]anthracene	0.151	0.330	ND	
Benzo[g,h,i]perylene	0.150	0.330	ND	
1,4-Dinitrobenzene	0.150	0.330	ND	
2,4,6-Tribromophenol (S)			33.3	
2-Fluorobiphenyl (S)			46.7	
2-Fluorophenol (S)			59.8	

MB Summary Report

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/15/11	**Prep Batch:**	3385
Matrix:	Soil	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/16/11	**Analytical Batch:**	406316
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Lab Qualifier**
Nitrobenzene-d5 (S)			48.5	
Phenol-d6 (S)			60.6	
p-Terphenyl-d14 (S)			89.6	

Work Order:	1108085	**Prep Method:**	7471	**Prep Date:**	08/15/11	**Prep Batch:**	3393
Matrix:	Soil	**Analytical Method:**	7471AB	**Analyzed Date:**	08/16/11	**Analytical Batch:**	406270
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Lab Qualifier**
Mercury	0.01	0.10	ND	

MB Summary Report

Work Order:	1108085	**Prep Method:**	3545_TPHSG	**Prep Date:**	08/16/11	**Prep Batch:**	3403
Matrix:	Soil	**Analytical Method:**	SW8015B	**Analyzed Date:**	08/17/11	**Analytical Batch:**	406327
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Diesel Range Organics (DRO)	0.76	2.0	ND	
TPH as Bunker Oil	1.78	4.0	ND	
TPH as Fuel Oil	1.78	4.0	ND	
TPH as Diesel	0.758	2.0	0.86	
TPH as Heating Oil	3.30	4.0	ND	
TPH as Hydraulic Oil	1.78	4.0	ND	
TPH as Jet A	0.758	2.0	ND	
TPH as Jet Fuel	0.76	2.0	ND	
TPH as JP-4	0.758	2.0	ND	
TPH as JP-5	0.758	2.0	ND	
TPH as JP-7	0.758	2.0	ND	
TPH as JP-8	0.758	2.0	ND	
TPH as Kerosene	0.758	3.3	ND	
TPH as Mineral Oil	1.78	4.0	ND	
TPH as Motor Oil	1.8	4.0	2.2	
TPH as Naphtha	0.758	3.3	ND	
TPH as Oil	1.78	4.0	ND	
TPH as Stoddard	0.758	3.3	ND	
TPH as Transformer Oil	1.78	4.0	ND	
Creosote	0.758	3.3	ND	
Pentacosane (S)			77.6	

MB Summary Report

Work Order:	1108085	**Prep Method:**	3050	**Prep Date:**	08/16/11	**Prep Batch:**	3405
Matrix:	Soil	**Analytical Method:**	SW6010B	**Analyzed Date:**	08/17/11	**Analytical Batch:**	406288
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Antimony	0.20	5.0	0.30	
Arsenic	0.28	1.7	ND	
Barium	1	5.0	1.1	
Beryllium	0.0840	2.0	ND	
Cadmium	0.059	1.0	ND	
Chromium	0.059	5.0	0.35	
Cobalt	0.14	5.0	ND	
Copper	0.090	5.0	0.25	
Lead	0.043	1.0	0.25	
Molybdenum	0.059	5.0	0.060	
Nickel	0.059	5.0	0.12	
Selenium	0.29	5.0	ND	
Silver	1.0	1.0	ND	
Thallium	0.12	5.0	ND	
Vanadium	0.12	5.0	0.12	
Zinc	0.59	5.0	0.85	

Work Order:	1108085	**Prep Method:**	3050	**Prep Date:**	08/16/11	**Prep Batch:**	3407
Matrix:	Soil	**Analytical Method:**	SW6010B	**Analyzed Date:**	08/17/11	**Analytical Batch:**	406312
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Antimony	0.20	5.0	0.39	
Arsenic	0.28	1.7	ND	
Barium	1	5.0	1.1	
Beryllium	0.0840	2.0	ND	
Cadmium	0.059	1.0	ND	
Chromium	0.059	5.0	0.35	
Cobalt	0.14	5.0	ND	
Copper	0.090	5.0	0.22	
Lead	0.043	1.0	0.70	
Molybdenum	0.059	5.0	0.17	
Nickel	0.059	5.0	0.12	
Selenium	0.29	5.0	ND	
Silver	1.0	1.0	ND	
Thallium	0.12	5.0	0.24	
Vanadium	0.12	5.0	0.15	
Zinc	0.59	5.0	0.93	

MB Summary Report

Work Order:	1108085	**Prep Method:**	7471	**Prep Date:**	08/16/11	**Prep Batch:**	3410
Matrix:	Soil	**Analytical Method:**	7471AB	**Analyzed Date:**	08/17/11	**Analytical Batch:**	406292
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Mercury	0.01	0.10	ND	

Work Order:	1108085	**Prep Method:**	3545_TPH	**Prep Date:**	08/18/11	**Prep Batch:**	3429
Matrix:	Soil	**Analytical Method:**	SW8015B(M)	**Analyzed Date:**	08/19/11	**Analytical Batch:**	406342
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel (SG)	0.76	2.0	ND	
TPH as Motor Oil (SG)	1.8	4.0	3.0	
Pentacosane (S)			103	

MB Summary Report

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/18/11	**Prep Batch:**	3432
Matrix:	Soil	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/18/11	**Analytical Batch:**	406344
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Lab Qualifier**
Pyridine	0.660	0.653	ND	
N-Nitrosdimethylamine	0.110	0.330	ND	
Aniline	0.123	0.330	ND	
Phenol	0.129	0.330	ND	
Bis(2-chloroethyl) ether	0.0683	0.330	ND	
2-Chlorophenol	0.129	0.330	ND	
1,3-Dichlorobenzene	0.0733	0.330	ND	
1,4-Dichlorobenzene	0.0663	6.59	ND	
Benzyl Alcohol	0.104	0.330	ND	
1,2-Dichlorobenzene	0.0713	0.330	ND	
2-Methylphenol (o-Cresol)	0.116	0.330	ND	
Bis(2-chloroisopropyl)ether	0.0683	0.330	ND	
3-/4-Methylphenol (p-/m-Cresol)	0.139	0.330	ND	
N-nitroso-di-n-propylamine	0.0931	0.330	ND	
Hexachloroethane	0.0465	0.330	ND	
Nitrobenzene	0.0528	0.330	ND	
Isophorone	0.0574	0.653	ND	
2-Nitrophenol	0.0525	0.653	ND	
2,4-Dimethylphenol	0.133	6.59	ND	
Benzoic Acid	5.59	0.330	ND	
Bis(2-Chloroethoxy)methane	0.0584	0.330	ND	
2,4-Dichlorophenol	0.104	0.330	ND	
1,2,4-Trichlorobenzene	0.0733	0.330	ND	
2,6-Dichlorophenol	0.104	0.330	ND	
Naphthalene	0.0901	0.330	ND	
4-Chloroaniline	0.0990	0.330	ND	
Hexachloro-1,3-butadiene	0.0653	0.330	ND	
4-Chloro-3-methylphenol	0.102	0.330	ND	
2-Methylnaphthalene	0.0792	0.330	ND	
1-Methylnaphthalene	0.0792	0.330	ND	
Hexachlorocyclopentadiene	0.0277	0.330	ND	
2,4,6-Trichlorophenol	0.0950	0.330	ND	
2,4,5-Trichlorophenol	0.121	0.330	ND	
2-Chloronaphthalene	0.0594	3.27	ND	
2-Nitroaniline	0.0693	0.330	ND	
Dimethyl phthalate	0.118	0.330	ND	
1,3-Dinitrobenzene	0.106	0.330	ND	
Acenaphthylene	0.0851	0.330	ND	
2,6-Dinitrotoluene	0.0267	0.330	ND	
1,2-Dinitrobenzene	0.0858	0.330	ND	
3-Nitroaniline	0.0693	0.330	ND	

MB Summary Report

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/18/11	**Prep Batch:**	3432
Matrix:	Soil	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/18/11	**Analytical Batch:**	406344
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Lab Qualifier**
Acenaphthene	0.0960	0.330	ND	
2,4-Dinitrophenol	0.0297	3.27	ND	
4-Nitrophenol	0.0663	0.330	ND	
Dibenzofuran	0.0782	0.330	ND	
2,4-Dinitrotoluene	0.0267	0.330	ND	
2,3,5,6-Tetrachlorophenol	0.119	0.330	ND	
2,3,4,6-Tetrachlorophenol	0.119	0.330	ND	
Diethylphthalate	0.117	0.330	ND	
Fluorene	0.0990	0.330	ND	
4-Chlorophenyl phenyl ether	0.0802	0.330	ND	
4-Nitroaniline	0.0802	0.330	ND	
4,6-Dinitro-2-methylphenol	0.0663	0.330	ND	
Diphenylamine	0.0663	0.330	ND	
Azobenzene	0.109	0.330	ND	
4-Bromophenyl phenyl ether	0.0812	3.27	ND	
Hexachlorobenzene	0.101	0.330	ND	
Pentachlorophenol	0.102	3.27	ND	
Phenanthrene	0.142	0.330	ND	
Anthracene	0.132	0.330	ND	
Carbazole	0.132	0.330	ND	
Di-n-butylphthalate	0.108	1.68	ND	
Fluoranthene	0.132	0.653	ND	
Benzidine	0.374	3.27	ND	
Pyrene	0.147	0.330	ND	
Benzyl butyl phthalate	0.0891	0.330	ND	
Benz[a]anthracene	0.149	0.330	ND	
3,3'-Dichlorobenzidine	0.152	0.330	ND	
Chrysene	0.176	0.330	ND	
Bis(2-Ethylhexyl)phthalate	0.0832	0.330	ND	
Di-n-octyl phthalate	0.138	0.330	ND	
Benzo[b]fluoranthene	0.133	0.330	ND	
Benzo[k]fluoranthene	0.169	0.330	ND	
Benzo[a]pyrene	0.135	0.330	ND	
Indeno[1,2,3-cd]pyrene	0.131	0.330	ND	
Dibenz[a,h]anthracene	0.151	0.330	ND	
Benzo[g,h,i]perylene	0.150	0.330	ND	
1,4-Dinitrobenzene	0.150	0.330	ND	
2,4,6-Tribromophenol (S)			48.4	
2-Fluorobiphenyl (S)			55.0	
2-Fluorophenol (S)			91.6	
Nitrobenzene-d5 (S)			60.3	

MB Summary Report

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/18/11	**Prep Batch:**	3432
Matrix:	Soil	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/18/11	**Analytical Batch:**	406344
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Lab Qualifier**
Phenol-d6 (S)			76.4	
p-Terphenyl-d14 (S)			135	

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MB Summary Report

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/18/11	**Prep Batch:**	3432
Matrix:	Soil	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/21/11	**Analytical Batch:**	406352
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Lab Qualifier**
Pyridine	0.670	0.663	ND	
N-Nitrosdimethylamine	0.112	0.335	ND	
Aniline	0.125	0.335	ND	
Phenol	0.131	0.335	ND	
Bis(2-chloroethyl) ether	0.0693	0.335	ND	
2-Chlorophenol	0.131	0.335	ND	
1,3-Dichlorobenzene	0.0744	0.335	ND	
1,4-Dichlorobenzene	0.0673	6.69	ND	
Benzyl Alcohol	0.106	0.335	ND	
1,2-Dichlorobenzene	0.0724	0.335	ND	
2-Methylphenol (o-Cresol)	0.118	0.335	ND	
Bis(2-chloroisopropyl)ether	0.0693	0.335	ND	
3-/4-Methylphenol (p-/m-Cresol)	0.141	0.335	ND	
N-nitroso-di-n-propylamine	0.0945	0.335	ND	
Hexachloroethane	0.0472	0.335	ND	
Nitrobenzene	0.0536	0.335	ND	
Isophorone	0.0583	0.663	ND	
2-Nitrophenol	0.0533	0.663	ND	
2,4-Dimethylphenol	0.135	6.69	ND	
Benzoic Acid	5.68	0.335	ND	
Bis(2-Chloroethoxy)methane	0.0593	0.335	ND	
2,4-Dichlorophenol	0.106	0.335	ND	
1,2,4-Trichlorobenzene	0.0744	0.335	ND	
2,6-Dichlorophenol	0.106	0.335	ND	
Naphthalene	0.0915	0.335	ND	
4-Chloroaniline	0.101	0.335	ND	
Hexachloro-1,3-butadiene	0.0663	0.335	ND	
4-Chloro-3-methylphenol	0.104	0.335	ND	
2-Methylnaphthalene	0.0804	0.335	ND	
1-Methylnaphthalene	0.0804	0.335	ND	
Hexachlorocyclopentadiene	0.0281	0.335	ND	
2,4,6-Trichlorophenol	0.0965	0.335	ND	
2,4,5-Trichlorophenol	0.123	0.335	ND	
2-Chloronaphthalene	0.0603	3.32	ND	
2-Nitroaniline	0.0704	0.335	ND	
Dimethyl phthalate	0.120	0.335	0.47	B
1,3-Dinitrobenzene	0.107	0.335	ND	
Acenaphthylene	0.0864	0.335	ND	
2,6-Dinitrotoluene	0.0271	0.335	ND	
1,2-Dinitrobenzene	0.0871	0.335	ND	
3-Nitroaniline	0.0704	0.335	ND	

MB Summary Report

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/18/11	**Prep Batch:**	3432
Matrix:	Soil	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/21/11	**Analytical Batch:**	406352
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Lab Qualifier**
Acenaphthene	0.0975	0.335	ND	
2,4-Dinitrophenol	0.0302	3.32	ND	
4-Nitrophenol	0.0673	0.335	ND	
Dibenzofuran	0.0794	0.335	ND	
2,4-Dinitrotoluene	0.0271	0.335	ND	
2,3,5,6-Tetrachlorophenol	0.121	0.335	ND	
2,3,4,6-Tetrachlorophenol	0.121	0.335	ND	
Diethylphthalate	0.119	0.335	0.28	
Fluorene	0.101	0.335	ND	
4-Chlorophenyl phenyl ether	0.0814	0.335	ND	
4-Nitroaniline	0.0814	0.335	ND	
4,6-Dinitro-2-methylphenol	0.0673	0.335	ND	
Diphenylamine	0.0673	0.335	ND	
Azobenzene	0.111	0.335	ND	
4-Bromophenyl phenyl ether	0.0824	3.32	ND	
Hexachlorobenzene	0.103	0.335	ND	
Pentachlorophenol	0.104	3.32	ND	
Phenanthrene	0.144	0.335	ND	
Anthracene	0.134	0.335	ND	
Carbazole	0.134	0.335	ND	
Di-n-butylphthalate	0.110	1.71	ND	
Fluoranthene	0.134	0.663	ND	
Benzidine	0.380	3.32	ND	
Pyrene	0.149	0.335	ND	
Benzyl butyl phthalate	0.0905	0.335	ND	
Benz[a]anthracene	0.152	0.335	ND	
3,3'-Dichlorobenzidine	0.155	0.335	ND	
Chrysene	0.179	0.335	ND	
Bis(2-Ethylhexyl)phthalate	0.0844	0.335	ND	
Di-n-octyl phthalate	0.140	0.335	ND	
Benzo[b]fluoranthene	0.135	0.335	ND	
Benzo[k]fluoranthene	0.172	0.335	ND	
Benzo[a]pyrene	0.137	0.335	ND	
Indeno[1,2,3-cd]pyrene	0.133	0.335	ND	
Dibenz[a,h]anthracene	0.154	0.335	ND	
Benzo[g,h,i]perylene	0.153	0.335	ND	
1,4-Dinitrobenzene	0.153	0.335	ND	
2,4,6-Tribromophenol (S)			23.9	
2-Fluorobiphenyl (S)			40.7	
2-Fluorophenol (S)			35.2	
Nitrobenzene-d5 (S)			41.0	

MB Summary Report

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/18/11	**Prep Batch:**	3432
Matrix:	Soil	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/21/11	**Analytical Batch:**	406352
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Lab Qualifier**
Phenol-d6 (S)			35.4	
p-Terphenyl-d14 (S)			99.5	

Work Order:	1108085	**Prep Method:**	7471	**Prep Date:**	08/22/11	**Prep Batch:**	3453
Matrix:	Soil	**Analytical Method:**	7471AB	**Analyzed Date:**	08/23/11	**Analytical Batch:**	406366
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Lab Qualifier**
Mercury	0.01	0.10	ND	

Work Order:	1108085	**Prep Method:**	3050	**Prep Date:**	08/22/11	**Prep Batch:**	3460
Matrix:	Soil	**Analytical Method:**	SW6010B	**Analyzed Date:**	08/23/11	**Analytical Batch:**	406377
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Lab Qualifier**
Antimony	0.20	5.0	ND	
Arsenic	0.28	1.7	ND	
Barium	1	5.0	ND	
Beryllium	0.0840	2.0	ND	
Cadmium	0.059	1.0	ND	
Chromium	0.059	5.0	0.16	
Cobalt	0.14	5.0	ND	
Copper	0.090	5.0	1.5	
Lead	0.043	1.0	ND	
Molybdenum	0.059	5.0	0.21	
Nickel	0.059	5.0	0.12	
Selenium	0.29	5.0	ND	
Silver	1.0	1.0	ND	
Thallium	0.12	5.0	0.25	
Vanadium	0.12	5.0	ND	
Zinc	0.59	5.0	ND	

MB Summary Report

Work Order:	1108085	**Prep Method:**	WET/3010B	**Prep Date:**	08/24/11	**Prep Batch:**	3488
Matrix:	Soil	**Analytical Method:**	SW6010B	**Analyzed Date:**	08/25/11	**Analytical Batch:**	406420
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Lead (STLC)	0.0500	0.10	ND	

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/15/11	**Prep Batch:**	3385
Matrix:	Soil	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/16/11	**Analytical Batch:**	406316
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Spike Conc.**	**LCS % Recovery**	**LCSD % Recovery**	**LCS/LCSD % RPD**	**% Recovery Limits**	**% RPD Limits**	**Lab Qualifier**
Phenol	0.129	0.33	ND	1.667	40.3	49.5	20.3	16 - 98.6	30	
2-Chlorophenol	0.129	0.33	ND	1.667	36.9	44.8	19.2	12.9 - 91.3	30	
1,4-Dichlorobenzene	0.0663	0.33	ND	0.833	40.9	49.8	19.6	21.9 - 79.8	30	
N-nitroso-di-n-propylamine	0.0931	0.33	ND	1.667	41.3	50.8	20.9	15.5 - 116	30	
1,2,4-Trichlorobenzene	0.0733	0.33	ND	0.833	35.7	46.3	25.7	31.7 - 85.1	30	
4-Chloro-3-methylphenol	0.102	0.33	ND	1.667	32.7	39.0	17.8	23.8 - 116	30	
Acenaphthene	0.0964	0.33	ND	0.833	38.1	47.3	21.8	29.1 - 94.8	30	
4-Nitrophenol	0.0663	0.33	ND	1.667	56.0	60.9	7.93	10.4 - 131	30	
2,4-Dinitrotoluene	0.0267	0.33	ND	0.833	48.9	60.0	20.4	30.8 - 124	30	
Pentachlorophenol	0.102	0.33	ND	1.667	50.9	58.7	13.8	19.9 - 133	30	
Pyrene	0.147	0.33	ND	0.833	59.5	70.5	16.8	34.2 - 127	30	
Phenol-d6 (S)			ND	50	54.0	64.1		24 - 113		
2-Fluorophenol (S)			ND	50	40.6	50.0		25 - 121		
2,4,6-Tribromophenol (S)			ND	50	48.3	57.3		19 - 122		
Nitrobenzene-d5 (S)			ND	25	44.5	53.2		23 - 120		
2-Fluorobiphenyl (S)			ND	25	42.2	53.5		30 - 115		
p-Terphenyl-d14 (S)			ND	25	47.4	53.4		18 - 137		

Work Order:	1108085	**Prep Method:**	7471	**Prep Date:**	08/15/11	**Prep Batch:**	3393
Matrix:	Soil	**Analytical Method:**	7471B	**Analyzed Date:**	08/16/11	**Analytical Batch:**	406270
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Spike Conc.**	**LCS % Recovery**	**LCSD % Recovery**	**LCS/LCSD % RPD**	**% Recovery Limits**	**% RPD Limits**	**Lab Qualifier**
Mercury	0.01	0.10	ND	1.25	109	116	6.58	80.5 - 133	0,	

Work Order:	1108085	**Prep Method:**	3545_TPHSG	**Prep Date:**	08/16/11	**Prep Batch:**	3403
Matrix:	Soil	**Analytical Method:**	SW8015B	**Analyzed Date:**	08/17/11	**Analytical Batch:**	406327
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Spike Conc.**	**LCS % Recovery**	**LCSD % Recovery**	**LCS/LCSD % RPD**	**% Recovery Limits**	**% RPD Limits**	**Lab Qualifier**
TPH as Diesel	0.76	2.0	ND	33.33	85.1	70.4	18.9	50.8 - 111	30	
Pentacosane (S)			ND	100	98.8	85.3		61.5 - 133		

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1108085	**Prep Method:**	3050	**Prep Date:**	08/16/11	**Prep Batch:**	3405
Matrix:	Soil	**Analytical Method:**	SW6010B	**Analyzed Date:**	08/17/11	**Analytical Batch:**	406288
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.2	5	0.30	50	97.13	98.9	1.79	30.7 - 130	30	
Arsenic	0.28	1.7	ND	50	96.33	97.9	1.66	71 - 121	30	
Barium	1.1	5	1.1	50	103.4	98.4	4.59	70.2 - 130	30	
Beryllium	0.084	2	ND	50	98.33	94.8	3.66	73.3 - 115	30	
Cadmium	0.059	1	ND	50	99.51	94.3	5.40	68.7 - 110	30	
Chromium	0.059	5	0.35	50	104.2	99.2	4.69	76 - 116	30	
Cobalt	0.14	5	ND	50	101.8	96.3	5.72	57.4 - 122	30	
Copper	0.09	5	0.25	50	104.2	99.3	4.58	74.8 - 119	30	
Lead	0.13	1	0.25	50	97.89	98.9	0.996	67.9 - 118	30	
Molybdenum	0.059	5	0.060	50	98.92	100	1.51	62.9 - 123	30	
Nickel	0.059	5	0.12	50	101.7	96.6	5.44	61.5 - 122	30	
Selenium	0.29	5	ND	50	91.96	94.4	2.56	62 - 111	30	
Silver	1	1	ND	50	98.56	94.4	4.38	81.1 - 109	30	
Thallium	0.12	5	ND	50	92.93	94.3	1.50	39.2 - 125	30	
Vanadium	0.12	5	0.12	50	103.9	98.5	5.40	65.8 - 122	30	
Zinc	0.59	5	0.85	50	100	94.8	5.37	59.9 - 122	30	

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1108085	**Prep Method:**	3050	**Prep Date:**	08/16/11	**Prep Batch:**	3407
Matrix:	Soil	**Analytical Method:**	SW6010B	**Analyzed Date:**	08/17/11	**Analytical Batch:**	406312
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.20	5.0	0.39	50	98.2	97.6	0.664	30.7 - 130	30	
Arsenic	0.28	1.7	ND	50	96.6	96.7	0.124	71 - 121	30	
Barium	1	5.0	1.1	50	101	102	0.789	70.2 - 130	30	
Beryllium	0.0840	2.0	ND	50	103	98.3	4.67	73.3 - 115	30	
Cadmium	0.059	1.0	ND	50	96.1	97.8	1.72	68.7 - 110	30	
Chromium	0.059	5.0	0.35	50	100	101	1.39	76 - 116	30	
Cobalt	0.14	5.0	ND	50	99.3	100	0.902	57.4 - 122	30	
Copper	0.090	5.0	0.22	50	99.8	101	1.59	74.8 - 119	30	
Lead	0.13	1.0	0.70	50	98.5	97.3	1.26	67.9 - 118	30	
Molybdenum	0.059	5.0	0.17	50	101	99.6	1.36	62.9 - 123	30	
Nickel	0.059	5.0	0.12	50	97.6	99.7	2.08	61.5 - 122	30	
Selenium	0.29	5.0	ND	50	93.9	92.7	1.34	62 - 111	30	
Silver	1.0	1.0	ND	50	94.7	95.6	0.894	81.1 - 109	30	
Thallium	0.12	5.0	0.24	50	95.0	94.8	0.242	39.2 - 125	30	
Vanadium	0.12	5.0	0.15	50	101	102	1.38	65.8 - 122	30	
Zinc	0.59	5.0	0.93	50	97.5	98.5	0.980	59.9 - 122	30	

Work Order:	1108085	**Prep Method:**	7471	**Prep Date:**	08/16/11	**Prep Batch:**	3410
Matrix:	Soil	**Analytical Method:**	7471B	**Analyzed Date:**	08/17/11	**Analytical Batch:**	406292
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.01	0.10	ND	1.25	116	109	6.41	80.5 - 133	0,	

Work Order:	1108085	**Prep Method:**	3545_TPH	**Prep Date:**	08/18/11	**Prep Batch:**	3429
Matrix:	Soil	**Analytical Method:**	SW8015B(M)	**Analyzed Date:**	08/19/11	**Analytical Batch:**	406342
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel (SG)	0.76	2.0	ND	33.33	101	106	5.10	50.8 - 111	30	
Pentacosane (S)			3.0	100	113	119		61.5 - 133		

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/18/11	**Prep Batch:**	3432
Matrix:	Soil	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/18/11	**Analytical Batch:**	406344
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Spike Conc.**	**LCS % Recovery**	**LCSD % Recovery**	**LCS/LCSD % RPD**	**% Recovery Limits**	**% RPD Limits**	**Lab Qualifier**
Phenol	0.129	0.33	ND	1.667	48.0	48.4	0.951	16 - 98.6	30	
2-Chlorophenol	0.129	0.33	ND	1.667	46.0	45.6	0.981	12.9 - 91.3	30	
1,4-Dichlorobenzene	0.0663	0.33	ND	0.833	53.6	53.6	0.0281	21.9 - 79.8	30	
N-nitroso-di-n-propylamine	0.0931	0.33	ND	1.667	46.4	46.2	0.226	15.5 - 116	30	
1,2,4-Trichlorobenzene	0.0733	0.33	ND	0.833	46.4	47.0	1.13	31.7 - 85.1	30	
4-Chloro-3-methylphenol	0.102	0.33	ND	1.667	37.2	37.7	1.49	23.8 - 116	30	
Acenaphthene	0.0964	0.33	ND	0.833	47.9	46.5	2.82	29.1 - 94.8	30	
4-Nitrophenol	0.0663	0.33	ND	1.667	62.0	60.4	2.83	10.4 - 131	30	
2,4-Dinitrotoluene	0.0267	0.33	ND	0.833	67.5	65.4	3.20	30.8 - 124	30	
Pentachlorophenol	0.102	0.33	ND	1.667	66.8	62.4	7.05	19.9 - 133	30	
Pyrene	0.147	0.33	ND	0.833	93.2	90.1	3.73	34.2 - 127	30	
Phenol-d6 (S)			ND	50	60.7	60.4		24 - 113		
2-Fluorophenol (S)			ND	50	50.9	52.4		25 - 121		
2,4,6-Tribromophenol (S)			ND	50	53.2	52.7		19 - 122		
Nitrobenzene-d5 (S)			ND	25	51.6	54.0		23 - 120		
2-Fluorobiphenyl (S)			ND	25	50.2	51.2		30 - 115		
p-Terphenyl-d14 (S)			ND	25	88.6	88.5		18 - 137		

Work Order:	1108085	**Prep Method:**	7471	**Prep Date:**	08/22/11	**Prep Batch:**	3453
Matrix:	Soil	**Analytical Method:**	7471B	**Analyzed Date:**	08/23/11	**Analytical Batch:**	406366
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Spike Conc.**	**LCS % Recovery**	**LCSD % Recovery**	**LCS/LCSD % RPD**	**% Recovery Limits**	**% RPD Limits**	**Lab Qualifier**
Mercury	0.01	0.10	ND	1.25	115	113	1.58	80.5 - 133	0,	

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1108085	**Prep Method:**	3050	**Prep Date:**	08/22/11	**Prep Batch:**	3460
Matrix:	Soil	**Analytical Method:**	SW6010B	**Analyzed Date:**	08/23/11	**Analytical Batch:**	406377
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.20	5.0	ND	50	97.3	99.0	1.71	30.7 - 130	30	
Arsenic	0.28	1.7	ND	50	96.5	99.5	3.01	71 - 121	30	
Barium	1	5.0	ND	50	103	108	4.65	70.2 - 130	30	
Beryllium	0.0840	2.0	ND	50	102	103	0.976	73.3 - 115	30	
Cadmium	0.059	1.0	ND	50	94.3	99.5	5.34	68.7 - 110	30	
Chromium	0.059	5.0	0.16	50	103	107	4.18	76 - 116	30	
Cobalt	0.14	5.0	ND	50	101	107	5.58	57.4 - 122	30	
Copper	0.090	5.0	1.5	50	104	109	4.79	74.8 - 119	30	
Lead	0.13	1.0	ND	50	99.0	100	1.40	67.9 - 118	30	
Molybdenum	0.059	5.0	0.21	50	103	109	5.66	62.9 - 123	30	
Nickel	0.059	5.0	0.12	50	101	106	4.55	61.5 - 122	30	
Selenium	0.29	5.0	ND	50	91.6	94.1	2.64	62 - 111	30	
Silver	1.0	1.0	ND	50	95.5	101	5.10	81.1 - 109	30	
Thallium	0.12	5.0	0.25	50	96.0	97.7	1.76	39.2 - 125	30	
Vanadium	0.12	5.0	ND	50	102	108	5.25	65.8 - 122	30	
Zinc	0.59	5.0	ND	50	96.3	99.5	3.24	59.9 - 122	30	

Work Order:	1108085	**Prep Method:**	WET/3010B	**Prep Date:**	08/24/11	**Prep Batch:**	3488
Matrix:	Soil	**Analytical Method:**	SW6010B	**Analyzed Date:**	08/25/11	**Analytical Batch:**	406420
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Lead (STLC)	0.0500	0.10	ND	10	89.6	87.4	2.54	80 - 120	20	

MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1108085	**Prep Method:**	7471	**Prep Date:**	08/16/11	**Prep Batch:**	3410
Matrix:	**Soil**	**Analytical Method:**	7471B	**Analyzed Date:**	08/17/11	**Analytical Batch:**	406292
Spiked Sample:	1108085-008A						
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Sample Conc.**	**Spike Conc.**	**MS % Recovery**	**MSD % Recovery**	**MS/MSD % RPD**	**% Recovery Limits**	**% RPD Limits**	**Lab Qualifier**
Mercury	0.01	0.10	0.00357	1.25	71.7	98.4	24.5	60 - 140	30	

Work Order:	1108085	**Prep Method:**	3050	**Prep Date:**	08/16/11	**Prep Batch:**	3407
Matrix:	**Soil**	**Analytical Method:**	SW6010B	**Analyzed Date:**	08/17/11	**Analytical Batch:**	406312
Spiked Sample:	1108085-015A						
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Sample Conc.**	**Spike Conc.**	**MS % Recovery**	**MSD % Recovery**	**MS/MSD % RPD**	**% Recovery Limits**	**% RPD Limits**	**Lab Qualifier**
Antimony	0.20	5.0	0.00	50	96.1	98.0	1.92	30.7 - 130	30	
Arsenic	0.28	1.7	0.071	50	98.2	97.7	0.191	71 - 121	30	
Barium	1	5.0	2.0	50	44.6	143	33.3	70.2 - 130	30	S,R
Beryllium	0.0840	2.0	0.00	50	94.6	91.2	4.07	73.3 - 115	30	
Cadmium	0.059	1.0	0.00	50	100	100	0.300	68.7 - 110	30	
Chromium	0.059	5.0	0.78	50	97.8	107	4.72	76 - 116	30	
Cobalt	0.14	5.0	0.13	50	95.6	98.7	2.45	57.4 - 122	30	
Copper	0.090	5.0	0.79	50	80.4	160	40.0	74.8 - 119	30	S,R
Lead	0.13	1.0	10	50	-135	432	49.3	67.9 - 118	30	NR
Molybdenum	0.059	5.0	0.00	50	98.1	96.8	1.38	62.9 - 123	30	
Nickel	0.059	5.0	0.66	50	100	106	3.26	61.5 - 122	30	
Selenium	0.29	5.0	0.00	50	94.4	94.7	0.264	62 - 111	30	
Silver	1.0	1.0	0.00	50	103	101	1.86	81.1 - 109	30	
Thallium	0.12	5.0	0.00	50	83.7	84.2	0.631	39.2 - 125	30	
Vanadium	0.12	5.0	0.50	50	105	104	0.388	65.8 - 122	30	
Zinc	0.59	5.0	3.9	50	-122	349	93.5	59.9 - 122	30	S,R

MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/15/11	**Prep Batch:**	3385
Matrix:	**Soil**	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/16/11	**Analytical Batch:**	406316
Spiked Sample:	1108085-020A						
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Sample Conc.**	**Spike Conc.**	**MS % Recovery**	**MSD % Recovery**	**MS/MSD % RPD**	**% Recovery Limits**	**% RPD Limits**	**Lab Qualifier**
Phenol	0.129	0.33	0.000	1.667	41.8	32.2	26.4	16 - 98.6	30	
2-Chlorophenol	0.129	0.33	0.000	1.667	52.1	45.6	13.5	12.9 - 91.3	30	
1,4-Dichlorobenzene	0.0663	0.33	0.000	0.833	63.7	64.6	1.27	21.9 - 79.8	30	
N-Nitroso-di-n-propylamine	0.0931	0.33	0.000	1.667	28.9	25.0	14.8	15.5 - 116	30	
1,2,4-Trichlorobenzene	0.0733	0.33	0.000	0.833	67.0	59.8	11.3	31.7 - 85.1	30	
4-Chloro-3-methylphenol	0.102	0.33	0.000	1.667	32.6	28.7	12.6	23.8 - 116	30	
Acenaphthene	0.0964	0.33	0.000	0.833	79.7	68.2	16.0	29.1 - 94.8	30	
4-Nitrophenol	0.0663	0.33	0.000	1.667	71.8	69.0	3.81	10.4 - 131	30	
2,4-Dinitrotoluene	0.0267	0.33	0.000	0.833	61.9	53.5	14.4	30.8 - 124	30	
Pentachlorophenol	0.102	0.33	0.000	1.667	76.4	69.4	9.55	19.9 - 133	30	
Pyrene	0.147	0.33	0.000	0.833	145	130	11.0	34.2 - 127	30	S
Phenol-d6 (S)				50	52.1	43.8		24 - 113		
2-Fluorophenol (S)				50	30.4	29.7		25 - 121		
2,4,6-Tribromophenol (S)				50	52.6	53.3		19 - 122		
Nitrobenzene-d5 (S)				25	70.7	65.5		23 - 120		
2-Fluorobiphenyl (S)				25	77.9	69.6		30 - 115		
p-Terphenyl-d14 (S)				25	92.2	90.0		18 - 137		

MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/18/11	**Prep Batch:**	3432
Matrix:	**Soil**	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/18/11	**Analytical Batch:**	406344
Spiked Sample:	1108085-028A						
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Sample Conc.**	**Spike Conc.**	**MS % Recovery**	**MSD % Recovery**	**MS/MSD % RPD**	**% Recovery Limits**	**% RPD Limits**	**Lab Qualifier**
Phenol	0.131	0.33	0.000	1.667	48.4	47.4	1.83	16 - 98.6	30	
2-Chlorophenol	0.131	0.33	0.000	1.667	53.1	52.4	1.23	12.9 - 91.3	30	
1,4-Dichlorobenzene	0.0673	0.33	0.000	0.833	57.1	55.2	3.36	21.9 - 79.8	30	
N-Nitroso-di-n-propylamine	0.0945	0.33	0.000	1.667	21.8	20.4	6.41	15.5 - 116	30	
1,2,4-Trichlorobenzene	0.0744	0.33	0.000	0.833	54.6	49.8	9.27	31.7 - 85.1	30	
4-Chloro-3-methylphenol	0.104	0.33	0.000	1.667	44.4	48.7	9.61	23.8 - 116	30	
Acenaphthene	0.0978	0.33	0.000	0.833	62.8	64.8	3.08	29.1 - 94.8	30	
4-Nitrophenol	0.0673	0.33	0.000	1.667	60.7	73.9	19.6	10.4 - 131	30	
2,4-Dinitrotoluene	0.0271	0.33	0.000	0.833	38.3	53.0	32.0	30.8 - 124	30	
Pentachlorophenol	0.104	0.33	0.000	1.667	76.0	92.6	19.7	19.9 - 133	30	
Pyrene	0.149	0.33	0.000	0.833	208	208	0.419	34.2 - 127	30	S
Phenol-d6 (S)				50	66.0	41.1		24 - 113		
2-Fluorophenol (S)				50	58.0	37.5		25 - 121		
2,4,6-Tribromophenol (S)				50	56.5	49.6		19 - 122		
Nitrobenzene-d5 (S)				25	52.1	46.7		23 - 120		
2-Fluorobiphenyl (S)				25	56.6	54.0		30 - 115		
p-Terphenyl-d14 (S)				25	97.9	84.6		18 - 137		

Work Order:	1108085	**Prep Method:**	3545_TPHSG	**Prep Date:**	08/16/11	**Prep Batch:**	3403
Matrix:	**Soil**	**Analytical Method:**	SW8015B(M)	**Analyzed Date:**	08/19/11	**Analytical Batch:**	406345
Spiked Sample:	1108085-002A						
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Sample Conc.**	**Spike Conc.**	**MS % Recovery**	**MSD % Recovery**	**MS/MSD % RPD**	**% Recovery Limits**	**% RPD Limits**	**Lab Qualifier**
TPH as Diesel (SG)	0.76	2.0	20.407	33.33	71.5	72.2	0.958	50.8 - 111	30	
Pentacosane (S)				100	81.7	87.3		61.5 - 133		

Work Order:	1108085	**Prep Method:**	7471	**Prep Date:**	08/22/11	**Prep Batch:**	3453
Matrix:	**Soil**	**Analytical Method:**	7471B	**Analyzed Date:**	08/23/11	**Analytical Batch:**	406366
Spiked Sample:	1108085-002A						
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Sample Conc.**	**Spike Conc.**	**MS % Recovery**	**MSD % Recovery**	**MS/MSD % RPD**	**% Recovery Limits**	**% RPD Limits**	**Lab Qualifier**
Mercury	0.01	0.10	0.00053	1.25	108	108	0.120	60 - 140	30	

MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1108085	**Prep Method:**	3050	**Prep Date:**	08/22/11	**Prep Batch:**	3460
Matrix:	**Soil**	**Analytical Method:**	SW6010B	**Analyzed Date:**	08/23/11	**Analytical Batch:**	406377
Spiked Sample:	1108085-002A						
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Sample Conc.**	**Spike Conc.**	**MS % Recovery**	**MSD % Recovery**	**MS/MSD % RPD**	**% Recovery Limits**	**% RPD Limits**	**Lab Qualifier**
Antimony	0.20	5.0	0.100	50	92.8	92.4	0.584	30.7 - 130	30	
Arsenic	0.28	1.7	1.3	50	85.8	84.2	0.837	71 - 121	30	
Barium	1	5.0	3.4	50	-61.2	-27.6	11.3	70.2 - 130	30	S
Beryllium	0.0840	2.0	-0.015	50	98.3	97.2	0.861	73.3 - 115	30	
Cadmium	0.059	1.0	0.034	50	96.8	94.3	2.34	68.7 - 110	30	
Chromium	0.059	5.0	0.42	50	105	100	3.46	76 - 116	30	
Cobalt	0.14	5.0	0.096	50	97.9	95.9	2.34	57.4 - 122	30	
Copper	0.090	5.0	0.46	50	96.8	89.8	5.16	74.8 - 119	30	
Lead	0.13	1.0	0.44	50	81.5	81.3	0.557	67.9 - 118	30	
Molybdenum	0.059	5.0	0.019	50	99.7	98.6	1.48	62.9 - 123	30	
Nickel	0.059	5.0	0.30	50	98.9	95.2	2.99	61.5 - 122	30	
Selenium	0.29	5.0	0.0049	50	87.9	90.9	3.34	62 - 111	30	
Silver	1.0	1.0	0.023	50	102	96.2	5.40	81.1 - 109	30	
Thallium	0.12	5.0	-0.039	50	85.1	85.7	0.679	39.2 - 125	30	
Vanadium	0.12	5.0	0.54	50	103	93.7	6.10	65.8 - 122	30	
Zinc	0.59	5.0	0.35	50	96.4	85.7	8.18	59.9 - 122	30	

Work Order:	1108085	**Prep Method:**	WET/3010B	**Prep Date:**	08/24/11	**Prep Batch:**	3488
Matrix:	**Soil**	**Analytical Method:**	SW6010B	**Analyzed Date:**	08/25/11	**Analytical Batch:**	406420
Spiked Sample:	1108085-015A						
Units:	mg/L						

Parameters	**MDL**	**PQL**	**Sample Conc.**	**Spike Conc.**	**MS % Recovery**	**MSD % Recovery**	**MS/MSD % RPD**	**% Recovery Limits**	**% RPD Limits**	**Lab Qualifier**
Lead (STLC)	0.0500	0.10	0.339	10	87.1	89.6	2.04	75 - 125	20	

Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.

Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.

Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)

Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.

Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)

Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.

Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero

Practical Quantitation Limit (PQL) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.

Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates

Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis

Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.

Units: the unit of measure used to express the reported result - **mg/L** and ***mg/Kg*** (equivalent to PPM - parts per million in **liquid** and ***solid***), **ug/L** and ***ug/Kg*** (equivalent to PPB - parts per billion in **liquid** and ***solid***), **ug/m3**, ***mg.m3***, **ppbv** and ***ppmv*** (all units of measure for reporting concentrations in air), **%** (equivalent to 10000 ppm or 1,000,000 ppb), **ug/Wipe** (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

LABORATORY QUALIFIERS:

B - Indicates when the anlayte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
H- Indicates that the recommended holding time for the analyte or compound has been exceeded
J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
NA - Not Analyzed
N/A - Not Applicable
NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

Sample Receipt Checklist

Client Name: Northgate Environmental Management Inc.

Project Name: 800 Cedar St. , Oakland, CA

Work Order No.: 1108085

Date and Time Received: 8/11/2011 16:35

Received By: NK

Physically Logged By: NG

Checklist Completed By: NG

Carrier Name: First Courier

Chain of Custody (COC) Information

Chain of custody present?	Yes
Chain of custody signed when relinquished and received?	Yes
Chain of custody agrees with sample labels?	Yes
Custody seals intact on sample bottles?	Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Not Present
Shipping Container/Cooler In Good Condition?	Yes
Samples in proper container/bottle?	Yes
Samples containers intact?	Yes
Sufficient sample volume for indicated test?	Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes			
Container/Temp Blank temperature in compliance?	Yes	Temperature:	5	°C
Water-VOA vials have zero headspace?	No VOA vials submitted			
Water-pH acceptable upon receipt?				

pH Checked by:

pH Adjusted by:

Login Summary Report

Client ID: TL5143 Northgate Environmental Management Inc.

QC Level:

Project Name: 800 Cedar St. , Oakland, CA

TAT Requested: 5+ day:0

Project # : 1204.18

Date Received: 8/11/2011

Report Due Date: 8/26/2011

Time Received: 16:35

Comments: On 08/11/2011, 44 samples received @5'C on 5 day TAT.
Per client request via email on 08/19/11 CAM 17 analysis added on samples: 002A,006A.010A,013A,016A,019A,023A,026A,029A,033A,036A,039A and 043A(Previously on Hold). Due 08/26/2011.
Per client request via email on 08/19/11 STLC Pb added on samples: 001A,004A,005A,008A,015A,018A,031A,035A and 042A. Due 08/26/2011.

Work Order # : ***1108085***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1108085-001A	NG-1-1.0	08/11/11 8:50	Soil	02/07/12			EDD S_7471BHG S_6010B(STLC) S_TPHDOSG S_6010BCAM17	

Sample Note: Per client request via email on 08/19/11 CAM 17 analysis added on samples: 002A,006A.010A,013A,016A,019A,023A,026A,029A,033A,036A,039A and 043A(Previously on Hold). Due 08/26/2011.
Per client request via email on 08/19/11 STLC Pb added on samples: 001A,004A,005A,008A,015A,018A,031A,035A and 042A. Due 08/26/2011.

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1108085-002A	NG-1-3.0	08/11/11 8:55	Soil	02/07/12			S_7471BHG S_TPHDOSG S_6010BCAM17	

Sample Note: For all samples requiring TEPH, please analyze for Diesel and Motor Oil with Silica Gel clean up. Cam 17 analysis on hold.

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1108085-003A	NG-1-5.0	08/11/11 9:00	Soil	02/07/12			S_TPHDOSG	
1108085-004A	NG-2-1.0	08/11/11 9:25	Soil	02/07/12			S_6010B(STLC) S_6010BCAM17 S_7471BHG S_TPHDOSG	
1108085-005A	NG-2-1.0 D	08/11/11 9:25	Soil	02/07/12			S_6010B(STLC) S_TPHDOSG S_6010BCAM17 S_7471BHG	

Sample Note: Take sample from the other end of 004A

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1108085-006A	NG-2-3.0	08/11/11 9:30	Soil	02/07/12			S_7471BHG S_6010BCAM17 S_TPHDOSG	

Torrent LABORATORY, INC.

Login Summary Report

Client ID:	TL5143	Northgate Environmental Management Inc.	**QC Level:**	
Project Name:	800 Cedar St. , Oakland, CA		**TAT Requested:**	5+ day:0
Project # :	1204.18		**Date Received:**	8/11/2011
Report Due Date:	8/26/2011		**Time Received:**	16:35

Comments: On 08/11/2011, 44 samples received @5'C on 5 day TAT.
Per client request via email on 08/19/11 CAM 17 analysis added on samples: 002A,006A.010A,013A,016A,019A,023A,026A,029A,033A,036A,039A and 043A(Previously on Hold). Due 08/26/2011.
Per client request via email on 08/19/11 STLC Pb added on samples: 001A,004A,005A,008A,015A,018A,031A,035A and 042A. Due 08/26/2011.

Work Order # : ***1108085***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
Sample Note:	Cam 17 analysis on hold.							
1108085-007A	NG-2-5.0	08/11/11 9:35	Soil	02/07/12			S_TPHDOSG	
1108085-008A	NG-3-1.0	08/11/11 9:40	Soil	02/07/12			S_6010B(STLC) S_7471BHG S_6010BCAM17 S_TPHDOSG	
1108085-009A	NG-3-1.0 D	08/11/11 9:40	Soil	02/07/12			S_TPHDOSG	
1108085-010A	NG-3-3.0	08/11/11 9:45	Soil	02/07/12			S_7471BHG S_TPHDOSG S_6010BCAM17	
Sample Note:	Cam 17 analysis on hold.							
1108085-011A	NG-3-5.0	08/11/11 9:50	Soil	02/07/12			S_TPHDOSG	
1108085-012A	NG-4-1.0	08/11/11 9:55	Soil	02/07/12			S_7471BHG S_6010BCAM17 S_TPHDOSG	
1108085-013A	NG-4-3.0	08/11/11 10:00	Soil	02/07/12			S_7471BHG S_6010BCAM17 S_TPHDOSG	
Sample Note:	Cam 17 analysis on hold.							
1108085-014A	NG-4-5.0	08/11/11 10:05	Soil	02/07/12			S_TPHDOSG	
1108085-015A	NG-5-1.0	08/11/11 10:10	Soil	02/07/12			S_6010B(STLC) S_6010BCAM17 S_TPHDOSG	

Login Summary Report

Client ID:	TL5143	Northgate Environmental Management Inc.	**QC Level:**	
Project Name:	800 Cedar St. , Oakland, CA		**TAT Requested:**	5+ day:0
Project # :	1204.18		**Date Received:**	8/11/2011
Report Due Date:	8/26/2011		**Time Received:**	16:35

Comments: On 08/11/2011, 44 samples received @5'C on 5 day TAT.
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002A,006A.010A,013A,016A,019A,023A,026A,029A,033A,036A,039A and 043A(Previously on Hold). Due 08/26/2011.
Per client request via email on 08/19/11 STLC Pb added on samples: 001A,004A,005A,008A,015A,018A,031A,035A and 042A. Due 08/26/2011.

Work Order # : ***1108085***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
							S_7471BHG	
1108085-016A	NG-5-3.0	08/11/11 10:15	Soil	02/07/12				
							S_7471BHG S_TPHDOSG S_6010BCAM17	
1108085-017A	NG-5-5.0	08/11/11 10:20	Soil	02/07/12				
							S_TPHDOSG	
1108085-018A	NG-6-1.0	08/11/11 10:25	Soil	02/07/12				
							S_6010B(STLC) S_7471BHG S_8270Full S_6010BCAM17	
1108085-019A	NG-6-3.0	08/11/11 10:30	Soil	02/07/12				
							S_7471BHG S_6010BCAM17 S_8270Full	
1108085-020A	NG-6-5.0	08/11/11 10:35	Soil	02/07/12				
							S_8270Full	
1108085-021A	NG-7-1.0	08/11/11 10:40	Soil	02/07/12				
							S_7471BHG S_8270Full S_6010BCAM17	
1108085-022A	NG-7-1.0 D	08/11/11 10:40	Soil	02/07/12				
							S_8270Full	
Sample Note:	Take sample from the other end of 021A							
1108085-023A	NG-7-3.0	08/11/11 10:45	Soil	02/07/12				
							S_7471BHG S_6010BCAM17 S_8270Full	
1108085-024A	NG-7-5.0	08/11/11 10:50	Soil	02/07/12				
							S_8270Full	
1108085-025A	NG-8-1.0	08/11/11 10:55	Soil	02/07/12				
							S_7471BHG	

Torrent LABORATORY, INC.

Login Summary Report

Client ID:	TL5143	Northgate Environmental Management Inc.	**QC Level:**	
Project Name:	800 Cedar St. , Oakland, CA		**TAT Requested:**	5+ day:0
Project # :	1204.18		**Date Received:**	8/11/2011
Report Due Date:	8/26/2011		**Time Received:**	16:35

Comments: On 08/11/2011, 44 samples received @5'C on 5 day TAT.
Per client request via email on 08/19/11 CAM 17 analysis added on samples:
002A,006A.010A,013A,016A,019A,023A,026A,029A,033A,036A,039A and 043A(Previously on Hold). Due 08/26/2011.
Per client request via email on 08/19/11 STLC Pb added on samples: 001A,004A,005A,008A,015A,018A,031A,035A and 042A. Due 08/26/2011.

Work Order # : ***1108085***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
							S_6010BCAM17 S_8270Full	
1108085-026A	NG-8-3.0	08/11/11 11:00	Soil	02/07/12				
							S_7471BHG S_6010BCAM17 S_8270Full	
1108085-027A	NG-8-5.0	08/11/11 11:05	Soil	02/07/12				
							S_8270Full	
1108085-028A	NG-9-1.0	08/11/11 11:10	Soil	02/07/12				
							S_7471BHG S_6010BCAM17 S_8270Full	
1108085-029A	NG-9-3.0	08/11/11 11:15	Soil	02/07/12				
							S_7471BHG S_6010BCAM17 S_8270Full	
1108085-030A	NG-9-5.0	08/11/11 11:20	Soil	02/07/12				
							S_8270Full	
1108085-031A	NG-10-1.0	08/11/11 11:25	Soil	02/07/12				
							S_6010B(STLC) S_6010BCAM17 S_8270Full S_7471BHG	
1108085-032A	NG-10-1.0 D	08/11/11 11:25	Soil	02/07/12				
							S_8270Full	
Sample Note:	Take sample from the other end of 031A							
1108085-033A	NG-10-3.0	08/11/11 11:30	Soil	02/07/12				
							S_7471BHG S_6010BCAM17 S_8270Full	
1108085-034A	NG-10-5.0	08/11/11 11:35	Soil	02/07/12				
							S_8270Full	
1108085-035A	NG-11-1.0	08/11/11 11:40	Soil	02/07/12				

Torrent
LABORATORY, INC.

Login Summary Report

Client ID:	TL5143	Northgate Environmental Management Inc.	**QC Level:**	
Project Name:	800 Cedar St. , Oakland, CA		**TAT Requested:**	5+ day:0
Project # :	1204.18		**Date Received:**	8/11/2011
Report Due Date:	8/26/2011		**Time Received:**	16:35

Comments: On 08/11/2011, 44 samples received @5'C on 5 day TAT.
Per client request via email on 08/19/11 CAM 17 analysis added on samples: 002A,006A.010A,013A,016A,019A,023A,026A,029A,033A,036A,039A and 043A(Previously on Hold). Due 08/26/2011.
Per client request via email on 08/19/11 STLC Pb added on samples: 001A,004A,005A,008A,015A,018A,031A,035A and 042A. Due 08/26/2011.

Work Order # : ***1108085***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
							S_6010B(STLC) S_8270Full S_7471BHG S_6010BCAM17	
1108085-036A	NG-11-3.0	08/11/11 11:45	Soil	02/07/12			S_7471BHG S_6010BCAM17 S_8270Full	
1108085-037A	NG-11-5.0	08/11/11 11:50	Soil	02/07/12			S_8270Full	
1108085-038A	NG-12-1.0	08/11/11 11:55	Soil	02/07/12			S_7471BHG S_8270Full S_6010BCAM17	
1108085-039A	NG-12-3.0	08/11/11 12:00	Soil	02/07/12			S_7471BHG S_8270Full S_6010BCAM17	
1108085-040A	NG-12-5.0	08/11/11 12:05	Soil	02/07/12			S_8270Full	
1108085-041A	NG-13-1.0	08/11/11 12:10	Soil	02/07/12			S_6010BAs/Pb S_7471BHG S_6010BCAM17 S_8270Full	
1108085-042A	NG-13-1.0 D	08/11/11 12:10	Soil	02/07/12			S_6010B(STLC) S_7471BHG S_6010BCAM17 S_8270Full	
Sample Note:	Take sample from the other end of 041A							
1108085-043A	NG-13-3.0	08/11/11 12:15	Soil	02/07/12			S_7471BHG	

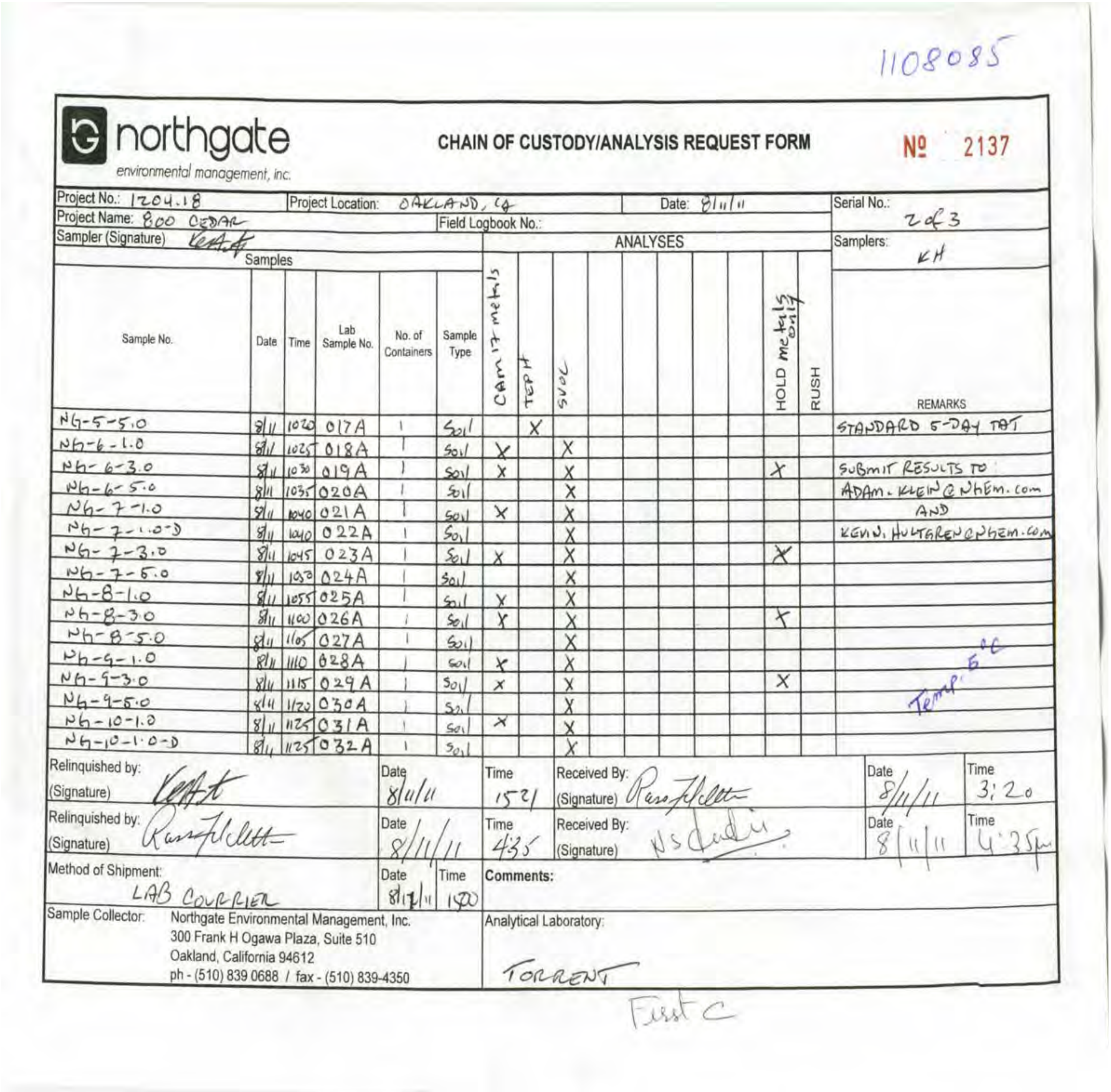
Login Summary Report

Client ID:	TL5143 Northgate Environmental Management Inc.	**QC Level:**	
Project Name:	800 Cedar St. , Oakland, CA	**TAT Requested:**	5+ day:0
Project # :	1204.18	**Date Received:**	8/11/2011
Report Due Date:	8/26/2011	**Time Received:**	16:35

Comments: On 08/11/2011, 44 samples received @5'C on 5 day TAT.
Per client request via email on 08/19/11 CAM 17 analysis added on samples:
002A,006A.010A,013A,016A,019A,023A,026A,029A,033A,036A,039A and 043A(Previously on Hold). Due 08/26/2011.
Per client request via email on 08/19/11 STLC Pb added on samples: 001A,004A,005A,008A,015A,018A,031A,035A and 042A. Due 08/26/2011.

Work Order # : ***1108085***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1108085-044A	NG-13-5.0	08/11/11 12:20	Soil	02/07/12			S_6010BCAM17 S_8270Full S_8270Full	



1108085

northgate
environmental management, inc.

CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

№ 2137

Project No.: 1204.18
Project Location: OAKLAND, CA
Date: 8/11/11
Serial No.: 2 of 3
Project Name: 800 CEDAR
Field Logbook No.:
Sampler (Signature)
Samplers: KH

Sample No.	Date	Time	Lab Sample No.	No. of Containers	Sample Type	CAM 17 metals	TEPH	SVOC						HOLD metals only	RUSH	REMARKS
NG-5-5.0	8/11	1020	017A	1	Soil		X									STANDARD 5-DAY TAT
NG-6-1.0	8/11	1025	018A	1	Soil	X		X								
NG-6-3.0	8/11	1030	019A	1	Soil	X		X						X		SUBMIT RESULTS TO:
NG-6-5.0	8/11	1035	020A	1	Soil			X								ADAM.KLEIN@NGEM.com
NG-7-1.0	8/11	1040	021A	1	Soil	X		X								AND
NG-7-1.0-D	8/11	1040	022A	1	Soil			X								KEVIN.HULTGREN@NGEM.com
NG-7-3.0	8/11	1045	023A	1	Soil	X		X						X		
NG-7-5.0	8/11	1050	024A	1	Soil			X								
NG-8-1.0	8/11	1055	025A	1	Soil	X		X								
NG-8-3.0	8/11	1100	026A	1	Soil	X		X						X		
NG-8-5.0	8/11	1105	027A	1	Soil			X								
NG-9-1.0	8/11	1110	028A	1	Soil	X		X								Temp: 6 °C
NG-9-3.0	8/11	1115	029A	1	Soil	X		X						X		
NG-9-5.0	8/11	1120	030A	1	Soil			X								
NG-10-1.0	8/11	1125	031A	1	Soil	X		X								
NG-10-1.0-D	8/11	1125	032A	1	Soil			X								

Relinquished by: (Signature) Date 8/11/11 Time 1521 Received By: (Signature) Date 8/11/11 Time 3:20

Relinquished by: (Signature) Date 8/11/11 Time 4:35 Received By: (Signature) Date 8/11/11 Time 4:35pm

Method of Shipment: LAB COURIER Date 8/12/11 Time 1500

Comments:

Sample Collector: Northgate Environmental Management, Inc.
300 Frank H Ogawa Plaza, Suite 510
Oakland, California 94612
ph - (510) 839 0688 / fax - (510) 839-4350

Analytical Laboratory: TORRENT

First C

1108085
~~H08084~~

northgate
environmental management, inc.

CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

№ 2138

Project No.: 1204.18	Project Location: OAKLAND, CA	Date: 8/11/11	Serial No.: 3 of 3
Project Name: 800 CEDAR	Field Logbook No.:		
Sampler (Signature)	ANALYSES		Samplers: KH

Sample No.	Date	Time	Lab Sample No.	No. of Containers	Sample Type	CAM 17 metals	SVOC							HOLD metals only	RUSH	REMARKS
NG-10-3.0	1130	8/11	033A	1	Soil	X	X							X		STANDARD 5-DAY TAT
NG-10-5.0	1135	8/11	034A	1	Soil		X									
NG-11-1.0	1140	8/11	035A	1	Soil	X	X									SUBMIT RESULTS TO:
NG-11-3.0	1145	8/11	036A	1	Soil	X	X							X		ADAM.KLEIN@NGEM.com
NG-11-5.0	1150	8/11	037A	1	Soil		X									AND
NG-12-1.0	1155	8/11	038A	1	Soil	X	X									KEVIN.HULTGREN@NGEM.com
NG-12-3.0	1200	8/11	039A	1	Soil	X	X							X		
NG-12-5.0	1205	8/11	040A	1	Soil		X									
NG-13-1.0	1210	8/11	041A	1	Soil	X	X									
NG-13-~~1~~.0-D	1210	8/11	042A	1	Soil	X	X									
NG-13-3.0	1215	8/11	043A	1	Soil	X	X							X		
NG-13-5.0	1220	8/11	044A	1	Soil		X									

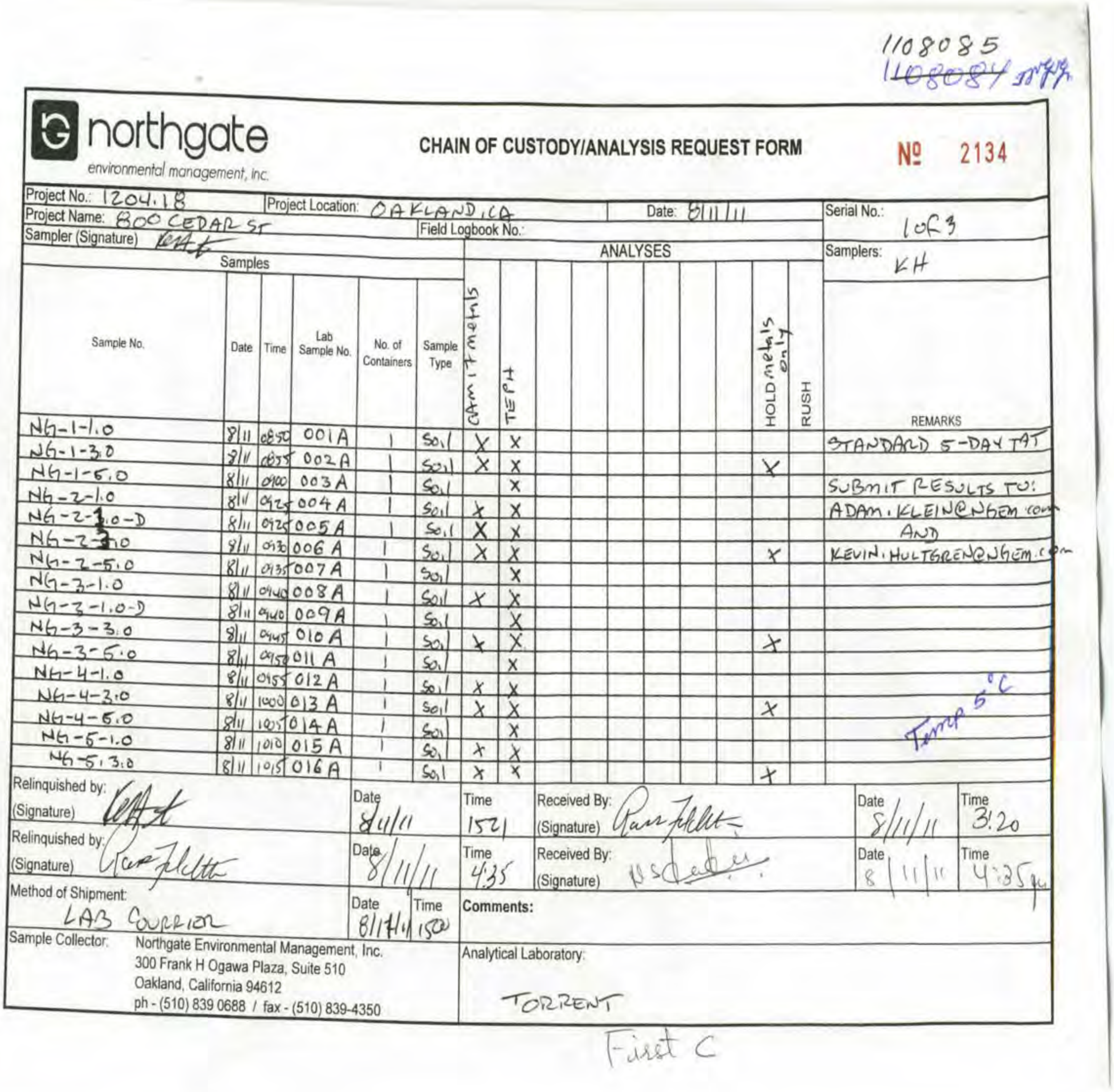
Temp. 5°C

Relinquished by: (Signature)	Date 8/11/11	Time 1521	Received By: (Signature)	Date 8/11/11	Time 3:20
Relinquished by: (Signature) Ron Feldlett	Date 8/11/11	Time 4:35	Received By: (Signature)	Date 8/11/11	Time 4:35
Method of Shipment: LAB COURIER	Date 8/11/11	Time 1500	Comments:		

Sample Collector: Northgate Environmental Management, Inc.
300 Frank H Ogawa Plaza, Suite 510
Oakland, California 94612
ph - (510) 839 0688 / fax - (510) 839-4350

Analytical Laboratory: TORRENT

First C.



1108085
~~1108084~~

northgate
environmental management, inc.

CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

№ 2134

Project No.: 1204.18
Project Location: OAKLAND, CA
Date: 8/11/11
Serial No.: 1 of 3
Project Name: 800 CEDAR ST
Field Logbook No.:
Sampler (Signature):
Samplers: KH

Sample No.	Date	Time	Lab Sample No.	No. of Containers	Sample Type	CAM 17 metals	TEPH							HOLD metals only	RUSH	REMARKS
NG-1-1.0	8/11	0850	001A	1	Soil	X	X									STANDARD 5-DAY TAT
NG-1-3.0	8/11	0855	002A	1	Soil	X	X							X		
NG-1-5.0	8/11	0900	003A	1	Soil		X									SUBMIT RESULTS TO:
NG-2-1.0	8/11	0925	004A	1	Soil	X	X									ADAM.KLEIN@NGEM.COM
NG-2-1.0-D	8/11	0925	005A	1	Soil	X	X									AND
NG-2-3.0	8/11	0930	006A	1	Soil	X	X							X		KEVIN.HULTGREN@NGEM.COM
NG-2-5.0	8/11	0935	007A	1	Soil		X									
NG-3-1.0	8/11	0940	008A	1	Soil	X	X									
NG-3-1.0-D	8/11	0940	009A	1	Soil		X									
NG-3-3.0	8/11	0945	010A	1	Soil	X	X							X		
NG-3-5.0	8/11	0950	011A	1	Soil		X									
NG-4-1.0	8/11	0955	012A	1	Soil	X	X									
NG-4-3.0	8/11	1000	013A	1	Soil	X	X							X		Temp 5°C
NG-4-5.0	8/11	1005	014A	1	Soil		X									
NG-5-1.0	8/11	1010	015A	1	Soil	X	X									
NG-5-3.0	8/11	1015	016A	1	Soil	X	X							X		

Relinquished by: (Signature)	Date 8/11/11	Time 1521	Received By: (Signature)	Date 8/11/11	Time 3:20
Relinquished by: (Signature)	Date 8/11/11	Time 4:35	Received By: (Signature)	Date 8/11/11	Time 4:35pm
Method of Shipment: LAB COURIER	Date 8/11/11	Time 1520	Comments:		

Sample Collector: Northgate Environmental Management, Inc.
300 Frank H Ogawa Plaza, Suite 510
Oakland, California 94612
ph - (510) 839 0688 / fax - (510) 839-4350

Analytical Laboratory: TORRENT

First C

From: "Kevin Hultgren" <kevin.hultgren@ngem.com>
Subject: RE: Preliminary Results for Project 1204.18/WO1108085
Date: Fri, August 19, 2011 4:14 pm
To: pm@torrentlab.com
Cc: adam.klein@ngem.com

Go ahead and run the STLC/WET test for Lead on the samples listed previously
on a standard turn around.
Thanks,
Kevin

-----Original Message-----
From: pm@torrentlab.com [mailto:pm@torrentlab.com]
Sent: Friday, August 19, 2011 3:01 PM
To: Kevin Hultgren
Subject: RE: Preliminary Results for Project 1204.18/WO1108085

Hi Kevin,
Yes, we can add WET test on the requested samples and we will analyze the
samples on HOLD for CAM 17.
I will have sales department help you with the pricing.

Thank you!

Kind Regards,
Guergana

On Fri, August 19, 2011 2:11 pm, Kevin Hultgren wrote:
> Is it possible to run a WET test for Lead on 9 of the samples that have
> already been analyzed? The specific samples are:
> NG-1-1.0
> NG-2-1.0
> NG-2-1.0-D
> NG-3-1.0
> NG-5-1.0
> NG-6-1.0
> NG-10-1.0
> NG-11-1.0
> NG-13-1.0-D
> May I get a price for running this analysis?
> We would like to analyze the metals samples that were placed on hold on a
> 5-day turn around
> Please call if you have any questions.
> Thanks,
> Kevin
> 510-529-9861
>
>
> -----Original Message-----
> From: Torrent Laboratory, Inc. [mailto:pm@torrentlab.com]
> Sent: Friday, August 19, 2011 10:36 AM
> To: Kevin Hultgren
> Subject: RE: Preliminary Results for Project 1204.18/WO1108085
>
>
> Hi Kevin,
>
>
>
> Please let me know what TAT would you like on this samples.
>

>
> Thank you and have a nice day!
>
>
> Kind Regards,
> Guergana
>
>
>
>
> Thank you for the report.
>
>
> We would like to have you analyze the metals samples that were placed on
> hold as well.
>
> Please let me know if you have any questions.
>
>
> Regards,
>
>
> Kevin Hultgren
>
>
> 510-529-9861
> On Fri, August 19, 2011 9:48 am, Kevin Hultgren wrote:
>
>>
>
>>
>
>
> Warm regards,
>
>
> Project Management Team
> Torrent Laboratory, Inc.
> 483 Sinclair Frontage Rd
> Milpitas, CA 95035
> PH:(408)263-5258; Nutan x209, Patti x208, Stacy 707-206-0216
> Fax:(408)263-8293
> Email: pm@torrentlab.com
> www.torrentlab.com
>
>
> Visit us at our newly re-developed website!! www.torrentlab.com
>
>
> The contents of this message are confidential and are bound by law from
> disclosure, tampering, or any other use by a third party.
>
> If you are not the intended recipient of this message and its contents,
> please contact us immediately at (408) 263-5258 and delete the message and
> its contents.
>
>
>
>

Warm regards,

Project Management Team
Torrent Laboratory, Inc.

483 Sinclair Frontage Rd
Milpitas, CA 95035
PH:(408)263-5258 Nutan x209, Stacy x204, Patti x208
Fax:(408)263-8293
Email: pm@torrentlab.com
www.torrentlab.com

SOIL STOCKPILE SAMPLING REPORT

800 CEDAR STREET
OAKLAND, CALIFORNIA

PREPARED FOR:
CALIFORNIA DEPARTMENT OF TRANSPORTATION
DISTRICT 4
OFFICE OF ENVIRONMENTAL ENGINEERING
111 GRAND AVENUE, MS8C
OAKLAND, CA 94612

PREPARED BY:
GEOCON CONSULTANTS, INC.
6671 BRISA STREET
LIVERMORE, CA 94550

GEOCON PROJECT NO. E8560-02-55
CALTRANS EA 04-0R0002
CALTRANS PROJECT # 04-0000-0347-2

DECEMBER 2013

TABLE OF CONTENTS

SOIL STOCKPILE SAMPLING REPORT PAGE

TABLE OF CONTENTS
(continued)

FIGURES

TABLES

APPENDICES

REPORT LIMITATIONS

This report has been prepared exclusively for the State of California Department of Transportation (Caltrans) District 4. The information contained herein is only valid as of the date of the report and will require an update to reflect additional information obtained.

This report is not a comprehensive site characterization and should not be construed as such. The findings as presented in this report are predicated on the results of the limited sampling and laboratory testing performed. In addition, the information obtained is not intended to address potential impacts related to sources other than those specified herein. Therefore, the report should be deemed conclusive with respect to only the information obtained. We make no warranty, express or implied, with respect to the content of this report or any subsequent reports, correspondence or consultation. Geocon strived to perform the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.

The contents of this report reflect the views of the author who is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.

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CALIFORNIA DEPARTMENT OF TRANSPORTATION – DISTRICT 4
OFFICE OF ENVIRONMENTAL ENGINEERING

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SOIL STOCKPILE SAMPLING REPORT

1.0 INTRODUCTION

This Soil Sampling Report for the 800 Cedar Street Stockpile Sampling Project in Oakland, California was prepared by Geocon Consultants, Inc. under California Department of Transportation (Caltrans) Contract No. 04A3578 and Task Order No. 55 (TO-55), EA 04-0R0002.

1.1 Project Description and Proposed Improvements

The 800 Cedar Street Stockpile Sampling Project consists of soil sampling of the stockpiled soil located at the intersection of 9th and Pine Streets (APN 0006-047-001), historically identified as 800 Cedar Street in Oakland, California. Caltrans has used the approximately five-acre parcel of land for temporary storage of construction material. Additionally, a soil brokerage business operated on site and stockpiled soil was abandoned when the business closed. Caltrans plans to remove the stockpiled soil. The project location is depicted on the attached Vicinity Map, Figure 1.

1.2 General Objectives

The purpose of the site investigation was to evaluate concentrations of California Assessment Manual 17 (CAM 17) metals, total petroleum hydrocarbons as diesel (TPHd), as motor oil (TPHmo), and as gasoline (TPHg), organochlorine pesticides, polychlorinated biphenyls (PCBs), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and pH in soil.

The information obtained from this investigation will be used by Caltrans to evaluate soil stockpile handling practices, worker health and safety, and soil stockpile reuse and disposal options.

2.0 BACKGROUND

2.1 Hazardous Waste Determination Criteria

Regulatory criteria to classify a waste as California hazardous for handling and disposal purposes are contained in the CCR, Title 22, Division 4.5, Chapter 11, Article 3, §66261.24. Criteria to classify a waste as Resource, Conservation, and Recovery Act (RCRA) hazardous are contained in Chapter 40 of the Code of Federal Regulations (40 CFR), Section 261.

For waste containing metals, the waste is classified as California hazardous when: 1) the representative total metal content equals or exceeds the respective Total Threshold Limit Concentration (TTLC); or 2) the representative soluble metal content equals or exceeds the respective Soluble Threshold Limit Concentration (STLC) based on the standard Waste Extraction Test (WET). A waste has the potential of exceeding the STLC when the waste's total metal content is greater than or equal to ten times the respective STLC value since the WET uses a 1:10 dilution ratio. Hence, when a total metal is detected at a concentration greater than or equal to ten times the respective STLC, and assuming that 100 percent of the total metals are soluble, soluble metal analysis is required. A material is classified as RCRA hazardous, or Federal hazardous, when the representative soluble metal content equals or exceeds the Federal regulatory level based on the Toxicity Characteristic Leaching Procedure (TCLP).

The above regulatory criteria are based on chemical concentrations. Wastes may also be classified as hazardous based on other criteria such as ignitability and corrosivity; however, for the purposes of this investigation, toxicity (i.e., representative lead concentrations) is the primary factor considered for waste classification since waste generated during the construction activities would not likely warrant testing for ignitability or other criteria. Waste that is classified as either California hazardous or RCRA hazardous requires management as a hazardous waste.

2.2 Environmental Screening Levels

The San Francisco Bay Regional Water Quality Control Board (SFRWQCB) has prepared a technical report entitled *User's Guide: Derivation and Application of Environmental Screening Levels, Interim Final 2013* (updated December 2013), which presents Environmental Screening Levels (ESLs) for over 100 commonly found contaminants in soil, groundwater, soil gas, and surface water, to assist in evaluating sites impacted by releases of hazardous chemicals. "The ESLs are considered to be protective for typical bay area sites. Under most circumstances, …the presence of a chemical is soil, soil gas, or groundwater at concentrations below the corresponding ESL can be assumed to not pose a significant threat to human health, water resources, or the environment." (SFRWQCB, December 2013). ESLs are risk assessment tools and are "not intended to serve as a rule to determine if a waste is hazardous under the state or federal regulations."

Residential and commercial/industrial land use ESLs are commonly used by contractors, soil trucking companies, and private and commercial land owners as default acceptance criteria to evaluate suitability of import soil material. The following ESL tables were used for this characterization:

- Table A. Shallow Soil (≤3m bgs), Groundwater is a Current or Potential Source of Drinking Water
- Table K-3. Direct Exposure Soil Screening Levels, Construction/Trench Worker Exposure Scenario.

The respective ESLs are listed at the end of Tables 3 to 6 for comparative purposes.

3.0 SCOPE OF SERVICES

The scope of services performed under TO-55, EA 04-0R0002 included the following:

3.1 Pre-field Activities

- Prepared the *Preliminary Site Investigation Workplan* and *Health and Safety Plan*, dated September 2013.
- Retained the services of Advanced Technology Laboratories, Las Vegas (ATL-LV), a Caltrans-approved and California-certified analytical laboratory, to perform the chemical analyses of soil samples.

3.2 Field Activities

The field investigation was performed on September 11 and 12, 2013, by Geocon staff. The following field activities were performed during the sampling efforts:

- Advanced 41 soil borings into 4 stockpiles (Stockpile 1 through Stockpile 4) at the project location using hand-auger and direct-push drilling techniques to collect soil samples. The borings were advanced to a maximum depth of 16 feet.

All samples were transported to a California-certified environmental laboratory for analysis under standard chain-of-custody (COC) documentation.

4.0 INVESTIGATIVE METHODS

4.1 Sampling Procedure

Soil samples were collected using a direct-push sample rig or hand-auger sampling techniques from 41 locations identified by the Caltrans TO Manager. Samples collected from the 37 borings located in Stockpile 1 through Stockpile 3 were collected at multiple depths determined by the Task Order Manager. Four discrete samples were collected from Stockpile 4. Each of the four samples was collected from a different quadrant of the stockpile at depths determined by the Task Order Manager. Sampling coordinates are presented on Table 1 and locations are shown on the Site Plan, Figure 2.

Soil samples collected using a hand-auger were placed in stainless steel tubes and sealed with Teflon tape and plastic lids prior to being stored in a chest cooled with ice.

Soil samples collected using a direct-push sample rig were obtained by advancing a two-inch-diameter, four-foot-long stainless steel core-barrel sampler lined with an acetate sample tube into soil. Soil samples were collected for laboratory analysis by cutting an approximately six-inch-long section of the acetate tube from the target sample depth, capping the ends with Teflon tape and plastic end caps, and then placing the sample tube in a chest cooled with ice for storage and delivery to the analytical laboratory.

Sample containers were labeled and transported to a Caltrans-approved, certified environmental laboratory using standard COC documentation. Soil borings were backfilled to surface with soil cuttings.

Geocon provided QA/QC procedures during the field activities. These procedures included washing the sampling equipment with a Liqui-Nox® solution followed by a double rinse with deionized water. Decontamination water was disposed of to the ground surface within Caltrans right-of-way in a manner not to create runoff, and away from drain inlets or potential water bodies.

4.2 Laboratory Analyses

Laboratory analyses were performed by ATL-LV under standard turnaround-time (TAT). The laboratory reports and COC documentation are included as Appendix A.

The samples were analyzed as follows:

- 71 samples for total lead using EPA Test Method 6010 ICAP.
- 48 samples for CAM 17 metals according to EPA Test Methods 6010 ICAP and 7471.
- 11 samples for hexavalent chromium using EPA Test Method 3060A.
- 28 samples with total lead concentrations equal to or exceeding 50 mg/kg (i.e., equal to or exceeding ten times the STLC of 5.0 mg/l) were further analyzed for WET lead.
- 12 samples with a total lead concentration equal to or exceeding the TTLC of 1,000 mg/kg or had WET lead concentrations equal to or exceeding 5.0 mg/l were further analyzed for TCLP lead.
- 71 samples for TPHd/mo using EPA Test Method 8015B.
- 42 samples for TPHg using EPA Test Method 8015B.
- 28 samples for Organochlorine pesticides using EPA Test Method 8081A.
- 28 samples for PCBs using EPA Test Method 8082.

- 42 samples for VOCs using EPA Test Method 8260B.
- 71 samples for SVOCs using EPA Test Method 8270CSIM.

4.3 Laboratory QA/QC

QA/QC procedures were performed for each method of analysis with specificity for each analyte listed in the test method's QA/QC. The laboratory QA/QC procedures included the following:

- One method blank for every ten samples, batch of samples or type of matrix, whichever was more frequent.
- One sample analyzed in duplicate for every ten samples, batch of samples or type of matrix, whichever was more frequent.
- One spiked sample for every ten samples, batch of samples or type of matrix; whichever was more frequent, with spike made at ten times the detection limit or at the analyte level.

Prior to submitting the samples to the laboratory, the COC documentation was reviewed for accuracy and completeness.

5.0 INVESTIGATIVE RESULTS

5.1 Soil Description

Four stockpile areas were identified by the Task Order Manager for sampling purposes. These areas are shown on Figure 2 and described below:

Stockpile 1: A total of 28 borings (A1 to E4) were collected from this portion of the site. Stockpile 1 was irregularly shaped and measured up to 200 feet wide, 450 feet long, and 18 feet deep. Soil in Stockpile 1 consisted primarily of medium light brown sandy silt with occasional gravel overlaying and mixing with clays (Bay Mud). The stockpile had been sculpted to allow vehicle access to the top and was sampled using direct-push and hand-auger drilling techniques.

Stockpile 2: A total of 5 borings (G1 to G5) were collected from this portion of the site. Stockpile 2 was mounded and measured up to 20 feet wide, 30 feet long, and 9 feet deep. Soil in Stockpile 2 consisted primarily of medium brown sand covered with older used aggregate base. The stockpile was sampled using hand-auger sampling techniques.

Stockpile 3: A total of 4 borings (H1 to H4) were collected from this portion of the site. Stockpile 3 was mounded and measured up to 10 feet wide, 20 feet long, and 5 feet deep. Soil in Stockpile 3 was clean aggregate base. The stockpile was sampled using hand-auger sampling techniques.

Stockpile 4: Four grab soil samples (N1-0 to N1-3) were taken at various depths and locations from this portion of the site. Stockpile 4 was located immediately adjacent to Stockpile 1 and measured less than 5 feet wide, 5 feet long, and 3 feet deep. Soil in Stockpile 4 consisted primarily of very loose, dark brown sandy clay with organic matter. The stockpile was sampled using hand-auger sampling techniques.

5.2 Laboratory Analytical Results

The analytical results are summarized in Tables 2 to 6 and are summarized below:

- The following metals were not detected above their respective laboratory reporting limits: beryllium, cadmium, silver, and thallium.
- Total chromium was reported at concentrations ranging from 17 to 81 mg/kg.
- WET chromium was reported at concentrations ranging from 0.068 to 0.29 mg/l.
- Total lead was reported at concentrations ranging from 1.1 to 1,900 mg/kg.
- WET lead was reported at concentrations ranging from 0.63 to 30 mg/l.
- TCLP lead was detected in one sample (H1-4) at a concentration of 0.66 mg/l. Remaining TCLP lead samples were non-detect (<0.25 mg/l).
- Remaining CAM 17 metals and hexavalent chromium were reported in the samples at total concentrations below ten times their respective STLCs.
- TPHg was not detected at or above the laboratory detection limit of 1.0 mg/kg.
- TPHd was reported at concentrations ranging from 3.3 to 900 mg/kg.
- TPHmo was reported at concentrations of 7.0 to 2,000 mg/kg.
- Organochlorine pesticides were reported at concentrations ranging from <1.0 µg/kg to 29 µg/kg.
- PCB Aroclor 1254 was reported in one sample at a concentration of 99 mg/kg.
- Remaining PCBs were not detected at or above the laboratory reporting limits.
- VOCs were not detected at or above the laboratory reporting limits.
- SVOCs were reported at concentrations ranging from <5.0 to 20,000 µg/kg.

5.3 Laboratory Quality Assurance/Quality Control

We reviewed the QA/QC results provided with the laboratory analytical reports. The data indicate a detection of zinc in a method blank at a concentration of less than 10% of that found in the associated analytical batch. Remaining method blanks reported non-detect results at or above reporting limits. The Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) were outside recovery criteria for several samples, possibly due to matrix interference; however, the associated laboratory control sample recoveries (LCDs) were acceptable. The relative percent differences (RPD) for MS/MSD were outside of recovery for several samples; however, the data was validated by the LCS. Surrogate tetrachloro-m-xylene recovery was biased low on sample G4-4, possibly due to matrix interference. The soil sample was clay-type. Internal standards were biased low on several SVOC samples, possibly due to matrix interference. Samples were analyzed with dilution and internal standards met method criteria. Affected analytes for these failed internal standards were reported at a dilution that met the internal standard recovery limit. The remaining associated surrogate was recovered within control limits. Surrogate recovery was outside of acceptance limits for TPHd analysis of sample D2-0, possibly due to matrix interference; the sample extract was black and viscous. Remaining samples and internal laboratory QA/QC samples showed acceptable recoveries and relative percent differences (RPDs). Based on this limited data review, no additional qualifications of the soil data are necessary, and the data are of sufficient quality for the purposes of this report.

5.4 Statistical Evaluation for Lead Detected in Soil Samples

Statistical methods were applied to the total lead data for the site to evaluate: 1) the upper confidence limits (UCLs) of the arithmetic means of the total lead concentrations for the site; and 2) if an acceptable correlation between total and WET lead concentrations exists that would allow the prediction of WET lead concentrations based on calculated UCLs. At the request of the Task Order Manager, the lead data for the site were treated as a single sample population for statistical evaluation.

5.4.1 Calculating the UCLs for the Arithmetic Mean

The upper one-sided 90% and 95% UCLs of the arithmetic mean are defined as the values that, when calculated repeatedly for randomly drawn subsets of site data, equal or exceed the true mean 90% and 95% of the time, respectively. Statistical confidence limits are the classical tool for addressing uncertainties of a distribution mean. The UCLs of the arithmetic mean concentration are used as the mean concentrations because it is not possible to know the true mean due to the essentially infinite number of soil samples that could be collected from a site. The UCLs therefore account for uncertainties due to limited sampling data. As data become less limited at a site, uncertainties decrease, and the UCLs move closer to the true mean.

Non-parametric bootstrap techniques were used to calculate the UCLs. For those samples in which total lead was not detected, a value equal to one-half of the detection limit was used in the UCL calculation. The reported maximum concentration of lead (E4-0, 1,900 mg/kg) was determined to be a statistical outlier (see Appendix B) and, as such, is not likely representative of stockpile conditions. The bootstrap and outlier test results are included in Appendix B. The following tables present the calculated total lead UCLs and statistics for the complete soil stockpile total lead data and the data with the outlier omitted.

Lead Statistics Including Outlier

Total Lead 90% UCL (mg/kg)	Total Lead 95% UCL (mg/kg)	Total Lead Mean (mg/kg)	Total Lead Minimum (mg/kg)	Total Lead Maximum (mg/kg)
78.1	79.0	57.2	1.1	1,900

Lead Statistics Omitting Outlier

Total Lead 90% UCL (mg/kg)	Total Lead 95% UCL (mg/kg)	Total Lead Mean (mg/kg)	Total Lead Minimum (mg/kg)	Total Lead Maximum (mg/kg)
48.8	51.0	41.6	1.1	460

5.4.2 Correlation of Total and WET Lead

Total and corresponding WET lead concentrations are bivariate data with a linear structure. This linear structure should allow for the prediction of WET lead concentrations based on the maximum total lead concentrations presented in the tables above.

To estimate the degree of interrelation between total and corresponding WET lead values (x and y, respectively), the *correlation coefficient [r]* is used. The correlation coefficient is a ratio that ranges from +1 to –1. A *correlation coefficient* of +1 indicates a perfect direct relationship between two variables; a *correlation coefficient* of –1 indicates that one variable changes inversely with relation to the other. Between the two extremes is a spectrum of less-than-perfect relationships, including zero, which indicates the lack of any sort of linear relationship at all. The *correlation coefficient* was calculated for 15 (x, y) data points (i.e., soil samples analyzed for both total lead [x] and WET lead [y]) from the site. To achieve an acceptable correlation, the total WET soluble lead data from samples B3-5 (200, 0.81) and B6-5 (280, 4.2) were excluded from the regression analysis. The excluded total and WET soluble lead data have the highest squared residual WET soluble lead value (presented in Appendix B). Excluding these data points from the regression analysis yields an acceptable *coefficient of determination* (r^2) of 0.7723, which yields a corresponding *correlation coefficient* (r) of 0.8788.

For the *correlation coefficient* that indicates a linear relationship between total and WET lead concentrations, it is possible to compute the line of dependence or a best-fit line between the two variables. A least squares method was used to find the equation of a best-fit line (regression line) by forcing the y-intercept equal to zero since that is a known point. The equation of the regression line was determined to be $y = 0.0615(x)$, where x represents total lead concentrations and y represents predicted WET lead concentrations.

This equation was used to estimate the expected WET lead concentrations for the total lead UCLs for the data set (see Section 5.4.1). Regression analysis results and a scatter plot depicting the (x, y) data points along with the regression line are included in Appendix B.

6.0 CONCLUSIONS

6.1 Lead

The following tables summarize the total and WET lead calculations and predicted waste classification for stockpile soil based on the total lead UCLs and predicted WET lead concentrations for all data collected at the site and for total lead data with the outlier omitted from the statistical analysis:

Total Lead Data including Statistical Outlier

90% UCL Total Lead (mg/kg)	90% UCL Predicted WET Lead (mg/l)	95% UCL Total Lead (mg/kg)	Waste Classification
78.1	4.8	79.0	Non-hazardous

90% UCL applicable for waste classification and onsite reuse; 95% UCL applicable for risk assessment and offsite disposal

Total Lead Data without Statistical Outlier

90% UCL Total Lead (mg/kg)	90% UCL Predicted WET Lead (mg/l)	95% UCL Total Lead (mg/kg)	Waste Classification
48.8	3.0	51.0	Non-hazardous

90% UCL applicable for waste classification and onsite reuse; 95% UCL applicable for risk assessment and offsite disposal

Based on the data presented in the above tables, stockpile soil at the site would be classified as non-hazardous since the 90% UCL-predicted WET lead concentrations are less than the lead STLC of 5.0 mg/l. Based on the TCLP lead results, the soil stockpile would not be classified as a RCRA hazardous waste.

6.2 Remaining CAM 17 Metals

Five samples contained total chromium at concentrations of greater than 50 mg/kg (i.e., greater than ten times the STLC of 5 mg/l). The samples were further analyzed for WET chromium and the reported concentrations were below the STLC. Total chromium concentrations in remaining samples were below ten times the STLC. Accordingly, the soil stockpile would be classified as non-hazardous based on chromium content.

With the exceptions of chromium and lead, CAM 17 metals were reported in the samples at total concentrations below ten times their respective STLCs.

The CAM 17 metals concentrations in the site soil were compared to ESLs. Antimony, arsenic, cobalt, and lead were reported at concentrations greater than one or more ESL values.

Non-parametric bootstrap techniques were used to calculate the 95% UCLs for antimony, arsenic, cobalt, and lead. The bootstrap test results are included in Appendix B. ESLs, UCLs, and published background concentrations for antimony, arsenic, cobalt, and lead are summarized in the table below:

Metal	Maximum	95% UCL	Shallow Soil Residential ESL	Shallow Soil Commercial/ Industrial ESL	Worker Direct Exposure ESL	Published Background Mean[1]	Published Background Range [1]
Antimony	31	---	20	40	120	0.60	0.15 to 0.73
Arsenic	16	8.86	0.39	1.6	10	3.5	0.6 to 11.0
Cobalt	24	12.0	23	80	49	14.9	2.7 to 46.9
Lead	1,900	79.0	80	320	320	23.9	12.4 to 97.1

Concentrations reported in mg/kg

[1] Kearney Foundation of Soil Science, March 1996

Antimony was detected in 1 of 38 samples (B6-5 at 31 mg/kg); therefore, the 95% UCL concentration could not be calculated. The reported maximum concentration of antimony is above the residential land use ESL but below the commercial/industrial land use and construction exposure ESLs. The maximum value is above the published background range. This single detection of antimony was determined to be a statistical outlier (see Appendix B) and, as such, is not likely representative of stockpile conditions.

The 95% UCL arsenic concentration is greater than the residential and commercial land use ESLs; however, it is less than the construction exposure ESL and within the published background range. The SFRWQCB *November 2007 Update to Environmental Screening Levels (ESLs) Technical Document* states that ambient background concentrations of arsenic typically exceed risk-based screening levels. In such instances, it may be more appropriate to compare site data to regionally specific established background levels.

Based on the reported results for arsenic, offsite reuse or disposal of the soil stockpile may be restricted based on arsenic content, depending on proposed use.

The 95% UCL cobalt concentration is less than the residential and commercial land use ESLs and the construction exposure ESL, and is within the published background range.

The 95% UCL lead concentration is less than the residential land use, commercial/industrial land use and the construction exposure ESLs, and also within the published background range.

Metals results for soil samples are summarized in Tables 2 and 3.

6.3 Petroleum Hydrocarbons

TPHg was not detected at or above the laboratory reporting limits.

TPHd was reported at concentrations ranging from 3.3 to 900 mg/kg, above the residential land use ESL of 100 mg/kg and the commercial/industrial land use ESL of 110 mg/kg, and equal to the construction exposure ESL of 900 mg/kg. The calculated 95% UCL for TPHd is 66.9 mg/kg, below the ESLs (SFRWQCB, December 2013, Tables A and K-3).

TPHmo was reported at concentrations ranging from 7.0 to 2,000 mg/kg, above the residential land use ESL of 100 mg/kg and the commercial/industrial land use ESL of 500 mg/kg, but below the construction exposure ESL of 28,000 mg/kg. The calculated 95% UCL for TPHmo is 168 mg/kg, below the ESLs.

A summary of petroleum hydrocarbons concentrations in site soil is presented in Table 4.

6.4 Organochlorine Pesticides

Organochlorine pesticides were detected in 9 of 28 samples at concentrations ranging from <1.0 µg/kg to 29 µg/kg. Dieldrin was reported at concentrations of up to 4.9 µg/kg, above the residential and commercial/industrial land use ESL of 2.3 µg/kg, but below the construction exposure ESL of 930 µg/kg. The 95% UCL concentration for dieldrin is 1.75 µg/kg, below the ESLs.

Remaining organochlorine pesticide concentrations were below their respective ESLs (SFRWQCB, December 2013, Tables A and K-3). A summary of organochlorine pesticide concentrations in site soil is presented in Table 5.

6.5 PCBs

PCB Aroclor 1254 was reported in one sample at a concentration of 99 µg/kg (E4-6), below the ESLs. Remaining PCBs were not detected at or above the reporting limits. A summary of PCB results in site soil is presented in Table 5.

6.6 VOCs

VOCs were not detected at or above the laboratory reporting limits. VOC results are summarized in Table 5.

6.7 SVOCs

SVOCs were reported at concentrations ranging from <5.0 to 20,000 µg/kg. Benzo(a)pyrene and benzo(b)fluoranthene were reported at concentrations of up to 7,400 and 11,000 µg/kg, respectively, exceeding the ESLs for residential and commercial/industrial land use and the construction exposure ESL. Benzo(a)pyrene and benzo(b)fluoranthene have calculated 95% UCLs of 359 µg/kg and 490 µg/kg, respectively, above the residential and commercial/industrial land use ESLs, but below the construction exposure ESLs. Benzo(a)anthracene, Benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene were reported at concentrations of up to 5,300 µg/kg , 4,000 µg/kg, 6,200 µg/kg, and 3,600 µg/kg, respectively, exceeding the residential and commercial/industrial land use ESLs but below the construction exposure ESLs. Benzo(a)anthracene, Benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene have calculated 95% UCLs of 247 µg/kg, 192 µg/kg, 292 µg/kg, and 175 µg/kg, respectively, below the ESLs. Remaining SVOCs were below ESLs. SVOC results are summarized in Table 6.

6.8 Worker Protection

The contractor(s) should prepare a project-specific health and safety plan to prevent or minimize worker exposure to metals, petroleum hydrocarbons, organochlorine pesticides, and SVOCs in soil. The plan should include protocols for environmental and personnel monitoring, requirements for personal protective equipment, and other health and safety protocols and procedures for the handling of soil.

0 1
Scale in Miles

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800 Cedar Street

Oakland,
California

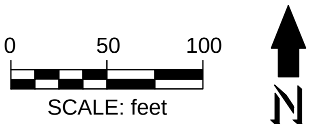
GEOCON Proj. No. E8560-02-55

VICINITY MAP

Task Order No. 55

December 2013

Figure 1



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800 Cedar Street		
Oakland, California	**SITE PLAN**	
GEOCON Proj. No. E8560-02-55		
EA No. 04-0R-0002	December 2013	Figure 2

SITE1013.DWG

TABLE 1
Boring Coordinates
800 Cedar Street Stockpiles
Oakland, California

Boring	Latitude	Longitude
A1	37.809030	-122.303883
A2	37.809136	-122.303866
A3	37.809047	-122.303812
A4	37.809181	-122.303806
B1	37.809300	-122.303868
B2	37.809454	-122.303842
B3	37.809590	-122.303808
B4	37.809762	-122.303733
B5	37.809740	-122.303520
B6	37.809586	-122.303634
B8	37.809322	-122.303736
B7	37.809465	-122.303681
D1	37.809649	-122.303483
D2	37.809574	-122.303576
D3	37.809424	-122.303617
D4	37.809267	-122.303657
D5*	37.809733	-122.303322
D6*	37.809603	-122.303369
D7*	37.809467	-122.303442
D8*	37.809325	-122.303519
E1	37.809144	-122.303645
E2	37.809141	-122.303754
E3	37.809042	-122.303767
E4*	37.809000	-122.303675
C1	37.809946	-122.303725
C2	37.809973	-122.303478
C3	37.809834	-122.303467
C4	37.809869	-122.303596
G1-5*	37.808892	-122.303472
H1-4*	37.808864	-122.303394
N1*	37.809403	-122.303389

* Coordinates estimated

TABLE 2
Summary of Lead Results
800 Cedar Street Stockpiles
Oakland, California

Sample ID	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	TCLP Lead (mg/l)
Stockpile 1				
A1-0	0 to 0.5	58	2.7	---
A1-4	4 to 4.5	21	---	---
A1-7.5	7.5 to 8	12	---	---
A2-0	0 to 0.5	71	2.8	---
A2-4	4 to 4.5	8.4	---	---
A2-7.5	7.5 to 8	110	6.3	<0.25
A3-0	0 to 0.5	58	3.5	---
A3-4	4 to 4.5	46	---	---
A3-7.5	7.5 to 8	9.0	---	---
A4-0	0 to 0.5	52	2.1	---
A4-4	4 to 4.5	24	---	---
A4-7.5	7.5 to 8	21	---	---
B1-0	0 to 0.5	30	---	---
B1-5	5 to 5.5	12	---	---
B1-10	10 to 10.5	7.1	---	---
B1-15.5	15.5 to 16	65	1.4	---
B2-0	0 to 0.5	64	1.5	---
B2-5	5 to 5.5	44	---	---
B2-10	10 to 10.5	13	---	---
B2-15.5	15.5 to 16	22	---	---
			---	---
B3-0	0 to 0.5	58	3.8	---
B3-5	5 to 5.5	200	0.81	---
B3-10	10 to 10.5	13	---	---
B3-15.5	15.5 to 16	27	---	---
B4-0	0 to 0.5	24	---	---
B4-5	5 to 5.5	18	---	---
B4-10	10 to 10.5	42	---	---
B4-15.5	15.5 to 16	30	---	---
B5-0	0 to 0.5	12	---	---
B5-5	5 to 5.5	200	8.6	<0.25
B5-10	10 to 10.5	18	---	---
B5-13.5	13.5 to 14	12	---	---

TABLE 2
Summary of Lead Results
800 Cedar Street Stockpiles
Oakland, California

Sample ID	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	TCLP Lead (mg/l)
B6-0	0 to 0.5	32	---	---
B6-5	5 to 5.5	280	4.2	---
B6-10	10 to 10.5	9.2	---	---
B6-15.5	15.5 to 16	19	---	---
B7-0	0 to 0.5	18	---	---
B7-5	5 to 5.5	160	21	<0.25
B7-10	10 to 10.5	120	7.6	<0.25
B7-15.5	15.5 to 16	41	---	---
B8-0	0 to 0.5	220	19	<0.25
B8-5	5 to 5.5	200	6.5	<0.25
B8-10	10 to 10.5	28	---	---
B8-15.5	15.5 to 16	74	4.0	---
C1-0	0 to 0.5	14	---	---
C1-3	3 to 3.5	29	---	---
C1-6	6 to 6.5	24	---	---
C2-0	0 to 0.5	11	---	---
C2-3	3 to 3.5	12	---	---
C2-6	6 to 6.5	40	---	---
C3-0	0 to 0.5	15	---	---
C3-3	3 to 3.5	57	0.63	---
C3-6	6 to 6.5	62	4.1	---
C4-0	0 to 0.5	28	---	---
C4-3	3 to 3.5	13	---	---
C4-6	6 to 6.5	43	---	---
D1-0	0 to 0.5	16	---	---
D1-4	3 to 3.5	<5.0	---	---
D1-7.5	7.5 to 8	100	5.1	<0.25
D2-0	0 to 0.5	11	---	---
D2-4	3 to 3.5	24	---	---
D2-7.5	7.5 to 8	29	---	---
D3-0	0 to 0.5	14	---	---
D3-4	3 to 3.5	72	5.6	<0.25
D3-7.5	7.5 to 8	29	---	---

TABLE 2
Summary of Lead Results
800 Cedar Street Stockpiles
Oakland, California

Sample ID	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	TCLP Lead (mg/l)
D4-0	0 to 0.5	12	---	---
D4-4	3 to 3.5	5.1	---	---
D4-7.5	7.5 to 8	22	---	---
D5-0	0 to 0.5	21	---	---
D5-3	3 to 3.5	24	---	---
			1.6	
D6-0	0 to 0.5	45	---	---
D6-3	3 to 3.5	110	5.0	<0.25
D7-0	0 to 0.5	47	---	---
D7-3	3 to 3.5	38	---	---
D8-0	0 to 0.5	28	---	---
D8-3	3 to 3.5	29	---	---
E1-0	*Value listed is for C	29	---	---
E1-6	6 to 6.5	25	---	---
E2-0	vels, Tables A a	13	---	---
E2-3	3 to 3.5	22	---	---
E2-6	6 to 6.5	21	---	---
E3-0	0 to 0.5	33	---	---
E3-3	3 to 3.5	58	1.5	---
E3-6	6 to 6.5	85	3.1	---
E4-0	0 to 0.5	1,900	---	<0.25
E4-3	3 to 3.5	99	3.1	---
E4-6	6 to 6.5	96	2.8	---
<u>Stockpile 2</u>				
G1-0	0 to 0.5	4.7	---	---
G1-4	4 to 4.5	<5.0	---	---
G1-8	8 to 8.5	5.5	---	---
G2-0	0 to 0.5	<5.0	---	---
G2-4	4 to 4.5	<5.0	---	---
G2-8	8 to 8.5	<5.0	---	---
G3-0	s, Tables A and	2.5	---	---
G3-4	4 to 4.5	5.0	---	---
G3-8	8 to 8.5	<5.0	---	---

TABLE 2
Summary of Lead Results
800 Cedar Street Stockpiles
Oakland, California

Sample ID	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	TCLP Lead (mg/l)
G4-0	0 to 0.5	5.5	---	---
G4-4	4 to 4.5	6.4	---	---
G4-8	8 to 8.5	120	8.2	<0.25
G5-0	0 to 0.5	5.1	---	---
G5-4	4 to 4.5	3.3	---	---
G5-8	8 to 8.5	3.5	---	---
Stockpile 3				
H1-0	0 to 0.5	<5.0	---	---
H1-2	2 to 2.5	1.9	---	---
H1-4	4 to 4.5	460	30	0.66
H2-0	0 to 0.5	2.5	---	---
H2-2	2 to 2.5	1.7	---	---
H2-4	4 to 4.5	<5.0	---	---
H3-0	0 to 0.5	1.1	---	---
H3-2	2 to 2.5	<5.0	---	---
H3-4	4 to 4.5	28	---	---
H4-0	0 to 0.5	7.2	---	---
H4-2	2 to 2.5	<5.0	---	---
H4-4	4 to 4.5	<5.0	---	---
Stockpile 4				
N1-0	0 to 0.5	12	---	---
N1-1	1 to 1.5	12	---	---
N1-2	2 to 2.5	12	---	---
N1-3	3 to 3.5	12	---	---

Hazardous Waste Criteria			
TTLC (mg/kg)	1,000	---	---
STLC (mg/l)	---	5.0	---
TCLP (mg/l)	---	---	5.0

Notes:

mg/kg = Milligrams per kilogram
mg/l = Milligrams per liter
WET = Waste Extraction Test using citric acid as the extraction fluid
TCLP = Toxicity Characteristic Leaching Procedure
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration

TABLE 3
Summary of CAM 17 Metals Results
800 Cedar Street Stockpiles
Oakland, California

Sample ID	Sample Depth (ft)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
<u>**Stockpile 1**</u>																			
A1-0	0 to 0.5	<2.0	4.9	100	<1.0	<1.0	36	---	9.2	31	58	0.16	<1.0	32	1.2	<1.0	<1.0	33	87
A1-4	4 to 4.5	<2.0	6.5	110	<1.0	<1.0	33	---	9.7	21	21	0.12	<1.0	42	<1.0	<1.0	<1.0	35	43
A2-4	4 to 4.5	<2.0	5.1	150	<1.0	<1.0	51 *0.12*	---	11	28	8.4	<0.10	<1.0	54	1.3	<1.0	<1.0	34	45
A2-7.5	7.5 to 8	<2.0	10	160	<1.0	<1.0	61 *0.21*	<1.0	12	34	110	0.20	<1.0	72	1.4	<1.0	<1.0	43	75
A3-0	0 to 0.5	<2.0	4.8	130	<1.0	<1.0	36	---	8.6	28	58	0.25	<1.0	36	1.1	<1.0	<1.0	33	78
A3-7.5	7.5 to 8	<2.0	6.0	130	<1.0	<1.0	52 *0.29*	---	14	32	9.0	<0.099	<1.0	100	1.9	<1.0	<1.0	48	53
B1-0	0 to 0.5	<2.0	4.1	100	<1.0	<1.0	44	---	12	32	30	0.10	<1.0	68	1.3	<1.0	<1.0	48	52
B1-5	5 to 5.5	<2.0	11	100	<1.0	<1.0	18	---	7.6	22	12	0.16	<1.0	14	1.7	<1.0	<1.0	31	69
B1-10		<2.0	4.8	130	<1.0	<1.0	44	---	11	25	7.1	<0.10	<1.0	54	1.2	<1.0	<1.0	37	43
B2-15.5	15.5 to 16	---	---	---	---	---	---	<1.0	---	---	---	---	---	---	---	---	---	---	---
B3-0	0 to 0.5	<2.0	5.2	190	<1.0	<1.0	38	---	12	36	58	0.15	<1.0	33	1.9	<1.0	<1.0	52	89
B3-10	10 to 10.5	<2.0	8.9	92	<1.0	<1.0	24	---	7.6	21	13	<0.099	<1.0	19	1.9	<1.0	<1.0	32	82
B4-15.5	15.5 to 16	<2.0	3.3	130	<1.0	<1.0	28	---	8.3	17	30	<0.10	<1.0	24	1.1	<1.0	<1.0	32	60
B5-0	0 to 0.5	<2.0	11	120	<1.0	<1.0	22	---	8.8	28	12	0.16	<1.0	18	2.7	<1.0	<1.0	36	86
B5-5	5 to 5.5	<2.0	56 *0.13*	88	<1.0	<1.0	17	<1.0	9.2	56	200	0.11	4.2	17	1.8	<1.0	<1.0	36	180
B6-5	5 to 5.5	31	12	120	<1.0	<1.0	24	---	8.3	89	280	0.41	<1.0	25	2.0	<1.0	<1.0	39	180
B6-15.5	15.5 to 16	<2.0	3.5	240	<1.0	<1.0	28	---	11	18	19	<0.10	<1.0	40	1.6	<1.0	<1.0	35	47
B7-0	0 to 0.5	<2.0	13	120	<1.0	<1.0	24	---	9.9	26	18	0.17	<1.0	18	2.3	<1.0	<1.0	36	88
B8-0	0 to 0.5	<2.0	5.7	130	<1.0	<1.0	30	---	9.6	31	220	0.15	<1.0	27	1.8	<1.0	<1.0	46	110
C2-3	3 to 3.5	<2.0	13	140	<1.0	<1.0	37	---	10	25	12	0.24	<1.0	40	2.0	<1.0	<1.0	31	88
C2-6	6 to 6.5	---	---	---	---	---	---	<1.0	---	---	---	---	---	---	---	---	---	---	---
C3-6	6 to 6.5	<2.0	2.9	75	<1.0	<1.0	81 *0.15*	---	18	35	62	0.16	<1.0	63	<1.0	<1.0	<1.0	32	90
C4-0	0 to 0.5	<2.0	14	160	<1.0	<1.0	29	---	13	29	28	0.22	<1.0	24	2.8	<1.0	<1.0	40	98

TABLE 3
Summary of CAM 17 Metals Results
800 Cedar Street Stockpiles
Oakland, California

Sample ID	Sample Depth (ft)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
D1-7.5	7.5 to 8	<2.0	4.2	100	<1.0	<1.0	47	<1.0	11	48	100	0.13	<1.0	40	1.1	<1.0	<1.0	34	93
D2-0	0 to 0.5	<2.0	10	100	<1.0	<1.0	21	---	8.2	23	11	0.20	<1.0	15	2.1	<1.0	<1.0	36	83
D2-4	4 to 4.5	<2.0	4.1	140	<1.0	<1.0	34	---	11	22	24	<0.099	<1.0	43	1.3	<1.0	<1.0	39	50
D4-0	0 to 0.5	<2.0	16	100	<1.0	<1.0	21	---	8.2	25	12	0.18	<1.0	15	2.4	<1.0	<1.0	34	80
D5-3	3 to 3.5	<2.0	6.5	130	<1.0	<1.0	36	---	9.4	40	24	0.54	<1.0	40	1.5	<1.0	<1.0	34	67
D6-0	0 to 0.5	<2.0	9.8	120	<1.0	<1.0	27	---	9.1	32	45	0.30	<1.0	23	2.0	<1.0	<1.0	35	92
D6-3	3 to 3.5	<2.0	9.9	150	<1.0	<1.0	30	<1.0	9.4	46	110	0.09	<1.0	28	1.7	<1.0	<1.0	36	160
D8-3	3 to 3.5	<2.0	3.6	150	<1.0	<1.0	27	---	9.9	17	29	<0.10	<1.0	25	<1.0	<1.0	<1.0	31	48
E2-6	6 to 6.5	<2.0	4.5	95	<1.0	<1.0	41	---	10	28	21	0.16	<1.0	66	1.1	<1.0	<1.0	33	52
E3-6	6 to 6.5	<2.0	5.4	120	<1.0	<1.0	30	---	9.1	42	85	1.1	<1.0	31	1.2	<1.0	<1.0	33	73
E4-0	0 to 0.5	<2.0	8.5	150	<1.0	<1.0	39	---	11	64	1,900	0.45	<1.0	43	1.6	<1.0	<1.0	30	130
Stockpile 2																			
G1-0	0 to 0.5	<2.0	3.7	31	<1.0	<1.0	42	---	11	20	4.7	<0.10	<1.0	34	1.1	<1.0	<1.0	37	33
G1-8	8 to 8.5	<2.0	3.5	23	<1.0	<1.0	34	<1.0	8.0	11	5.5	<0.10	<1.0	30	<1.0	<1.0	<1.0	31	23
G3-0	0 to 0.5	<2.0	2.5	40	<1.0	<1.0	42	---	10	24	2.5	<0.10	<1.0	28	1.2	<1.0	<1.0	40	25
G3-4	4 to 4.5	<2.0	1.7	63	<1.0	<1.0	52 *0.068*	---	15	42	5.0	<0.10	<1.0	34	1.9	<1.0	<1.0	54	33
G5-0	0 to 0.5	---	---	---	---	---	---	<1.0	---	---	---	---	---	---	---	---	---	---	---
G5-4	4 to 4.5	<2.0	2.8	24	<1.0	<1.0	32	---	8.4	17	3.3	0.14	<1.0	25	1.1	<1.0	<1.0	40	24
G5-8	8 to 8.5	<2.0	3.6	22	<1.0	<1.0	29	---	7.1	97	3.5	<0.099	<1.0	26	<1.0	<1.0	<1.0	27	21
Stockpile 3																			
H1-2	2 to 2.5	<2.0	<1.0	27	<1.0	<1.0	32	---	19	32	1.9	0.43	<1.0	25	2.5	<1.0	<1.0	98	21
H1-4	4 to 4.5	<2.0	4.1	130	<1.0	<1.0	40	2.0	14	75	460	0.26	<1.0	29	2.2	<1.0	<1.0	56	300
H2-0	0 to 0.5	<2.0	<1.0	24	<1.0	<1.0	24	---	16	50	2.5	0.23	<1.0	23	2.1	<1.0	<1.0	79	25
H2-2	2 to 2.5	<2.0	<1.0	28	<1.0	<1.0	28	---	16	62	1.7	0.21	<1.0	25	2.1	<1.0	<1.0	83	22
H3-0	0 to 0.5	<2.0	<1.0	30	<1.0	<1.0	28	<1.0	24	45	1.1	0.52	<1.0	22	3.4	<1.0	<1.0	100	16
H3-4	4 to 4.5	<2.0	<1.0	22	<1.0	<1.0	33	---	19	25	28	0.50	<1.0	19	3.2	<1.0	<1.0	95	37

TABLE 3
Summary of CAM 17 Metals Results
800 Cedar Street Stockpiles
Oakland, California

Sample ID	Sample Depth (ft)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Stockpile 4																			
N1-0	0 to 0.5	<2.0	4.5	270	<1.0	<1.0	35	---	12	44	12	<0.10	<1.0	38	2.8	<1.0	<1.0	46	84
N1-1	1 to 1.5	<2.0	5.0	250	<1.0	<1.0	37	<1.0	8.5	39	12	<0.10	<1.0	31	3.2	<1.0	<1.0	50	75
N1-2	2 to 2.5	<2.0	4.1	300	<1.0	<1.0	34	---	11	43	12	<0.10	<1.0	36	2.8	<1.0	<1.0	43	82
N1-3	3 to 3.5	<2.0	4.2	300	<1.0	<1.0	34	---	12	40	12	<0.10	<1.0	36	2.5	<1.0	<1.0	43	80
ESLs																			
Residential Land Use		20	0.39	750	4.0	12	1,000	8.0	23	230	80	6.7	40	150	10	20	0.78	200	600
Commercial/Industrial Land Use		40	1.6	1,500	8.0	12	2,500	8.0	80	230	320	10	40	150	10	40	10	200	600
Construction Worker Exposure		120	10	61,000	180	110	460,000*	2.9	49	12,000	320	27	1,500	6,100	1,500	1,500	3.1	1,500	93,000
Hazardous Waste Criteria																			
TTLC (mg/kg)		500	500	10,000	75	100	2,500	500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
STLC (mg/l)		15	5.0	100	0.75	1.0	5.0	5.0	80	25	5.0	0.2	350	20	1.0	5.0	7.0	24	250
TCLP (mg/l)		---	5.0	100	---	1.0	6.0	6.0*	---	---	5.0	0.2	---	---	1.0	5.0	---	---	---

Notes:

Results are shown in milligrams per kilogram (mg/kg).

*Value listed is for Chromium III, as there is no construction exposure standard for total chromium.

Values listed in italics are results of WET analysis

< = Analyte was not detected above the laboratory reporting limit.

ESLs = Environmental Screening Levels, Tables A and K-3, SFRWQCB, December 2013.

TTLC = total threshold limit concentration

STLC = soluble threshold limit concentration

TCLP = toxicity characteristic leaching procedure

TABLE 4
Summary of Petroleum Hydrocarbons Results
800 Cedar Street Stockpiles
Oakland, California

Sample ID	Sample Depth (ft)	TPHd (mg/kg)	TPHmo (mg/kg)	TPHg (mg/kg)
Stockpile 1				
A1-0	0 to 0.5	53	140	---
A1-4	4 to 4.5	17	50	<1.0
A1-7.5	7.5 to 8	36	81	<1.0
A3-0	0 to 0.5	67	210	---
A3-4	4 to 4.5	71	210	<1.0
A3-7.5	7.5 to8	52	170	<1.0
B1-0	0 to 0.5	30	96	---
B1-5	5 to 5.5	53	190	<1.0
B1-10	10 to 10.5	14	25	<1.0
B1-15.5	15.5 to 16	35	120	<1.0
B3-0	0 to 0.5	98	280	---
B3-5	5 to 5.5	31	110	---
B3-10	10 to 10.5	69	250	<1.0
B3-15.5	15.5 to 16	15	36	<1.0
B5-0	0 to 0.5	68	210	---
B5-5	5 to 5.5	90	160	<1.0
B5-10	10 to 10.5	6.0	13	<1.0
B5-13.5	13.5 to 14	4.7	12	<1.0
B7-0	0 to 0.5	49	160	---
B7-5	5 to 5.5	900	2,000	---
B7-10	10 to 10.5	120	240	<1.0
B7-15.5	15.5 to 16	36	96	<1.0
C2-0	0 to 0.5	68	170	---
C2-3	3 to 3.5	53	150	<1.0
C2-6	6 to 6.5	30	94	<1.0
C4-0	0 to 0.5	78	240	---
C4-3	3 to 3.5	61	160	<1.0
C4-6	6 to 6.5	15	39	<1.0
D1-4	4 to 4.5	---	---	<1.0
D1-7.5	7.5 to 8	---	---	<1.0
D2-0	0 to 0.5	31	88	---
D2-4	4 to 4.5	5.0	11	---
D2-7.5	7.5 to 8	20	56	---
D3-4	4 to 4.5	---	---	<1.0
D3-7.5	7.5 to 8	---	---	<1.0

TABLE 4
Summary of Petroleum Hydrocarbons Results
800 Cedar Street Stockpiles
Oakland, California

Sample ID	Sample Depth (ft)	TPHd (mg/kg)	TPHmo (mg/kg)	TPHg (mg/kg)
D4-0	0 to 0.5	47	130	---
D4-4	4 to 4.5	34	130	---
D4-7.5	7.5 to 8	17	47	---
D5-3	3 to 3.5	---	---	<1.0
D6-0	0 to 0.5	84	200	---
D6-3	3 to 3.5	78	170	---
D8-0	0 to 0.5	13	33	---
D8-3	3 to 3.5	15	38	<1.0
E1-3	3 to 3.5	---	---	<1.0
E1-6	6 to 6.5	---	---	<1.0
E2-0	0 to 0.5	76	220	---
E2-3	3 to 3.5	53	160	---
E2-6	6 to 6.5	17	44	---
E3-3	3 to 3.5	---	---	<1.0
E3-6	6 to 6.5	---	---	<1.0
E4-0	0 to 0.5	49	130	---
E4-3	3 to 3.5	100	250	---
E4-6	6 to 6.5	89	230	---
Stockpile 2				
G1-0	0 to 0.5	14	25	---
G1-4	4 to 4.5	7.6	22	<1.0
G1-8	8 to 8.5	23	45	<1.0
G2-0	0 to 0.5	5.2	16	---
G2-4	4 to 4.5	7.4	25	---
G2-8	8 to 8.5	5.3	16	---
G3-0	0 to 0.5	5.1	16	---
G3-4	4 to 4.5	34	72	<1.0
G3-8	8 to 8.5	9.8	24	<1.0
G4-0	0 to 0.5	10	29	---
G4-4	4 to 4.5	3.3	7.0	---
G4-8	8 to 8.5	31	82	---
G5-0	0 to 0.5	13	1.6	---
G5-4	4 to 4.5	50	94	<1.0
G5-8	8 to 8.5	6.3	16	<1.0

TABLE 4
Summary of Petroleum Hydrocarbons Results
800 Cedar Street Stockpiles
Oakland, California

Sample ID	Sample Depth (ft)	TPHd (mg/kg)	TPHmo (mg/kg)	TPHg (mg/kg)
Stockpile 3				
H1-0	0 to 0.5	7.7	26	---
H1-2	2 to 2.5	7.2	26	<1.0
H1-4	4 to 4.5	52	130	<1.0
H2-0	*Value listed is for Chromiu	18	69	---
H2-4	4 to 4.5	6.5	22	<1.0
H3-0	evels, Tables A and	8.7	30	---
H3-2	2 to 2.5	5.0	16	<1.0
H3-4	4 to 4.5	13	39	<1.0
H4-0	0 to 0.5	12	29	---
H4-2	2 to 2.5	7.4	32	<1.0
H4-4	4 to 4.5	5.8	24	<1.0

ESLs	TPHd (mg/kg)	TPHmo (mg/kg)	TPHg (mg/kg)
Residential	100	100	100
Commercial/Industrial	110	500	500
Construction Exposure	900	28,000	2,700

Notes:

mg/kg = milligrams per kilogram
TPHd = Total petroleum hydrocarbons as diesel
TPHmo = Total petroleum hydrocarbons as motor oil
TPHg = Total petroleum hydrocarbons as gasoline
ND = Not Detected
--- = Not analyzed or no standard for this compound
< = Not detected above the stated laboratory reporting limit
ESLs = Environmental Screening Levels, Tables A and K-3, SFRWQCB, December 2013.

TABLE 5
Summary of Organochlorine Pesticides, PCBs, and VOCs Results
800 Cedar Street Stockpiles
Oakland, California

Sample ID	Sample Depth (ft)	Organochlorine Pesticides	PCBs	VOCs
Stockpile 1				
A1-4	4 to 4.5	ND	ND	ND
A1-7.5	7.5 to 8	---	---	ND
A2-7.5	7.5 to 8	ND	ND	---
A3-0	0 to 0.5	alpha-Chlordane = 9.3 gamma-Chlordane = 1.0 4,4'-DDD = 2.2 4,4'-DDT = 5.8	ND	---
A3-4	4 to 4.5	---	---	ND
A3-7.5	7.5 to 8	---	---	ND
B1-5	5 to 5.5	---	---	ND
B1-10	10 to 10.5	---	---	ND
B1-15.5	15.5 to 16	alpha-Chlordane = 2.9 gamma-Chlordane = 3.5 4,4'-DDT = 3.7	ND	ND
B3-10	10 to 10.5	4,4'-DDT = 2.2 Dieldrin = 4.5	ND	ND
B3-15.5	15.5 to 16	---	---	ND
B4-5	5 to 5.5	ND	ND	---
B5-5	5 to 5.5	---	---	ND
B5-10	10 to 10.5	---	---	ND
B5-13.5	13.5 to 14	---	---	ND
B6-10	10 to 10.5	alpha-Chlordane = 2.5 gamma-Chlordane = 2.6 Dieldrin = 2.5	ND	---
B7-10	10 to 10.5	---	---	ND
B7-15.5	15.5 to 16	---	---	ND
B8-0	0 to 0.5	Dieldrin = 4.9	ND	---
C1-3	3 to 3.5	ND	ND	---
C2-3	3 to 3.5	---	---	ND
C2-6	6 to 6.5	ND	ND	ND

TABLE 5
Summary of Organochlorine Pesticides, PCBs, and VOCs Results
800 Cedar Street Stockpiles
Oakland, California

Sample ID	Sample Depth (ft)	Organochlorine Pesticides	PCBs	VOCs
C4-0	0 to 0.5	ND	ND	---
C4-3	3 to 3.5	---	---	ND
C4-6	6 to 6.5	---	---	ND
D1-0	0 to 0.5	ND	ND	---
D1-4	4 to 4.5	---	---	ND
D1-7.5	7.5 to 8	---	---	ND
D2-4	4 to 4.5	ND	ND	---
D3-4	4 to 4.5	---	---	ND
D3-7.5	7.5 to 8	---	---	ND
D4-7.5	7.5 to 8	ND	ND	---
D5-3	3 to 3.5	4,4'-DDD = 2.7	ND	ND
D6-0	0 to 0.5	ND	ND	---
D8-3	3 to 3.5	---	---	ND
E1-0	0 to 0.5	ND	ND	---
E1-3	3 to 3.5	---	---	ND
E1-6	6 to 6.5	---	---	ND
E2-3	3 to 3.5	alpha-Chlordane = 9.3 gamma-Chlordane = 7.1 Chlordane = 29	ND	---
E3-3	3 to 3.5	---	---	ND
E3-6	6 to 6.5	---	---	ND
E4-6	6 to 6.5	alpha-Chlordane = 1.6 gamma-Chlordane = 2.9 Dieldrin = 4.0	Aroclor 1254 = 99	---
<u>Stockpile 2</u>				
G1-4	4 to 4.5	---	---	ND
G1-8	8 to 8.5	ND	ND	ND
G2-0	0 to 0.5	ND	ND	---
G3-4	4 to 4.5	ND	ND	ND
G3-8	8 to 8.5	---	---	ND

TABLE 5
Summary of Organochlorine Pesticides, PCBs, and VOCs Results
800 Cedar Street Stockpiles
Oakland, California

Sample ID	Sample Depth (ft)	Organochlorine Pesticides	PCBs	VOCs
G4-4	4 to 4.5	ND	ND	---
G5-4	4 to 4.5	ND	ND	ND
G5-8	8 to 8.5	---	---	ND
Stockpile 3				
H1-0	0 to 0.5	ND	ND	---
H1-2	2 to 2.5	---	---	ND
H1-4	4 to 4.5	---	---	ND
H2-2	2 to 2.5	ND	ND	ND
H2-4	4 to 4.5	---	---	ND
H3-2	2 to 2.5	---	---	ND
H3-4	4 to 4.5	4,4'-DDE = 4.1 4,4'-DDT = 5.9	ND	ND
H4-2	2 to 2.5	ND	ND	ND
H4-4	4 to 4.5	---	---	ND
ESLs				
	Residential	Chlordane = 440* 4,4'-DDD = 2,400 4,4'-DDT = 1,700 Dieldrin = 2.3	Total PCBs = 220	---
	Commercial/Industrial	Chlordane = 1,700* 4,4'-DDD = 10,000 4,4'-DDT = 4,000 Dieldrin = 2.3	Total PCBs = 740	---
	Construction Exposure	Chlordane = 12,000* 4,4'-DDD = 70,000 4,4'-DDT = 50,000 Dieldrin = 930	Total PCBs = 2,700	---

Notes:

Results reported in micrograms per kilogram µg/kg

PCBs ESLs = Environmental Screening Levels, Tables A and K-3, SFRWQCB, December 2013.

VOCs = Volatile organic compounds

ND = Not detected at or above the reporting limits

--- = No standard exists for this compound

ESLs = Environmental Screening Levels, Tables A and K-3, SFRWQCB, December 2013.

* Standards are shown for Chlordane as no standards exist for alpha- or gamma-Chlordane

TABLE 6
Summary of Semi-volatile Organic Compounds Results
800 Cedar Street Stockpiles
Oakland, California

Sample ID	Sample Depth (ft)	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
Stockpile 1																		
A2-0	0 to 0.5	<5.0	<5.0	24	27	140	380	330	380	100	200	<50	470	6.0	180	<5.0	160	870
A2-4	4 to 4.5	<25	<25	<25	<25	27	<250	<250	<250	<250	52	<250	55	<25	<250	<25	25	58
A2-7.5	7.5 to 8	<5.0	<5.0	<5.0	8.4	110	110	140	<50	60	120	<50	100	<5.0	<50	<5.0	33	110
A4-0	0 to 0.5	<5.0	<5.0	25	29	140	460	400	410	160	310	<50	500	5.3	170	<5.0	190	1,200
A4-4	4 to 4.5	<5.0	<5.0	13	17	77	220	210	150	73	110	<50	240	<5.0	73	<5.0	100	490
A4-7.5	7.5 to 8	<5.0	<5.0	<5.0	<5.0	6.3	<50	<50	<50	<50	20	<50	11	<5.0	<50	<5.0	7.7	16
B2-0	0 to 0.5	<5.0	<5.0	37	36	190	510	460	330	160	260	<50	640	8.0	160	5.3	180	1,100
B2-5	5 to 5.5	<5.0	<5.0	29	34	340	<100	120	<100	<100	430	<100	750	8.0	<100	<5.0	180	1,300
B2-10	10 to 10.5	<5.0	<5.0	<5.0	<5.0	<50	<100	<100	<100	<100	<50	<100	41	<5.0	<100	<5.0	27	48
B2-15.5	15.5 to16	<5.0	<5.0	<5.0	<5.0	<50	<100	<100	<100	<100	<50	<100	<5.0	<5.0	<100	<5.0	<5.0	<5.0
B4-0	0 to 0.5	<5.0	<5.0	<5.0	<5.0	<50	<100	<100	<100	<100	<50	<100	17	<5.0	<100	<5.0	11	25
B4-5	5 to 5.5	<5.0	<5.0	<5.0	20	90	<100	<100	<100	<100	83	<100	160	<5.0	<100	<5.0	110	110
B4-10	10 to 10.5	<5.0	<5.0	<5.0	<5.0	<50	<100	<100	<100	<100	<50	<100	15	<5.0	<100	<5.0	10	15
B4-15.5	15.5 to16	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	6.4	<5.0	<5.0	<5.0	<5.0	5.0	<5.0	<5.0	<5.0	<5.0	5.7
B6-0	0 to 0.5	<10	<10	<10	13	93	<50	73	<50	<50	110	<50	210	<10	<50	<10	57	290
B6-5	5 to 5.5	22	15	<1000	<1000	5,300	7,400	11,000	3,900	4,000	6,200	<1000	18,000	57	3,600	110	5,800	20,000
B6-10	10 to 10.5	<5.0	<5.0	<5.0	<5.0	24	36	52	23	20	32	<5.0	83	<5.0	20	<5.0	29	90
B6-15.5	15.5 to16	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
B8-0	0 to 0.5	10	53	29	97	190	120	130	100	50	210	<50	510	51	57	13	390	270
B8-5	5 to 5.5	<10	<10	23	28	190	300	330	190	120	220	<50	270	<10	110	<10	130	290
B8-10	10 to 10.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	11	<10	<10	<10	<10	13
B8-15.5	15.5 to16	<10	<10	<10	<10	29	190	250	80	100	29	<50	45	<10	64	<10	29	39

TABLE 6
Summary of Semi-volatile Organic Compounds Results
800 Cedar Street Stockpiles
Oakland, California

Sample ID	Sample Depth (ft)	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
C1-0	0 to 0.5	<5.0	<5.0	<5.0	<5.0	9.3	<50	<50	<50	<50	22	<50	13	<5.0	<50	<5.0	11	17
C1-3	3 to 3.5	<5.0	<5.0	<5.0	<5.0	<50	<50	<50	<50	<50	<50	<50	6.7	<5.0	<50	<5.0	<5.0	9.3
C1-6	6 to 6.5	<5.0	7.0	<5.0	17	100	160	180	50	87	97	<50	67	5.7	<50	5.7	44	70
C3-0	0 to 0.5	<5.0	<5.0	<5.0	<5.0	<50	<50	60	<50	<50	<50	<50	31	<5.0	<50	<5.0	13	32
C3-3	3 to 3.5	<5.0	<5.0	25	87	170	430	360	300	140	210	<50	930	19	150	<5.0	610	1,700
C3-6	6 to 6.5	<10	<10	<10	<10	32	53	60	56	<50	46	<50	75	<10	<50	<10	31	100
D1-0	0 to 0.5	<5.0	<5.0	<5.0	12	<50	<50	<50	<50	<50	<50	<50	66	<5.0	<50	<5.0	36	57
D1-4	4 to 4.5	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<50	<50	<50	<5.0	<50	<5.0	<5.0	<50	<5.0	<5.0	<5.0
D1-7.5	7.5 to 8	<5.0	<5.0	16	25	110	320	270	230	120	140	<50	450	5.3	110	<5.0	130	780
D3-0	0 to 0.5	<5.0	<5.0	<5.0	<5.0	9.3	<50	<50	<50	<50	20	<50	23	<5.0	<50	<5.0	13	24
D3-4	4 to 4.5	6.6	7.0	28	30	150	540	380	460	160	190	<50	680	9.3	170	7.3	200	1,400
D3-7.5	7.5 to 8	<5.0	<5.0	<5.0	<5.0	15	<50	<50	<50	<50	18	<50	45	<5.0	<50	<5.0	14	86
D5-0	0 to 0.5	<10	<10	<10	<10	<100	<100	<100	<100	<100	<100	<100	22	<10	<100	<10	13	25
D5-3	3 to 3.5	<10	<10	<10	<10	<100	<100	<100	<100	<100	<100	<100	19	<10	<100	<10	<10	22
D7-0	0 to 0.5	<10	<10	<10	<10	13	<50	<50	<50	<50	14	<50	23	<10	<50	<10	19	24
D7-3	3 to 3.5	<10	<10	<10	<10	<50	<50	<50	<50	<50	<50	<50	49	<10	<50	<10	15	51
E1-0	0 to 0.5	<5.0	<5.0	<5.0	<5.0	11	<50	<50	<50	<50	12	<50	19	<5.0	<50	<5.0	8.0	19
E1-3	3 to 3.5	<5.0	<5.0	<5.0	<5.0	12	<100	<100	<100	<100	11	<100	17	<5.0	<100	<5.0	7.4	18
E1-6	6 to 6.5	<5.0	<5.0	<5.0	<5.0	28	<100	<100	<100	<100	29	<100	35	<5.0	<100	<5.0	11	35

TABLE 6
Summary of Semi-volatile Organic Compounds Results
800 Cedar Street Stockpiles
Oakland, California

Sample ID	Sample Depth (ft)	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
E3-0	0 to 0.5	<5.0	<5.0	<5.0	<5.0	<50	<100	<100	<100	<100	<50	<100	19	<5.0	<100	<5.0	14	23
E3-3	3 to 3.5	<5.0	28	36	120	320	330	380	130	180	330	<100	680	32	120	5.3	460	710
E3-6	6 to 6.5	<5.0	<5.0	<5.0	<5.0	16	<100	<100	<100	<100	27	<100	33	<5.0	<100	<5.0	23	32
Stockpile 2																		
G1-0	0 to 0.5	<5.0	<5.0	<5.0	<5.0	<5.0	5.3	10	<5.0	<5.0	7.4	<5.0	9.7	<5.0	<5.0	<5.0	5.3	11
G1-4	4 to 4.5	<5.0	<5.0	<5.0	<5.0	11	15	19	<5.0	5.0	13	<5.0	19	<5.0	<5.0	<5.0	6.7	26
G1-8	8 to 8.5	<5.0	<5.0	<5.0	19	18	17	20	<5.0	6.7	22	<5.0	33	<5.0	<5.0	<5.0	36	42
G2-0	0 to 0.5	<5.0	<5.0	<5.0	<5.0	5.3	7.7	10	<5.0	<5.0	6.7	<5.0	11	<5.0	<5.0	<5.0	5.3	14
G2-4	4 to 4.5	<5.0	<5.0	<5.0	<5.0	8.7	13	16	<5.0	5.7	11	<5.0	19	<5.0	<5.0	<5.0	5.7	25
G2-8	8 to 8.5	<5.0	<5.0	<5.0	<5.0	13	19	22	<5.0	7.0	13	<5.0	28	<5.0	<5.0	<5.0	6.0	36
G3-0	0 to 0.5	<5.0	<5.0	<5.0	<5.0	5.0	6.3	8.3	<5.0	<5.0	6.7	<5.0	11	<5.0	<5.0	<5.0	7.0	13
G3-4	4 to 4.5	<5.0	<5.0	<5.0	<5.0	6.4	9.0	12	<5.0	<5.0	6.7	<5.0	19	<5.0	<5.0	<5.0	11	20
G3-8	8 to 8.5	<5.0	<5.0	<5.0	<5.0	5.3	<50	<50	<50	<50	19	<50	15	<5.0	<50	<5.0	7.7	22
G4-0	0 to 0.5	<5.0	<5.0	23	130	290	260	250	130	110	300	<50	510	22	110	<5.0	300	560
G4-4	4 to 4.5	<5.0	<5.0	<5.0	<5.0	<50	<50	<50	<50	<50	<50	<50	<5.0	<5.0	<50	<5.0	<5.0	<5.0
G4-8	8 to 8.5	<5.0	<5.0	7.7	13	<50	<50	60	<50	<50	60	<50	58	5.0	<50	<5.0	44	62
G5-0	0 to 0.5	<5.0	8.7	8.4	19	<50	<50	<50	<50	<50	<50	<50	86	6.4	<50	<5.0	77	97
G5-4	4 to 4.5	<5.0	<5.0	<5.0	8.3	<50	<50	<50	<50	<50	<50	<50	30	<5.0	<50	<5.0	14	33
G5-8	8 to 8.5	<5.0	<5.0	7.3	19	<50	60	<50	<50	<50	<50	<50	48	<5.0	<50	<5.0	31	53

TABLE 6
Summary of Semi-volatile Organic Compounds Results
800 Cedar Street Stockpiles
Oakland, California

Sample ID	Sample Depth (ft)	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
Stockpile 3																		
H1-0	0 to 0.5	<5.0	<5.0	<5.0	<5.0	8.0	7.7	8.7	5.7	10	10	6.3	5.3	<5.0	5.3	<5.0	<5.0	5.3
H1-2	2 to 2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
H1-4	4 to 4.5	<5.0	<5.0	5.3	10	52	70	130	57	50	87	<50	130	<5.0	<50	<5.0	41	120
H2-0	0 to 0.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
H2-2	2 to 2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
H2-4	4 to 4.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
H3-0	0 to 0.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
H3-2	2 to 2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
H3-4	4 to 4.5	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<50	<50	<50	11	<50	9.0	<5.0	<50	<5.0	<5.0	9.3
H4-0	0 to 0.5	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<50	<50	<50	<5.0	<50	<5.0	<5.0	<50	<5.0	<5.0	<5.0
H4-2	2 to 2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
H4-4	4 to 4.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	ESLs																	
	Residential	250	16,000	13,000	2,800	380	38	380	27,000	380	3,800	110	40,000	8,900	380	1,200	11,000	85,000
	Commercial/Industrial	250	16,000	13,000	2,800	1,300	130	1,300	27,000	1,300	13,000	380	40,000	8,900	1,300	1,200	11,000	85,000
	Construction Exposure	570,000	8,600,000	---	43,000,000	8,300	830	8,300	---	8,300	83,000	2,400	5,700,000	5,700,000	8,300	370,000	---	8,600,000

Notes:

Results reported in micrograms per kilogram µg/kg

< = Not detected at or above the stated reporting limit

ND = Not detected at or above the reporting limits

--- = No standard exists for this compound

ESLs = Environmental Screening Levels (Tables A-1, A-2 and K-3)

APPENDIX A

September 24, 2013

Rick Day
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

CA-ELAP No.:2676
NV Cert. No.:NV-009222007A

Workorder No.: N011008

RE: Caltrans - Cedar Street Stockpiles, E8560-02-55

Attention: Rick Day

Enclosed are the results for sample(s) received on September 13, 2013 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

Jose Tenorio Jr.
Laboratory Director

Advanced Technology Laboratories, Inc. **Date:** *24-Sep-13*

CLIENT: Geocon Consultants, Inc.
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55
Lab Order: N011008

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Samples were analyzed within method holding time.

Analytical Comments for EPA 6010B:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

RPD for Matrix Spike(MS) and Matrix Spike Duplicate(MSD) is outside criteria for Lead ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

RPD for sample duplicates N011008-002, N011008-020 are outside criteria for some analytes ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Analytical Comments for EPA 7196:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 8015B_DRO/ORO:

RPD for Matrix Spike(MS) and Matrix Spike Duplicate(MSD) on N011008-003A-MS/MSD is outside criteria ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

RPD for sample duplicates N011008-006, N011008-024 are outside criteria ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Analytical Comments for EPA 8081A:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Surrogate Tetrachloro-m-xylene recovery bias low on sample N011008-023 possibly due to matrix interference. Soil sample was clay type. The other surrogate was recovered within control limits.

Analytical Comments for EPA 8082:

Surrogate Tetrachloro-m-xylene recovery bias low on sample N011008-023 possibly due to matrix interference. Soil sample was clay type. The other surrogate was recovered within control limits.

Analytical Comments for EPA 8270C_SIM:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

RPD for Matrix Spike(MS) and Matrix Spike Duplicate(MSD) is outside criteria for some analytes ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

RPD for sample duplicates are outside criteria for some analytes ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Internal Standard Perylene-d12 low bias on samples N011008-003, N011008-009, N011008-010, N011008-011A-MS and N011008-021 possibly due to matrix interference. Samples were analyzed with dilution and internal standard met method criteria. Affected analytes for this failed internal standard were reported at a dilution that meet internal standard recovery limit.

Internal Standards Perylene-d12 and Chrysene-d12 low bias on samples N011008-022, N011008-022-DUP, N011008-023, N011008-024, N011008-025, N011008-026, N011008-027 possibly due to matrix interference. Samples were analyzed with dilution and internal standard met method criteria. Affected analytes for these failed internal standards were reported at a dilution that meet internal standard recovery limit.

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H1-0
Lab Order:	N011008	**Collection Date:**	9/11/2013 9:50:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-001		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130917A QC Batch: 43888 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/17/2013 01:34 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/17/2013 01:34 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/17/2013 01:34 PM
Anthracene	ND	5.0		µg/Kg	1	9/17/2013 01:34 PM
Benzo(a)anthracene	8.0	5.0		µg/Kg	1	9/17/2013 01:34 PM
Benzo(a)pyrene	7.7	5.0		µg/Kg	1	9/17/2013 01:34 PM
Benzo(b)fluoranthene	8.7	5.0		µg/Kg	1	9/17/2013 01:34 PM
Benzo(g,h,i)perylene	5.7	5.0		µg/Kg	1	9/17/2013 01:34 PM
Benzo(k)fluoranthene	10	5.0		µg/Kg	1	9/17/2013 01:34 PM
Chrysene	10	5.0		µg/Kg	1	9/17/2013 01:34 PM
Dibenz(a,h)anthracene	6.3	5.0		µg/Kg	1	9/17/2013 01:34 PM
Fluoranthene	5.3	5.0		µg/Kg	1	9/17/2013 01:34 PM
Fluorene	ND	5.0		µg/Kg	1	9/17/2013 01:34 PM
Indeno(1,2,3-cd)pyrene	5.3	5.0		µg/Kg	1	9/17/2013 01:34 PM
Naphthalene	ND	5.0		µg/Kg	1	9/17/2013 01:34 PM
Phenanthrene	ND	5.0		µg/Kg	1	9/17/2013 01:34 PM
Pyrene	5.3	5.0		µg/Kg	1	9/17/2013 01:34 PM
Surr: 1,2-Dichlorobenzene-d4	41.0	14-120		%REC	1	9/17/2013 01:34 PM
Surr: 2-Fluorobiphenyl	50.1	28-130		%REC	1	9/17/2013 01:34 PM
Surr: 4-Terphenyl-d14	88.1	19-165		%REC	1	9/17/2013 01:34 PM
Surr: Nitrobenzene-d5	53.1	23-150		%REC	1	9/17/2013 01:34 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130917A QC Batch: 43889 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	7.7	1.0		mg/Kg	1	9/17/2013 02:49 PM
ORO	26	1.0		mg/Kg	1	9/17/2013 02:49 PM
Surr: p-Terphenyl	74.6	59-127		%REC	1	9/17/2013 02:49 PM

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919A QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
4,4´-DDD	ND	2.0		µg/Kg	1	9/19/2013 01:18 AM
4,4´-DDE	ND	2.0		µg/Kg	1	9/19/2013 01:18 AM
4,4´-DDT	ND	2.0		µg/Kg	1	9/19/2013 01:18 AM
Aldrin	ND	1.0		µg/Kg	1	9/19/2013 01:18 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/19/2013 01:18 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H1-0
Lab Order:	N011008	**Collection Date:**	9/11/2013 9:50:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-001		

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919A QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
alpha-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 01:18 AM
beta-BHC	ND	1.0		µg/Kg	1	9/19/2013 01:18 AM
Chlordane	ND	8.5		µg/Kg	1	9/19/2013 01:18 AM
delta-BHC	ND	1.0		µg/Kg	1	9/19/2013 01:18 AM
Dieldrin	ND	2.0		µg/Kg	1	9/19/2013 01:18 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/19/2013 01:18 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/19/2013 01:18 AM
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/19/2013 01:18 AM
Endrin	ND	2.0		µg/Kg	1	9/19/2013 01:18 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/19/2013 01:18 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/19/2013 01:18 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/19/2013 01:18 AM
gamma-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 01:18 AM
Heptachlor	ND	1.0		µg/Kg	1	9/19/2013 01:18 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/19/2013 01:18 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/19/2013 01:18 AM
Toxaphene	ND	85		µg/Kg	1	9/19/2013 01:18 AM
Surr: Tetrachloro-m-xylene	55.9	28-161		%REC	1	9/19/2013 01:18 AM
Surr: Decachlorobiphenyl	81.2	28-120		%REC	1	9/19/2013 01:18 AM

PCBS BY GC/ECD

EPA 3550B **EPA 8082**

RunID: GC7_130917B QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Aroclor 1016	ND	17		µg/Kg	1	9/18/2013 01:04 AM
Aroclor 1221	ND	33		µg/Kg	1	9/18/2013 01:04 AM
Aroclor 1232	ND	17		µg/Kg	1	9/18/2013 01:04 AM
Aroclor 1242	ND	17		µg/Kg	1	9/18/2013 01:04 AM
Aroclor 1248	ND	17		µg/Kg	1	9/18/2013 01:04 AM
Aroclor 1254	ND	17		µg/Kg	1	9/18/2013 01:04 AM
Aroclor 1260	ND	17		µg/Kg	1	9/18/2013 01:04 AM
Surr: Decachlorobiphenyl	99.6	40-146		%REC	1	9/18/2013 01:04 AM
Surr: Tetrachloro-m-xylene	76.0	32-109		%REC	1	9/18/2013 01:04 AM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130918D QC Batch: 43902 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	ND	5.0		mg/Kg	1	9/18/2013 07:26 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H1-2
Lab Order:	N011008	**Collection Date:**	9/11/2013 9:55:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-002		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130917A QC Batch: 43888 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/17/2013 02:03 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/17/2013 02:03 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/17/2013 02:03 PM
Anthracene	ND	5.0		µg/Kg	1	9/17/2013 02:03 PM
Benzo(a)anthracene	ND	5.0		µg/Kg	1	9/17/2013 02:03 PM
Benzo(a)pyrene	ND	5.0		µg/Kg	1	9/17/2013 02:03 PM
Benzo(b)fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 02:03 PM
Benzo(g,h,i)perylene	ND	5.0		µg/Kg	1	9/17/2013 02:03 PM
Benzo(k)fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 02:03 PM
Chrysene	ND	5.0		µg/Kg	1	9/17/2013 02:03 PM
Dibenz(a,h)anthracene	ND	5.0		µg/Kg	1	9/17/2013 02:03 PM
Fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 02:03 PM
Fluorene	ND	5.0		µg/Kg	1	9/17/2013 02:03 PM
Indeno(1,2,3-cd)pyrene	ND	5.0		µg/Kg	1	9/17/2013 02:03 PM
Naphthalene	ND	5.0		µg/Kg	1	9/17/2013 02:03 PM
Phenanthrene	ND	5.0		µg/Kg	1	9/17/2013 02:03 PM
Pyrene	ND	5.0		µg/Kg	1	9/17/2013 02:03 PM
Surr: 1,2-Dichlorobenzene-d4	41.0	14-120		%REC	1	9/17/2013 02:03 PM
Surr: 2-Fluorobiphenyl	47.0	28-130		%REC	1	9/17/2013 02:03 PM
Surr: 4-Terphenyl-d14	64.1	19-165		%REC	1	9/17/2013 02:03 PM
Surr: Nitrobenzene-d5	51.1	23-150		%REC	1	9/17/2013 02:03 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/19/2013 12:51 PM

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT: Geocon Consultants, Inc.
Client Sample ID: H1-2
Lab Order: N011008
Collection Date: 9/11/2013 9:55:00 AM
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55
Matrix: SOIL
Lab ID: N011008-002

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
Benzene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
Bromoform	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
Bromomethane	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
Chloroethane	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
Chloroform	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
Chloromethane	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
m,p-Xylene	ND	10		µg/Kg	1	9/19/2013 12:51 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
MTBE	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
Naphthalene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM

Qualifiers:

Code	Meaning	Code	Meaning
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H1-2
Lab Order:	N011008	**Collection Date:**	9/11/2013 9:55:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-002		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
o-Xylene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
Styrene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
Toluene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/19/2013 12:51 PM
Surr: 1,2-Dichloroethane-d4	95.2	63-139		%REC	1	9/19/2013 12:51 PM
Surr: 4-Bromofluorobenzene	89.0	75-124		%REC	1	9/19/2013 12:51 PM
Surr: Dibromofluoromethane	95.1	70-133		%REC	1	9/19/2013 12:51 PM
Surr: Toluene-d8	89.1	80-123		%REC	1	9/19/2013 12:51 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130917A QC Batch: 43889 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	7.2	1.0		mg/Kg	1	9/17/2013 03:14 PM
ORO	26	1.0		mg/Kg	1	9/17/2013 03:14 PM
Surr: p-Terphenyl	85.1	59-127		%REC	1	9/17/2013 03:14 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130917A QC Batch: E13VS095 PrepDate: Analyst: **PN**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GRO	ND	1.0		mg/Kg	1	9/17/2013 10:19 AM
Surr: Chlorobenzene - d5	106	51-136		%REC	1	9/17/2013 10:19 AM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43890 PrepDate: 9/17/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	0.43	0.10		mg/Kg	1	9/18/2013

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130921A QC Batch: 43901 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/21/2013 01:41 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H1-2
Lab Order:	N011008	**Collection Date:**	9/11/2013 9:55:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-002		

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130921A QC Batch: 43901 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Arsenic	ND	1.0		mg/Kg	1	9/21/2013 01:41 PM
Barium	27	1.0		mg/Kg	1	9/21/2013 01:41 PM
Beryllium	ND	1.0		mg/Kg	1	9/21/2013 01:41 PM
Cadmium	ND	1.0		mg/Kg	1	9/21/2013 01:41 PM
Chromium	32	1.0		mg/Kg	1	9/21/2013 01:41 PM
Cobalt	19	1.0		mg/Kg	1	9/21/2013 01:41 PM
Copper	32	2.0		mg/Kg	1	9/21/2013 01:41 PM
Lead	1.9	1.0		mg/Kg	1	9/21/2013 01:41 PM
Molybdenum	ND	1.0		mg/Kg	1	9/21/2013 01:41 PM
Nickel	25	1.0		mg/Kg	1	9/21/2013 01:41 PM
Selenium	2.5	1.0		mg/Kg	1	9/21/2013 01:41 PM
Silver	ND	1.0		mg/Kg	1	9/21/2013 01:41 PM
Thallium	ND	1.0		mg/Kg	1	9/21/2013 01:41 PM
Vanadium	98	1.0		mg/Kg	1	9/21/2013 01:41 PM
Zinc	21	1.0		mg/Kg	1	9/21/2013 01:41 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H1-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:00:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-003		

Analyses	**Result**	**PQL**	**Qual**	**Units**	**DF**	**Date Analyzed**
HEXAVALENT CHROMIUM						
EPA 3060A				**EPA 7196A**		
RunID: WETCHEM_130920C	QC Batch: 43908			PrepDate:	9/19/2013	Analyst: **QBM**
Chromium, Hexavalent	2.0	1.0		mg/Kg	1	9/20/2013
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3550B				**EPA 8270CSIM**		
RunID: MS3_130917A	QC Batch: 43888			PrepDate:	9/17/2013	Analyst: **MDM**
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/17/2013 02:31 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/17/2013 02:31 PM
Acenaphthylene	5.3	5.0		µg/Kg	1	9/17/2013 02:31 PM
Anthracene	10	5.0		µg/Kg	1	9/17/2013 02:31 PM
Benzo(a)anthracene	52	5.0		µg/Kg	1	9/17/2013 02:31 PM
Benzo(a)pyrene	70	50		µg/Kg	10	9/22/2013 10:52 AM
Benzo(b)fluoranthene	130	50		µg/Kg	10	9/22/2013 10:52 AM
Benzo(g,h,i)perylene	57	50		µg/Kg	10	9/22/2013 10:52 AM
Benzo(k)fluoranthene	50	50		µg/Kg	10	9/22/2013 10:52 AM
Chrysene	87	5.0		µg/Kg	1	9/17/2013 02:31 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/22/2013 10:52 AM
Fluoranthene	130	5.0		µg/Kg	1	9/17/2013 02:31 PM
Fluorene	ND	5.0		µg/Kg	1	9/17/2013 02:31 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/Kg	10	9/22/2013 10:52 AM
Naphthalene	ND	5.0		µg/Kg	1	9/17/2013 02:31 PM
Phenanthrene	41	5.0		µg/Kg	1	9/17/2013 02:31 PM
Pyrene	120	5.0		µg/Kg	1	9/17/2013 02:31 PM
Surr: 1,2-Dichlorobenzene-d4	42.0	14-120		%REC	1	9/17/2013 02:31 PM
Surr: 2-Fluorobiphenyl	54.1	28-130		%REC	1	9/17/2013 02:31 PM
Surr: 4-Terphenyl-d14	84.1	19-165		%REC	1	9/17/2013 02:31 PM
Surr: Nitrobenzene-d5	56.1	23-150		%REC	1	9/17/2013 02:31 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS6_130919A	QC Batch: Q13VS001			PrepDate:		Analyst: **QBM**
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H1-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:00:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-003		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/19/2013 01:12 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
Benzene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
Bromoform	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
Bromomethane	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
Chloroethane	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
Chloroform	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
Chloromethane	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
m,p-Xylene	ND	10		µg/Kg	1	9/19/2013 01:12 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT: Geocon Consultants, Inc.
Client Sample ID: H1-4
Lab Order: N011008
Collection Date: 9/11/2013 10:00:00 AM
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55
Matrix: SOIL
Lab ID: N011008-003

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Methylene chloride	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
MTBE	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
Naphthalene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
o-Xylene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
Styrene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
Toluene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/19/2013 01:12 PM
Surr: 1,2-Dichloroethane-d4	86.9	63-139		%REC	1	9/19/2013 01:12 PM
Surr: 4-Bromofluorobenzene	76.5	75-124		%REC	1	9/19/2013 01:12 PM
Surr: Dibromofluoromethane	82.5	70-133		%REC	1	9/19/2013 01:12 PM
Surr: Toluene-d8	83.9	80-123		%REC	1	9/19/2013 01:12 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130917A QC Batch: 43889 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	52	1.0		mg/Kg	1	9/17/2013 03:40 PM
ORO	130	1.0		mg/Kg	1	9/17/2013 03:40 PM
Surr: p-Terphenyl	96.7	59-127		%REC	1	9/17/2013 03:40 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130917A QC Batch: E13VS095 PrepDate: Analyst: **PN**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GRO	ND	1.0		mg/Kg	1	9/17/2013 10:47 AM
Surr: Chlorobenzene - d5	102	51-136		%REC	1	9/17/2013 10:47 AM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43890 PrepDate: 9/17/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	0.26	0.099		mg/Kg	1	9/18/2013

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H1-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:00:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-003		

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130921A QC Batch: 43901 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/21/2013 02:06 PM
Arsenic	4.1	1.0		mg/Kg	1	9/21/2013 02:06 PM
Barium	130	1.0		mg/Kg	1	9/21/2013 02:06 PM
Beryllium	ND	1.0		mg/Kg	1	9/21/2013 02:06 PM
Cadmium	ND	1.0		mg/Kg	1	9/21/2013 02:06 PM
Chromium	40	1.0		mg/Kg	1	9/21/2013 02:06 PM
Cobalt	14	1.0		mg/Kg	1	9/21/2013 02:06 PM
Copper	75	2.0		mg/Kg	1	9/21/2013 02:06 PM
Lead	460	1.0		mg/Kg	1	9/21/2013 02:06 PM
Molybdenum	ND	1.0		mg/Kg	1	9/21/2013 02:06 PM
Nickel	29	1.0		mg/Kg	1	9/21/2013 02:06 PM
Selenium	2.2	1.0		mg/Kg	1	9/21/2013 02:06 PM
Silver	ND	1.0		mg/Kg	1	9/21/2013 02:06 PM
Thallium	ND	1.0		mg/Kg	1	9/21/2013 02:06 PM
Vanadium	56	1.0		mg/Kg	1	9/21/2013 02:06 PM
Zinc	300	1.0		mg/Kg	1	9/21/2013 02:06 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H2-0
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:05:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-004		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130917A QC Batch: 43888 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/17/2013 02:59 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/17/2013 02:59 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/17/2013 02:59 PM
Anthracene	ND	5.0		µg/Kg	1	9/17/2013 02:59 PM
Benzo(a)anthracene	ND	5.0		µg/Kg	1	9/17/2013 02:59 PM
Benzo(a)pyrene	ND	5.0		µg/Kg	1	9/17/2013 02:59 PM
Benzo(b)fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 02:59 PM
Benzo(g,h,i)perylene	ND	5.0		µg/Kg	1	9/17/2013 02:59 PM
Benzo(k)fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 02:59 PM
Chrysene	ND	5.0		µg/Kg	1	9/17/2013 02:59 PM
Dibenz(a,h)anthracene	ND	5.0		µg/Kg	1	9/17/2013 02:59 PM
Fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 02:59 PM
Fluorene	ND	5.0		µg/Kg	1	9/17/2013 02:59 PM
Indeno(1,2,3-cd)pyrene	ND	5.0		µg/Kg	1	9/17/2013 02:59 PM
Naphthalene	ND	5.0		µg/Kg	1	9/17/2013 02:59 PM
Phenanthrene	ND	5.0		µg/Kg	1	9/17/2013 02:59 PM
Pyrene	ND	5.0		µg/Kg	1	9/17/2013 02:59 PM
Surr: 1,2-Dichlorobenzene-d4	40.0	14-120		%REC	1	9/17/2013 02:59 PM
Surr: 2-Fluorobiphenyl	51.1	28-130		%REC	1	9/17/2013 02:59 PM
Surr: 4-Terphenyl-d14	83.1	19-165		%REC	1	9/17/2013 02:59 PM
Surr: Nitrobenzene-d5	54.1	23-150		%REC	1	9/17/2013 02:59 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130917A QC Batch: 43889 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	18	1.0		mg/Kg	1	9/17/2013 04:06 PM
ORO	69	1.0		mg/Kg	1	9/17/2013 04:06 PM
Surr: p-Terphenyl	78.4	59-127		%REC	1	9/17/2013 04:06 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43890 PrepDate: 9/17/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	0.23	0.10		mg/Kg	1	9/18/2013

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130921A QC Batch: 43901 PrepDate: 9/18/2013 Analyst: **JT**

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H2-0
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:05:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-004		

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130921A QC Batch: 43901 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/21/2013 02:13 PM
Arsenic	ND	1.0		mg/Kg	1	9/21/2013 02:13 PM
Barium	24	1.0		mg/Kg	1	9/21/2013 02:13 PM
Beryllium	ND	1.0		mg/Kg	1	9/21/2013 02:13 PM
Cadmium	ND	1.0		mg/Kg	1	9/21/2013 02:13 PM
Chromium	24	1.0		mg/Kg	1	9/21/2013 02:13 PM
Cobalt	16	1.0		mg/Kg	1	9/21/2013 02:13 PM
Copper	50	2.0		mg/Kg	1	9/21/2013 02:13 PM
Lead	2.5	1.0		mg/Kg	1	9/21/2013 02:13 PM
Molybdenum	ND	1.0		mg/Kg	1	9/21/2013 02:13 PM
Nickel	23	1.0		mg/Kg	1	9/21/2013 02:13 PM
Selenium	2.1	1.0		mg/Kg	1	9/21/2013 02:13 PM
Silver	ND	1.0		mg/Kg	1	9/21/2013 02:13 PM
Thallium	ND	1.0		mg/Kg	1	9/21/2013 02:13 PM
Vanadium	79	1.0		mg/Kg	1	9/21/2013 02:13 PM
Zinc	25	1.0		mg/Kg	1	9/21/2013 02:13 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H2-2
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:10:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-005		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130917A QC Batch: 43888 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/17/2013 03:55 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/17/2013 03:55 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/17/2013 03:55 PM
Anthracene	ND	5.0		µg/Kg	1	9/17/2013 03:55 PM
Benzo(a)anthracene	ND	5.0		µg/Kg	1	9/17/2013 03:55 PM
Benzo(a)pyrene	ND	5.0		µg/Kg	1	9/17/2013 03:55 PM
Benzo(b)fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 03:55 PM
Benzo(g,h,i)perylene	ND	5.0		µg/Kg	1	9/17/2013 03:55 PM
Benzo(k)fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 03:55 PM
Chrysene	ND	5.0		µg/Kg	1	9/17/2013 03:55 PM
Dibenz(a,h)anthracene	ND	5.0		µg/Kg	1	9/17/2013 03:55 PM
Fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 03:55 PM
Fluorene	ND	5.0		µg/Kg	1	9/17/2013 03:55 PM
Indeno(1,2,3-cd)pyrene	ND	5.0		µg/Kg	1	9/17/2013 03:55 PM
Naphthalene	ND	5.0		µg/Kg	1	9/17/2013 03:55 PM
Phenanthrene	ND	5.0		µg/Kg	1	9/17/2013 03:55 PM
Pyrene	ND	5.0		µg/Kg	1	9/17/2013 03:55 PM
Surr: 1,2-Dichlorobenzene-d4	30.0	14-120		%REC	1	9/17/2013 03:55 PM
Surr: 2-Fluorobiphenyl	47.0	28-130		%REC	1	9/17/2013 03:55 PM
Surr: 4-Terphenyl-d14	84.1	19-165		%REC	1	9/17/2013 03:55 PM
Surr: Nitrobenzene-d5	41.0	23-150		%REC	1	9/17/2013 03:55 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/19/2013 01:33 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H2-2
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:10:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-005		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
Benzene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
Bromoform	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
Bromomethane	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
Chloroethane	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
Chloroform	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
Chloromethane	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
m,p-Xylene	ND	10		µg/Kg	1	9/19/2013 01:33 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
MTBE	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
Naphthalene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H2-2
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:10:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-005		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
o-Xylene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
Styrene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
Toluene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/19/2013 01:33 PM
Surr: 1,2-Dichloroethane-d4	99.0	63-139		%REC	1	9/19/2013 01:33 PM
Surr: 4-Bromofluorobenzene	88.8	75-124		%REC	1	9/19/2013 01:33 PM
Surr: Dibromofluoromethane	96.3	70-133		%REC	1	9/19/2013 01:33 PM
Surr: Toluene-d8	88.9	80-123		%REC	1	9/19/2013 01:33 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130917A QC Batch: 43889 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	6.9	1.0		mg/Kg	1	9/17/2013 04:31 PM
ORO	24	1.0		mg/Kg	1	9/17/2013 04:31 PM
Surr: p-Terphenyl	78.1	59-127		%REC	1	9/17/2013 04:31 PM

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919A QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
4,4´-DDD	ND	2.0		µg/Kg	1	9/19/2013 01:45 AM
4,4´-DDE	ND	2.0		µg/Kg	1	9/19/2013 01:45 AM
4,4´-DDT	ND	2.0		µg/Kg	1	9/19/2013 01:45 AM
Aldrin	ND	1.0		µg/Kg	1	9/19/2013 01:45 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/19/2013 01:45 AM
alpha-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 01:45 AM
beta-BHC	ND	1.0		µg/Kg	1	9/19/2013 01:45 AM
Chlordane	ND	8.5		µg/Kg	1	9/19/2013 01:45 AM
delta-BHC	ND	1.0		µg/Kg	1	9/19/2013 01:45 AM
Dieldrin	ND	2.0		µg/Kg	1	9/19/2013 01:45 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/19/2013 01:45 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/19/2013 01:45 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H2-2
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:10:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-005		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD						
EPA 3550B				**EPA 8081A**		
RunID: GC7_130919A	QC Batch: 43887			PrepDate:	9/17/2013	Analyst: **MDM**
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/19/2013 01:45 AM
Endrin	ND	2.0		µg/Kg	1	9/19/2013 01:45 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/19/2013 01:45 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/19/2013 01:45 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/19/2013 01:45 AM
gamma-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 01:45 AM
Heptachlor	ND	1.0		µg/Kg	1	9/19/2013 01:45 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/19/2013 01:45 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/19/2013 01:45 AM
Toxaphene	ND	85		µg/Kg	1	9/19/2013 01:45 AM
Surr: Tetrachloro-m-xylene	55.7	28-161		%REC	1	9/19/2013 01:45 AM
Surr: Decachlorobiphenyl	68.1	28-120		%REC	1	9/19/2013 01:45 AM
PCBS BY GC/ECD						
EPA 3550B				**EPA 8082**		
RunID: GC7_130917B	QC Batch: 43887			PrepDate:	9/17/2013	Analyst: **MDM**
Aroclor 1016	ND	16		µg/Kg	1	9/18/2013 01:33 AM
Aroclor 1221	ND	33		µg/Kg	1	9/18/2013 01:33 AM
Aroclor 1232	ND	16		µg/Kg	1	9/18/2013 01:33 AM
Aroclor 1242	ND	16		µg/Kg	1	9/18/2013 01:33 AM
Aroclor 1248	ND	16		µg/Kg	1	9/18/2013 01:33 AM
Aroclor 1254	ND	16		µg/Kg	1	9/18/2013 01:33 AM
Aroclor 1260	ND	16		µg/Kg	1	9/18/2013 01:33 AM
Surr: Decachlorobiphenyl	69.1	40-146		%REC	1	9/18/2013 01:33 AM
Surr: Tetrachloro-m-xylene	69.5	32-109		%REC	1	9/18/2013 01:33 AM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B		
RunID: GC4_130917A	QC Batch: E13VS095			PrepDate:		Analyst: **PN**
GRO	ND	1.0		mg/Kg	1	9/17/2013 11:15 AM
Surr: Chlorobenzene - d5	115	51-136		%REC	1	9/17/2013 11:15 AM
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471				**EPA 7471A**		
RunID: AA1_130918E	QC Batch: 43890			PrepDate:	9/17/2013	Analyst: **JT**
Mercury	0.21	0.099		mg/Kg	1	9/18/2013

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H2-2
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:10:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-005		

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130921A QC Batch: 43901 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/21/2013 02:19 PM
Arsenic	ND	1.0		mg/Kg	1	9/21/2013 02:19 PM
Barium	28	1.0		mg/Kg	1	9/21/2013 02:19 PM
Beryllium	ND	1.0		mg/Kg	1	9/21/2013 02:19 PM
Cadmium	ND	1.0		mg/Kg	1	9/21/2013 02:19 PM
Chromium	28	1.0		mg/Kg	1	9/21/2013 02:19 PM
Cobalt	16	1.0		mg/Kg	1	9/21/2013 02:19 PM
Copper	62	2.0		mg/Kg	1	9/21/2013 02:19 PM
Lead	1.7	1.0		mg/Kg	1	9/21/2013 02:19 PM
Molybdenum	ND	1.0		mg/Kg	1	9/21/2013 02:19 PM
Nickel	25	1.0		mg/Kg	1	9/21/2013 02:19 PM
Selenium	2.1	1.0		mg/Kg	1	9/21/2013 02:19 PM
Silver	ND	1.0		mg/Kg	1	9/21/2013 02:19 PM
Thallium	ND	1.0		mg/Kg	1	9/21/2013 02:19 PM
Vanadium	83	1.0		mg/Kg	1	9/21/2013 02:19 PM
Zinc	22	1.0		mg/Kg	1	9/21/2013 02:19 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT: Geocon Consultants, Inc.
Client Sample ID: H2-4
Lab Order: N011008
Collection Date: 9/11/2013 10:15:00 AM
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55
Matrix: SOIL
Lab ID: N011008-006

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130917A QC Batch: 43888 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/17/2013 04:24 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/17/2013 04:24 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/17/2013 04:24 PM
Anthracene	ND	5.0		µg/Kg	1	9/17/2013 04:24 PM
Benzo(a)anthracene	ND	5.0		µg/Kg	1	9/17/2013 04:24 PM
Benzo(a)pyrene	ND	5.0		µg/Kg	1	9/17/2013 04:24 PM
Benzo(b)fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 04:24 PM
Benzo(g,h,i)perylene	ND	5.0		µg/Kg	1	9/17/2013 04:24 PM
Benzo(k)fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 04:24 PM
Chrysene	ND	5.0		µg/Kg	1	9/17/2013 04:24 PM
Dibenz(a,h)anthracene	ND	5.0		µg/Kg	1	9/17/2013 04:24 PM
Fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 04:24 PM
Fluorene	ND	5.0		µg/Kg	1	9/17/2013 04:24 PM
Indeno(1,2,3-cd)pyrene	ND	5.0		µg/Kg	1	9/17/2013 04:24 PM
Naphthalene	ND	5.0		µg/Kg	1	9/17/2013 04:24 PM
Phenanthrene	ND	5.0		µg/Kg	1	9/17/2013 04:24 PM
Pyrene	ND	5.0		µg/Kg	1	9/17/2013 04:24 PM
Surr: 1,2-Dichlorobenzene-d4	46.0	14-120		%REC	1	9/17/2013 04:24 PM
Surr: 2-Fluorobiphenyl	54.1	28-130		%REC	1	9/17/2013 04:24 PM
Surr: 4-Terphenyl-d14	78.1	19-165		%REC	1	9/17/2013 04:24 PM
Surr: Nitrobenzene-d5	55.1	23-150		%REC	1	9/17/2013 04:24 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/19/2013 01:55 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H2-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:15:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-006		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
Benzene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
Bromoform	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
Bromomethane	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
Chloroethane	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
Chloroform	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
Chloromethane	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
m,p-Xylene	ND	10		µg/Kg	1	9/19/2013 01:55 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
MTBE	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
Naphthalene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H2-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:15:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-006		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
o-Xylene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
Styrene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
Toluene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/19/2013 01:55 PM
Surr: 1,2-Dichloroethane-d4	83.4	63-139		%REC	1	9/19/2013 01:55 PM
Surr: 4-Bromofluorobenzene	89.0	75-124		%REC	1	9/19/2013 01:55 PM
Surr: Dibromofluoromethane	85.8	70-133		%REC	1	9/19/2013 01:55 PM
Surr: Toluene-d8	91.7	80-123		%REC	1	9/19/2013 01:55 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130917A QC Batch: 43889 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	6.5	1.0		mg/Kg	1	9/17/2013 04:57 PM
ORO	22	1.0		mg/Kg	1	9/17/2013 04:57 PM
Surr: p-Terphenyl	79.1	59-127		%REC	1	9/17/2013 04:57 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130917A QC Batch: E13VS095 PrepDate: Analyst: **PN**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GRO	ND	1.0		mg/Kg	1	9/17/2013 11:43 AM
Surr: Chlorobenzene - d5	115	51-136		%REC	1	9/17/2013 11:43 AM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130918D QC Batch: 43902 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	ND	5.0		mg/Kg	1	9/18/2013 07:30 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H3-0
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:20:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-007		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM						
EPA 3060A				**EPA 7196A**		
RunID: WETCHEM_130920C	QC Batch: 43908			PrepDate: 9/19/2013		Analyst: **QBM**
Chromium, Hexavalent	ND	1.0		mg/Kg	1	9/20/2013
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3550B				**EPA 8270CSIM**		
RunID: MS3_130917A	QC Batch: 43888			PrepDate: 9/17/2013		Analyst: **MDM**
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/17/2013 04:52 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/17/2013 04:52 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/17/2013 04:52 PM
Anthracene	ND	5.0		µg/Kg	1	9/17/2013 04:52 PM
Benzo(a)anthracene	ND	5.0		µg/Kg	1	9/17/2013 04:52 PM
Benzo(a)pyrene	ND	5.0		µg/Kg	1	9/17/2013 04:52 PM
Benzo(b)fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 04:52 PM
Benzo(g,h,i)perylene	ND	5.0		µg/Kg	1	9/17/2013 04:52 PM
Benzo(k)fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 04:52 PM
Chrysene	ND	5.0		µg/Kg	1	9/17/2013 04:52 PM
Dibenz(a,h)anthracene	ND	5.0		µg/Kg	1	9/17/2013 04:52 PM
Fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 04:52 PM
Fluorene	ND	5.0		µg/Kg	1	9/17/2013 04:52 PM
Indeno(1,2,3-cd)pyrene	ND	5.0		µg/Kg	1	9/17/2013 04:52 PM
Naphthalene	ND	5.0		µg/Kg	1	9/17/2013 04:52 PM
Phenanthrene	ND	5.0		µg/Kg	1	9/17/2013 04:52 PM
Pyrene	ND	5.0		µg/Kg	1	9/17/2013 04:52 PM
Surr: 1,2-Dichlorobenzene-d4	39.0	14-120		%REC	1	9/17/2013 04:52 PM
Surr: 2-Fluorobiphenyl	49.0	28-130		%REC	1	9/17/2013 04:52 PM
Surr: 4-Terphenyl-d14	87.1	19-165		%REC	1	9/17/2013 04:52 PM
Surr: Nitrobenzene-d5	50.1	23-150		%REC	1	9/17/2013 04:52 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC1_130917A	QC Batch: 43889			PrepDate: 9/17/2013		Analyst: **MDM**
DRO	8.7	1.0		mg/Kg	1	9/17/2013 05:49 PM
ORO	30	1.0		mg/Kg	1	9/17/2013 05:49 PM
Surr: p-Terphenyl	79.9	59-127		%REC	1	9/17/2013 05:49 PM
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471				**EPA 7471A**		
RunID: AA1_130918E	QC Batch: 43890			PrepDate: 9/17/2013		Analyst: **JT**

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H3-0
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:20:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-007		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471				**EPA 7471A**		
RunID: AA1_130918E	QC Batch: 43890			PrepDate: 9/17/2013		Analyst: **JT**
Mercury	0.52	0.10		mg/Kg	1	9/18/2013
ICP METALS						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130921A	QC Batch: 43901			PrepDate: 9/18/2013		Analyst: **JT**
Antimony	ND	2.0		mg/Kg	1	9/21/2013 02:26 PM
Arsenic	ND	1.0		mg/Kg	1	9/21/2013 02:26 PM
Barium	30	1.0		mg/Kg	1	9/21/2013 02:26 PM
Beryllium	ND	1.0		mg/Kg	1	9/21/2013 02:26 PM
Cadmium	ND	1.0		mg/Kg	1	9/21/2013 02:26 PM
Chromium	28	1.0		mg/Kg	1	9/21/2013 02:26 PM
Cobalt	24	1.0		mg/Kg	1	9/21/2013 02:26 PM
Copper	45	2.0		mg/Kg	1	9/21/2013 02:26 PM
Lead	1.1	1.0		mg/Kg	1	9/21/2013 02:26 PM
Molybdenum	ND	1.0		mg/Kg	1	9/21/2013 02:26 PM
Nickel	22	1.0		mg/Kg	1	9/21/2013 02:26 PM
Selenium	3.4	1.0		mg/Kg	1	9/21/2013 02:26 PM
Silver	ND	1.0		mg/Kg	1	9/21/2013 02:26 PM
Thallium	ND	1.0		mg/Kg	1	9/21/2013 02:26 PM
Vanadium	100	1.0		mg/Kg	1	9/21/2013 02:26 PM
Zinc	16	1.0		mg/Kg	1	9/21/2013 02:26 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT: Geocon Consultants, Inc.
Client Sample ID: H3-2
Lab Order: N011008
Collection Date: 9/11/2013 10:25:00 AM
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55
Matrix: SOIL
Lab ID: N011008-008

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM
EPA 3550B **EPA 8270CSIM**

RunID: MS3_130917A QC Batch: 43888 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/17/2013 05:20 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/17/2013 05:20 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/17/2013 05:20 PM
Anthracene	ND	5.0		µg/Kg	1	9/17/2013 05:20 PM
Benzo(a)anthracene	ND	5.0		µg/Kg	1	9/17/2013 05:20 PM
Benzo(a)pyrene	ND	5.0		µg/Kg	1	9/17/2013 05:20 PM
Benzo(b)fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 05:20 PM
Benzo(g,h,i)perylene	ND	5.0		µg/Kg	1	9/17/2013 05:20 PM
Benzo(k)fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 05:20 PM
Chrysene	ND	5.0		µg/Kg	1	9/17/2013 05:20 PM
Dibenz(a,h)anthracene	ND	5.0		µg/Kg	1	9/17/2013 05:20 PM
Fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 05:20 PM
Fluorene	ND	5.0		µg/Kg	1	9/17/2013 05:20 PM
Indeno(1,2,3-cd)pyrene	ND	5.0		µg/Kg	1	9/17/2013 05:20 PM
Naphthalene	ND	5.0		µg/Kg	1	9/17/2013 05:20 PM
Phenanthrene	ND	5.0		µg/Kg	1	9/17/2013 05:20 PM
Pyrene	ND	5.0		µg/Kg	1	9/17/2013 05:20 PM
Surr: 1,2-Dichlorobenzene-d4	35.0	14-120		%REC	1	9/17/2013 05:20 PM
Surr: 2-Fluorobiphenyl	45.0	28-130		%REC	1	9/17/2013 05:20 PM
Surr: 4-Terphenyl-d14	84.1	19-165		%REC	1	9/17/2013 05:20 PM
Surr: Nitrobenzene-d5	45.0	23-150		%REC	1	9/17/2013 05:20 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS
EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/19/2013 02:16 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT: Geocon Consultants, Inc.
Client Sample ID: H3-2
Lab Order: N011008
Collection Date: 9/11/2013 10:25:00 AM
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55
Matrix: SOIL
Lab ID: N011008-008

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
Benzene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
Bromoform	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
Bromomethane	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
Chloroethane	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
Chloroform	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
Chloromethane	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
m,p-Xylene	ND	10		µg/Kg	1	9/19/2013 02:16 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
MTBE	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
Naphthalene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H3-2
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:25:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-008		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS6_130919A	QC Batch: Q13VS001			PrepDate:		Analyst: **QBM**
o-Xylene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
Styrene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
Toluene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/19/2013 02:16 PM
Surr: 1,2-Dichloroethane-d4	87.9	63-139		%REC	1	9/19/2013 02:16 PM
Surr: 4-Bromofluorobenzene	89.2	75-124		%REC	1	9/19/2013 02:16 PM
Surr: Dibromofluoromethane	87.6	70-133		%REC	1	9/19/2013 02:16 PM
Surr: Toluene-d8	95.9	80-123		%REC	1	9/19/2013 02:16 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B**		
RunID: GC1_130917A	QC Batch: 43889			PrepDate:	9/17/2013	Analyst: **MDM**
DRO	5.0	1.0		mg/Kg	1	9/17/2013 06:14 PM
ORO	16	1.0		mg/Kg	1	9/17/2013 06:14 PM
Surr: p-Terphenyl	82.7	59-127		%REC	1	9/17/2013 06:14 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B		
RunID: GC4_130917A	QC Batch: E13VS095			PrepDate:		Analyst: **PN**
GRO	ND	1.0		mg/Kg	1	9/17/2013 12:11 PM
Surr: Chlorobenzene - d5	110	51-136		%REC	1	9/17/2013 12:11 PM
LEAD BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_130918D	QC Batch: 43902			PrepDate:	9/18/2013	Analyst: **JT**
Lead	ND	5.0		mg/Kg	1	9/18/2013 07:52 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H3-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:30:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-009		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130917A QC Batch: 43888 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/17/2013 05:48 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/17/2013 05:48 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/17/2013 05:48 PM
Anthracene	ND	5.0		µg/Kg	1	9/17/2013 05:48 PM
Benzo(a)anthracene	ND	5.0		µg/Kg	1	9/17/2013 05:48 PM
Benzo(a)pyrene	ND	50		µg/Kg	10	9/23/2013 11:42 AM
Benzo(b)fluoranthene	ND	50		µg/Kg	10	9/23/2013 11:42 AM
Benzo(g,h,i)perylene	ND	50		µg/Kg	10	9/23/2013 11:42 AM
Benzo(k)fluoranthene	ND	50		µg/Kg	10	9/23/2013 11:42 AM
Chrysene	11	5.0		µg/Kg	1	9/17/2013 05:48 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/23/2013 11:42 AM
Fluoranthene	9.0	5.0		µg/Kg	1	9/17/2013 05:48 PM
Fluorene	ND	5.0		µg/Kg	1	9/17/2013 05:48 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/Kg	10	9/23/2013 11:42 AM
Naphthalene	ND	5.0		µg/Kg	1	9/17/2013 05:48 PM
Phenanthrene	ND	5.0		µg/Kg	1	9/17/2013 05:48 PM
Pyrene	9.3	5.0		µg/Kg	1	9/17/2013 05:48 PM
Surr: 1,2-Dichlorobenzene-d4	30.0	14-120		%REC	1	9/17/2013 05:48 PM
Surr: 2-Fluorobiphenyl	48.0	28-130		%REC	1	9/17/2013 05:48 PM
Surr: 4-Terphenyl-d14	89.1	19-165		%REC	1	9/17/2013 05:48 PM
Surr: Nitrobenzene-d5	42.0	23-150		%REC	1	9/17/2013 05:48 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/19/2013 02:37 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H3-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:30:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-009		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
Benzene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
Bromoform	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
Bromomethane	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
Chloroethane	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
Chloroform	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
Chloromethane	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
m,p-Xylene	ND	10		µg/Kg	1	9/19/2013 02:37 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
MTBE	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
Naphthalene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H3-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:30:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-009		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
o-Xylene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
Styrene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
Toluene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/19/2013 02:37 PM
Surr: 1,2-Dichloroethane-d4	86.9	63-139		%REC	1	9/19/2013 02:37 PM
Surr: 4-Bromofluorobenzene	81.3	75-124		%REC	1	9/19/2013 02:37 PM
Surr: Dibromofluoromethane	87.1	70-133		%REC	1	9/19/2013 02:37 PM
Surr: Toluene-d8	91.4	80-123		%REC	1	9/19/2013 02:37 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130917A QC Batch: 43889 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	13	1.0		mg/Kg	1	9/17/2013 06:40 PM
ORO	39	1.0		mg/Kg	1	9/17/2013 06:40 PM
Surr: p-Terphenyl	79.0	59-127		%REC	1	9/17/2013 06:40 PM

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919A QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
4,4´-DDD	ND	2.0		µg/Kg	1	9/19/2013 02:11 AM
4,4´-DDE	4.1	2.0		µg/Kg	1	9/19/2013 02:11 AM
4,4´-DDT	5.9	2.0		µg/Kg	1	9/19/2013 02:11 AM
Aldrin	ND	1.0		µg/Kg	1	9/19/2013 02:11 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/19/2013 02:11 AM
alpha-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 02:11 AM
beta-BHC	ND	1.0		µg/Kg	1	9/19/2013 02:11 AM
Chlordane	ND	8.5		µg/Kg	1	9/19/2013 02:11 AM
delta-BHC	ND	1.0		µg/Kg	1	9/19/2013 02:11 AM
Dieldrin	ND	2.0		µg/Kg	1	9/19/2013 02:11 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/19/2013 02:11 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/19/2013 02:11 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H3-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:30:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-009		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD						
EPA 3550B				**EPA 8081A**		
RunID: GC7_130919A	QC Batch: 43887			PrepDate:	9/17/2013	Analyst: **MDM**
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/19/2013 02:11 AM
Endrin	ND	2.0		µg/Kg	1	9/19/2013 02:11 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/19/2013 02:11 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/19/2013 02:11 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/19/2013 02:11 AM
gamma-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 02:11 AM
Heptachlor	ND	1.0		µg/Kg	1	9/19/2013 02:11 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/19/2013 02:11 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/19/2013 02:11 AM
Toxaphene	ND	85		µg/Kg	1	9/19/2013 02:11 AM
Surr: Tetrachloro-m-xylene	56.7	28-161		%REC	1	9/19/2013 02:11 AM
Surr: Decachlorobiphenyl	58.6	28-120		%REC	1	9/19/2013 02:11 AM
PCBS BY GC/ECD						
EPA 3550B				**EPA 8082**		
RunID: GC7_130917B	QC Batch: 43887			PrepDate:	9/17/2013	Analyst: **MDM**
Aroclor 1016	ND	17		µg/Kg	1	9/18/2013 02:03 AM
Aroclor 1221	ND	33		µg/Kg	1	9/18/2013 02:03 AM
Aroclor 1232	ND	17		µg/Kg	1	9/18/2013 02:03 AM
Aroclor 1242	ND	17		µg/Kg	1	9/18/2013 02:03 AM
Aroclor 1248	ND	17		µg/Kg	1	9/18/2013 02:03 AM
Aroclor 1254	ND	17		µg/Kg	1	9/18/2013 02:03 AM
Aroclor 1260	ND	17		µg/Kg	1	9/18/2013 02:03 AM
Surr: Decachlorobiphenyl	74.8	40-146		%REC	1	9/18/2013 02:03 AM
Surr: Tetrachloro-m-xylene	69.2	32-109		%REC	1	9/18/2013 02:03 AM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B		
RunID: GC4_130917A	QC Batch: E13VS095			PrepDate:		Analyst: **PN**
GRO	ND	1.0		mg/Kg	1	9/17/2013 12:39 PM
Surr: Chlorobenzene - d5	106	51-136		%REC	1	9/17/2013 12:39 PM
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471				**EPA 7471A**		
RunID: AA1_130918E	QC Batch: 43890			PrepDate:	9/17/2013	Analyst: **JT**
Mercury	0.50	0.10		mg/Kg	1	9/18/2013

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H3-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:30:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-009		

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130921A QC Batch: 43901 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/21/2013 02:33 PM
Arsenic	ND	1.0		mg/Kg	1	9/21/2013 02:33 PM
Barium	22	1.0		mg/Kg	1	9/21/2013 02:33 PM
Beryllium	ND	1.0		mg/Kg	1	9/21/2013 02:33 PM
Cadmium	ND	1.0		mg/Kg	1	9/21/2013 02:33 PM
Chromium	33	1.0		mg/Kg	1	9/21/2013 02:33 PM
Cobalt	19	1.0		mg/Kg	1	9/21/2013 02:33 PM
Copper	25	2.0		mg/Kg	1	9/21/2013 02:33 PM
Lead	28	1.0		mg/Kg	1	9/21/2013 02:33 PM
Molybdenum	ND	1.0		mg/Kg	1	9/21/2013 02:33 PM
Nickel	19	1.0		mg/Kg	1	9/21/2013 02:33 PM
Selenium	3.2	1.0		mg/Kg	1	9/21/2013 02:33 PM
Silver	ND	1.0		mg/Kg	1	9/21/2013 02:33 PM
Thallium	ND	1.0		mg/Kg	1	9/21/2013 02:33 PM
Vanadium	95	1.0		mg/Kg	1	9/21/2013 02:33 PM
Zinc	37	1.0		mg/Kg	1	9/21/2013 02:33 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H4-0
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:40:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-010		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130917A QC Batch: 43888 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/17/2013 06:16 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/17/2013 06:16 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/17/2013 06:16 PM
Anthracene	ND	5.0		µg/Kg	1	9/17/2013 06:16 PM
Benzo(a)anthracene	ND	5.0		µg/Kg	1	9/17/2013 06:16 PM
Benzo(a)pyrene	ND	50		µg/Kg	10	9/22/2013 10:24 AM
Benzo(b)fluoranthene	ND	50		µg/Kg	10	9/22/2013 10:24 AM
Benzo(g,h,i)perylene	ND	50		µg/Kg	10	9/22/2013 10:24 AM
Benzo(k)fluoranthene	ND	50		µg/Kg	10	9/22/2013 10:24 AM
Chrysene	ND	5.0		µg/Kg	1	9/17/2013 06:16 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/22/2013 10:24 AM
Fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 06:16 PM
Fluorene	ND	5.0		µg/Kg	1	9/17/2013 06:16 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/Kg	10	9/22/2013 10:24 AM
Naphthalene	ND	5.0		µg/Kg	1	9/17/2013 06:16 PM
Phenanthrene	ND	5.0		µg/Kg	1	9/17/2013 06:16 PM
Pyrene	ND	5.0		µg/Kg	1	9/17/2013 06:16 PM
Surr: 1,2-Dichlorobenzene-d4	43.0	14-120		%REC	1	9/17/2013 06:16 PM
Surr: 2-Fluorobiphenyl	49.0	28-130		%REC	1	9/17/2013 06:16 PM
Surr: 4-Terphenyl-d14	70.1	19-165		%REC	1	9/17/2013 06:16 PM
Surr: Nitrobenzene-d5	55.1	23-150		%REC	1	9/17/2013 06:16 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130917A QC Batch: 43889 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	12	1.0		mg/Kg	1	9/17/2013 07:05 PM
ORO	29	1.0		mg/Kg	1	9/17/2013 07:05 PM
Surr: p-Terphenyl	86.7	59-127		%REC	1	9/17/2013 07:05 PM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130918D QC Batch: 43902 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	7.2	5.0		mg/Kg	1	9/18/2013 08:09 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H4-2
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:45:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-011		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130917A QC Batch: 43888 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/17/2013 08:28 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/17/2013 08:28 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/17/2013 08:28 PM
Anthracene	ND	5.0		µg/Kg	1	9/17/2013 08:28 PM
Benzo(a)anthracene	ND	5.0		µg/Kg	1	9/17/2013 08:28 PM
Benzo(a)pyrene	ND	5.0		µg/Kg	1	9/17/2013 08:28 PM
Benzo(b)fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 08:28 PM
Benzo(g,h,i)perylene	ND	5.0		µg/Kg	1	9/17/2013 08:28 PM
Benzo(k)fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 08:28 PM
Chrysene	ND	5.0		µg/Kg	1	9/17/2013 08:28 PM
Dibenz(a,h)anthracene	ND	5.0		µg/Kg	1	9/17/2013 08:28 PM
Fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 08:28 PM
Fluorene	ND	5.0		µg/Kg	1	9/17/2013 08:28 PM
Indeno(1,2,3-cd)pyrene	ND	5.0		µg/Kg	1	9/17/2013 08:28 PM
Naphthalene	ND	5.0		µg/Kg	1	9/17/2013 08:28 PM
Phenanthrene	ND	5.0		µg/Kg	1	9/17/2013 08:28 PM
Pyrene	ND	5.0		µg/Kg	1	9/17/2013 08:28 PM
Surr: 1,2-Dichlorobenzene-d4	49.0	14-120		%REC	1	9/17/2013 08:28 PM
Surr: 2-Fluorobiphenyl	57.1	28-130		%REC	1	9/17/2013 08:28 PM
Surr: 4-Terphenyl-d14	65.1	19-165		%REC	1	9/17/2013 08:28 PM
Surr: Nitrobenzene-d5	62.1	23-150		%REC	1	9/17/2013 08:28 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/19/2013 12:07 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H4-2
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:45:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-011		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
Benzene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
Bromoform	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
Bromomethane	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
Chloroethane	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
Chloroform	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
Chloromethane	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
m,p-Xylene	ND	10		µg/Kg	1	9/19/2013 12:07 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
MTBE	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
Naphthalene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H4-2
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:45:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-011		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
o-Xylene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
Styrene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
Toluene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/19/2013 12:07 PM
Surr: 1,2-Dichloroethane-d4	91.4	63-139		%REC	1	9/19/2013 12:07 PM
Surr: 4-Bromofluorobenzene	88.7	75-124		%REC	1	9/19/2013 12:07 PM
Surr: Dibromofluoromethane	91.8	70-133		%REC	1	9/19/2013 12:07 PM
Surr: Toluene-d8	88.3	80-123		%REC	1	9/19/2013 12:07 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC3_130917A QC Batch: 43889 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	7.4	1.0		mg/Kg	1	9/17/2013 04:03 PM
ORO	32	1.0		mg/Kg	1	9/17/2013 04:03 PM
Surr: p-Terphenyl	86.3	59-127		%REC	1	9/17/2013 04:03 PM

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919A QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
4,4´-DDD	ND	2.0		µg/Kg	1	9/19/2013 03:03 AM
4,4´-DDE	ND	2.0		µg/Kg	1	9/19/2013 03:03 AM
4,4´-DDT	ND	2.0		µg/Kg	1	9/19/2013 03:03 AM
Aldrin	ND	1.0		µg/Kg	1	9/19/2013 03:03 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/19/2013 03:03 AM
alpha-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 03:03 AM
beta-BHC	ND	1.0		µg/Kg	1	9/19/2013 03:03 AM
Chlordane	ND	8.5		µg/Kg	1	9/19/2013 03:03 AM
delta-BHC	ND	1.0		µg/Kg	1	9/19/2013 03:03 AM
Dieldrin	ND	2.0		µg/Kg	1	9/19/2013 03:03 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/19/2013 03:03 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/19/2013 03:03 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H4-2
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:45:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-011		

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919A QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/19/2013 03:03 AM
Endrin	ND	2.0		µg/Kg	1	9/19/2013 03:03 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/19/2013 03:03 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/19/2013 03:03 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/19/2013 03:03 AM
gamma-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 03:03 AM
Heptachlor	ND	1.0		µg/Kg	1	9/19/2013 03:03 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/19/2013 03:03 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/19/2013 03:03 AM
Toxaphene	ND	85		µg/Kg	1	9/19/2013 03:03 AM
Surr: Tetrachloro-m-xylene	48.2	28-161		%REC	1	9/19/2013 03:03 AM
Surr: Decachlorobiphenyl	56.9	28-120		%REC	1	9/19/2013 03:03 AM

PCBS BY GC/ECD

EPA 3550B **EPA 8082**

RunID: GC7_130917B QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Aroclor 1016	ND	16		µg/Kg	1	9/18/2013 03:02 AM
Aroclor 1221	ND	33		µg/Kg	1	9/18/2013 03:02 AM
Aroclor 1232	ND	16		µg/Kg	1	9/18/2013 03:02 AM
Aroclor 1242	ND	16		µg/Kg	1	9/18/2013 03:02 AM
Aroclor 1248	ND	16		µg/Kg	1	9/18/2013 03:02 AM
Aroclor 1254	ND	16		µg/Kg	1	9/18/2013 03:02 AM
Aroclor 1260	ND	16		µg/Kg	1	9/18/2013 03:02 AM
Surr: Decachlorobiphenyl	68.0	40-146		%REC	1	9/18/2013 03:02 AM
Surr: Tetrachloro-m-xylene	61.2	32-109		%REC	1	9/18/2013 03:02 AM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130917A QC Batch: E13VS095 PrepDate: Analyst: **PN**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GRO	ND	1.0		mg/Kg	1	9/17/2013 01:07 PM
Surr: Chlorobenzene - d5	110	51-136		%REC	1	9/17/2013 01:07 PM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130918D QC Batch: 43902 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	ND	5.0		mg/Kg	1	9/18/2013 08:14 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Geocon Consultants, Inc.
Client Sample ID: H4-4
Lab Order: N011008
Collection Date: 9/11/2013 10:50:00 AM
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55
Matrix: SOIL
Lab ID: N011008-012

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3550B				EPA 8270CSIM		
RunID: MS3_130917A	QC Batch: 43888			PrepDate: 9/17/2013		Analyst: **MDM**
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/17/2013 09:23 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/17/2013 09:23 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/17/2013 09:23 PM
Anthracene	ND	5.0		µg/Kg	1	9/17/2013 09:23 PM
Benzo(a)anthracene	ND	5.0		µg/Kg	1	9/17/2013 09:23 PM
Benzo(a)pyrene	ND	5.0		µg/Kg	1	9/17/2013 09:23 PM
Benzo(b)fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 09:23 PM
Benzo(g,h,i)perylene	ND	5.0		µg/Kg	1	9/17/2013 09:23 PM
Benzo(k)fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 09:23 PM
Chrysene	ND	5.0		µg/Kg	1	9/17/2013 09:23 PM
Dibenz(a,h)anthracene	ND	5.0		µg/Kg	1	9/17/2013 09:23 PM
Fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 09:23 PM
Fluorene	ND	5.0		µg/Kg	1	9/17/2013 09:23 PM
Indeno(1,2,3-cd)pyrene	ND	5.0		µg/Kg	1	9/17/2013 09:23 PM
Naphthalene	ND	5.0		µg/Kg	1	9/17/2013 09:23 PM
Phenanthrene	ND	5.0		µg/Kg	1	9/17/2013 09:23 PM
Pyrene	ND	5.0		µg/Kg	1	9/17/2013 09:23 PM
Surr: 1,2-Dichlorobenzene-d4	38.0	14-120		%REC	1	9/17/2013 09:23 PM
Surr: 2-Fluorobiphenyl	48.0	28-130		%REC	1	9/17/2013 09:23 PM
Surr: 4-Terphenyl-d14	60.1	19-165		%REC	1	9/17/2013 09:23 PM
Surr: Nitrobenzene-d5	50.1	23-150		%REC	1	9/17/2013 09:23 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS6_130919A	QC Batch: Q13VS001			PrepDate:		Analyst: **QBM**
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/19/2013 02:59 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H4-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:50:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-012		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
Benzene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
Bromoform	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
Bromomethane	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
Chloroethane	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
Chloroform	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
Chloromethane	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
m,p-Xylene	ND	10		µg/Kg	1	9/19/2013 02:59 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
MTBE	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
Naphthalene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Geocon Consultants, Inc.
Client Sample ID: H4-4
Lab Order: N011008
Collection Date: 9/11/2013 10:50:00 AM
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55
Matrix: SOIL
Lab ID: N011008-012

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
o-Xylene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
Styrene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
Toluene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/19/2013 02:59 PM
Surr: 1,2-Dichloroethane-d4	91.1	63-139		%REC	1	9/19/2013 02:59 PM
Surr: 4-Bromofluorobenzene	90.3	75-124		%REC	1	9/19/2013 02:59 PM
Surr: Dibromofluoromethane	93.2	70-133		%REC	1	9/19/2013 02:59 PM
Surr: Toluene-d8	95.4	80-123		%REC	1	9/19/2013 02:59 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC3_130917A QC Batch: 43889 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	5.8	1.0		mg/Kg	1	9/17/2013 05:37 PM
ORO	24	1.0		mg/Kg	1	9/17/2013 05:37 PM
Surr: p-Terphenyl	83.6	59-127		%REC	1	9/17/2013 05:37 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130917A QC Batch: E13VS095 PrepDate: Analyst: **PN**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GRO	ND	1.0		mg/Kg	1	9/17/2013 03:56 PM
Surr: Chlorobenzene - d5	106	51-136		%REC	1	9/17/2013 03:56 PM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130918D QC Batch: 43902 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	ND	5.0		mg/Kg	1	9/18/2013 08:18 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G1-0
Lab Order:	N011008	**Collection Date:**	9/11/2013 11:30:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-013		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3550B				**EPA 8270CSIM**		
RunID: MS3_130917A	QC Batch: 43888			PrepDate: 9/17/2013		Analyst: **MDM**
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/17/2013 09:51 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/17/2013 09:51 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/17/2013 09:51 PM
Anthracene	ND	5.0		µg/Kg	1	9/17/2013 09:51 PM
Benzo(a)anthracene	ND	5.0		µg/Kg	1	9/17/2013 09:51 PM
Benzo(a)pyrene	5.3	5.0		µg/Kg	1	9/17/2013 09:51 PM
Benzo(b)fluoranthene	10	5.0		µg/Kg	1	9/17/2013 09:51 PM
Benzo(g,h,i)perylene	ND	5.0		µg/Kg	1	9/17/2013 09:51 PM
Benzo(k)fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 09:51 PM
Chrysene	7.4	5.0		µg/Kg	1	9/17/2013 09:51 PM
Dibenz(a,h)anthracene	ND	5.0		µg/Kg	1	9/17/2013 09:51 PM
Fluoranthene	9.7	5.0		µg/Kg	1	9/17/2013 09:51 PM
Fluorene	ND	5.0		µg/Kg	1	9/17/2013 09:51 PM
Indeno(1,2,3-cd)pyrene	ND	5.0		µg/Kg	1	9/17/2013 09:51 PM
Naphthalene	ND	5.0		µg/Kg	1	9/17/2013 09:51 PM
Phenanthrene	5.3	5.0		µg/Kg	1	9/17/2013 09:51 PM
Pyrene	11	5.0		µg/Kg	1	9/17/2013 09:51 PM
Surr: 1,2-Dichlorobenzene-d4	36.0	14-120		%REC	1	9/17/2013 09:51 PM
Surr: 2-Fluorobiphenyl	47.0	28-130		%REC	1	9/17/2013 09:51 PM
Surr: 4-Terphenyl-d14	59.1	19-165		%REC	1	9/17/2013 09:51 PM
Surr: Nitrobenzene-d5	50.1	23-150		%REC	1	9/17/2013 09:51 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC3_130917A	QC Batch: 43889			PrepDate: 9/17/2013		Analyst: **MDM**
DRO	14	1.0		mg/Kg	1	9/17/2013 06:04 PM
ORO	25	1.0		mg/Kg	1	9/17/2013 06:04 PM
Surr: p-Terphenyl	81.5	59-127		%REC	1	9/17/2013 06:04 PM
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471				**EPA 7471A**		
RunID: AA1_130918E	QC Batch: 43890			PrepDate: 9/17/2013		Analyst: **JT**
Mercury	ND	0.10		mg/Kg	1	9/18/2013
ICP METALS						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130921A	QC Batch: 43901			PrepDate: 9/18/2013		Analyst: **JT**

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G1-0
Lab Order:	N011008	**Collection Date:**	9/11/2013 11:30:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-013		

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130921A QC Batch: 43901 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/21/2013 02:40 PM
Arsenic	3.7	1.0		mg/Kg	1	9/21/2013 02:40 PM
Barium	31	1.0		mg/Kg	1	9/21/2013 02:40 PM
Beryllium	ND	1.0		mg/Kg	1	9/21/2013 02:40 PM
Cadmium	ND	1.0		mg/Kg	1	9/21/2013 02:40 PM
Chromium	42	1.0		mg/Kg	1	9/21/2013 02:40 PM
Cobalt	11	1.0		mg/Kg	1	9/21/2013 02:40 PM
Copper	20	2.0		mg/Kg	1	9/21/2013 02:40 PM
Lead	4.7	1.0		mg/Kg	1	9/21/2013 02:40 PM
Molybdenum	ND	1.0		mg/Kg	1	9/21/2013 02:40 PM
Nickel	34	1.0		mg/Kg	1	9/21/2013 02:40 PM
Selenium	1.1	1.0		mg/Kg	1	9/21/2013 02:40 PM
Silver	ND	1.0		mg/Kg	1	9/21/2013 02:40 PM
Thallium	ND	1.0		mg/Kg	1	9/21/2013 02:40 PM
Vanadium	37	1.0		mg/Kg	1	9/21/2013 02:40 PM
Zinc	33	1.0		mg/Kg	1	9/21/2013 02:40 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Geocon Consultants, Inc.
Client Sample ID: G1-4
Lab Order: N011008
Collection Date: 9/11/2013 11:35:00 AM
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55
Matrix: SOIL
Lab ID: N011008-014

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130917A QC Batch: 43888 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/17/2013 10:19 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/17/2013 10:19 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/17/2013 10:19 PM
Anthracene	ND	5.0		µg/Kg	1	9/17/2013 10:19 PM
Benzo(a)anthracene	11	5.0		µg/Kg	1	9/17/2013 10:19 PM
Benzo(a)pyrene	15	5.0		µg/Kg	1	9/17/2013 10:19 PM
Benzo(b)fluoranthene	19	5.0		µg/Kg	1	9/17/2013 10:19 PM
Benzo(g,h,i)perylene	ND	5.0		µg/Kg	1	9/17/2013 10:19 PM
Benzo(k)fluoranthene	5.0	5.0		µg/Kg	1	9/17/2013 10:19 PM
Chrysene	13	5.0		µg/Kg	1	9/17/2013 10:19 PM
Dibenz(a,h)anthracene	ND	5.0		µg/Kg	1	9/17/2013 10:19 PM
Fluoranthene	19	5.0		µg/Kg	1	9/17/2013 10:19 PM
Fluorene	ND	5.0		µg/Kg	1	9/17/2013 10:19 PM
Indeno(1,2,3-cd)pyrene	ND	5.0		µg/Kg	1	9/17/2013 10:19 PM
Naphthalene	ND	5.0		µg/Kg	1	9/17/2013 10:19 PM
Phenanthrene	6.7	5.0		µg/Kg	1	9/17/2013 10:19 PM
Pyrene	26	5.0		µg/Kg	1	9/17/2013 10:19 PM
Surr: 1,2-Dichlorobenzene-d4	37.0	14-120		%REC	1	9/17/2013 10:19 PM
Surr: 2-Fluorobiphenyl	52.1	28-130		%REC	1	9/17/2013 10:19 PM
Surr: 4-Terphenyl-d14	67.1	19-165		%REC	1	9/17/2013 10:19 PM
Surr: Nitrobenzene-d5	48.0	23-150		%REC	1	9/17/2013 10:19 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/19/2013 03:42 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G1-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 11:35:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-014		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
Benzene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
Bromoform	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
Bromomethane	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
Chloroethane	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
Chloroform	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
Chloromethane	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
m,p-Xylene	ND	10		µg/Kg	1	9/19/2013 03:42 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
MTBE	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
Naphthalene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G1-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 11:35:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-014		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
o-Xylene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
Styrene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
Toluene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/19/2013 03:42 PM
Surr: 1,2-Dichloroethane-d4	95.6	63-139		%REC	1	9/19/2013 03:42 PM
Surr: 4-Bromofluorobenzene	92.9	75-124		%REC	1	9/19/2013 03:42 PM
Surr: Dibromofluoromethane	94.0	70-133		%REC	1	9/19/2013 03:42 PM
Surr: Toluene-d8	98.3	80-123		%REC	1	9/19/2013 03:42 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC3_130917A QC Batch: 43889 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	7.6	1.0		mg/Kg	1	9/17/2013 06:30 PM
ORO	22	1.0		mg/Kg	1	9/17/2013 06:30 PM
Surr: p-Terphenyl	76.9	59-127		%REC	1	9/17/2013 06:30 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130917A QC Batch: E13VS095 PrepDate: Analyst: **PN**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GRO	ND	1.0		mg/Kg	1	9/17/2013 04:24 PM
Surr: Chlorobenzene - d5	102	51-136		%REC	1	9/17/2013 04:24 PM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130918D QC Batch: 43902 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	ND	5.0		mg/Kg	1	9/18/2013 08:22 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G1-8
Lab Order:	N011008	**Collection Date:**	9/11/2013 11:40:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-015		

HEXAVALENT CHROMIUM

EPA 3060A **EPA 7196A**

RunID: WETCHEM_130920C QC Batch: 43908 PrepDate: 9/19/2013 Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chromium, Hexavalent	ND	1.0		mg/Kg	1	9/20/2013

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130917A QC Batch: 43888 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/17/2013 10:47 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/17/2013 10:47 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/17/2013 10:47 PM
Anthracene	19	5.0		µg/Kg	1	9/17/2013 10:47 PM
Benzo(a)anthracene	18	5.0		µg/Kg	1	9/17/2013 10:47 PM
Benzo(a)pyrene	17	5.0		µg/Kg	1	9/17/2013 10:47 PM
Benzo(b)fluoranthene	20	5.0		µg/Kg	1	9/17/2013 10:47 PM
Benzo(g,h,i)perylene	ND	5.0		µg/Kg	1	9/17/2013 10:47 PM
Benzo(k)fluoranthene	6.7	5.0		µg/Kg	1	9/17/2013 10:47 PM
Chrysene	22	5.0		µg/Kg	1	9/17/2013 10:47 PM
Dibenz(a,h)anthracene	ND	5.0		µg/Kg	1	9/17/2013 10:47 PM
Fluoranthene	33	5.0		µg/Kg	1	9/17/2013 10:47 PM
Fluorene	ND	5.0		µg/Kg	1	9/17/2013 10:47 PM
Indeno(1,2,3-cd)pyrene	ND	5.0		µg/Kg	1	9/17/2013 10:47 PM
Naphthalene	ND	5.0		µg/Kg	1	9/17/2013 10:47 PM
Phenanthrene	36	5.0		µg/Kg	1	9/17/2013 10:47 PM
Pyrene	42	5.0		µg/Kg	1	9/17/2013 10:47 PM
Surr: 1,2-Dichlorobenzene-d4	38.0	14-120		%REC	1	9/17/2013 10:47 PM
Surr: 2-Fluorobiphenyl	46.0	28-130		%REC	1	9/17/2013 10:47 PM
Surr: 4-Terphenyl-d14	63.1	19-165		%REC	1	9/17/2013 10:47 PM
Surr: Nitrobenzene-d5	51.1	23-150		%REC	1	9/17/2013 10:47 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G1-8
Lab Order:	N011008	**Collection Date:**	9/11/2013 11:40:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-015		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/19/2013 04:03 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
Benzene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
Bromoform	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
Bromomethane	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
Chloroethane	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
Chloroform	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
Chloromethane	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
m,p-Xylene	ND	10		µg/Kg	1	9/19/2013 04:03 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT: Geocon Consultants, Inc.
Client Sample ID: G1-8
Lab Order: N011008
Collection Date: 9/11/2013 11:40:00 AM
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55
Matrix: SOIL
Lab ID: N011008-015

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS6_130919A	QC Batch: Q13VS001			PrepDate:		Analyst: **QBM**
Methylene chloride	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
MTBE	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
Naphthalene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
o-Xylene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
Styrene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
Toluene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/19/2013 04:03 PM
Surr: 1,2-Dichloroethane-d4	95.5	63-139		%REC	1	9/19/2013 04:03 PM
Surr: 4-Bromofluorobenzene	92.2	75-124		%REC	1	9/19/2013 04:03 PM
Surr: Dibromofluoromethane	93.2	70-133		%REC	1	9/19/2013 04:03 PM
Surr: Toluene-d8	98.2	80-123		%REC	1	9/19/2013 04:03 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B**		
RunID: GC3_130917A	QC Batch: 43889			PrepDate:	9/17/2013	Analyst: **MDM**
DRO	23	1.0		mg/Kg	1	9/17/2013 06:56 PM
ORO	45	1.0		mg/Kg	1	9/17/2013 06:56 PM
Surr: p-Terphenyl	90.4	59-127		%REC	1	9/17/2013 06:56 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
	EPA 3550B			**EPA 8081A**		
RunID: GC7_130919A	QC Batch: 43887			PrepDate:	9/17/2013	Analyst: **MDM**
4,4´-DDD	ND	2.0		µg/Kg	1	9/19/2013 03:29 AM
4,4´-DDE	ND	2.0		µg/Kg	1	9/19/2013 03:29 AM
4,4´-DDT	ND	2.0		µg/Kg	1	9/19/2013 03:29 AM
Aldrin	ND	1.0		µg/Kg	1	9/19/2013 03:29 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/19/2013 03:29 AM
alpha-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 03:29 AM
beta-BHC	ND	1.0		µg/Kg	1	9/19/2013 03:29 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G1-8
Lab Order:	N011008	**Collection Date:**	9/11/2013 11:40:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-015		

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919A QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chlordane	ND	8.5		µg/Kg	1	9/19/2013 03:29 AM
delta-BHC	ND	1.0		µg/Kg	1	9/19/2013 03:29 AM
Dieldrin	ND	2.0		µg/Kg	1	9/19/2013 03:29 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/19/2013 03:29 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/19/2013 03:29 AM
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/19/2013 03:29 AM
Endrin	ND	2.0		µg/Kg	1	9/19/2013 03:29 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/19/2013 03:29 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/19/2013 03:29 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/19/2013 03:29 AM
gamma-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 03:29 AM
Heptachlor	ND	1.0		µg/Kg	1	9/19/2013 03:29 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/19/2013 03:29 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/19/2013 03:29 AM
Toxaphene	ND	85		µg/Kg	1	9/19/2013 03:29 AM
Surr: Tetrachloro-m-xylene	47.2	28-161		%REC	1	9/19/2013 03:29 AM
Surr: Decachlorobiphenyl	58.1	28-120		%REC	1	9/19/2013 03:29 AM

PCBS BY GC/ECD

EPA 3550B **EPA 8082**

RunID: GC7_130917B QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Aroclor 1016	ND	16		µg/Kg	1	9/18/2013 03:31 AM
Aroclor 1221	ND	33		µg/Kg	1	9/18/2013 03:31 AM
Aroclor 1232	ND	16		µg/Kg	1	9/18/2013 03:31 AM
Aroclor 1242	ND	16		µg/Kg	1	9/18/2013 03:31 AM
Aroclor 1248	ND	16		µg/Kg	1	9/18/2013 03:31 AM
Aroclor 1254	ND	16		µg/Kg	1	9/18/2013 03:31 AM
Aroclor 1260	ND	16		µg/Kg	1	9/18/2013 03:31 AM
Surr: Decachlorobiphenyl	66.9	40-146		%REC	1	9/18/2013 03:31 AM
Surr: Tetrachloro-m-xylene	56.4	32-109		%REC	1	9/18/2013 03:31 AM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130917A QC Batch: E13VS095 PrepDate: Analyst: **PN**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GRO	ND	1.0		mg/Kg	1	9/17/2013 04:52 PM
Surr: Chlorobenzene - d5	106	51-136		%REC	1	9/17/2013 04:52 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G1-8
Lab Order:	N011008	**Collection Date:**	9/11/2013 11:40:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-015		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471				**EPA 7471A**		
RunID: AA1_130918E	QC Batch: 43890			PrepDate: 9/17/2013		Analyst: **JT**
Mercury	ND	0.10		mg/Kg	1	9/18/2013
ICP METALS						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130921A	QC Batch: 43901			PrepDate: 9/18/2013		Analyst: **JT**
Antimony	ND	2.0		mg/Kg	1	9/21/2013 02:47 PM
Arsenic	3.5	1.0		mg/Kg	1	9/21/2013 02:47 PM
Barium	23	1.0		mg/Kg	1	9/21/2013 02:47 PM
Beryllium	ND	1.0		mg/Kg	1	9/21/2013 02:47 PM
Cadmium	ND	1.0		mg/Kg	1	9/21/2013 02:47 PM
Chromium	34	1.0		mg/Kg	1	9/21/2013 02:47 PM
Cobalt	8.0	1.0		mg/Kg	1	9/21/2013 02:47 PM
Copper	11	2.0		mg/Kg	1	9/21/2013 02:47 PM
Lead	5.5	1.0		mg/Kg	1	9/21/2013 02:47 PM
Molybdenum	ND	1.0		mg/Kg	1	9/21/2013 02:47 PM
Nickel	30	1.0		mg/Kg	1	9/21/2013 02:47 PM
Selenium	ND	1.0		mg/Kg	1	9/21/2013 02:47 PM
Silver	ND	1.0		mg/Kg	1	9/21/2013 02:47 PM
Thallium	ND	1.0		mg/Kg	1	9/21/2013 02:47 PM
Vanadium	31	1.0		mg/Kg	1	9/21/2013 02:47 PM
Zinc	23	1.0		mg/Kg	1	9/21/2013 02:47 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G2-0
Lab Order:	N011008	**Collection Date:**	9/11/2013 11:45:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-016		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130917A QC Batch: 43888 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/17/2013 11:15 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/17/2013 11:15 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/17/2013 11:15 PM
Anthracene	ND	5.0		µg/Kg	1	9/17/2013 11:15 PM
Benzo(a)anthracene	5.3	5.0		µg/Kg	1	9/17/2013 11:15 PM
Benzo(a)pyrene	7.7	5.0		µg/Kg	1	9/17/2013 11:15 PM
Benzo(b)fluoranthene	10	5.0		µg/Kg	1	9/17/2013 11:15 PM
Benzo(g,h,i)perylene	ND	5.0		µg/Kg	1	9/17/2013 11:15 PM
Benzo(k)fluoranthene	ND	5.0		µg/Kg	1	9/17/2013 11:15 PM
Chrysene	6.7	5.0		µg/Kg	1	9/17/2013 11:15 PM
Dibenz(a,h)anthracene	ND	5.0		µg/Kg	1	9/17/2013 11:15 PM
Fluoranthene	11	5.0		µg/Kg	1	9/17/2013 11:15 PM
Fluorene	ND	5.0		µg/Kg	1	9/17/2013 11:15 PM
Indeno(1,2,3-cd)pyrene	ND	5.0		µg/Kg	1	9/17/2013 11:15 PM
Naphthalene	ND	5.0		µg/Kg	1	9/17/2013 11:15 PM
Phenanthrene	5.3	5.0		µg/Kg	1	9/17/2013 11:15 PM
Pyrene	14	5.0		µg/Kg	1	9/17/2013 11:15 PM
Surr: 1,2-Dichlorobenzene-d4	49.0	14-120		%REC	1	9/17/2013 11:15 PM
Surr: 2-Fluorobiphenyl	54.1	28-130		%REC	1	9/17/2013 11:15 PM
Surr: 4-Terphenyl-d14	67.1	19-165		%REC	1	9/17/2013 11:15 PM
Surr: Nitrobenzene-d5	63.1	23-150		%REC	1	9/17/2013 11:15 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC3_130917A QC Batch: 43889 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	5.2	1.0		mg/Kg	1	9/17/2013 07:22 PM
ORO	16	1.0		mg/Kg	1	9/17/2013 07:22 PM
Surr: p-Terphenyl	73.4	59-127		%REC	1	9/17/2013 07:22 PM

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919A QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
4,4´-DDD	ND	2.0		µg/Kg	1	9/19/2013 03:56 AM
4,4´-DDE	ND	2.0		µg/Kg	1	9/19/2013 03:56 AM
4,4´-DDT	ND	2.0		µg/Kg	1	9/19/2013 03:56 AM
Aldrin	ND	1.0		µg/Kg	1	9/19/2013 03:56 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/19/2013 03:56 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G2-0
Lab Order:	N011008	**Collection Date:**	9/11/2013 11:45:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-016		

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919A QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
alpha-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 03:56 AM
beta-BHC	ND	1.0		µg/Kg	1	9/19/2013 03:56 AM
Chlordane	ND	8.5		µg/Kg	1	9/19/2013 03:56 AM
delta-BHC	ND	1.0		µg/Kg	1	9/19/2013 03:56 AM
Dieldrin	ND	2.0		µg/Kg	1	9/19/2013 03:56 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/19/2013 03:56 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/19/2013 03:56 AM
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/19/2013 03:56 AM
Endrin	ND	2.0		µg/Kg	1	9/19/2013 03:56 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/19/2013 03:56 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/19/2013 03:56 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/19/2013 03:56 AM
gamma-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 03:56 AM
Heptachlor	ND	1.0		µg/Kg	1	9/19/2013 03:56 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/19/2013 03:56 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/19/2013 03:56 AM
Toxaphene	ND	85		µg/Kg	1	9/19/2013 03:56 AM
Surr: Tetrachloro-m-xylene	45.5	28-161		%REC	1	9/19/2013 03:56 AM
Surr: Decachlorobiphenyl	55.7	28-120		%REC	1	9/19/2013 03:56 AM

PCBS BY GC/ECD

EPA 3550B **EPA 8082**

RunID: GC7_130917B QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Aroclor 1016	ND	17		µg/Kg	1	9/18/2013 04:01 AM
Aroclor 1221	ND	33		µg/Kg	1	9/18/2013 04:01 AM
Aroclor 1232	ND	17		µg/Kg	1	9/18/2013 04:01 AM
Aroclor 1242	ND	17		µg/Kg	1	9/18/2013 04:01 AM
Aroclor 1248	ND	17		µg/Kg	1	9/18/2013 04:01 AM
Aroclor 1254	ND	17		µg/Kg	1	9/18/2013 04:01 AM
Aroclor 1260	ND	17		µg/Kg	1	9/18/2013 04:01 AM
Surr: Decachlorobiphenyl	67.0	40-146		%REC	1	9/18/2013 04:01 AM
Surr: Tetrachloro-m-xylene	55.1	32-109		%REC	1	9/18/2013 04:01 AM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130918D QC Batch: 43902 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	ND	5.0		mg/Kg	1	9/18/2013 08:27 PM

Qualifiers:

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G2-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 11:50:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-017		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3550B				**EPA 8270CSIM**		
RunID: MS3_130917A	QC Batch: 43888			PrepDate:	9/17/2013	Analyst: **MDM**
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/17/2013 11:42 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/17/2013 11:42 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/17/2013 11:42 PM
Anthracene	ND	5.0		µg/Kg	1	9/17/2013 11:42 PM
Benzo(a)anthracene	8.7	5.0		µg/Kg	1	9/17/2013 11:42 PM
Benzo(a)pyrene	13	5.0		µg/Kg	1	9/17/2013 11:42 PM
Benzo(b)fluoranthene	16	5.0		µg/Kg	1	9/17/2013 11:42 PM
Benzo(g,h,i)perylene	ND	5.0		µg/Kg	1	9/17/2013 11:42 PM
Benzo(k)fluoranthene	5.7	5.0		µg/Kg	1	9/17/2013 11:42 PM
Chrysene	11	5.0		µg/Kg	1	9/17/2013 11:42 PM
Dibenz(a,h)anthracene	ND	5.0		µg/Kg	1	9/17/2013 11:42 PM
Fluoranthene	19	5.0		µg/Kg	1	9/17/2013 11:42 PM
Fluorene	ND	5.0		µg/Kg	1	9/17/2013 11:42 PM
Indeno(1,2,3-cd)pyrene	ND	5.0		µg/Kg	1	9/17/2013 11:42 PM
Naphthalene	ND	5.0		µg/Kg	1	9/17/2013 11:42 PM
Phenanthrene	5.7	5.0		µg/Kg	1	9/17/2013 11:42 PM
Pyrene	25	5.0		µg/Kg	1	9/17/2013 11:42 PM
Surr: 1,2-Dichlorobenzene-d4	33.0	14-120		%REC	1	9/17/2013 11:42 PM
Surr: 2-Fluorobiphenyl	43.0	28-130		%REC	1	9/17/2013 11:42 PM
Surr: 4-Terphenyl-d14	66.1	19-165		%REC	1	9/17/2013 11:42 PM
Surr: Nitrobenzene-d5	43.0	23-150		%REC	1	9/17/2013 11:42 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC3_130917A	QC Batch: 43889			PrepDate:	9/17/2013	Analyst: **MDM**
DRO	7.4	1.0		mg/Kg	1	9/17/2013 07:48 PM
ORO	25	1.0		mg/Kg	1	9/17/2013 07:48 PM
Surr: p-Terphenyl	81.3	59-127		%REC	1	9/17/2013 07:48 PM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130918D	QC Batch: 43902			PrepDate:	9/18/2013	Analyst: **JT**
Lead	ND	5.0		mg/Kg	1	9/18/2013 08:31 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G2-8
Lab Order:	N011008	**Collection Date:**	9/11/2013 11:55:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-018		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130917A QC Batch: 43888 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/18/2013 12:10 AM
Acenaphthene	ND	5.0		µg/Kg	1	9/18/2013 12:10 AM
Acenaphthylene	ND	5.0		µg/Kg	1	9/18/2013 12:10 AM
Anthracene	ND	5.0		µg/Kg	1	9/18/2013 12:10 AM
Benzo(a)anthracene	13	5.0		µg/Kg	1	9/18/2013 12:10 AM
Benzo(a)pyrene	19	5.0		µg/Kg	1	9/18/2013 12:10 AM
Benzo(b)fluoranthene	22	5.0		µg/Kg	1	9/18/2013 12:10 AM
Benzo(g,h,i)perylene	ND	5.0		µg/Kg	1	9/18/2013 12:10 AM
Benzo(k)fluoranthene	7.0	5.0		µg/Kg	1	9/18/2013 12:10 AM
Chrysene	13	5.0		µg/Kg	1	9/18/2013 12:10 AM
Dibenz(a,h)anthracene	ND	5.0		µg/Kg	1	9/18/2013 12:10 AM
Fluoranthene	28	5.0		µg/Kg	1	9/18/2013 12:10 AM
Fluorene	ND	5.0		µg/Kg	1	9/18/2013 12:10 AM
Indeno(1,2,3-cd)pyrene	ND	5.0		µg/Kg	1	9/18/2013 12:10 AM
Naphthalene	ND	5.0		µg/Kg	1	9/18/2013 12:10 AM
Phenanthrene	6.0	5.0		µg/Kg	1	9/18/2013 12:10 AM
Pyrene	36	5.0		µg/Kg	1	9/18/2013 12:10 AM
Surr: 1,2-Dichlorobenzene-d4	48.0	14-120		%REC	1	9/18/2013 12:10 AM
Surr: 2-Fluorobiphenyl	54.1	28-130		%REC	1	9/18/2013 12:10 AM
Surr: 4-Terphenyl-d14	64.1	19-165		%REC	1	9/18/2013 12:10 AM
Surr: Nitrobenzene-d5	60.1	23-150		%REC	1	9/18/2013 12:10 AM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC3_130917A QC Batch: 43889 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	5.3	1.0		mg/Kg	1	9/17/2013 08:15 PM
ORO	16	1.0		mg/Kg	1	9/17/2013 08:15 PM
Surr: p-Terphenyl	82.7	59-127		%REC	1	9/17/2013 08:15 PM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130918D QC Batch: 43902 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	ND	5.0		mg/Kg	1	9/18/2013 08:35 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G3-0
Lab Order:	N011008	**Collection Date:**	9/11/2013 12:10:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-019		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130917A QC Batch: 43888 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/18/2013 12:38 AM
Acenaphthene	ND	5.0		µg/Kg	1	9/18/2013 12:38 AM
Acenaphthylene	ND	5.0		µg/Kg	1	9/18/2013 12:38 AM
Anthracene	ND	5.0		µg/Kg	1	9/18/2013 12:38 AM
Benzo(a)anthracene	5.0	5.0		µg/Kg	1	9/18/2013 12:38 AM
Benzo(a)pyrene	6.3	5.0		µg/Kg	1	9/18/2013 12:38 AM
Benzo(b)fluoranthene	8.3	5.0		µg/Kg	1	9/18/2013 12:38 AM
Benzo(g,h,i)perylene	ND	5.0		µg/Kg	1	9/18/2013 12:38 AM
Benzo(k)fluoranthene	ND	5.0		µg/Kg	1	9/18/2013 12:38 AM
Chrysene	6.7	5.0		µg/Kg	1	9/18/2013 12:38 AM
Dibenz(a,h)anthracene	ND	5.0		µg/Kg	1	9/18/2013 12:38 AM
Fluoranthene	11	5.0		µg/Kg	1	9/18/2013 12:38 AM
Fluorene	ND	5.0		µg/Kg	1	9/18/2013 12:38 AM
Indeno(1,2,3-cd)pyrene	ND	5.0		µg/Kg	1	9/18/2013 12:38 AM
Naphthalene	ND	5.0		µg/Kg	1	9/18/2013 12:38 AM
Phenanthrene	7.0	5.0		µg/Kg	1	9/18/2013 12:38 AM
Pyrene	13	5.0		µg/Kg	1	9/18/2013 12:38 AM
Surr: 1,2-Dichlorobenzene-d4	58.1	14-120		%REC	1	9/18/2013 12:38 AM
Surr: 2-Fluorobiphenyl	65.1	28-130		%REC	1	9/18/2013 12:38 AM
Surr: 4-Terphenyl-d14	73.1	19-165		%REC	1	9/18/2013 12:38 AM
Surr: Nitrobenzene-d5	72.1	23-150		%REC	1	9/18/2013 12:38 AM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC3_130917A QC Batch: 43889 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	5.1	1.0		mg/Kg	1	9/17/2013 08:41 PM
ORO	16	1.0		mg/Kg	1	9/17/2013 08:41 PM
Surr: p-Terphenyl	81.3	59-127		%REC	1	9/17/2013 08:41 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43890 PrepDate: 9/17/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	ND	0.10		mg/Kg	1	9/18/2013

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130921A QC Batch: 43901 PrepDate: 9/18/2013 Analyst: **JT**

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT: Geocon Consultants, Inc.

Client Sample ID: G3-0

Lab Order: N011008

Collection Date: 9/11/2013 12:10:00 PM

Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

Matrix: SOIL

Lab ID: N011008-019

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130921A QC Batch: 43901 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/21/2013 02:55 PM
Arsenic	2.5	1.0		mg/Kg	1	9/21/2013 02:55 PM
Barium	40	1.0		mg/Kg	1	9/21/2013 02:55 PM
Beryllium	ND	1.0		mg/Kg	1	9/21/2013 02:55 PM
Cadmium	ND	1.0		mg/Kg	1	9/21/2013 02:55 PM
Chromium	42	1.0		mg/Kg	1	9/21/2013 02:55 PM
Cobalt	10	1.0		mg/Kg	1	9/21/2013 02:55 PM
Copper	24	2.0		mg/Kg	1	9/21/2013 02:55 PM
Lead	2.5	1.0		mg/Kg	1	9/21/2013 02:55 PM
Molybdenum	ND	1.0		mg/Kg	1	9/21/2013 02:55 PM
Nickel	28	1.0		mg/Kg	1	9/21/2013 02:55 PM
Selenium	1.2	1.0		mg/Kg	1	9/21/2013 02:55 PM
Silver	ND	1.0		mg/Kg	1	9/21/2013 02:55 PM
Thallium	ND	1.0		mg/Kg	1	9/21/2013 02:55 PM
Vanadium	40	1.0		mg/Kg	1	9/21/2013 02:55 PM
Zinc	25	1.0		mg/Kg	1	9/21/2013 02:55 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G3-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 12:15:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-020		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130917A QC Batch: 43888 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/18/2013 01:06 AM
Acenaphthene	ND	5.0		µg/Kg	1	9/18/2013 01:06 AM
Acenaphthylene	ND	5.0		µg/Kg	1	9/18/2013 01:06 AM
Anthracene	ND	5.0		µg/Kg	1	9/18/2013 01:06 AM
Benzo(a)anthracene	6.4	5.0		µg/Kg	1	9/18/2013 01:06 AM
Benzo(a)pyrene	9.0	5.0		µg/Kg	1	9/18/2013 01:06 AM
Benzo(b)fluoranthene	12	5.0		µg/Kg	1	9/18/2013 01:06 AM
Benzo(g,h,i)perylene	ND	5.0		µg/Kg	1	9/18/2013 01:06 AM
Benzo(k)fluoranthene	ND	5.0		µg/Kg	1	9/18/2013 01:06 AM
Chrysene	6.7	5.0		µg/Kg	1	9/18/2013 01:06 AM
Dibenz(a,h)anthracene	ND	5.0		µg/Kg	1	9/18/2013 01:06 AM
Fluoranthene	19	5.0		µg/Kg	1	9/18/2013 01:06 AM
Fluorene	ND	5.0		µg/Kg	1	9/18/2013 01:06 AM
Indeno(1,2,3-cd)pyrene	ND	5.0		µg/Kg	1	9/18/2013 01:06 AM
Naphthalene	ND	5.0		µg/Kg	1	9/18/2013 01:06 AM
Phenanthrene	11	5.0		µg/Kg	1	9/18/2013 01:06 AM
Pyrene	20	5.0		µg/Kg	1	9/18/2013 01:06 AM
Surr: 1,2-Dichlorobenzene-d4	51.1	14-120		%REC	1	9/18/2013 01:06 AM
Surr: 2-Fluorobiphenyl	59.1	28-130		%REC	1	9/18/2013 01:06 AM
Surr: 4-Terphenyl-d14	74.1	19-165		%REC	1	9/18/2013 01:06 AM
Surr: Nitrobenzene-d5	66.1	23-150		%REC	1	9/18/2013 01:06 AM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/19/2013 04:24 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G3-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 12:15:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-020		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
Benzene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
Bromoform	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
Bromomethane	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
Chloroethane	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
Chloroform	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
Chloromethane	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
m,p-Xylene	ND	10		µg/Kg	1	9/19/2013 04:24 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
MTBE	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
Naphthalene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G3-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 12:15:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-020		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
o-Xylene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
Styrene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
Toluene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/19/2013 04:24 PM
Surr: 1,2-Dichloroethane-d4	103	63-139		%REC	1	9/19/2013 04:24 PM
Surr: 4-Bromofluorobenzene	89.0	75-124		%REC	1	9/19/2013 04:24 PM
Surr: Dibromofluoromethane	97.3	70-133		%REC	1	9/19/2013 04:24 PM
Surr: Toluene-d8	93.3	80-123		%REC	1	9/19/2013 04:24 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC3_130917A QC Batch: 43889 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	34	1.0		mg/Kg	1	9/17/2013 09:07 PM
ORO	72	1.0		mg/Kg	1	9/17/2013 09:07 PM
Surr: p-Terphenyl	91.1	59-127		%REC	1	9/17/2013 09:07 PM

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919A QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
4,4´-DDD	ND	2.0		µg/Kg	1	9/19/2013 04:22 AM
4,4´-DDE	ND	2.0		µg/Kg	1	9/19/2013 04:22 AM
4,4´-DDT	ND	2.0		µg/Kg	1	9/19/2013 04:22 AM
Aldrin	ND	1.0		µg/Kg	1	9/19/2013 04:22 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/19/2013 04:22 AM
alpha-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 04:22 AM
beta-BHC	ND	1.0		µg/Kg	1	9/19/2013 04:22 AM
Chlordane	ND	8.5		µg/Kg	1	9/19/2013 04:22 AM
delta-BHC	ND	1.0		µg/Kg	1	9/19/2013 04:22 AM
Dieldrin	ND	2.0		µg/Kg	1	9/19/2013 04:22 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/19/2013 04:22 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/19/2013 04:22 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G3-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 12:15:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-020		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD						
EPA 3550B				**EPA 8081A**		
RunID: GC7_130919A	QC Batch: 43887			PrepDate:	9/17/2013	Analyst: **MDM**
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/19/2013 04:22 AM
Endrin	ND	2.0		µg/Kg	1	9/19/2013 04:22 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/19/2013 04:22 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/19/2013 04:22 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/19/2013 04:22 AM
gamma-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 04:22 AM
Heptachlor	ND	1.0		µg/Kg	1	9/19/2013 04:22 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/19/2013 04:22 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/19/2013 04:22 AM
Toxaphene	ND	85		µg/Kg	1	9/19/2013 04:22 AM
Surr: Tetrachloro-m-xylene	54.6	28-161		%REC	1	9/19/2013 04:22 AM
Surr: Decachlorobiphenyl	60.8	28-120		%REC	1	9/19/2013 04:22 AM
PCBS BY GC/ECD						
EPA 3550B				**EPA 8082**		
RunID: GC7_130917B	QC Batch: 43887			PrepDate:	9/17/2013	Analyst: **MDM**
Aroclor 1016	ND	17		µg/Kg	1	9/18/2013 04:30 AM
Aroclor 1221	ND	33		µg/Kg	1	9/18/2013 04:30 AM
Aroclor 1232	ND	17		µg/Kg	1	9/18/2013 04:30 AM
Aroclor 1242	ND	17		µg/Kg	1	9/18/2013 04:30 AM
Aroclor 1248	ND	17		µg/Kg	1	9/18/2013 04:30 AM
Aroclor 1254	ND	17		µg/Kg	1	9/18/2013 04:30 AM
Aroclor 1260	ND	17		µg/Kg	1	9/18/2013 04:30 AM
Surr: Decachlorobiphenyl	73.5	40-146		%REC	1	9/18/2013 04:30 AM
Surr: Tetrachloro-m-xylene	68.5	32-109		%REC	1	9/18/2013 04:30 AM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B		
RunID: GC4_130918A	QC Batch: E13VS096			PrepDate:		Analyst: **PN**
GRO	ND	1.0		mg/Kg	1	9/18/2013 10:37 AM
Surr: Chlorobenzene - d5	104	51-136		%REC	1	9/18/2013 10:37 AM
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471				**EPA 7471A**		
RunID: AA1_130918E	QC Batch: 43890			PrepDate:	9/17/2013	Analyst: **JT**
Mercury	ND	0.10		mg/Kg	1	9/18/2013

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G3-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 12:15:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-020		

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130921A QC Batch: 43901 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/21/2013 03:21 PM
Arsenic	1.7	1.0		mg/Kg	1	9/21/2013 03:21 PM
Barium	63	1.0		mg/Kg	1	9/21/2013 03:21 PM
Beryllium	ND	1.0		mg/Kg	1	9/21/2013 03:21 PM
Cadmium	ND	1.0		mg/Kg	1	9/21/2013 03:21 PM
Chromium	52	1.0		mg/Kg	1	9/21/2013 03:21 PM
Cobalt	15	1.0		mg/Kg	1	9/21/2013 03:21 PM
Copper	42	2.0		mg/Kg	1	9/21/2013 03:21 PM
Lead	5.0	1.0		mg/Kg	1	9/21/2013 03:21 PM
Molybdenum	ND	1.0		mg/Kg	1	9/21/2013 03:21 PM
Nickel	34	1.0		mg/Kg	1	9/21/2013 03:21 PM
Selenium	1.9	1.0		mg/Kg	1	9/21/2013 03:21 PM
Silver	ND	1.0		mg/Kg	1	9/21/2013 03:21 PM
Thallium	ND	1.0		mg/Kg	1	9/21/2013 03:21 PM
Vanadium	54	1.0		mg/Kg	1	9/21/2013 03:21 PM
Zinc	33	1.0		mg/Kg	1	9/21/2013 03:21 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G3-8
Lab Order:	N011008	**Collection Date:**	9/11/2013 12:20:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-021		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130918A QC Batch: 43898 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/18/2013 03:06 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/18/2013 03:06 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/18/2013 03:06 PM
Anthracene	ND	5.0		µg/Kg	1	9/18/2013 03:06 PM
Benzo(a)anthracene	5.3	5.0		µg/Kg	1	9/18/2013 03:06 PM
Benzo(a)pyrene	ND	50		µg/Kg	10	9/22/2013 12:21 AM
Benzo(b)fluoranthene	ND	50		µg/Kg	10	9/22/2013 12:21 AM
Benzo(g,h,i)perylene	ND	50		µg/Kg	10	9/22/2013 12:21 AM
Benzo(k)fluoranthene	ND	50		µg/Kg	10	9/22/2013 12:21 AM
Chrysene	19	5.0		µg/Kg	1	9/18/2013 03:06 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/22/2013 12:21 AM
Fluoranthene	15	5.0		µg/Kg	1	9/18/2013 03:06 PM
Fluorene	ND	5.0		µg/Kg	1	9/18/2013 03:06 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/Kg	10	9/22/2013 12:21 AM
Naphthalene	ND	5.0		µg/Kg	1	9/18/2013 03:06 PM
Phenanthrene	7.7	5.0		µg/Kg	1	9/18/2013 03:06 PM
Pyrene	22	5.0		µg/Kg	1	9/18/2013 03:06 PM
Surr: 1,2-Dichlorobenzene-d4	48.0	14-120		%REC	1	9/18/2013 03:06 PM
Surr: 2-Fluorobiphenyl	59.1	28-130		%REC	1	9/18/2013 03:06 PM
Surr: 4-Terphenyl-d14	91.1	19-165		%REC	1	9/18/2013 03:06 PM
Surr: Nitrobenzene-d5	62.1	23-150		%REC	1	9/18/2013 03:06 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/19/2013 06:38 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G3-8
Lab Order:	N011008	**Collection Date:**	9/11/2013 12:20:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-021		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
Benzene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
Bromoform	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
Bromomethane	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
Chloroethane	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
Chloroform	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
Chloromethane	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
m,p-Xylene	ND	10		µg/Kg	1	9/19/2013 06:38 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
MTBE	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
Naphthalene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G3-8
Lab Order:	N011008	**Collection Date:**	9/11/2013 12:20:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-021		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 8260B						
RunID: MS6_130919A	QC Batch: Q13VS001			PrepDate:		Analyst: **QBM**
o-Xylene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
Styrene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
Toluene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/19/2013 06:38 PM
Surr: 1,2-Dichloroethane-d4	94.3	63-139		%REC	1	9/19/2013 06:38 PM
Surr: 4-Bromofluorobenzene	83.1	75-124		%REC	1	9/19/2013 06:38 PM
Surr: Dibromofluoromethane	89.1	70-133		%REC	1	9/19/2013 06:38 PM
Surr: Toluene-d8	85.7	80-123		%REC	1	9/19/2013 06:38 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC3_130918A	QC Batch: 43899			PrepDate:	9/18/2013	Analyst: **MDM**
DRO	9.8	1.0		mg/Kg	1	9/18/2013 03:38 PM
ORO	24	1.0		mg/Kg	1	9/18/2013 03:38 PM
Surr: p-Terphenyl	66.0	59-127		%REC	1	9/18/2013 03:38 PM
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B						
RunID: GC4_130918A	QC Batch: E13VS096			PrepDate:		Analyst: **PN**
GRO	ND	1.0		mg/Kg	1	9/18/2013 11:35 AM
Surr: Chlorobenzene - d5	106	51-136		%REC	1	9/18/2013 11:35 AM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130918D	QC Batch: 43902			PrepDate:	9/18/2013	Analyst: **JT**
Lead	ND	5.0		mg/Kg	1	9/18/2013 08:40 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G4-0
Lab Order:	N011008	**Collection Date:**	9/11/2013 12:45:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-022		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3550B				**EPA 8270CSIM**		
RunID: MS3_130918A	QC Batch: 43898			PrepDate: 9/18/2013		Analyst: **MDM**
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/18/2013 04:58 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/18/2013 04:58 PM
Acenaphthylene	23	5.0		µg/Kg	1	9/18/2013 04:58 PM
Anthracene	130	5.0		µg/Kg	1	9/18/2013 04:58 PM
Benzo(a)anthracene	290	50		µg/Kg	10	9/22/2013 12:48 AM
Benzo(a)pyrene	260	50		µg/Kg	10	9/22/2013 12:48 AM
Benzo(b)fluoranthene	250	50		µg/Kg	10	9/22/2013 12:48 AM
Benzo(g,h,i)perylene	130	50		µg/Kg	10	9/22/2013 12:48 AM
Benzo(k)fluoranthene	110	50		µg/Kg	10	9/22/2013 12:48 AM
Chrysene	300	50		µg/Kg	10	9/22/2013 12:48 AM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/22/2013 12:48 AM
Fluoranthene	510	50		µg/Kg	10	9/22/2013 12:48 AM
Fluorene	22	5.0		µg/Kg	1	9/18/2013 04:58 PM
Indeno(1,2,3-cd)pyrene	110	50		µg/Kg	10	9/22/2013 12:48 AM
Naphthalene	ND	5.0		µg/Kg	1	9/18/2013 04:58 PM
Phenanthrene	300	50		µg/Kg	10	9/22/2013 12:48 AM
Pyrene	560	50		µg/Kg	10	9/22/2013 12:48 AM
Surr: 1,2-Dichlorobenzene-d4	51.1	14-120		%REC	1	9/18/2013 04:58 PM
Surr: 2-Fluorobiphenyl	69.1	28-130		%REC	1	9/18/2013 04:58 PM
Surr: 4-Terphenyl-d14	158	19-165		%REC	1	9/18/2013 04:58 PM
Surr: Nitrobenzene-d5	72.1	23-150		%REC	1	9/18/2013 04:58 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC3_130918A	QC Batch: 43899			PrepDate: 9/18/2013		Analyst: **MDM**
DRO	10	1.0		mg/Kg	1	9/18/2013 04:04 PM
ORO	29	1.0		mg/Kg	1	9/18/2013 04:04 PM
Surr: p-Terphenyl	83.5	59-127		%REC	1	9/18/2013 04:04 PM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130918D	QC Batch: 43902			PrepDate: 9/18/2013		Analyst: **JT**
Lead	5.5	5.0		mg/Kg	1	9/18/2013 09:06 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G4-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 12:50:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-023		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130918A QC Batch: 43898 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/18/2013 05:54 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/18/2013 05:54 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/18/2013 05:54 PM
Anthracene	ND	5.0		µg/Kg	1	9/18/2013 05:54 PM
Benzo(a)anthracene	ND	50		µg/Kg	10	9/22/2013 11:19 AM
Benzo(a)pyrene	ND	50		µg/Kg	10	9/22/2013 11:19 AM
Benzo(b)fluoranthene	ND	50		µg/Kg	10	9/22/2013 11:19 AM
Benzo(g,h,i)perylene	ND	50		µg/Kg	10	9/22/2013 11:19 AM
Benzo(k)fluoranthene	ND	50		µg/Kg	10	9/22/2013 11:19 AM
Chrysene	ND	50		µg/Kg	10	9/22/2013 11:19 AM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/22/2013 11:19 AM
Fluoranthene	ND	5.0		µg/Kg	1	9/18/2013 05:54 PM
Fluorene	ND	5.0		µg/Kg	1	9/18/2013 05:54 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/Kg	10	9/22/2013 11:19 AM
Naphthalene	ND	5.0		µg/Kg	1	9/18/2013 05:54 PM
Phenanthrene	ND	5.0		µg/Kg	1	9/18/2013 05:54 PM
Pyrene	ND	5.0		µg/Kg	1	9/18/2013 05:54 PM
Surr: 1,2-Dichlorobenzene-d4	49.0	14-120		%REC	1	9/18/2013 05:54 PM
Surr: 2-Fluorobiphenyl	66.1	28-130		%REC	1	9/18/2013 05:54 PM
Surr: 4-Terphenyl-d14	80.1	19-165		%REC	10	9/22/2013 11:19 AM
Surr: Nitrobenzene-d5	70.1	23-150		%REC	1	9/18/2013 05:54 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC3_130918A QC Batch: 43899 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	3.3	1.0		mg/Kg	1	9/18/2013 04:30 PM
ORO	7.0	1.0		mg/Kg	1	9/18/2013 04:30 PM
Surr: p-Terphenyl	86.2	59-127		%REC	1	9/18/2013 04:30 PM

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919A QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
4,4´-DDD	ND	2.0		µg/Kg	1	9/19/2013 04:48 AM
4,4´-DDE	ND	2.0		µg/Kg	1	9/19/2013 04:48 AM
4,4´-DDT	ND	2.0		µg/Kg	1	9/19/2013 04:48 AM
Aldrin	ND	1.0		µg/Kg	1	9/19/2013 04:48 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/19/2013 04:48 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G4-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 12:50:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-023		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD						
EPA 3550B				**EPA 8081A**		
RunID: GC7_130919A	QC Batch: 43887			PrepDate: 9/17/2013		Analyst: **MDM**
alpha-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 04:48 AM
beta-BHC	ND	1.0		µg/Kg	1	9/19/2013 04:48 AM
Chlordane	ND	8.5		µg/Kg	1	9/19/2013 04:48 AM
delta-BHC	ND	1.0		µg/Kg	1	9/19/2013 04:48 AM
Dieldrin	ND	2.0		µg/Kg	1	9/19/2013 04:48 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/19/2013 04:48 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/19/2013 04:48 AM
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/19/2013 04:48 AM
Endrin	ND	2.0		µg/Kg	1	9/19/2013 04:48 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/19/2013 04:48 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/19/2013 04:48 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/19/2013 04:48 AM
gamma-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 04:48 AM
Heptachlor	ND	1.0		µg/Kg	1	9/19/2013 04:48 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/19/2013 04:48 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/19/2013 04:48 AM
Toxaphene	ND	85		µg/Kg	1	9/19/2013 04:48 AM
Surr: Tetrachloro-m-xylene	23.6	28-161	S	%REC	1	9/19/2013 04:48 AM
Surr: Decachlorobiphenyl	34.1	28-120		%REC	1	9/19/2013 04:48 AM
PCBS BY GC/ECD						
EPA 3550B				**EPA 8082**		
RunID: GC7_130917B	QC Batch: 43887			PrepDate: 9/17/2013		Analyst: **MDM**
Aroclor 1016	ND	16		µg/Kg	1	9/18/2013 05:00 AM
Aroclor 1221	ND	33		µg/Kg	1	9/18/2013 05:00 AM
Aroclor 1232	ND	16		µg/Kg	1	9/18/2013 05:00 AM
Aroclor 1242	ND	16		µg/Kg	1	9/18/2013 05:00 AM
Aroclor 1248	ND	16		µg/Kg	1	9/18/2013 05:00 AM
Aroclor 1254	ND	16		µg/Kg	1	9/18/2013 05:00 AM
Aroclor 1260	ND	16		µg/Kg	1	9/18/2013 05:00 AM
Surr: Decachlorobiphenyl	40.7	40-146		%REC	1	9/18/2013 05:00 AM
Surr: Tetrachloro-m-xylene	30.4	32-109	S	%REC	1	9/18/2013 05:00 AM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130918D	QC Batch: 43902			PrepDate: 9/18/2013		Analyst: **JT**
Lead	6.4	5.0		mg/Kg	1	9/18/2013 09:15 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G4-8
Lab Order:	N011008	**Collection Date:**	9/11/2013 12:55:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-024		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130918A QC Batch: 43898 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/18/2013 06:22 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/18/2013 06:22 PM
Acenaphthylene	7.7	5.0		µg/Kg	1	9/18/2013 06:22 PM
Anthracene	13	5.0		µg/Kg	1	9/18/2013 06:22 PM
Benzo(a)anthracene	ND	50		µg/Kg	10	9/22/2013 11:47 AM
Benzo(a)pyrene	ND	50		µg/Kg	10	9/22/2013 11:47 AM
Benzo(b)fluoranthene	60	50		µg/Kg	10	9/22/2013 11:47 AM
Benzo(g,h,i)perylene	ND	50		µg/Kg	10	9/22/2013 11:47 AM
Benzo(k)fluoranthene	ND	50		µg/Kg	10	9/22/2013 11:47 AM
Chrysene	60	50		µg/Kg	10	9/22/2013 11:47 AM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/22/2013 11:47 AM
Fluoranthene	58	5.0		µg/Kg	1	9/18/2013 06:22 PM
Fluorene	5.0	5.0		µg/Kg	1	9/18/2013 06:22 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/Kg	10	9/22/2013 11:47 AM
Naphthalene	ND	5.0		µg/Kg	1	9/18/2013 06:22 PM
Phenanthrene	44	5.0		µg/Kg	1	9/18/2013 06:22 PM
Pyrene	62	5.0		µg/Kg	1	9/18/2013 06:22 PM
Surr: 1,2-Dichlorobenzene-d4	48.0	14-120		%REC	1	9/18/2013 06:22 PM
Surr: 2-Fluorobiphenyl	61.1	28-130		%REC	1	9/18/2013 06:22 PM
Surr: 4-Terphenyl-d14	90.1	19-165		%REC	10	9/22/2013 11:47 AM
Surr: Nitrobenzene-d5	68.1	23-150		%REC	1	9/18/2013 06:22 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC3_130918A QC Batch: 43899 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	31	1.0		mg/Kg	1	9/18/2013 04:56 PM
ORO	82	1.0		mg/Kg	1	9/18/2013 04:56 PM
Surr: p-Terphenyl	91.6	59-127		%REC	1	9/18/2013 04:56 PM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130918D QC Batch: 43902 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	120	5.0		mg/Kg	1	9/18/2013 09:19 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G5-0
Lab Order:	N011008	**Collection Date:**	9/11/2013 1:05:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-025		

HEXAVALENT CHROMIUM

EPA 3060A EPA 7196A

RunID: WETCHEM_130920C QC Batch: 43908 PrepDate: 9/19/2013 Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chromium, Hexavalent	ND	1.0		mg/Kg	1	9/20/2013

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B EPA 8270CSIM

RunID: MS3_130918A QC Batch: 43898 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/18/2013 06:50 PM
Acenaphthene	8.7	5.0		µg/Kg	1	9/18/2013 06:50 PM
Acenaphthylene	8.4	5.0		µg/Kg	1	9/18/2013 06:50 PM
Anthracene	19	5.0		µg/Kg	1	9/18/2013 06:50 PM
Benzo(a)anthracene	ND	50		µg/Kg	10	9/22/2013 12:15 PM
Benzo(a)pyrene	ND	50		µg/Kg	10	9/22/2013 12:15 PM
Benzo(b)fluoranthene	ND	50		µg/Kg	10	9/22/2013 12:15 PM
Benzo(g,h,i)perylene	ND	50		µg/Kg	10	9/22/2013 12:15 PM
Benzo(k)fluoranthene	ND	50		µg/Kg	10	9/22/2013 12:15 PM
Chrysene	ND	50		µg/Kg	10	9/22/2013 12:15 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/22/2013 12:15 PM
Fluoranthene	86	5.0		µg/Kg	1	9/18/2013 06:50 PM
Fluorene	6.4	5.0		µg/Kg	1	9/18/2013 06:50 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/Kg	10	9/22/2013 12:15 PM
Naphthalene	ND	5.0		µg/Kg	1	9/18/2013 06:50 PM
Phenanthrene	77	5.0		µg/Kg	1	9/18/2013 06:50 PM
Pyrene	97	5.0		µg/Kg	1	9/18/2013 06:50 PM
Surr: 1,2-Dichlorobenzene-d4	54.1	14-120		%REC	1	9/18/2013 06:50 PM
Surr: 2-Fluorobiphenyl	66.1	28-130		%REC	1	9/18/2013 06:50 PM
Surr: 4-Terphenyl-d14	80.1	19-165		%REC	10	9/22/2013 12:15 PM
Surr: Nitrobenzene-d5	70.1	23-150		%REC	1	9/18/2013 06:50 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B EPA 8015B

RunID: GC3_130918A QC Batch: 43899 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	13	1.0		mg/Kg	1	9/18/2013 05:48 PM
ORO	33	1.0		mg/Kg	1	9/18/2013 05:48 PM
Surr: p-Terphenyl	88.6	59-127		%REC	1	9/18/2013 05:48 PM

LEAD BY ICP

EPA 3050B EPA 6010B

RunID: ICP2_130918D QC Batch: 43902 PrepDate: 9/18/2013 Analyst: **JT**

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G5-0
Lab Order:	N011008	**Collection Date:**	9/11/2013 1:05:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-025		

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130918D QC Batch: 43902 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	5.1	5.0		mg/Kg	1	9/18/2013 09:24 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G5-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 1:45:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-026		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130918A QC Batch: 43898 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/18/2013 07:18 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/18/2013 07:18 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/18/2013 07:18 PM
Anthracene	8.3	5.0		µg/Kg	1	9/18/2013 07:18 PM
Benzo(a)anthracene	ND	50		µg/Kg	10	9/22/2013 12:43 PM
Benzo(a)pyrene	ND	50		µg/Kg	10	9/22/2013 12:43 PM
Benzo(b)fluoranthene	ND	50		µg/Kg	10	9/22/2013 12:43 PM
Benzo(g,h,i)perylene	ND	50		µg/Kg	10	9/22/2013 12:43 PM
Benzo(k)fluoranthene	ND	50		µg/Kg	10	9/22/2013 12:43 PM
Chrysene	ND	50		µg/Kg	10	9/22/2013 12:43 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/22/2013 12:43 PM
Fluoranthene	30	5.0		µg/Kg	1	9/18/2013 07:18 PM
Fluorene	ND	5.0		µg/Kg	1	9/18/2013 07:18 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/Kg	10	9/22/2013 12:43 PM
Naphthalene	ND	5.0		µg/Kg	1	9/18/2013 07:18 PM
Phenanthrene	14	5.0		µg/Kg	1	9/18/2013 07:18 PM
Pyrene	33	5.0		µg/Kg	1	9/18/2013 07:18 PM
Surr: 1,2-Dichlorobenzene-d4	44.0	14-120		%REC	1	9/18/2013 07:18 PM
Surr: 2-Fluorobiphenyl	56.1	28-130		%REC	1	9/18/2013 07:18 PM
Surr: 4-Terphenyl-d14	90.1	19-165		%REC	10	9/22/2013 12:43 PM
Surr: Nitrobenzene-d5	58.1	23-150		%REC	1	9/18/2013 07:18 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/19/2013 06:59 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G5-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 1:45:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-026		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
Benzene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
Bromoform	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
Bromomethane	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
Chloroethane	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
Chloroform	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
Chloromethane	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
m,p-Xylene	ND	10		µg/Kg	1	9/19/2013 06:59 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
MTBE	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
Naphthalene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G5-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 1:45:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-026		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
o-Xylene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
Styrene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
Toluene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/19/2013 06:59 PM
Surr: 1,2-Dichloroethane-d4	89.9	63-139		%REC	1	9/19/2013 06:59 PM
Surr: 4-Bromofluorobenzene	93.1	75-124		%REC	1	9/19/2013 06:59 PM
Surr: Dibromofluoromethane	90.1	70-133		%REC	1	9/19/2013 06:59 PM
Surr: Toluene-d8	96.8	80-123		%REC	1	9/19/2013 06:59 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC3_130918A QC Batch: 43899 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	50	1.0		mg/Kg	1	9/18/2013 06:14 PM
ORO	94	1.0		mg/Kg	1	9/18/2013 06:14 PM
Surr: p-Terphenyl	82.9	59-127		%REC	1	9/18/2013 06:14 PM

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919A QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
4,4´-DDD	ND	2.0		µg/Kg	1	9/19/2013 05:40 AM
4,4´-DDE	ND	2.0		µg/Kg	1	9/19/2013 05:40 AM
4,4´-DDT	ND	2.0		µg/Kg	1	9/19/2013 05:40 AM
Aldrin	ND	1.0		µg/Kg	1	9/19/2013 05:40 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/19/2013 05:40 AM
alpha-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 05:40 AM
beta-BHC	ND	1.0		µg/Kg	1	9/19/2013 05:40 AM
Chlordane	ND	8.5		µg/Kg	1	9/19/2013 05:40 AM
delta-BHC	ND	1.0		µg/Kg	1	9/19/2013 05:40 AM
Dieldrin	ND	2.0		µg/Kg	1	9/19/2013 05:40 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/19/2013 05:40 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/19/2013 05:40 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G5-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 1:45:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-026		

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919A QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/19/2013 05:40 AM
Endrin	ND	2.0		µg/Kg	1	9/19/2013 05:40 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/19/2013 05:40 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/19/2013 05:40 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/19/2013 05:40 AM
gamma-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 05:40 AM
Heptachlor	ND	1.0		µg/Kg	1	9/19/2013 05:40 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/19/2013 05:40 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/19/2013 05:40 AM
Toxaphene	ND	85		µg/Kg	1	9/19/2013 05:40 AM
Surr: Tetrachloro-m-xylene	56.4	28-161		%REC	1	9/19/2013 05:40 AM
Surr: Decachlorobiphenyl	58.5	28-120		%REC	1	9/19/2013 05:40 AM

PCBS BY GC/ECD

EPA 3550B **EPA 8082**

RunID: GC7_130917B QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Aroclor 1016	ND	17		µg/Kg	1	9/18/2013 07:52 AM
Aroclor 1221	ND	33		µg/Kg	1	9/18/2013 07:52 AM
Aroclor 1232	ND	17		µg/Kg	1	9/18/2013 07:52 AM
Aroclor 1242	ND	17		µg/Kg	1	9/18/2013 07:52 AM
Aroclor 1248	ND	17		µg/Kg	1	9/18/2013 07:52 AM
Aroclor 1254	ND	17		µg/Kg	1	9/18/2013 07:52 AM
Aroclor 1260	ND	17		µg/Kg	1	9/18/2013 07:52 AM
Surr: Decachlorobiphenyl	71.1	40-146		%REC	1	9/18/2013 07:52 AM
Surr: Tetrachloro-m-xylene	68.3	32-109		%REC	1	9/18/2013 07:52 AM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130918A QC Batch: E13VS096 PrepDate: Analyst: **PN**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GRO	ND	1.0		mg/Kg	1	9/18/2013 12:03 PM
Surr: Chlorobenzene - d5	106	51-136		%REC	1	9/18/2013 12:03 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43890 PrepDate: 9/17/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	0.14	0.10		mg/Kg	1	9/18/2013

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G5-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 1:45:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-026		

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130921A QC Batch: 43901 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/21/2013 03:37 PM
Arsenic	2.8	1.0		mg/Kg	1	9/21/2013 03:37 PM
Barium	24	1.0		mg/Kg	1	9/21/2013 03:37 PM
Beryllium	ND	1.0		mg/Kg	1	9/21/2013 03:37 PM
Cadmium	ND	1.0		mg/Kg	1	9/21/2013 03:37 PM
Chromium	32	1.0		mg/Kg	1	9/21/2013 03:37 PM
Cobalt	8.4	1.0		mg/Kg	1	9/21/2013 03:37 PM
Copper	17	2.0		mg/Kg	1	9/21/2013 03:37 PM
Lead	3.3	1.0		mg/Kg	1	9/21/2013 03:37 PM
Molybdenum	ND	1.0		mg/Kg	1	9/21/2013 03:37 PM
Nickel	25	1.0		mg/Kg	1	9/21/2013 03:37 PM
Selenium	1.1	1.0		mg/Kg	1	9/21/2013 03:37 PM
Silver	ND	1.0		mg/Kg	1	9/21/2013 03:37 PM
Thallium	ND	1.0		mg/Kg	1	9/21/2013 03:37 PM
Vanadium	40	1.0		mg/Kg	1	9/21/2013 03:37 PM
Zinc	24	1.0		mg/Kg	1	9/21/2013 03:37 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G5-8
Lab Order:	N011008	**Collection Date:**	9/11/2013 2:00:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-027		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130918A QC Batch: 43898 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/18/2013 07:46 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/18/2013 07:46 PM
Acenaphthylene	7.3	5.0		µg/Kg	1	9/18/2013 07:46 PM
Anthracene	19	5.0		µg/Kg	1	9/18/2013 07:46 PM
Benzo(a)anthracene	ND	50		µg/Kg	10	9/22/2013 01:10 PM
Benzo(a)pyrene	60	50		µg/Kg	10	9/22/2013 01:10 PM
Benzo(b)fluoranthene	ND	50		µg/Kg	10	9/22/2013 01:10 PM
Benzo(g,h,i)perylene	ND	50		µg/Kg	10	9/22/2013 01:10 PM
Benzo(k)fluoranthene	ND	50		µg/Kg	10	9/22/2013 01:10 PM
Chrysene	ND	50		µg/Kg	10	9/22/2013 01:10 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/22/2013 01:10 PM
Fluoranthene	48	5.0		µg/Kg	1	9/18/2013 07:46 PM
Fluorene	ND	5.0		µg/Kg	1	9/18/2013 07:46 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/Kg	10	9/22/2013 01:10 PM
Naphthalene	ND	5.0		µg/Kg	1	9/18/2013 07:46 PM
Phenanthrene	31	5.0		µg/Kg	1	9/18/2013 07:46 PM
Pyrene	53	5.0		µg/Kg	1	9/18/2013 07:46 PM
Surr: 1,2-Dichlorobenzene-d4	54.1	14-120		%REC	1	9/18/2013 07:46 PM
Surr: 2-Fluorobiphenyl	69.1	28-130		%REC	1	9/18/2013 07:46 PM
Surr: 4-Terphenyl-d14	90.1	19-165		%REC	10	9/22/2013 01:10 PM
Surr: Nitrobenzene-d5	69.1	23-150		%REC	1	9/18/2013 07:46 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/19/2013 07:21 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G5-8
Lab Order:	N011008	**Collection Date:**	9/11/2013 2:00:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-027		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
Benzene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
Bromoform	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
Bromomethane	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
Chloroethane	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
Chloroform	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
Chloromethane	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
m,p-Xylene	ND	10		µg/Kg	1	9/19/2013 07:21 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
MTBE	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
Naphthalene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Advanced Technology Laboratories, Inc.

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G5-8
Lab Order:	N011008	**Collection Date:**	9/11/2013 2:00:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-027		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
o-Xylene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
Styrene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
Toluene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/19/2013 07:21 PM
Surr: 1,2-Dichloroethane-d4	86.1	63-139		%REC	1	9/19/2013 07:21 PM
Surr: 4-Bromofluorobenzene	86.5	75-124		%REC	1	9/19/2013 07:21 PM
Surr: Dibromofluoromethane	85.1	70-133		%REC	1	9/19/2013 07:21 PM
Surr: Toluene-d8	92.0	80-123		%REC	1	9/19/2013 07:21 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC3_130918A QC Batch: 43899 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	6.3	1.0		mg/Kg	1	9/18/2013 06:40 PM
ORO	16	1.0		mg/Kg	1	9/18/2013 06:40 PM
Surr: p-Terphenyl	84.8	59-127		%REC	1	9/18/2013 06:40 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130918A QC Batch: E13VS096 PrepDate: Analyst: **PN**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GRO	ND	1.0		mg/Kg	1	9/18/2013 12:32 PM
Surr: Chlorobenzene - d5	105	51-136		%REC	1	9/18/2013 12:32 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43890 PrepDate: 9/17/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	ND	0.099		mg/Kg	1	9/18/2013

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130921A QC Batch: 43901 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/21/2013 03:45 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *24-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G5-8
Lab Order:	N011008	**Collection Date:**	9/11/2013 2:00:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-027		

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130921A QC Batch: 43901 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Arsenic	3.6	1.0		mg/Kg	1	9/21/2013 03:45 PM
Barium	22	1.0		mg/Kg	1	9/21/2013 03:45 PM
Beryllium	ND	1.0		mg/Kg	1	9/21/2013 03:45 PM
Cadmium	ND	1.0		mg/Kg	1	9/21/2013 03:45 PM
Chromium	29	1.0		mg/Kg	1	9/21/2013 03:45 PM
Cobalt	7.1	1.0		mg/Kg	1	9/21/2013 03:45 PM
Copper	97	2.0		mg/Kg	1	9/21/2013 03:45 PM
Lead	3.5	1.0		mg/Kg	1	9/21/2013 03:45 PM
Molybdenum	ND	1.0		mg/Kg	1	9/21/2013 03:45 PM
Nickel	26	1.0		mg/Kg	1	9/21/2013 03:45 PM
Selenium	ND	1.0		mg/Kg	1	9/21/2013 03:45 PM
Silver	ND	1.0		mg/Kg	1	9/21/2013 03:45 PM
Thallium	ND	1.0		mg/Kg	1	9/21/2013 03:45 PM
Vanadium	27	1.0		mg/Kg	1	9/21/2013 03:45 PM
Zinc	21	1.0		mg/Kg	1	9/21/2013 03:45 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB-43901**	SampType: **MBLK**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date: **9/18/2013**	RunNo: **90388**
Client ID: **PBS**	Batch ID: **43901**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **9/21/2013**	SeqNo: **1648374**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.365	2.0									
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	0.476	1.0									
Cobalt	ND	1.0									
Copper	0.489	2.0									
Lead	ND	1.0									
Molybdenum	0.174	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	0.743	1.0									

Sample ID: **MB2-43901**	SampType: **MBLK**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date: **9/18/2013**	RunNo: **90388**
Client ID: **PBS**	Batch ID: **43901**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **9/21/2013**	SeqNo: **1648375**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.356	2.0									
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	0.710	1.0									
Cobalt	ND	1.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB2-43901** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90388**
Client ID: **PBS** Batch ID: **43901** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/21/2013** SeqNo: **1648375**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.338	2.0									
Lead	ND	1.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	0.680	1.0									

Sample ID: **LCS-43901** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90388**
Client ID: **LCSS** Batch ID: **43901** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/21/2013** SeqNo: **1648376**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	24.417	2.0	25.00	0	97.7	80	120				
Arsenic	23.431	1.0	25.00	0	93.7	80	120				
Barium	23.330	1.0	25.00	0	93.3	80	120				
Beryllium	22.921	1.0	25.00	0	91.7	80	120				
Cadmium	22.860	1.0	25.00	0	91.4	80	120				
Chromium	24.081	1.0	25.00	0	96.3	80	120				
Cobalt	22.974	1.0	25.00	0	91.9	80	120				
Copper	24.659	2.0	25.00	0	98.6	80	120				
Lead	23.684	1.0	25.00	0	94.7	80	120				
Molybdenum	23.895	1.0	25.00	0	95.6	80	120				
Nickel	22.860	1.0	25.00	0	91.4	80	120				
Selenium	20.805	1.0	25.00	0	83.2	80	120				
Silver	23.967	1.0	25.00	0	95.9	80	120				
Thallium	22.866	1.0	25.00	0	91.5	80	120				
Vanadium	24.332	1.0	25.00	0	97.3	80	120				
Zinc	22.462	1.0	25.00	0	89.8	80	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **N011004-001A-MS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90388**
Client ID: **ZZZZZZ** Batch ID: **43901** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/21/2013** SeqNo: **1648380**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	7.688	2.0	25.00	0	30.8	75	125				S
Arsenic	26.047	1.0	25.00	4.304	87.0	75	125				
Barium	136.693	1.0	25.00	115.3	85.7	75	125				
Beryllium	18.120	1.0	25.00	0	72.5	75	125				S
Cadmium	18.465	1.0	25.00	0	73.9	75	125				S
Cobalt	27.192	1.0	25.00	6.350	83.4	75	125				
Copper	37.176	2.0	25.00	12.74	97.7	75	125				
Lead	31.034	1.0	25.00	10.47	82.3	75	125				
Molybdenum	35.948	1.0	25.00	15.91	80.1	75	125				
Nickel	30.280	1.0	25.00	9.476	83.2	75	125				
Selenium	21.435	1.0	25.00	1.926	78.0	75	125				
Silver	17.740	1.0	25.00	0	71.0	75	125				S
Thallium	19.793	1.0	25.00	0	79.2	75	125				
Vanadium	52.489	1.0	25.00	33.78	74.9	75	125				S
Zinc	178.657	1.0	25.00	162.8	63.5	75	125				S

Sample ID: **N011004-001A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90388**
Client ID: **ZZZZZZ** Batch ID: **43901** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/21/2013** SeqNo: **1648381**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	6.904	2.0	25.11	0	27.5	75	125	7.688	10.7	20	S
Arsenic	26.139	1.0	25.11	4.304	86.9	75	125	26.05	0.353	20	
Barium	130.982	1.0	25.11	115.3	62.6	75	125	136.7	4.27	20	S
Beryllium	17.730	1.0	25.11	0	70.6	75	125	18.12	2.18	20	S
Cadmium	18.208	1.0	25.11	0	72.5	75	125	18.47	1.40	20	S
Cobalt	27.553	1.0	25.11	6.350	84.4	75	125	27.19	1.32	20	
Copper	37.957	2.0	25.11	12.74	100	75	125	37.18	2.08	20	
Lead	61.515	1.0	25.11	10.47	203	75	125	31.03	65.9	20	SR
Molybdenum	37.276	1.0	25.11	15.91	85.1	75	125	35.95	3.63	20	
Nickel	29.740	1.0	25.11	9.476	80.7	75	125	30.28	1.80	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **N011004-001A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90388**
Client ID: **ZZZZZZ** Batch ID: **43901** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/21/2013** SeqNo: **1648381**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	21.202	1.0	25.11	1.926	76.8	75	125	21.43	1.09	20	
Silver	17.848	1.0	25.11	0	71.1	75	125	17.74	0.606	20	S
Thallium	19.895	1.0	25.11	0	79.2	75	125	19.79	0.511	20	
Vanadium	51.370	1.0	25.11	33.78	70.1	75	125	52.49	2.15	20	S
Zinc	181.777	1.0	25.11	162.8	75.6	75	125	178.7	1.73	20	

Sample ID: **N011008-002A-DUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90388**
Client ID: **ZZZZZZ** Batch ID: **43901** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/21/2013** SeqNo: **1648386**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0						0	0	20	
Arsenic	0.282	1.0						0.4922	0	20	
Barium	25.946	1.0						27.46	5.67	20	
Beryllium	ND	1.0						0	0	20	
Cadmium	ND	1.0						0	0	20	
Chromium	25.414	1.0						31.82	22.4	20	R
Cobalt	17.227	1.0						19.02	9.91	20	
Copper	25.442	2.0						31.91	22.5	20	R
Lead	1.314	1.0						1.927	37.8	20	R
Molybdenum	ND	1.0						0	0	20	
Nickel	20.524	1.0						24.79	18.8	20	
Selenium	2.508	1.0						2.530	0.902	20	
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	86.757	1.0						98.16	12.3	20	
Zinc	16.111	1.0						20.62	24.6	20	R

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **N011008-019A-MS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90388**
Client ID: **ZZZZZZ** Batch ID: **43901** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/21/2013** SeqNo: **1648395**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	12.871	2.0	24.91	0	51.7	75	125				S
Arsenic	24.323	1.0	24.91	2.513	87.5	75	125				
Barium	58.745	1.0	24.91	39.80	76.0	75	125				
Beryllium	21.342	1.0	24.91	0	85.7	75	125				
Cadmium	19.132	1.0	24.91	0	76.8	75	125				
Chromium	68.782	1.0	24.91	42.17	107	75	125				
Cobalt	33.417	1.0	24.91	10.38	92.5	75	125				
Copper	50.358	2.0	24.91	23.58	107	75	125				
Lead	22.888	1.0	24.91	2.452	82.0	75	125				
Molybdenum	19.593	1.0	24.91	0	78.6	75	125				
Nickel	52.123	1.0	24.91	28.13	96.3	75	125				
Selenium	20.577	1.0	24.91	1.152	78.0	75	125				
Silver	18.771	1.0	24.91	0	75.3	75	125				
Thallium	18.944	1.0	24.91	0	76.0	75	125				
Vanadium	64.401	1.0	24.91	40.34	96.6	75	125				
Zinc	50.594	1.0	24.91	25.45	101	75	125				

Sample ID: **N011008-020A-DUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90388**
Client ID: **ZZZZZZ** Batch ID: **43901** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/21/2013** SeqNo: **1648399**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0						0	0	20	
Arsenic	1.794	1.0						1.738	3.22	20	
Barium	62.323	1.0						62.75	0.686	20	
Beryllium	ND	1.0						0	0	20	
Cadmium	ND	1.0						0	0	20	
Chromium	60.494	1.0						51.84	15.4	20	
Cobalt	14.749	1.0						15.28	3.54	20	
Copper	40.091	2.0						42.25	5.25	20	
Lead	2.035	1.0						4.974	83.9	20	R

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **N011008-020A-DUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90388**
Client ID: **ZZZZZZ** Batch ID: **43901** TestNo: **EPA 6010B EPA 3050B** Analysis Date: **9/21/2013** SeqNo: **1648399**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	ND	1.0						0	0	20	
Nickel	38.664	1.0						33.88	13.2	20	
Selenium	1.489	1.0						1.855	21.9	20	R
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	49.044	1.0						53.70	9.07	20	
Zinc	35.008	1.0						33.33	4.90	20	

Sample ID: **N011004-001A-MS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90418**
Client ID: **ZZZZZZ** Batch ID: **43901** TestNo: **EPA 6010B EPA 3050B** Analysis Date: **9/24/2013** SeqNo: **1649284**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	3794.451	5.0	25.00	3065	2920	75	125				S

Sample ID: **N011004-001A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90418**
Client ID: **ZZZZZZ** Batch ID: **43901** TestNo: **EPA 6010B EPA 3050B** Analysis Date: **9/24/2013** SeqNo: **1649285**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	3995.078	5.0	25.11	3065	3700	75	125	3794	5.15	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-43902** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90345**
Client ID: **PBS** Batch ID: **43902** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/18/2013** SeqNo: **1647233**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB2-43902** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90345**
Client ID: **PBS** Batch ID: **43902** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/18/2013** SeqNo: **1647234**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-43902** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90345**
Client ID: **LCSS** Batch ID: **43902** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/18/2013** SeqNo: **1647235**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	24.455	5.0	25.00	0	97.8	80	120				

Sample ID: **N011008-006A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90345**
Client ID: **ZZZZZZ** Batch ID: **43902** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/18/2013** SeqNo: **1647240**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	20.964	5.0	25.04	1.251	78.7	75	125				

Sample ID: **N011008-006A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90345**
Client ID: **ZZZZZZ** Batch ID: **43902** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/18/2013** SeqNo: **1647241**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	21.330	5.0	25.04	1.251	80.2	75	125	20.96	1.73	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **N011008-008A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90345**
Client ID: **ZZZZZZ** Batch ID: **43902** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/18/2013** SeqNo: **1647245**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.564	5.0						1.744	0	20	

Sample ID: **N011008-021A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90345**
Client ID: **ZZZZZZ** Batch ID: **43902** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/18/2013** SeqNo: **1647254**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	24.171	5.0	25.01	3.344	83.3	75	125				

Sample ID: **N011008-022A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90345**
Client ID: **ZZZZZZ** Batch ID: **43902** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/18/2013** SeqNo: **1647260**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.072	5.0						5.539	8.79	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 7196_S

Sample ID: **MB-43908** SampType: **MBLK** TestCode: **7196_S** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90400**
Client ID: **PBS** Batch ID: **43908** TestNo: **EPA 7196A** **EPA 3060A** Analysis Date: **9/20/2013** SeqNo: **1648940**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	ND	1.0									

Sample ID: **LCS-43908** SampType: **LCS** TestCode: **7196_S** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90400**
Client ID: **LCSS** Batch ID: **43908** TestNo: **EPA 7196A** **EPA 3060A** Analysis Date: **9/20/2013** SeqNo: **1648941**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	4.003	1.0	4.000	0	100	80	120				

Sample ID: **N011009-071A-DUP** SampType: **DUP** TestCode: **7196_S** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90401**
Client ID: **ZZZZZZ** Batch ID: **43908** TestNo: **EPA 7196A** **EPA 3060A** Analysis Date: **9/20/2013** SeqNo: **1648960**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	ND	1.0						0	0	20	

Sample ID: **N011009-081A-MS** SampType: **MS** TestCode: **7196_S** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90401**
Client ID: **ZZZZZZ** Batch ID: **43908** TestNo: **EPA 7196A** **EPA 3060A** Analysis Date: **9/20/2013** SeqNo: **1648962**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	0.732	1.0	4.000	0	18.3	80	120				S

Sample ID: **N011009-081A-MSD** SampType: **MSD** TestCode: **7196_S** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90401**
Client ID: **ZZZZZZ** Batch ID: **43908** TestNo: **EPA 7196A** **EPA 3060A** Analysis Date: **9/20/2013** SeqNo: **1648964**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	ND	1.0	4.000	0	0	80	120	0.7317	0	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **N011009-081A-MS_I** SampType: **MS** TestCode: **7196_S** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90401**
Client ID: **ZZZZZZ** Batch ID: **43908** TestNo: **EPA 7196A** **EPA 3060A** Analysis Date: **9/20/2013** SeqNo: **1648965**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	496.714	20	740.0	0	67.1	80	120				S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: **LCS-43890** SampType: **LCS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **LCSS** Batch ID: **43890** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647294**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.458	0.10	0.4153	0	110	80	120				

Sample ID: **MB1-43890** SampType: **MBLK** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **PBS** Batch ID: **43890** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647297**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.099									

Sample ID: **MB2-43890** SampType: **MBLK** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **PBS** Batch ID: **43890** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647299**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **N011008-002A-DUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **ZZZZZZ** Batch ID: **43890** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647303**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.376	0.099						0.4264	12.5	20	

Sample ID: **N011008-002A-MS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **ZZZZZZ** Batch ID: **43890** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647304**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.797	0.098	0.4099	0.4264	90.5	75	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: **N011008-002A-MSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **ZZZZZZ** Batch ID: **43890** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647305**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.848	0.099	0.4105	0.4264	103	75	125	0.7972	6.15	20	

Sample ID: **N011008-026A-DUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **ZZZZZZ** Batch ID: **43890** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647316**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.193	0.10						0.1381	33.4	20	R

Sample ID: **N011008-026A-MS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **ZZZZZZ** Batch ID: **43890** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647317**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.614	0.098	0.4099	0.1381	116	75	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DM LL

Sample ID: **LCS-43889** SampType: **LCS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90323**
Client ID: **LCSS** Batch ID: **43889** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/17/2013** SeqNo: **1646582**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	57.686	1.0	83.30	0	69.3	52	126				
Surr: p-Terphenyl	5.799		6.670		86.9	59	127				

Sample ID: **MB1-43889** SampType: **MBLK** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90323**
Client ID: **PBS** Batch ID: **43889** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/17/2013** SeqNo: **1646583**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	1.0									
ORO	ND	1.0									
Surr: p-Terphenyl	5.854		6.670		87.8	59	127				

Sample ID: **N011008-006A-DUP** SampType: **DUP** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90323**
Client ID: **ZZZZZZ** Batch ID: **43889** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/17/2013** SeqNo: **1646590**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	4.537	1.0						6.512	35.7	20	R
ORO	15.065	1.0						22.03	37.6	20	R
Surr: p-Terphenyl	5.887		6.672		88.2	59	127		0		

Sample ID: **N011008-003A-MS** SampType: **MS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90323**
Client ID: **ZZZZZZ** Batch ID: **43889** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/17/2013** SeqNo: **1646595**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	109.278	1.0	83.41	51.87	68.8	13	129				
Surr: p-Terphenyl	5.015		6.679		75.1	59	127				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DM LL

Sample ID: **N011008-003A-MSD** SampType: **MSD** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90323**
Client ID: **ZZZZZZ** Batch ID: **43889** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/17/2013** SeqNo: **1646596**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	84.077	1.0	83.19	51.87	38.7	13	129	109.3	26.1	20	R
Surr: p-Terphenyl	4.816		6.661		72.3	59	127		0		

Sample ID: **MB2-43889** SampType: **MBLK** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90344**
Client ID: **PBS** Batch ID: **43889** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/17/2013** SeqNo: **1647206**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	1.0									
ORO	ND	1.0									
Surr: p-Terphenyl	5.533		6.670		82.9	59	127				

Sample ID: **N011008-012A-DUP** SampType: **DUP** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90344**
Client ID: **ZZZZZZ** Batch ID: **43889** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/17/2013** SeqNo: **1647208**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	5.168	1.0						5.847	12.3	20	
ORO	21.257	1.0						24.17	12.8	20	
Surr: p-Terphenyl	4.059		6.688		60.7	59	127		0		

Sample ID: **N011008-013A-MS** SampType: **MS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90344**
Client ID: **ZZZZZZ** Batch ID: **43889** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/17/2013** SeqNo: **1647218**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	51.342	1.0	83.08	13.75	45.3	13	129				
Surr: p-Terphenyl	5.493		6.652		82.6	59	127				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DM LL

Sample ID: **LCS-43899** SampType: **LCS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90363**
Client ID: **LCSS** Batch ID: **43899** TestNo: **EPA 8015B** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647551**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	57.888	1.0	83.30	0	69.5	52	126				
Surr: p-Terphenyl	5.922		6.670		88.8	59	127				

Sample ID: **MB1-43899** SampType: **MBLK** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90363**
Client ID: **PBS** Batch ID: **43899** TestNo: **EPA 8015B** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647552**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	1.0									
ORO	ND	1.0									
Surr: p-Terphenyl	6.525		6.670		97.8	59	127				

Sample ID: **N011008-024A-DUP** SampType: **DUP** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90363**
Client ID: **ZZZZZZ** Batch ID: **43899** TestNo: **EPA 8015B** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647557**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	50.150	1.0						31.45	45.8	20	R
ORO	109.747	1.0						82.06	28.9	20	R
Surr: p-Terphenyl	6.459		6.679		96.7	59	127		0		

Sample ID: **N011008-025A-MS** SampType: **MS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90363**
Client ID: **ZZZZZZ** Batch ID: **43899** TestNo: **EPA 8015B** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647564**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	54.529	1.0	83.49	13.37	49.3	13	129				
Surr: p-Terphenyl	6.015		6.686		90.0	59	127				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **N011008-025A-MSD** SampType: **MSD** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90363**
Client ID: **ZZZZZZ** Batch ID: **43899** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647565**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	45.626	1.0	83.13	13.37	38.8	13	129	54.53	17.8	20	
Surr: p-Terphenyl	4.894		6.657		73.5	59	127		0		

Sample ID: **MB2-43899** SampType: **MBLK** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90386**
Client ID: **PBS** Batch ID: **43899** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648155**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	1.0									
ORO	ND	1.0									
Surr: p-Terphenyl	6.572		6.670		98.5	59	127				

Sample ID: **N011009-014A-DUP** SampType: **DUP** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90386**
Client ID: **ZZZZZZ** Batch ID: **43899** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648161**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	71.061	5.0						52.79	29.5	20	R
ORO	256.483	5.0						189.4	30.1	20	R
Surr: p-Terphenyl	5.739		6.688		85.8	59	127		0		

Sample ID: **N011009-009A-MS** SampType: **MS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90386**
Client ID: **ZZZZZZ** Batch ID: **43899** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648167**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	80.690	5.0	83.52	51.86	34.5	13	129				
Surr: p-Terphenyl	5.828		6.688		87.2	59	127				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_S

Sample ID: **E130917LCS** SampType: **LCS** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90309**
Client ID: **LCSS** Batch ID: **E13VS095** TestNo: **EPA 8015B** Analysis Date: **9/17/2013** SeqNo: **1646602**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.902	1.0	5.000	0	118	77	122				
Surr: Chlorobenzene - d5	109.450		100.0		109	51	136				

Sample ID: **E130917MB1** SampType: **MBLK** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90309**
Client ID: **PBS** Batch ID: **E13VS095** TestNo: **EPA 8015B** Analysis Date: **9/17/2013** SeqNo: **1646603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.073	1.0									
Surr: Chlorobenzene - d5	109.542		100.0		110	51	136				

Sample ID: **N011008-002AMS** SampType: **MS** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90309**
Client ID: **ZZZZZZ** Batch ID: **E13VS095** TestNo: **EPA 8015B** Analysis Date: **9/17/2013** SeqNo: **1646611**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.580	1.0	5.000	0.06500	110	41	132				
Surr: Chlorobenzene - d5	107.297		100.0		107	51	136				

Sample ID: **N011008-002AMSD** SampType: **MSD** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90309**
Client ID: **ZZZZZZ** Batch ID: **E13VS095** TestNo: **EPA 8015B** Analysis Date: **9/17/2013** SeqNo: **1646613**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.342	1.0	5.000	0.06500	106	41	132	5.580	4.36	20	
Surr: Chlorobenzene - d5	107.265		100.0		107	51	136		0		

Sample ID: **N011008-003ADUP** SampType: **DUP** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90309**
Client ID: **ZZZZZZ** Batch ID: **E13VS095** TestNo: **EPA 8015B** Analysis Date: **9/17/2013** SeqNo: **1646614**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.073	1.0						0.05800	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_S

Sample ID: **N011008-003ADUP** SampType: **DUP** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90309**
Client ID: **ZZZZZZ** Batch ID: **E13VS095** TestNo: **EPA 8015B** Analysis Date: **9/17/2013** SeqNo: **1646614**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Chlorobenzene - d5	77.193		100.0		77.2	51	136		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_S

Sample ID: **E130918LCS** SampType: **LCS** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90340**
Client ID: **LCSS** Batch ID: **E13VS096** TestNo: **EPA 8015B** Analysis Date: **9/18/2013** SeqNo: **1647064**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.652	1.0	5.000	0	113	77	122				
Surr: Chlorobenzene - d5	111.588		100.0		112	51	136				

Sample ID: **E130918MB1** SampType: **MBLK** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90340**
Client ID: **PBS** Batch ID: **E13VS096** TestNo: **EPA 8015B** Analysis Date: **9/18/2013** SeqNo: **1647065**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.068	1.0									
Surr: Chlorobenzene - d5	100.835		100.0		101	51	136				

Sample ID: **N011008-020ADUP** SampType: **DUP** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90340**
Client ID: **ZZZZZZ** Batch ID: **E13VS096** TestNo: **EPA 8015B** Analysis Date: **9/18/2013** SeqNo: **1647067**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.057	1.0						0.05700	0	20	
Surr: Chlorobenzene - d5	105.580		100.0		106	51	136		0		

Sample ID: **N011009-016AMS** SampType: **MS** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90340**
Client ID: **ZZZZZZ** Batch ID: **E13VS096** TestNo: **EPA 8015B** Analysis Date: **9/18/2013** SeqNo: **1647073**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.440	1.0	5.000	0.04900	108	41	132				
Surr: Chlorobenzene - d5	101.718		100.0		102	51	136				

Sample ID: **N011009-016AMSD** SampType: **MSD** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90340**
Client ID: **ZZZZZZ** Batch ID: **E13VS096** TestNo: **EPA 8015B** Analysis Date: **9/18/2013** SeqNo: **1647074**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.677	1.0	5.000	0.04900	113	41	132	5.440	4.26	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_S

Sample ID: **N011009-016AMSD** SampType: **MSD** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90340**
Client ID: **ZZZZZZ** Batch ID: **E13VS096** TestNo: **EPA 8015B** Analysis Date: **9/18/2013** SeqNo: **1647074**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Chlorobenzene - d5	103.733		100.0		104	51	136		0		

Sample ID: **E130918MB2** SampType: **MBLK** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90340**
Client ID: **PBS** Batch ID: **E13VS096** TestNo: **EPA 8015B** Analysis Date: **9/18/2013** SeqNo: **1647269**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.073	1.0									
Surr: Chlorobenzene - d5	99.174		100.0		99.2	51	136				

Sample ID: **N011009-002AMS** SampType: **MS** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90340**
Client ID: **ZZZZZZ** Batch ID: **E13VS096** TestNo: **EPA 8015B** Analysis Date: **9/18/2013** SeqNo: **1647270**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.770	1.0	5.000	0.07000	94.0	41	132				
Surr: Chlorobenzene - d5	104.914		100.0		105	51	136				

Sample ID: **N011009-015ADUP** SampType: **DUP** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90340**
Client ID: **ZZZZZZ** Batch ID: **E13VS096** TestNo: **EPA 8015B** Analysis Date: **9/18/2013** SeqNo: **1647273**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.070	1.0						0.07200	0	20	
Surr: Chlorobenzene - d5	94.736		100.0		94.7	51	136		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081SOIL

Sample ID: **N011008-009A-DUP** SampType: **DUP** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **ZZZZZZ** Batch ID: **43887** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1648762**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	0.832	2.0						0.4177	0	30	
4,4´-DDE	3.682	2.0						4.054	9.62	30	
4,4´-DDT	8.730	2.0						5.921	38.3	30	R
Aldrin	ND	1.0						0	0	30	
alpha-BHC	ND	1.0						0	0	30	
alpha-Chlordane	0.938	1.0						0.7618	0	30	
beta-BHC	ND	1.0						0	0	30	
Chlordane	ND	8.5						0	0	30	
delta-BHC	ND	1.0						0	0	30	
Dieldrin	ND	2.0						0.3170	0	30	
Endosulfan I	ND	1.0						0	0	30	
Endosulfan II	0.722	2.0						0	0	30	
Endosulfan sulfate	ND	2.0						0	0	30	
Endrin	ND	2.0						0	0	30	
Endrin aldehyde	ND	2.0						0	0	30	
Endrin ketone	ND	2.0						0	0	30	
gamma-BHC	ND	1.0						0	0	30	
gamma-Chlordane	0.914	1.0						0.6903	0	30	
Heptachlor	ND	1.0						0	0	30	
Heptachlor epoxide	ND	1.0						0	0	30	
Methoxychlor	ND	8.5						0	0	30	
Toxaphene	ND	85						0	0	30	
Surr: Tetrachloro-m-xylene	8.805		16.68		52.8	28	161		0	0	
Surr: Decachlorobiphenyl	9.992		16.68		59.9	28	120		0	0	

Sample ID: **MB2-43887** SampType: **MBLK** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **PBS** Batch ID: **43887** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1648768**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	ND	2.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081SOIL

Sample ID: **MB2-43887** SampType: **MBLK** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **PBS** Batch ID: **43887** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1648768**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDE	ND	2.0									
4,4´-DDT	ND	2.0									
Aldrin	ND	1.0									
alpha-BHC	ND	1.0									
alpha-Chlordane	ND	1.0									
beta-BHC	ND	1.0									
Chlordane	ND	8.5									
delta-BHC	ND	1.0									
Dieldrin	ND	2.0									
Endosulfan I	ND	1.0									
Endosulfan II	ND	2.0									
Endosulfan sulfate	ND	2.0									
Endrin	ND	2.0									
Endrin aldehyde	ND	2.0									
Endrin ketone	ND	2.0									
gamma-BHC	ND	1.0									
gamma-Chlordane	ND	1.0									
Heptachlor	ND	1.0									
Heptachlor epoxide	ND	1.0									
Methoxychlor	ND	8.5									
Toxaphene	ND	85									
Surr: Tetrachloro-m-xylene	8.179		16.67		49.1	28	161				
Surr: Decachlorobiphenyl	12.959		16.67		77.7	28	120				

Sample ID: **N011009-006A-DUP** SampType: **DUP** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **ZZZZZZ** Batch ID: **43887** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1648774**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	0.219	2.0						0.4890	0	30	
4,4´-DDE	0.327	2.0						0.4689	0	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081SOIL

Sample ID: **N011009-006A-DUP**	SampType: **DUP**	TestCode: **8081SOIL**	Units: **µg/Kg**	Prep Date: **9/17/2013**	RunNo: **90395**
Client ID: **ZZZZZZ**	Batch ID: **43887**	TestNo: **EPA 8081A** **EPA 3550B**		Analysis Date: **9/19/2013**	SeqNo: **1648774**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDT	1.080	2.0						1.241	0	30	
Aldrin	ND	1.0						0	0	30	
alpha-BHC	ND	1.0						0	0	30	
alpha-Chlordane	0.286	1.0						0.4360	0	30	
beta-BHC	ND	1.0						0	0	30	
Chlordane	ND	8.5						0	0	30	
delta-BHC	ND	1.0						0	0	30	
Dieldrin	ND	2.0						0	0	30	
Endosulfan I	ND	1.0						0	0	30	
Endosulfan II	ND	2.0						0	0	30	
Endosulfan sulfate	ND	2.0						0	0	30	
Endrin	ND	2.0						0	0	30	
Endrin aldehyde	ND	2.0						0	0	30	
Endrin ketone	ND	2.0						0	0	30	
gamma-BHC	ND	1.0						0	0	30	
gamma-Chlordane	1.323	1.0						0.4346	101	30	R
Heptachlor	ND	1.0						0	0	30	
Heptachlor epoxide	ND	1.0						0	0	30	
Methoxychlor	ND	8.5						0	0	30	
Toxaphene	ND	85						0	0	30	
Surr: Tetrachloro-m-xylene	7.031		16.66		42.2	28	161		0	0	
Surr: Decachlorobiphenyl	6.914		16.66		41.5	28	120		0	0	

Sample ID: **LCS-43887_OCP**	SampType: **LCS**	TestCode: **8081SOIL**	Units: **µg/Kg**	Prep Date: **9/17/2013**	RunNo: **90395**
Client ID: **LCSS**	Batch ID: **43887**	TestNo: **EPA 8081A** **EPA 3550B**		Analysis Date: **9/19/2013**	SeqNo: **1648780**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	17.716	2.0	16.67	0	106	57	143				
4,4´-DDE	17.687	2.0	16.67	0	106	54	137				
4,4´-DDT	18.187	2.0	16.67	0	109	57	148				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081SOIL

Sample ID: **LCS-43887_OCP** SampType: **LCS** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **LCSS** Batch ID: **43887** TestNo: **EPA 8081A EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1648780**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aldrin	14.516	1.0	16.67	0	87.1	44	115				
alpha-BHC	14.827	1.0	16.67	0	88.9	40	130				
alpha-Chlordane	16.516	1.0	16.67	0	99.1	49	142				
beta-BHC	15.215	1.0	16.67	0	91.3	44	127				
delta-BHC	10.781	1.0	16.67	0	64.7	50	144				
Dieldrin	17.078	2.0	16.67	0	102	59	135				
Endosulfan I	15.645	1.0	16.67	0	93.8	53	121				
Endosulfan II	17.348	2.0	16.67	0	104	60	137				
Endosulfan sulfate	15.186	2.0	16.67	0	91.1	72	145				
Endrin	22.978	2.0	16.67	0	138	53	148				
Endrin aldehyde	14.282	2.0	16.67	0	85.7	53	131				
Endrin ketone	14.852	2.0	16.67	0	89.1	55	139				
gamma-BHC	14.885	1.0	16.67	0	89.3	37	134				
gamma-Chlordane	16.956	1.0	16.67	0	102	51	131				
Heptachlor	18.068	1.0	16.67	0	108	36	138				
Heptachlor epoxide	16.311	1.0	16.67	0	97.8	50	127				
Methoxychlor	18.987	8.5	16.67	0	114	56	144				
Surr: Tetrachloro-m-xylene	10.383		16.67		62.3	28	161				
Surr: Decachlorobiphenyl	12.678		16.67		76.1	28	120				

Sample ID: **MB1-43887** SampType: **MBLK** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **PBS** Batch ID: **43887** TestNo: **EPA 8081A EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1648781**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	ND	2.0									
4,4´-DDE	ND	2.0									
4,4´-DDT	ND	2.0									
Aldrin	ND	1.0									
alpha-BHC	ND	1.0									
alpha-Chlordane	ND	1.0									

Sample ID: **MB1-43887** SampType: **MBLK** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **PBS** Batch ID: **43887** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1648781**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
beta-BHC	ND	1.0									
Chlordane	ND	8.5									
delta-BHC	ND	1.0									
Dieldrin	ND	2.0									
Endosulfan I	ND	1.0									
Endosulfan II	ND	2.0									
Endosulfan sulfate	ND	2.0									
Endrin	ND	2.0									
Endrin aldehyde	ND	2.0									
Endrin ketone	ND	2.0									
gamma-BHC	ND	1.0									
gamma-Chlordane	ND	1.0									
Heptachlor	ND	1.0									
Heptachlor epoxide	ND	1.0									
Methoxychlor	ND	8.5									
Toxaphene	ND	85									
Surr: Tetrachloro-m-xylene	7.601		16.67		45.6	28	161				
Surr: Decachlorobiphenyl	12.104		16.67		72.6	28	120				

Sample ID: **N011008-001A-MS** SampType: **MS** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **ZZZZZZ** Batch ID: **43887** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648783**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	19.736	2.0	16.69	0	118	31	162				
4,4´-DDE	15.232	2.0	16.69	0	91.3	33	165				
4,4´-DDT	5.584	2.0	16.69	0	33.5	17	180				
Aldrin	13.358	1.0	16.69	0	80.0	36	141				
alpha-BHC	12.584	1.0	16.69	0	75.4	23	149				
alpha-Chlordane	13.776	1.0	16.69	0	82.5	24	175				
beta-BHC	15.255	1.0	16.69	0	91.4	38	145				

Sample ID: **N011008-001A-MS** SampType: **MS** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **ZZZZZZ** Batch ID: **43887** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648783**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
delta-BHC	9.761	1.0	16.69	0	58.5	36	166				
Dieldrin	14.546	2.0	16.69	0	87.1	24	172				
Endosulfan I	13.515	1.0	16.69	0	81.0	36	138				
Endosulfan II	13.753	2.0	16.69	0	82.4	27	166				
Endosulfan sulfate	11.593	2.0	16.69	0	69.5	49	157				
Endrin	18.083	2.0	16.69	0	108	25	180				
Endrin aldehyde	8.886	2.0	16.69	0	53.2	29	146				
Endrin ketone	9.792	2.0	16.69	0	58.7	30	155				
gamma-BHC	12.558	1.0	16.69	0	75.2	32	143				
gamma-Chlordane	14.528	1.0	16.69	0	87.0	40	172				
Heptachlor	14.648	1.0	16.69	0	87.8	33	145				
Heptachlor epoxide	14.274	1.0	16.69	0	85.5	40	153				
Methoxychlor	48.845	8.5	16.69	0	293	23	164				S
Surr: Tetrachloro-m-xylene	8.987		16.69		53.8	28	161				
Surr: Decachlorobiphenyl	10.512		16.69		63.0	28	120				

Sample ID: **N011008-001A-MSD** SampType: **MSD** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **ZZZZZZ** Batch ID: **43887** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648784**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	20.570	2.0	16.67	0	123	31	162	19.74	4.14	30	
4,4´-DDE	15.579	2.0	16.67	0	93.5	33	165	15.23	2.25	30	
4,4´-DDT	5.929	2.0	16.67	0	35.6	17	180	5.584	6.01	30	
Aldrin	13.381	1.0	16.67	0	80.3	36	141	13.36	0.171	30	
alpha-BHC	12.314	1.0	16.67	0	73.9	23	149	12.58	2.16	30	
alpha-Chlordane	13.934	1.0	16.67	0	83.6	24	175	13.78	1.14	30	
beta-BHC	16.175	1.0	16.67	0	97.0	38	145	15.26	5.85	30	
delta-BHC	9.884	1.0	16.67	0	59.3	36	166	9.761	1.25	30	
Dieldrin	14.842	2.0	16.67	0	89.0	24	172	14.55	2.01	30	
Endosulfan I	13.605	1.0	16.67	0	81.6	36	138	13.52	0.657	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **N011008-001A-MSD** SampType: **MSD** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **ZZZZZZ** Batch ID: **43887** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648784**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Endosulfan II	14.622	2.0	16.67	0	87.7	27	166	13.75	6.12	30	
Endosulfan sulfate	12.139	2.0	16.67	0	72.8	49	157	11.59	4.60	30	
Endrin	18.852	2.0	16.67	0	113	25	180	18.08	4.16	30	
Endrin aldehyde	9.635	2.0	16.67	0	57.8	29	146	8.886	8.09	30	
Endrin ketone	10.165	2.0	16.67	0	61.0	30	155	9.792	3.73	30	
gamma-BHC	12.354	1.0	16.67	0	74.1	32	143	12.56	1.64	30	
gamma-Chlordane	14.918	1.0	16.67	0	89.5	40	172	14.53	2.65	30	
Heptachlor	14.334	1.0	16.67	0	86.0	33	145	14.65	2.17	30	
Heptachlor epoxide	14.429	1.0	16.67	0	86.6	40	153	14.27	1.08	30	
Methoxychlor	7.157	8.5	16.67	0	42.9	23	164	48.84	0	30	
Surr: Tetrachloro-m-xylene	8.542		16.67		51.2	28	161		0		
Surr: Decachlorobiphenyl	9.847		16.67		59.1	28	120		0		

Sample ID: **N011009-006A-MS** SampType: **MS** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **ZZZZZZ** Batch ID: **43887** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648785**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	23.792	2.0	16.62	0.4890	140	31	162				
4,4´-DDE	14.503	2.0	16.62	0.4689	84.4	33	165				
4,4´-DDT	11.180	2.0	16.62	1.241	59.8	17	180				
Aldrin	12.303	1.0	16.62	0	74.0	36	141				
alpha-BHC	11.774	1.0	16.62	0	70.8	23	149				
alpha-Chlordane	26.155	1.0	16.62	0.4360	155	24	175				
beta-BHC	19.322	1.0	16.62	0	116	38	145				
delta-BHC	7.757	1.0	16.62	0	46.7	36	166				
Dieldrin	16.984	2.0	16.62	0	102	24	172				
Endosulfan I	10.813	1.0	16.62	0	65.1	36	138				
Endosulfan II	12.587	2.0	16.62	0	75.7	27	166				
Endosulfan sulfate	12.596	2.0	16.62	0	75.8	49	157				
Endrin	16.020	2.0	16.62	0	96.4	25	180				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081SOIL

Sample ID: **N011009-006A-MS** SampType: **MS** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **ZZZZZZ** Batch ID: **43887** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648785**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Endrin aldehyde	7.797	2.0	16.62	0	46.9	29	146				
Endrin ketone	8.089	2.0	16.62	0	48.7	30	155				
gamma-BHC	11.941	1.0	16.62	0	71.8	32	143				
gamma-Chlordane	13.966	1.0	16.62	0.4346	81.4	40	172				
Heptachlor	12.222	1.0	16.62	0	73.5	33	145				
Heptachlor epoxide	12.325	1.0	16.62	0	74.2	40	153				
Methoxychlor	7.472	8.5	16.62	0	45.0	23	164				
Surr: Tetrachloro-m-xylene	10.760		16.62		64.7	28	161				
Surr: Decachlorobiphenyl	10.688		16.62		64.3	28	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082_S

Sample ID: **LCS-43887_PCB** SampType: **LCS** TestCode: **8082_S** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90330**
Client ID: **LCSS** Batch ID: **43887** TestNo: **EPA 8082** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1646715**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	137.466	16	166.7	0	82.5	56	121				
Aroclor 1260	147.104	16	166.7	0	88.3	62	121				
Surr: Decachlorobiphenyl	14.700		16.67		88.2	40	146				
Surr: Tetrachloro-m-xylene	9.273		16.67		55.6	32	109				

Sample ID: **MB1-43887** SampType: **MBLK** TestCode: **8082_S** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90330**
Client ID: **PBS** Batch ID: **43887** TestNo: **EPA 8082** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1646716**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	16									
Aroclor 1221	ND	33									
Aroclor 1232	ND	16									
Aroclor 1242	ND	16									
Aroclor 1248	ND	16									
Aroclor 1254	ND	16									
Aroclor 1260	ND	16									
Surr: Decachlorobiphenyl	14.824		16.67		88.9	40	146				
Surr: Tetrachloro-m-xylene	7.838		16.67		47.0	32	109				

Sample ID: **MB2-43887** SampType: **MBLK** TestCode: **8082_S** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90330**
Client ID: **PBS** Batch ID: **43887** TestNo: **EPA 8082** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1646717**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	16									
Aroclor 1221	ND	33									
Aroclor 1232	ND	16									
Aroclor 1242	ND	16									
Aroclor 1248	ND	16									
Aroclor 1254	ND	16									
Aroclor 1260	ND	16									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082_S

Sample ID: **MB2-43887**	SampType: **MBLK**	TestCode: **8082_S**	Units: **µg/Kg**	Prep Date: **9/17/2013**	RunNo: **90330**
Client ID: **PBS**	Batch ID: **43887**	TestNo: **EPA 8082**	**EPA 3550B**	Analysis Date: **9/18/2013**	SeqNo: **1646717**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	13.544		16.67		81.2	40	146				
Surr: Tetrachloro-m-xylene	7.665		16.67		46.0	32	109				

Sample ID: **N011008-009A-DUP**	SampType: **DUP**	TestCode: **8082_S**	Units: **µg/Kg**	Prep Date: **9/17/2013**	RunNo: **90330**
Client ID: **ZZZZZZ**	Batch ID: **43887**	TestNo: **EPA 8082**	**EPA 3550B**	Analysis Date: **9/18/2013**	SeqNo: **1647184**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	17						0	0	20	
Aroclor 1221	ND	33						0	0	20	
Aroclor 1232	ND	17						0	0	20	
Aroclor 1242	ND	17						0	0	20	
Aroclor 1248	ND	17						0	0	20	
Aroclor 1254	ND	17						0	0	20	
Aroclor 1260	ND	17						0	0	20	
Surr: Decachlorobiphenyl	12.160		16.68		72.9	40	146		0		
Surr: Tetrachloro-m-xylene	11.834		16.68		71.0	32	109		0		

Sample ID: **N011009-006A-DUP**	SampType: **DUP**	TestCode: **8082_S**	Units: **µg/Kg**	Prep Date: **9/17/2013**	RunNo: **90330**
Client ID: **ZZZZZZ**	Batch ID: **43887**	TestNo: **EPA 8082**	**EPA 3550B**	Analysis Date: **9/18/2013**	SeqNo: **1647193**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	16						0	0	20	
Aroclor 1221	ND	33						0	0	20	
Aroclor 1232	ND	16						0	0	20	
Aroclor 1242	ND	16						0	0	20	
Aroclor 1248	ND	16						0	0	20	
Aroclor 1254	ND	16						0	0	20	
Aroclor 1260	ND	16						0	0	20	
Surr: Decachlorobiphenyl	7.771		16.66		46.6	40	146		0		
Surr: Tetrachloro-m-xylene	7.289		16.66		43.8	32	109		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082_S

Sample ID: **N011008-001A-MS** SampType: **MS** TestCode: **8082_S** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90330**
Client ID: **ZZZZZZ** Batch ID: **43887** TestNo: **EPA 8082** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647202**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	178.525	17	166.9	0	107	43	142				
Aroclor 1260	145.982	17	166.9	0	87.5	34	146				
Surr: Decachlorobiphenyl	15.144		16.69		90.7	40	146				
Surr: Tetrachloro-m-xylene	11.894		16.69		71.3	32	109				

Sample ID: **N011008-001A-MSD** SampType: **MSD** TestCode: **8082_S** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90330**
Client ID: **ZZZZZZ** Batch ID: **43887** TestNo: **EPA 8082** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647203**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	151.696	16	166.7	0	91.0	43	142	178.5	16.2	20	
Aroclor 1260	131.449	16	166.7	0	78.9	34	146	146.0	10.5	20	
Surr: Decachlorobiphenyl	10.302		16.67		61.8	40	146		0		
Surr: Tetrachloro-m-xylene	7.742		16.67		46.4	32	109		0		

Sample ID: **N011009-006A-MS** SampType: **MS** TestCode: **8082_S** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90330**
Client ID: **ZZZZZZ** Batch ID: **43887** TestNo: **EPA 8082** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647205**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	124.342	16	166.2	0	74.8	43	142				
Aroclor 1260	92.394	16	166.2	0	55.6	34	146				
Surr: Decachlorobiphenyl	8.766		16.62		52.7	40	146				
Surr: Tetrachloro-m-xylene	9.060		16.62		54.5	32	109				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **Q130919LCS** SampType: **LCS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **LCSS** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647897**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	37.390	5.0	40.00	0	93.5	80	123				
1,1,1-Trichloroethane	36.470	5.0	40.00	0	91.2	71	127				
1,1,2,2-Tetrachloroethane	36.360	5.0	40.00	0	90.9	80	120				
1,1,2-Trichloroethane	38.530	5.0	40.00	0	96.3	80	120				
1,1-Dichloroethane	37.780	5.0	40.00	0	94.4	80	120				
1,1-Dichloroethene	36.420	5.0	40.00	0	91.1	80	121				
1,1-Dichloropropene	36.580	5.0	40.00	0	91.4	74	131				
1,2,3-Trichlorobenzene	40.970	5.0	40.00	0	102	64	137				
1,2,3-Trichloropropane	39.190	5.0	40.00	0	98.0	75	120				
1,2,4-Trichlorobenzene	41.550	5.0	40.00	0	104	75	128				
1,2,4-Trimethylbenzene	38.140	5.0	40.00	0	95.4	73	128				
1,2-Dibromo-3-chloropropane	37.010	10	40.00	0	92.5	53	143				
1,2-Dibromoethane	37.960	5.0	40.00	0	94.9	74	124				
1,2-Dichlorobenzene	38.400	5.0	40.00	0	96.0	80	120				
1,2-Dichloroethane	39.380	5.0	40.00	0	98.4	70	139				
1,2-Dichloropropane	38.240	5.0	40.00	0	95.6	80	120				
1,3,5-Trimethylbenzene	36.750	5.0	40.00	0	91.9	76	126				
1,3-Dichlorobenzene	39.070	5.0	40.00	0	97.7	80	120				
1,3-Dichloropropane	37.710	5.0	40.00	0	94.3	80	120				
1,4-Dichlorobenzene	39.980	5.0	40.00	0	100	80	120				
2,2-Dichloropropane	38.430	5.0	40.00	0	96.1	72	135				
2-Chlorotoluene	36.850	5.0	40.00	0	92.1	79	120				
4-Chlorotoluene	37.930	5.0	40.00	0	94.8	80	120				
4-Isopropyltoluene	37.220	5.0	40.00	0	93.0	76	126				
Benzene	37.820	5.0	40.00	0	94.6	80	120				
Bromobenzene	38.050	5.0	40.00	0	95.1	80	120				
Bromodichloromethane	38.270	5.0	40.00	0	95.7	79	131				
Bromoform	39.570	5.0	40.00	0	98.9	80	120				
Bromomethane	38.780	5.0	40.00	0	97.0	43	179				
Carbon tetrachloride	36.280	5.0	40.00	0	90.7	80	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **Q130919LCS** SampType: **LCS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **LCSS** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647897**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	38.310	5.0	40.00	0	95.8	80	120				
Chloroethane	37.110	5.0	40.00	0	92.8	32	181				
Chloroform	36.160	5.0	40.00	0	90.4	77	129				
Chloromethane	43.620	5.0	40.00	0	109	80	120				
cis-1,2-Dichloroethene	36.500	5.0	40.00	0	91.2	80	120				
cis-1,3-Dichloropropene	40.330	5.0	40.00	0	101	80	120				
Dibromochloromethane	37.470	5.0	40.00	0	93.7	80	122				
Dibromomethane	38.640	5.0	40.00	0	96.6	80	120				
Dichlorodifluoromethane	42.680	5.0	40.00	0	107	64	135				
Ethylbenzene	37.230	5.0	40.00	0	93.1	80	120				
Hexachlorobutadiene	36.810	5.0	40.00	0	92.0	69	132				
Isopropylbenzene	36.010	5.0	40.00	0	90.0	79	121				
m,p-Xylene	74.540	10	80.00	0	93.2	80	121				
Methylene chloride	38.700	5.0	40.00	0	96.8	74	123				
MTBE	36.930	5.0	40.00	0	92.3	56	140				
n-Butylbenzene	38.200	5.0	40.00	0	95.5	72	131				
n-Propylbenzene	36.890	5.0	40.00	0	92.2	79	122				
Naphthalene	38.370	5.0	40.00	0	95.9	69	126				
o-Xylene	37.570	5.0	40.00	0	93.9	80	120				
sec-Butylbenzene	36.000	5.0	40.00	0	90.0	74	127				
Styrene	37.420	5.0	40.00	0	93.6	80	120				
tert-Butylbenzene	35.870	5.0	40.00	0	89.7	75	125				
Tetrachloroethene	37.230	5.0	40.00	0	93.1	80	120				
Toluene	37.320	5.0	40.00	0	93.3	80	120				
trans-1,2-Dichloroethene	36.680	5.0	40.00	0	91.7	80	125				
Trichloroethene	37.870	5.0	40.00	0	94.7	80	120				
Trichlorofluoromethane	36.380	5.0	40.00	0	91.0	67	152				
Vinyl chloride	36.460	5.0	40.00	0	91.2	69	135				
Surr: 1,2-Dichloroethane-d4	46.230		50.00		92.5	63	139				
Surr: 4-Bromofluorobenzene	46.560		50.00		93.1	75	124				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **Q130919LCS** SampType: **LCS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **LCSS** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647897**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	46.890		50.00		93.8	70	133				
Surr: Toluene-d8	47.340		50.00		94.7	80	123				

Sample ID: **N011008-011AMSD** SampType: **MSD** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647899**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	38.580	5.0	40.00	0	96.5	58	149	37.06	4.02	20	
1,1,1-Trichloroethane	38.240	5.0	40.00	0	95.6	67	126	36.24	5.37	20	
1,1,2,2-Tetrachloroethane	37.130	5.0	40.00	0	92.8	18	193	34.91	6.16	20	
1,1,2-Trichloroethane	40.350	5.0	40.00	0	101	70	136	38.26	5.32	20	
1,1-Dichloroethane	39.980	5.0	40.00	0	100	65	134	37.64	6.03	20	
1,1-Dichloroethene	37.430	5.0	40.00	0	93.6	61	135	35.71	4.70	20	
1,1-Dichloropropene	35.880	5.0	40.00	0	89.7	68	125	34.44	4.10	20	
1,2,3-Trichlorobenzene	41.340	5.0	40.00	0	103	40	134	38.53	7.04	20	
1,2,3-Trichloropropane	36.250	5.0	40.00	0	90.6	38	167	34.20	5.82	20	
1,2,4-Trichlorobenzene	41.840	5.0	40.00	0	105	40	132	40.60	3.01	20	
1,2,4-Trimethylbenzene	37.300	5.0	40.00	0	93.3	58	123	36.13	3.19	20	
1,2-Dibromo-3-chloropropane	37.110	10	40.00	0	92.8	30	181	35.95	3.18	20	
1,2-Dibromoethane	40.750	5.0	40.00	0	102	67	139	37.89	7.27	20	
1,2-Dichlorobenzene	39.170	5.0	40.00	0	97.9	65	122	36.97	5.78	20	
1,2-Dichloroethane	40.480	5.0	40.00	0	101	63	149	39.11	3.44	20	
1,2-Dichloropropane	39.990	5.0	40.00	0	100	69	127	37.06	7.61	20	
1,3,5-Trimethylbenzene	36.010	5.0	40.00	0	90.0	58	122	34.64	3.88	20	
1,3-Dichlorobenzene	38.760	5.0	40.00	0	96.9	64	120	37.55	3.17	20	
1,3-Dichloropropane	39.550	5.0	40.00	0	98.9	64	141	37.77	4.60	20	
1,4-Dichlorobenzene	39.370	5.0	40.00	0	98.4	62	122	38.53	2.16	20	
2,2-Dichloropropane	40.440	5.0	40.00	0	101	62	138	39.20	3.11	20	
2-Chlorotoluene	36.300	5.0	40.00	0	90.8	59	124	34.95	3.79	20	
4-Chlorotoluene	37.130	5.0	40.00	0	92.8	60	123	36.24	2.43	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011008-011AMSD** SampType: **MSD** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647899**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Isopropyltoluene	36.100	5.0	40.00	0	90.3	50	124	34.64	4.13	20	
Benzene	38.470	5.0	40.00	0	96.2	72	122	36.17	6.16	20	
Bromobenzene	38.520	5.0	40.00	0	96.3	64	129	36.92	4.24	20	
Bromodichloromethane	40.350	5.0	40.00	0	101	67	142	37.54	7.22	20	
Bromoform	41.180	5.0	40.00	0	103	35	192	39.16	5.03	20	
Bromomethane	51.960	5.0	40.00	0	130	62	150	39.37	27.6	20	R
Carbon tetrachloride	36.180	5.0	40.00	0	90.4	56	142	33.90	6.51	20	
Chlorobenzene	39.450	5.0	40.00	0	98.6	71	120	37.78	4.32	20	
Chloroethane	38.690	5.0	40.00	0	96.7	55	149	35.12	9.67	20	
Chloroform	39.680	5.0	40.00	0.9300	96.9	70	135	37.60	5.38	20	
Chloromethane	41.000	5.0	40.00	0	103	37	151	40.87	0.318	20	
cis-1,2-Dichloroethene	39.040	5.0	40.00	0	97.6	69	131	37.10	5.10	20	
cis-1,3-Dichloropropene	41.220	5.0	40.00	0	103	71	129	39.05	5.41	20	
Dibromochloromethane	39.780	5.0	40.00	0	99.4	53	161	39.06	1.83	20	
Dibromomethane	41.940	5.0	40.00	0	105	66	145	38.02	9.80	20	
Dichlorodifluoromethane	38.700	5.0	40.00	0	96.8	52	135	38.74	0.103	20	
Ethylbenzene	36.990	5.0	40.00	0	92.5	65	120	36.19	2.19	20	
Hexachlorobutadiene	35.250	5.0	40.00	0	88.1	22	135	34.00	3.61	20	
Isopropylbenzene	35.090	5.0	40.00	0	87.7	60	121	33.44	4.82	20	
m,p-Xylene	75.230	10	80.00	0	94.0	65	120	73.20	2.74	20	
Methylene chloride	39.050	5.0	40.00	0	97.6	55	138	40.67	4.06	20	
MTBE	41.530	5.0	40.00	0	104	64	149	38.97	6.36	20	
n-Butylbenzene	36.730	5.0	40.00	0	91.8	43	126	35.37	3.77	20	
n-Propylbenzene	35.610	5.0	40.00	0	89.0	56	122	34.25	3.89	20	
Naphthalene	38.690	5.0	40.00	0	96.7	48	139	37.10	4.20	20	
o-Xylene	38.190	5.0	40.00	0	95.5	67	118	37.29	2.38	20	
sec-Butylbenzene	34.490	5.0	40.00	0	86.2	50	123	33.60	2.61	20	
Styrene	38.770	5.0	40.00	0	96.9	57	129	37.53	3.25	20	
tert-Butylbenzene	35.420	5.0	40.00	0	88.6	54	121	33.99	4.12	20	
Tetrachloroethene	36.960	5.0	40.00	0	92.4	35	149	35.87	2.99	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011008-011AMSD** SampType: **MSD** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647899**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	37.980	5.0	40.00	0	95.0	68	120	35.98	5.41	20	
trans-1,2-Dichloroethene	38.120	5.0	40.00	0	95.3	62	139	36.60	4.07	20	
Trichloroethene	39.120	5.0	40.00	0	97.8	63	134	36.70	6.38	20	
Trichlorofluoromethane	37.980	5.0	40.00	0	95.0	34	179	36.09	5.10	20	
Vinyl chloride	38.820	5.0	40.00	0	97.0	57	136	40.95	5.34	20	
Surr: 1,2-Dichloroethane-d4	49.580		50.00		99.2	63	139		0		
Surr: 4-Bromofluorobenzene	47.030		50.00		94.1	75	124		0		
Surr: Dibromofluoromethane	49.160		50.00		98.3	70	133		0		
Surr: Toluene-d8	46.280		50.00		92.6	80	123		0		

Sample ID: **N011008-011AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647900**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	37.060	5.0	40.00	0	92.6	58	149				
1,1,1-Trichloroethane	36.240	5.0	40.00	0	90.6	67	126				
1,1,2,2-Tetrachloroethane	34.910	5.0	40.00	0	87.3	18	193				
1,1,2-Trichloroethane	38.260	5.0	40.00	0	95.7	70	136				
1,1-Dichloroethane	37.640	5.0	40.00	0	94.1	65	134				
1,1-Dichloroethene	35.710	5.0	40.00	0	89.3	61	135				
1,1-Dichloropropene	34.440	5.0	40.00	0	86.1	68	125				
1,2,3-Trichlorobenzene	38.530	5.0	40.00	0	96.3	40	134				
1,2,3-Trichloropropane	34.200	5.0	40.00	0	85.5	38	167				
1,2,4-Trichlorobenzene	40.600	5.0	40.00	0	102	40	132				
1,2,4-Trimethylbenzene	36.130	5.0	40.00	0	90.3	58	123				
1,2-Dibromo-3-chloropropane	35.950	10	40.00	0	89.9	30	181				
1,2-Dibromoethane	37.890	5.0	40.00	0	94.7	67	139				
1,2-Dichlorobenzene	36.970	5.0	40.00	0	92.4	65	122				
1,2-Dichloroethane	39.110	5.0	40.00	0	97.8	63	149				
1,2-Dichloropropane	37.060	5.0	40.00	0	92.6	69	127				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011008-011AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647900**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	34.640	5.0	40.00	0	86.6	58	122				
1,3-Dichlorobenzene	37.550	5.0	40.00	0	93.9	64	120				
1,3-Dichloropropane	37.770	5.0	40.00	0	94.4	64	141				
1,4-Dichlorobenzene	38.530	5.0	40.00	0	96.3	62	122				
2,2-Dichloropropane	39.200	5.0	40.00	0	98.0	62	138				
2-Chlorotoluene	34.950	5.0	40.00	0	87.4	59	124				
4-Chlorotoluene	36.240	5.0	40.00	0	90.6	60	123				
4-Isopropyltoluene	34.640	5.0	40.00	0	86.6	50	124				
Benzene	36.170	5.0	40.00	0	90.4	72	122				
Bromobenzene	36.920	5.0	40.00	0	92.3	64	129				
Bromodichloromethane	37.540	5.0	40.00	0	93.8	67	142				
Bromoform	39.160	5.0	40.00	0	97.9	35	192				
Bromomethane	39.370	5.0	40.00	0	98.4	62	150				
Carbon tetrachloride	33.900	5.0	40.00	0	84.8	56	142				
Chlorobenzene	37.780	5.0	40.00	0	94.4	71	120				
Chloroethane	35.120	5.0	40.00	0	87.8	55	149				
Chloroform	37.600	5.0	40.00	0.9300	91.7	70	135				
Chloromethane	40.870	5.0	40.00	0	102	37	151				
cis-1,2-Dichloroethene	37.100	5.0	40.00	0	92.8	69	131				
cis-1,3-Dichloropropene	39.050	5.0	40.00	0	97.6	71	129				
Dibromochloromethane	39.060	5.0	40.00	0	97.6	53	161				
Dibromomethane	38.020	5.0	40.00	0	95.1	66	145				
Dichlorodifluoromethane	38.740	5.0	40.00	0	96.9	52	135				
Ethylbenzene	36.190	5.0	40.00	0	90.5	65	120				
Hexachlorobutadiene	34.000	5.0	40.00	0	85.0	22	135				
Isopropylbenzene	33.440	5.0	40.00	0	83.6	60	121				
m,p-Xylene	73.200	10	80.00	0	91.5	65	120				
Methylene chloride	40.670	5.0	40.00	0	102	55	138				
MTBE	38.970	5.0	40.00	0	97.4	64	149				
n-Butylbenzene	35.370	5.0	40.00	0	88.4	43	126				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011008-011AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647900**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	34.250	5.0	40.00	0	85.6	56	122				
Naphthalene	37.100	5.0	40.00	0	92.8	48	139				
o-Xylene	37.290	5.0	40.00	0	93.2	67	118				
sec-Butylbenzene	33.600	5.0	40.00	0	84.0	50	123				
Styrene	37.530	5.0	40.00	0	93.8	57	129				
tert-Butylbenzene	33.990	5.0	40.00	0	85.0	54	121				
Tetrachloroethene	35.870	5.0	40.00	0	89.7	35	149				
Toluene	35.980	5.0	40.00	0	90.0	68	120				
trans-1,2-Dichloroethene	36.600	5.0	40.00	0	91.5	62	139				
Trichloroethene	36.700	5.0	40.00	0	91.8	63	134				
Trichlorofluoromethane	36.090	5.0	40.00	0	90.2	34	179				
Vinyl chloride	40.950	5.0	40.00	0	102	57	136				
Surr: 1,2-Dichloroethane-d4	48.460		50.00		96.9	63	139				
Surr: 4-Bromofluorobenzene	46.720		50.00		93.4	75	124				
Surr: Dibromofluoromethane	48.180		50.00		96.4	70	133				
Surr: Toluene-d8	45.200		50.00		90.4	80	123				

Sample ID: **Q130919MB2** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **PBS** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647902**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **Q130919MB2** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **PBS** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647902**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **Q130919MB2** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **PBS** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647902**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	1.080	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	43.520		50.00		87.0	63	139				
Surr: 4-Bromofluorobenzene	45.080		50.00		90.2	75	124				
Surr: Dibromofluoromethane	43.670		50.00		87.3	70	133				
Surr: Toluene-d8	44.240		50.00		88.5	80	123				

Sample ID: **Q130919MB3** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **PBS** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647903**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **Q130919MB3** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **PBS** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647903**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **Q130919MB3** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **PBS** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647903**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	45.310		50.00		90.6	63	139				
Surr: 4-Bromofluorobenzene	44.210		50.00		88.4	75	124				
Surr: Dibromofluoromethane	44.550		50.00		89.1	70	133				
Surr: Toluene-d8	45.320		50.00		90.6	80	123				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011008-005ADUP** SampType: **DUP** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647914**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0						0	0	20	
1,1,1-Trichloroethane	ND	5.0						0	0	20	
1,1,2,2-Tetrachloroethane	ND	5.0						0	0	20	
1,1,2-Trichloroethane	ND	5.0						0	0	20	
1,1-Dichloroethane	ND	5.0						0	0	20	
1,1-Dichloroethene	ND	5.0						0	0	20	
1,1-Dichloropropene	ND	5.0						0	0	20	
1,2,3-Trichlorobenzene	ND	5.0						0	0	20	
1,2,3-Trichloropropane	ND	5.0						0	0	20	
1,2,4-Trichlorobenzene	ND	5.0						0	0	20	
1,2,4-Trimethylbenzene	ND	5.0						0	0	20	
1,2-Dibromo-3-chloropropane	ND	10						0	0	20	
1,2-Dibromoethane	ND	5.0						0	0	20	
1,2-Dichlorobenzene	ND	5.0						0	0	20	
1,2-Dichloroethane	ND	5.0						0	0	20	
1,2-Dichloropropane	ND	5.0						0	0	20	
1,3,5-Trimethylbenzene	ND	5.0						0	0	20	
1,3-Dichlorobenzene	ND	5.0						0	0	20	
1,3-Dichloropropane	ND	5.0						0	0	20	
1,4-Dichlorobenzene	ND	5.0						0	0	20	
2,2-Dichloropropane	ND	5.0						0	0	20	
2-Chlorotoluene	ND	5.0						0	0	20	
4-Chlorotoluene	ND	5.0						0	0	20	
4-Isopropyltoluene	ND	5.0						0	0	20	
Benzene	ND	5.0						0	0	20	
Bromobenzene	ND	5.0						0	0	20	
Bromodichloromethane	ND	5.0						0	0	20	
Bromoform	ND	5.0						0	0	20	
Bromomethane	ND	5.0						0	0	20	
Carbon tetrachloride	ND	5.0						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011008-005ADUP** SampType: **DUP** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647914**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	5.0						0	0	20	
Chloroethane	ND	5.0						0	0	20	
Chloroform	ND	5.0						0	0	20	
Chloromethane	ND	5.0						0	0	20	
cis-1,2-Dichloroethene	ND	5.0						0	0	20	
cis-1,3-Dichloropropene	ND	5.0						0	0	20	
Dibromochloromethane	ND	5.0						0	0	20	
Dibromomethane	ND	5.0						0	0	20	
Dichlorodifluoromethane	ND	5.0						0	0	20	
Ethylbenzene	ND	5.0						0	0	20	
Hexachlorobutadiene	ND	5.0						0	0	20	
Isopropylbenzene	ND	5.0						0	0	20	
m,p-Xylene	ND	10						0	0	20	
Methylene chloride	ND	5.0						0	0	20	
MTBE	ND	5.0						0	0	20	
n-Butylbenzene	ND	5.0						0	0	20	
n-Propylbenzene	ND	5.0						0	0	20	
Naphthalene	ND	5.0						0	0	20	
o-Xylene	ND	5.0						0	0	20	
sec-Butylbenzene	ND	5.0						0	0	20	
Styrene	ND	5.0						0	0	20	
tert-Butylbenzene	ND	5.0						0	0	20	
Tetrachloroethene	ND	5.0						0	0	20	
Toluene	ND	5.0						0	0	20	
trans-1,2-Dichloroethene	ND	5.0						0	0	20	
Trichloroethene	ND	5.0						0	0	20	
Trichlorofluoromethane	ND	5.0						0	0	20	
Vinyl chloride	ND	5.0						0	0	20	
Surr: 1,2-Dichloroethane-d4	45.840		50.00		91.7	63	139		0		
Surr: 4-Bromofluorobenzene	47.590		50.00		95.2	75	124		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011008-005ADUP** SampType: **DUP** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647914**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	46.120		50.00		92.2	70	133		0		
Surr: Toluene-d8	49.260		50.00		98.5	80	123		0		

Sample ID: **N011009-003ADUP** SampType: **DUP** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647920**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0						0	0	20	
1,1,1-Trichloroethane	ND	5.0						0	0	20	
1,1,2,2-Tetrachloroethane	ND	5.0						0	0	20	
1,1,2-Trichloroethane	ND	5.0						0	0	20	
1,1-Dichloroethane	ND	5.0						0	0	20	
1,1-Dichloroethene	ND	5.0						0	0	20	
1,1-Dichloropropene	ND	5.0						0	0	20	
1,2,3-Trichlorobenzene	ND	5.0						0	0	20	
1,2,3-Trichloropropane	ND	5.0						0	0	20	
1,2,4-Trichlorobenzene	ND	5.0						0	0	20	
1,2,4-Trimethylbenzene	ND	5.0						0	0	20	
1,2-Dibromo-3-chloropropane	ND	10						0	0	20	
1,2-Dibromoethane	ND	5.0						0	0	20	
1,2-Dichlorobenzene	ND	5.0						0	0	20	
1,2-Dichloroethane	ND	5.0						0	0	20	
1,2-Dichloropropane	ND	5.0						0	0	20	
1,3,5-Trimethylbenzene	ND	5.0						0	0	20	
1,3-Dichlorobenzene	ND	5.0						0	0	20	
1,3-Dichloropropane	ND	5.0						0	0	20	
1,4-Dichlorobenzene	ND	5.0						0	0	20	
2,2-Dichloropropane	ND	5.0						0	0	20	
2-Chlorotoluene	ND	5.0						0	0	20	
4-Chlorotoluene	ND	5.0						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011009-003ADUP** SampType: **DUP** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647920**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Isopropyltoluene	ND	5.0						0	0	20	
Benzene	ND	5.0						0	0	20	
Bromobenzene	ND	5.0						0	0	20	
Bromodichloromethane	ND	5.0						0	0	20	
Bromoform	ND	5.0						0	0	20	
Bromomethane	ND	5.0						0	0	20	
Carbon tetrachloride	ND	5.0						0	0	20	
Chlorobenzene	ND	5.0						0	0	20	
Chloroethane	ND	5.0						0	0	20	
Chloroform	ND	5.0						0	0	20	
Chloromethane	ND	5.0						0	0	20	
cis-1,2-Dichloroethene	ND	5.0						0	0	20	
cis-1,3-Dichloropropene	ND	5.0						0	0	20	
Dibromochloromethane	ND	5.0						0	0	20	
Dibromomethane	ND	5.0						0	0	20	
Dichlorodifluoromethane	ND	5.0						0	0	20	
Ethylbenzene	ND	5.0						0	0	20	
Hexachlorobutadiene	ND	5.0						0	0	20	
Isopropylbenzene	ND	5.0						0	0	20	
m,p-Xylene	ND	10						0	0	20	
Methylene chloride	ND	5.0						0	0	20	
MTBE	ND	5.0						0	0	20	
n-Butylbenzene	ND	5.0						0	0	20	
n-Propylbenzene	ND	5.0						0	0	20	
Naphthalene	ND	5.0						0	0	20	
o-Xylene	ND	5.0						0	0	20	
sec-Butylbenzene	ND	5.0						0	0	20	
Styrene	ND	5.0						0	0	20	
tert-Butylbenzene	ND	5.0						0	0	20	
Tetrachloroethene	ND	5.0						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **N011009-003ADUP** SampType: **DUP** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647920**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	ND	5.0						0	0	20	
trans-1,2-Dichloroethene	ND	5.0						0	0	20	
Trichloroethene	ND	5.0						0	0	20	
Trichlorofluoromethane	ND	5.0						0	0	20	
Vinyl chloride	ND	5.0						0	0	20	
Surr: 1,2-Dichloroethane-d4	51.800		50.00		104	63	139		0		
Surr: 4-Bromofluorobenzene	46.420		50.00		92.8	75	124		0		
Surr: Dibromofluoromethane	17.390		50.00		34.8	70	133		0		S
Surr: Toluene-d8	47.490		50.00		95.0	80	123		0		

Sample ID: **N011008-015AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647924**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	32.080	5.0	40.00	0	80.2	58	149				
1,1,1-Trichloroethane	32.650	5.0	40.00	0	81.6	67	126				
1,1,2,2-Tetrachloroethane	28.740	5.0	40.00	0	71.8	18	193				
1,1,2-Trichloroethane	34.570	5.0	40.00	0	86.4	70	136				
1,1-Dichloroethane	34.190	5.0	40.00	0	85.5	65	134				
1,1-Dichloroethene	31.490	5.0	40.00	0	78.7	61	135				
1,1-Dichloropropene	31.830	5.0	40.00	0	79.6	68	125				
1,2,3-Trichlorobenzene	31.370	5.0	40.00	0	78.4	40	134				
1,2,3-Trichloropropane	28.830	5.0	40.00	0	72.1	38	167				
1,2,4-Trichlorobenzene	32.360	5.0	40.00	0	80.9	40	132				
1,2,4-Trimethylbenzene	31.270	5.0	40.00	0	78.2	58	123				
1,2-Dibromo-3-chloropropane	26.720	10	40.00	0	66.8	30	181				
1,2-Dibromoethane	34.830	5.0	40.00	0	87.1	67	139				
1,2-Dichlorobenzene	32.570	5.0	40.00	0	81.4	65	122				
1,2-Dichloroethane	35.560	5.0	40.00	0	88.9	63	149				
1,2-Dichloropropane	35.040	5.0	40.00	0	87.6	69	127				

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011008-015AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647924**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	30.330	5.0	40.00	0	75.8	58	122				
1,3-Dichlorobenzene	32.070	5.0	40.00	0	80.2	64	120				
1,3-Dichloropropane	33.090	5.0	40.00	0	82.7	64	141				
1,4-Dichlorobenzene	33.060	5.0	40.00	0	82.6	62	122				
2,2-Dichloropropane	34.510	5.0	40.00	0	86.3	62	138				
2-Chlorotoluene	30.800	5.0	40.00	0	77.0	59	124				
4-Chlorotoluene	31.750	5.0	40.00	0	79.4	60	123				
4-Isopropyltoluene	29.740	5.0	40.00	0	74.4	50	124				
Benzene	34.080	5.0	40.00	0	85.2	72	122				
Bromobenzene	32.510	5.0	40.00	0	81.3	64	129				
Bromodichloromethane	33.770	5.0	40.00	0	84.4	67	142				
Bromoform	31.570	5.0	40.00	0	78.9	35	192				
Bromomethane	49.370	5.0	40.00	0	123	62	150				
Carbon tetrachloride	30.660	5.0	40.00	0	76.7	56	142				
Chlorobenzene	33.800	5.0	40.00	0	84.5	71	120				
Chloroethane	50.320	5.0	40.00	0	126	55	149				
Chloroform	33.660	5.0	40.00	0	84.2	70	135				
Chloromethane	66.650	5.0	40.00	0	167	37	151				S
cis-1,2-Dichloroethene	33.350	5.0	40.00	0	83.4	69	131				
cis-1,3-Dichloropropene	34.690	5.0	40.00	0	86.7	71	129				
Dibromochloromethane	31.720	5.0	40.00	0	79.3	53	161				
Dibromomethane	34.970	5.0	40.00	0	87.4	66	145				
Dichlorodifluoromethane	61.060	5.0	40.00	0	153	52	135				S
Ethylbenzene	32.580	5.0	40.00	0	81.4	65	120				
Hexachlorobutadiene	27.660	5.0	40.00	0	69.2	22	135				
Isopropylbenzene	29.670	5.0	40.00	0	74.2	60	121				
m,p-Xylene	65.980	10	80.00	0	82.5	65	120				
Methylene chloride	55.700	5.0	40.00	0	139	55	138				S
MTBE	32.470	5.0	40.00	0	81.2	64	149				
n-Butylbenzene	30.390	5.0	40.00	0	76.0	43	126				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011008-015AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647924**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	30.670	5.0	40.00	0	76.7	56	122				
Naphthalene	28.350	5.0	40.00	0	70.9	48	139				
o-Xylene	33.100	5.0	40.00	0	82.8	67	118				
sec-Butylbenzene	29.330	5.0	40.00	0	73.3	50	123				
Styrene	33.480	5.0	40.00	0	83.7	57	129				
tert-Butylbenzene	29.870	5.0	40.00	0	74.7	54	121				
Tetrachloroethene	31.170	5.0	40.00	0	77.9	35	149				
Toluene	33.790	5.0	40.00	0	84.5	68	120				
trans-1,2-Dichloroethene	32.900	5.0	40.00	0	82.2	62	139				
Trichloroethene	34.370	5.0	40.00	0	85.9	63	134				
Trichlorofluoromethane	32.160	5.0	40.00	0	80.4	34	179				
Vinyl chloride	48.260	5.0	40.00	0	121	57	136				
Surr: 1,2-Dichloroethane-d4	45.810		50.00		91.6	63	139				
Surr: 4-Bromofluorobenzene	43.540		50.00		87.1	75	124				
Surr: Dibromofluoromethane	45.560		50.00		91.1	70	133				
Surr: Toluene-d8	44.070		50.00		88.1	80	123				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **LCS-43888** SampType: **LCS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90342**
Client ID: **LCSS** Batch ID: **43888** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/17/2013** SeqNo: **1647096**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	20.667	5.0	33.30	0	62.1	44	127				
Acenaphthene	21.333	5.0	33.30	0	64.1	50	125				
Acenaphthylene	21.000	5.0	33.30	0	63.1	52	125				
Anthracene	25.667	5.0	33.30	0	77.1	46	133				
Benzo(a)anthracene	26.667	5.0	33.30	0	80.1	63	141				
Benzo(a)pyrene	26.667	5.0	33.30	0	80.1	63	139				
Benzo(b)fluoranthene	27.333	5.0	33.30	0	82.1	63	151				
Benzo(g,h,i)perylene	27.333	5.0	33.30	0	82.1	59	148				
Benzo(k)fluoranthene	28.000	5.0	33.30	0	84.1	61	151				
Chrysene	26.333	5.0	33.30	0	79.1	68	139				
Dibenz(a,h)anthracene	27.333	5.0	33.30	0	82.1	59	146				
Fluoranthene	27.333	5.0	33.30	0	82.1	67	135				
Fluorene	22.667	5.0	33.30	0	68.1	50	131				
Indeno(1,2,3-cd)pyrene	27.667	5.0	33.30	0	83.1	59	142				
Naphthalene	19.333	5.0	33.30	0	58.1	45	125				
Phenanthrene	22.667	5.0	33.30	0	68.1	54	125				
Pyrene	26.333	5.0	33.30	0	79.1	66	132				
Surr: 1,2-Dichlorobenzene-d4	12.667		33.30		38.0	14	120				
Surr: 2-Fluorobiphenyl	17.667		33.30		53.1	28	130				
Surr: 4-Terphenyl-d14	26.333		33.30		79.1	19	165				
Surr: Nitrobenzene-d5	15.667		33.30		47.0	23	150				

Sample ID: **N011008-002A-MS** SampType: **MS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90342**
Client ID: **ZZZZZZ** Batch ID: **43888** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/17/2013** SeqNo: **1647097**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	83.777	5.0	132.9	0	63.0	44	127				
Acenaphthene	83.444	5.0	132.9	0	62.8	50	125				
Acenaphthylene	82.114	5.0	132.9	0	61.8	52	125				
Anthracene	98.072	5.0	132.9	0	73.8	46	133				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **N011008-002A-MS** SampType: **MS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90342**
Client ID: **ZZZZZZ** Batch ID: **43888** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/17/2013** SeqNo: **1647097**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)anthracene	90.758	5.0	132.9	0	68.3	63	141				
Benzo(a)pyrene	91.755	5.0	132.9	1.331	68.0	63	139				
Benzo(b)fluoranthene	92.088	5.0	132.9	0	69.3	63	151				
Benzo(g,h,i)perylene	76.130	5.0	132.9	0	57.3	59	148				S
Benzo(k)fluoranthene	101.064	5.0	132.9	0	76.0	61	151				
Chrysene	93.750	5.0	132.9	1.663	69.3	68	139				
Dibenz(a,h)anthracene	81.449	5.0	132.9	0	61.3	59	146				
Fluoranthene	97.407	5.0	132.9	0	73.3	67	135				
Fluorene	85.106	5.0	132.9	0	64.0	50	131				
Indeno(1,2,3-cd)pyrene	81.782	5.0	132.9	0	61.5	59	142				
Naphthalene	80.452	5.0	132.9	0	60.5	45	125				
Phenanthrene	91.423	5.0	132.9	0	68.8	54	125				
Pyrene	97.407	5.0	132.9	0	73.3	66	132				
Surr: 1,2-Dichlorobenzene-d4	14.628		33.21		44.0	14	120				
Surr: 2-Fluorobiphenyl	17.287		33.21		52.1	28	130				
Surr: 4-Terphenyl-d14	22.606		33.21		68.1	19	165				
Surr: Nitrobenzene-d5	18.949		33.21		57.1	23	150				

Sample ID: **N011008-002A-MSD** SampType: **MSD** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90342**
Client ID: **ZZZZZZ** Batch ID: **43888** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/17/2013** SeqNo: **1647098**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	88.696	5.0	133.3	0	66.5	44	127	83.78	5.70	20	
Acenaphthene	81.694	5.0	133.3	0	61.3	50	125	83.44	2.12	20	
Acenaphthylene	81.694	5.0	133.3	0	61.3	52	125	82.11	0.513	20	
Anthracene	100.033	5.0	133.3	0	75.0	46	133	98.07	1.98	20	
Benzo(a)anthracene	97.366	5.0	133.3	0	73.0	63	141	90.76	7.02	20	
Benzo(a)pyrene	96.032	5.0	133.3	1.331	71.0	63	139	91.76	4.55	20	
Benzo(b)fluoranthene	102.701	5.0	133.3	0	77.0	63	151	92.09	10.9	20	
Benzo(g,h,i)perylene	65.022	5.0	133.3	0	48.8	59	148	76.13	15.7	20	S

Sample ID: **N011008-002A-MSD** SampType: **MSD** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90342**
Client ID: **ZZZZZZ** Batch ID: **43888** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/17/2013** SeqNo: **1647098**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	112.371	5.0	133.3	0	84.3	61	151	101.1	10.6	20	
Chrysene	93.031	5.0	133.3	1.663	68.5	68	139	93.75	0.770	20	
Dibenz(a,h)anthracene	74.358	5.0	133.3	0	55.8	59	146	81.45	9.10	20	S
Fluoranthene	101.701	5.0	133.3	0	76.3	67	135	97.41	4.31	20	
Fluorene	84.361	5.0	133.3	0	63.3	50	131	85.11	0.879	20	
Indeno(1,2,3-cd)pyrene	73.358	5.0	133.3	0	55.0	59	142	81.78	10.9	20	S
Naphthalene	84.028	5.0	133.3	0	63.0	45	125	80.45	4.35	20	
Phenanthrene	93.031	5.0	133.3	0	69.8	54	125	91.42	1.74	20	
Pyrene	100.033	5.0	133.3	0	75.0	66	132	97.41	2.66	20	
Surr: 1,2-Dichlorobenzene-d4	14.338		33.31		43.0	14	120		0		
Surr: 2-Fluorobiphenyl	17.006		33.31		51.1	28	130		0		
Surr: 4-Terphenyl-d14	23.008		33.31		69.1	19	165		0		
Surr: Nitrobenzene-d5	18.339		33.31		55.1	23	150		0		

Sample ID: **MB-43888** SampType: **MBLK** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90342**
Client ID: **PBS** Batch ID: **43888** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/17/2013** SeqNo: **1647099**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	5.0									
Acenaphthene	ND	5.0									
Acenaphthylene	ND	5.0									
Anthracene	ND	5.0									
Benzo(a)anthracene	ND	5.0									
Benzo(a)pyrene	ND	5.0									
Benzo(b)fluoranthene	ND	5.0									
Benzo(g,h,i)perylene	ND	5.0									
Benzo(k)fluoranthene	ND	5.0									
Chrysene	ND	5.0									
Dibenz(a,h)anthracene	ND	5.0									
Fluoranthene	ND	5.0									

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_SIM

Sample ID: **MB-43888** SampType: **MBLK** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90342**
Client ID: **PBS** Batch ID: **43888** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/17/2013** SeqNo: **1647099**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	ND	5.0									
Indeno(1,2,3-cd)pyrene	ND	5.0									
Naphthalene	ND	5.0									
Phenanthrene	ND	5.0									
Pyrene	ND	5.0									
Surr: 1,2-Dichlorobenzene-d4	8.667		33.30		26.0	14	120				
Surr: 2-Fluorobiphenyl	16.667		33.30		50.1	28	130				
Surr: 4-Terphenyl-d14	25.000		33.30		75.1	19	165				
Surr: Nitrobenzene-d5	13.667		33.30		41.0	23	150				

Sample ID: **N011008-004A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90342**
Client ID: **ZZZZZZ** Batch ID: **43888** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/17/2013** SeqNo: **1647104**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	5.0						0	0	20	
Acenaphthene	ND	5.0						0	0	20	
Acenaphthylene	ND	5.0						0	0	20	
Anthracene	ND	5.0						0	0	20	
Benzo(a)anthracene	ND	5.0						0	0	20	
Benzo(a)pyrene	ND	5.0						0	0	20	
Benzo(b)fluoranthene	ND	5.0						0	0	20	
Benzo(g,h,i)perylene	ND	5.0						0	0	20	
Benzo(k)fluoranthene	ND	5.0						0	0	20	
Chrysene	1.672	5.0						0	0	20	
Dibenz(a,h)anthracene	ND	5.0						0	0	20	
Fluoranthene	ND	5.0						0	0	20	
Fluorene	ND	5.0						0	0	20	
Indeno(1,2,3-cd)pyrene	ND	5.0						0	0	20	
Naphthalene	ND	5.0						0	0	20	
Phenanthrene	ND	5.0						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_SIM

Sample ID: **N011008-004A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90342**
Client ID: **ZZZZZZ** Batch ID: **43888** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/17/2013** SeqNo: **1647104**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyrene	ND	5.0						0	0	20	
Surr: 1,2-Dichlorobenzene-d4	11.706		33.41		35.0	14	120		0		
Surr: 2-Fluorobiphenyl	16.722		33.41		50.1	28	130		0		
Surr: 4-Terphenyl-d14	27.425		33.41		82.1	19	165		0		
Surr: Nitrobenzene-d5	15.050		33.41		45.0	23	150		0		

Sample ID: **MB2-43888** SampType: **MBLK** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90342**
Client ID: **PBS** Batch ID: **43888** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/17/2013** SeqNo: **1647112**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	5.0									
Acenaphthene	ND	5.0									
Acenaphthylene	ND	5.0									
Anthracene	ND	5.0									
Benzo(a)anthracene	ND	5.0									
Benzo(a)pyrene	ND	5.0									
Benzo(b)fluoranthene	ND	5.0									
Benzo(g,h,i)perylene	ND	5.0									
Benzo(k)fluoranthene	ND	5.0									
Chrysene	ND	5.0									
Dibenz(a,h)anthracene	ND	5.0									
Fluoranthene	ND	5.0									
Fluorene	ND	5.0									
Indeno(1,2,3-cd)pyrene	ND	5.0									
Naphthalene	ND	5.0									
Phenanthrene	ND	5.0									
Pyrene	ND	5.0									
Surr: 1,2-Dichlorobenzene-d4	10.333		33.30		31.0	14	120				
Surr: 2-Fluorobiphenyl	18.000		33.30		54.1	28	130				
Surr: 4-Terphenyl-d14	25.333		33.30		76.1	19	165				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_SIM

Sample ID: **MB2-43888** SampType: **MBLK** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90342**
Client ID: **PBS** Batch ID: **43888** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/17/2013** SeqNo: **1647112**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Nitrobenzene-d5	15.000		33.30		45.0	23	150				

Sample ID: **N011008-011A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90342**
Client ID: **ZZZZZZ** Batch ID: **43888** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/17/2013** SeqNo: **1647114**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	5.0						0	0	20	
Acenaphthene	ND	5.0						0	0	20	
Acenaphthylene	ND	5.0						0	0	20	
Anthracene	ND	5.0						0	0	20	
Benzo(a)anthracene	ND	5.0						0	0	20	
Benzo(a)pyrene	ND	5.0						1.336	0	20	
Benzo(b)fluoranthene	1.662	5.0						1.670	0	20	
Benzo(g,h,i)perylene	ND	5.0						1.670	0	20	
Benzo(k)fluoranthene	ND	5.0						0	0	20	
Chrysene	ND	5.0						0	0	20	
Dibenz(a,h)anthracene	ND	5.0						0	0	20	
Fluoranthene	ND	5.0						0	0	20	
Fluorene	ND	5.0						0	0	20	
Indeno(1,2,3-cd)pyrene	ND	5.0						0	0	20	
Naphthalene	ND	5.0						0	0	20	
Phenanthrene	ND	5.0						0	0	20	
Pyrene	ND	5.0						2.338	0	20	
Surr: 1,2-Dichlorobenzene-d4	13.626		33.20		41.0	14	120		0		
Surr: 2-Fluorobiphenyl	18.943		33.20		57.1	28	130		0		
Surr: 4-Terphenyl-d14	23.596		33.20		71.1	19	165		0		
Surr: Nitrobenzene-d5	17.614		33.20		53.1	23	150		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **N011008-011A-MS** SampType: **MS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90342**
Client ID: **ZZZZZZ** Batch ID: **43888** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647124**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	78.099	5.0	132.9	0	58.8	44	127				
Acenaphthene	75.773	5.0	132.9	0	57.0	50	125				
Acenaphthylene	76.105	5.0	132.9	0	57.3	52	125				
Anthracene	92.057	5.0	132.9	0	69.3	46	133				
Benzo(a)anthracene	90.395	5.0	132.9	0	68.0	63	141				
Chrysene	86.075	5.0	132.9	0	64.8	68	139				S
Fluoranthene	96.045	5.0	132.9	0	72.3	67	135				
Fluorene	77.767	5.0	132.9	0	58.5	50	131				
Naphthalene	74.443	5.0	132.9	0	56.0	45	125				
Phenanthrene	82.087	5.0	132.9	0	61.8	54	125				
Pyrene	92.389	5.0	132.9	2.338	67.8	66	132				
Surr: 1,2-Dichlorobenzene-d4	13.958		33.20		42.0	14	120				
Surr: 2-Fluorobiphenyl	16.949		33.20		51.1	28	130				
Surr: 4-Terphenyl-d14	22.599		33.20		68.1	19	165				
Surr: Nitrobenzene-d5	19.276		33.20		58.1	23	150				

Sample ID: **N011008-011A-MS** SampType: **MS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90406**
Client ID: **ZZZZZZ** Batch ID: **43888** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/23/2013** SeqNo: **1649111**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	119.641	100	132.9	1.336	89.0	63	139				
Benzo(b)fluoranthene	99.701	100	132.9	1.670	73.8	63	151				
Benzo(g,h,i)perylene	66.467	100	132.9	1.670	48.8	59	148				S
Benzo(k)fluoranthene	146.228	100	132.9	0	110	61	151				
Dibenz(a,h)anthracene	79.761	100	132.9	0	60.0	59	146				
Indeno(1,2,3-cd)pyrene	79.761	100	132.9	0	60.0	59	142				

Sample ID: **LCS-43898** SampType: **LCS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90365**
Client ID: **LCSS** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647664**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	23.333	5.0	33.30	0	70.1	44	127				
Acenaphthene	23.667	5.0	33.30	0	71.1	50	125				
Acenaphthylene	23.333	5.0	33.30	0	70.1	52	125				
Anthracene	27.667	5.0	33.30	0	83.1	46	133				
Benzo(a)anthracene	29.333	5.0	33.30	0	88.1	63	141				
Benzo(a)pyrene	29.333	5.0	33.30	0	88.1	63	139				
Benzo(b)fluoranthene	32.333	5.0	33.30	0	97.1	63	151				
Benzo(g,h,i)perylene	29.000	5.0	33.30	0	87.1	59	148				
Benzo(k)fluoranthene	30.000	5.0	33.30	0	90.1	61	151				
Chrysene	28.667	5.0	33.30	0	86.1	68	139				
Dibenz(a,h)anthracene	30.000	5.0	33.30	0	90.1	59	146				
Fluoranthene	29.333	5.0	33.30	0	88.1	67	135				
Fluorene	24.333	5.0	33.30	0	73.1	50	131				
Indeno(1,2,3-cd)pyrene	30.000	5.0	33.30	0	90.1	59	142				
Naphthalene	22.333	5.0	33.30	0	67.1	45	125				
Phenanthrene	25.000	5.0	33.30	0	75.1	54	125				
Pyrene	28.333	5.0	33.30	0	85.1	66	132				
Surr: 1,2-Dichlorobenzene-d4	18.667		33.30		56.1	14	120				
Surr: 2-Fluorobiphenyl	21.000		33.30		63.1	28	130				
Surr: 4-Terphenyl-d14	28.667		33.30		86.1	19	165				
Surr: Nitrobenzene-d5	22.333		33.30		67.1	23	150				

Sample ID: **N011008-021A-MS** SampType: **MS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90365**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647665**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	84.109	5.0	132.9	0	63.3	44	127				
Acenaphthene	90.426	5.0	132.9	0	68.0	50	125				
Acenaphthylene	108.045	5.0	132.9	1.332	80.3	52	125				
Anthracene	164.894	5.0	132.9	2.332	122	46	133				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_SIM

Sample ID: **N011008-021A-MS** SampType: **MS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90365**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647665**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)anthracene	184.840	5.0	132.9	5.330	135	63	141				
Benzo(a)pyrene	177.194	5.0	132.9	9.993	126	63	139				
Benzo(b)fluoranthene	172.872	5.0	132.9	17.65	117	63	151				
Benzo(g,h,i)perylene	82.779	5.0	132.9	3.664	59.5	59	148				
Benzo(k)fluoranthene	134.973	5.0	132.9	4.997	97.8	61	151				
Chrysene	174.867	5.0	132.9	19.32	117	68	139				
Dibenz(a,h)anthracene	79.455	5.0	132.9	0	59.8	59	146				
Fluoranthene	251.995	5.0	132.9	14.99	178	67	135				S
Fluorene	120.346	5.0	132.9	0	90.5	50	131				
Indeno(1,2,3-cd)pyrene	92.753	5.0	132.9	1.999	68.3	59	142				
Naphthalene	80.785	5.0	132.9	0	60.8	45	125				
Phenanthrene	319.814	5.0	132.9	7.662	235	54	125				SE
Pyrene	299.535	5.0	132.9	21.65	209	66	132				SE
Surr: 1,2-Dichlorobenzene-d4	12.633		33.21		38.0	14	120				
Surr: 2-Fluorobiphenyl	17.620		33.21		53.1	28	130				
Surr: 4-Terphenyl-d14	24.269		33.21		73.1	19	165				
Surr: Nitrobenzene-d5	17.620		33.21		53.1	23	150				

Sample ID: **N011008-021A-MSD** SampType: **MSD** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90365**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647666**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	56.371	5.0	133.4	0	42.3	44	127	84.11	39.5	20	SR
Acenaphthene	67.712	5.0	133.4	0	50.8	50	125	90.43	28.7	20	R
Acenaphthylene	67.378	5.0	133.4	1.332	49.5	52	125	108.0	46.4	20	SR
Anthracene	99.733	5.0	133.4	2.332	73.0	46	133	164.9	49.2	20	R
Benzo(a)anthracene	122.748	5.0	133.4	5.330	88.0	63	141	184.8	40.4	20	R
Benzo(a)pyrene	138.759	5.0	133.4	9.993	96.5	63	139	177.2	24.3	20	R
Benzo(b)fluoranthene	132.088	5.0	133.4	17.65	85.8	63	151	172.9	26.7	20	R
Benzo(g,h,i)perylene	78.052	5.0	133.4	3.664	55.8	59	148	82.78	5.88	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **N011008-021A-MSD**	SampType: **MSD**	TestCode: **8270SOIL_SI** Units: **µg/Kg**	Prep Date: **9/18/2013**	RunNo: **90365**
Client ID: **ZZZZZZ**	Batch ID: **43898**	TestNo: **EPA 8270CSI EPA 3550B**	Analysis Date: **9/18/2013**	SeqNo: **1647666**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	129.420	5.0	133.4	4.997	93.3	61	151	135.0	4.20	20	
Chrysene	115.077	5.0	133.4	19.32	71.8	68	139	174.9	41.2	20	R
Dibenz(a,h)anthracene	71.714	5.0	133.4	0	53.8	59	146	79.45	10.2	20	S
Fluoranthene	180.454	5.0	133.4	14.99	124	67	135	252.0	33.1	20	R
Fluorene	72.382	5.0	133.4	0	54.3	50	131	120.3	49.8	20	R
Indeno(1,2,3-cd)pyrene	85.057	5.0	133.4	1.999	62.3	59	142	92.75	8.66	20	
Naphthalene	48.699	5.0	133.4	0	36.5	45	125	80.78	49.6	20	SR
Phenanthrene	104.069	5.0	133.4	7.662	72.3	54	125	319.8	102	20	R
Pyrene	212.809	5.0	133.4	21.65	143	66	132	299.5	33.9	20	SR
Surr: 1,2-Dichlorobenzene-d4	6.671		33.32		20.0	14	120		0		
Surr: 2-Fluorobiphenyl	10.674		33.32		32.0	28	130		0		
Surr: 4-Terphenyl-d14	20.347		33.32		61.1	19	165		0		
Surr: Nitrobenzene-d5	9.673		33.32		29.0	23	150		0		

Sample ID: **MB1-43898**	SampType: **MBLK**	TestCode: **8270SOIL_SI** Units: **µg/Kg**	Prep Date: **9/18/2013**	RunNo: **90365**
Client ID: **PBS**	Batch ID: **43898**	TestNo: **EPA 8270CSI EPA 3550B**	Analysis Date: **9/18/2013**	SeqNo: **1647667**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	5.0									
Acenaphthene	ND	5.0									
Acenaphthylene	ND	5.0									
Anthracene	ND	5.0									
Benzo(a)anthracene	ND	5.0									
Benzo(a)pyrene	ND	5.0									
Benzo(b)fluoranthene	ND	5.0									
Benzo(g,h,i)perylene	ND	5.0									
Benzo(k)fluoranthene	ND	5.0									
Chrysene	ND	5.0									
Dibenz(a,h)anthracene	ND	5.0									
Fluoranthene	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_SIM

Sample ID: **MB1-43898** SampType: **MBLK** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90365**
Client ID: **PBS** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647667**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	ND	5.0									
Indeno(1,2,3-cd)pyrene	ND	5.0									
Naphthalene	ND	5.0									
Phenanthrene	ND	5.0									
Pyrene	ND	5.0									
Surr: 1,2-Dichlorobenzene-d4	13.333		33.30		40.0	14	120				
Surr: 2-Fluorobiphenyl	16.667		33.30		50.1	28	130				
Surr: 4-Terphenyl-d14	25.333		33.30		76.1	19	165				
Surr: Nitrobenzene-d5	17.000		33.30		51.1	23	150				

Sample ID: **N011008-022A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90365**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647673**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	5.0						0	0	20	
Acenaphthene	3.329	5.0						3.322	0	20	
Acenaphthylene	10.985	5.0						23.26	71.7	20	R
Anthracene	19.640	5.0						134.9	149	20	R
Fluoranthene	74.900	5.0						480.1	146	20	R
Fluorene	3.329	5.0						22.26	0	20	
Naphthalene	ND	5.0						2.990	0	20	
Phenanthrene	73.569	5.0						297.3	121	20	R
Pyrene	93.542	5.0						503.3	137	20	R
Surr: 1,2-Dichlorobenzene-d4	13.316		33.26		40.0	14	120		0		
Surr: 2-Fluorobiphenyl	17.643		33.26		53.1	28	130		0		
Surr: Nitrobenzene-d5	19.308		33.26		58.1	23	150		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_SIM

Sample ID: **MB2-43898** SampType: **MBLK** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90365**
Client ID: **PBS** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647680**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	5.0									
Acenaphthene	ND	5.0									
Acenaphthylene	ND	5.0									
Anthracene	ND	5.0									
Benzo(a)anthracene	ND	5.0									
Benzo(a)pyrene	ND	5.0									
Benzo(b)fluoranthene	ND	5.0									
Benzo(g,h,i)perylene	ND	5.0									
Benzo(k)fluoranthene	ND	5.0									
Chrysene	ND	5.0									
Dibenz(a,h)anthracene	ND	5.0									
Fluoranthene	ND	5.0									
Fluorene	ND	5.0									
Indeno(1,2,3-cd)pyrene	ND	5.0									
Naphthalene	ND	5.0									
Phenanthrene	ND	5.0									
Pyrene	ND	5.0									
Surr: 1,2-Dichlorobenzene-d4	17.000		33.30		51.1	14	120				
Surr: 2-Fluorobiphenyl	19.667		33.30		59.1	28	130				
Surr: 4-Terphenyl-d14	26.667		33.30		80.1	19	165				
Surr: Nitrobenzene-d5	21.333		33.30		64.1	23	150				

Sample ID: **N011009-018A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90365**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1647686**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	5.0						0	0	20	
Acenaphthene	2.999	5.0						4.345	0	20	
Acenaphthylene	38.321	5.0						28.74	28.6	20	R
Anthracene	42.319	5.0						33.76	22.5	20	R

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_SIM

Sample ID: **N011009-018A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90365**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1647686**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	9.997	5.0						8.021	21.9	20	R
Naphthalene	4.332	5.0						3.342	0	20	
Phenanthrene	196.601	5.0						177.1	10.4	20	
Surr: 1,2-Dichlorobenzene-d4	16.328		33.29		49.0	14	120		0		
Surr: 2-Fluorobiphenyl	19.327		33.29		58.1	28	130		0		
Surr: Nitrobenzene-d5	22.659		33.29		68.1	23	150		0		

Sample ID: **N011009-017A-MS** SampType: **MS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90365**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1647692**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	108.478	5.0	133.5	0	81.3	44	127				
Acenaphthene	107.143	5.0	133.5	1.994	78.8	50	125				
Acenaphthylene	161.883	5.0	133.5	36.89	93.6	52	125				
Anthracene	164.219	5.0	133.5	35.56	96.4	46	133				
Fluorene	126.168	5.0	133.5	7.976	88.5	50	131				
Naphthalene	100.467	5.0	133.5	5.317	71.3	45	125				
Surr: 1,2-Dichlorobenzene-d4	16.021		133.5		12.0	14	120				S
Surr: 2-Fluorobiphenyl	22.029		33.34		66.1	28	130				
Surr: Nitrobenzene-d5	24.700		33.34		74.1	23	150				

Sample ID: **N011008-022A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90384**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/22/2013** SeqNo: **1648144**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)anthracene	46.605	50						272.8	0	20	
Benzo(a)pyrene	46.605	50						251.2	0	20	
Benzo(b)fluoranthene	39.947	50						361.5	0	20	
Benzo(g,h,i)perylene	33.289	50						27.24	0	20	
Benzo(k)fluoranthene	16.644	50						156.8	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_SIM

Sample ID: **N011008-022A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90384**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/22/2013** SeqNo: **1648144**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	39.947	50						270.1	0	20	
Dibenz(a,h)anthracene	ND	50						9.967	0	20	
Indeno(1,2,3-cd)pyrene	23.302	50						29.57	0	20	
Surr: 4-Terphenyl-d14	29.960		33.26		90.1	19	165		0		

Sample ID: **N011009-017A-MS** SampType: **MS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90392**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/22/2013** SeqNo: **1648512**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)anthracene	327.103	50	133.5	192.8	101	63	141				
Chrysene	400.534	50	133.5	255.9	108	68	139				
Surr: 4-Terphenyl-d14	33.378		33.34		100	19	165				

Sample ID: **N011009-017A-MS** SampType: **MS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90408**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/23/2013** SeqNo: **1649130**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	634.179	100	133.5	511.8	91.7	63	139				
Benzo(b)fluoranthene	587.450	100	133.5	458.6	96.5	63	151				
Benzo(g,h,i)perylene	567.423	100	133.5	332.3	176	59	148				S
Benzo(k)fluoranthene	280.374	100	133.5	162.8	88.1	61	151				
Dibenz(a,h)anthracene	120.160	100	133.5	19.94	75.1	59	146				
Indeno(1,2,3-cd)pyrene	320.427	100	133.5	159.5	121	59	142				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CHAIN OF CUSTODY RECORD

Page 1 of 3

Advanced Technology Laboratories INC.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659 • Fax: (702) 307-2691

FOR LABORATORY USE ONLY

P.O. #:

Logged By: AMK Date: 9/13/13

Method of Transport
Client ☐
ATL ☐
CA OverN ☐
FedEx ☐
Other: GSO

Sample Condition Upon Receipt
1. CHILLED 5.8°C ICE IR#2 Y☑ N☐
2. HEADSPACE (VOA) Y☐ N☐
3. CONTAINER INTACT Y☐ N☐
4. SEALED Y☐ N☐
5. # OF SPLS MATCH COC Y☐ N☐
6. PRESERVED Y☐ N☐

Client: Geocon
Attention: Rick Day, Luanne Beadle, Livermore

Address: 6671 Brisa Street
City: Livermore State: CA Zip Code: 94550

Tel: 925-371-5900
Fax: 925-371-5915

Project Name: Caltrans - Cedar Street Stockpiles

Project #: E8560-02-55

Sampler: I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

(Printed Name) Chris Merritt
(Signature) CHRIS MERRITT

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
C. MERRITT Chris Merritt	9-12-13		GSO Delivery		
				13SEPT13	1000

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
Chris Merritt
Print Name Date
C. MERRITT
Signature

Send Report To:
Attn: As Above
Co:
Addr:
City: State: Zip:

Bill To:
Attn: As Above
Co:
Addr:
City: State: Zip:

Special Instructions/Comments:
Please hold all samples until notified. Analyses not determined yet.

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

QA / QC
RTNE ☐
CT ☑
SWRCB ☐ Logcode
OTHER

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample Description Sample ID / Location	Date	Time	8260B (Volatiles)	8015M - GRO	8015B - DRO/ORO (TPHd/mo)	EPA 6010 - Lead	EPA 7420 - CAM 17 Metals	EPA 7196 - Chromium VI	EPA 8310 - PAHs	EPA 8081/8082 - Pesticides; PCBs	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	N011008-1	H1-0	9/11/2013	950			X	X			X	X	X				E	1	T M	C	HOLD
	-(	H1-2	9/11/2013	955	X	X			X				X				E	1	T M	C	
	-	H1-4	9/11/2013	1000	X	X			X	X			X				E	1	T M	C	
	-	H2-0	9/11/2013	1005					X				X				E	1	T M	C	
	-	H2-2	9/11/2013	1010	X	X			X			X	X				E	1	T M	C	
	-	H2-4	9/11/2013	1015	X	X		X					X				E	1	T M	C	
	-	H3-0	9/11/2013	1020					X	X			X				E	1	T M	C	
	-	H3-2	9/11/2013	1025	X	X		X					X				E	1	T M	C	
	-	H3-4	9/11/2013	1030	X	X			X			X	X				E	1	T M	C	
	-10	H4-0	9/11/2013	1040				X					X				E	1	T M	C	

- TAT starts 8AM the following day if samples received after 3 PM

TAT: ☐ A = Overnight ≤ 24 hrs ☐ B = Emergency Next Workday ☐ C = Critical 2 Workdays ☐ D = Urgent 3 Workdays ☐ E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
H=HCl N=HNO_3 S=H_2SO_4 C=4°C
Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

CHAIN OF CUSTODY RECORD

Page 2 of 3

Page___ of ___

Advanced Technology Laboratories INC.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659 • Fax: (702) 307-2691

FOR LABORATORY USE ONLY

P.O. #: _____

Logged By: _____ Date: _____

Method of Transport
Client ☐
ATL ☐
CA OverN ☐
FedEx ☐
Other: GSO

Sample Condition Upon Receipt
1. CHILLED 3.8 1.2 Y ☑ N ☐
2. HEADSPACE (VOA) Y ☐ N ☐
3. CONTAINER INTACT Y ☐ N ☐
4. SEALED Y ☐ N ☐
5. # OF SPLS MATCH COC Y ☐ N ☐
6. PRESERVED Y ☐ N ☐

Client: Geocon
Attention: Rick Day, Luanne Beadle, Livermore
Address: 6671 Brisa Street
City: Livermore State: CA Zip Code: 94550
Tel: 925-371-5900
Fax: 925-371-5915

Project Name: Caltrans - Cedar Street Stockpiles
Project #: E8560-02-55
Sampler: *I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.*
(Printed Name) Chris Merritt
CHRIS MERRITT

Relinquished by: (Signature and Printed Name) C. MERRITT Chris Merritt Date: 9-12-13 Time: GSO Received by: (Signature and Printed Name) Date: Time:

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: 13SEPT13 Time: 1000

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
Chris Merritt
Print Name Date
C. MERRITT
Signature

Send Report To:
Attn: As Above
Co:
Addr:
City: State: Zip:

Bill To:
Attn: As Above
Co:
Addr:
City: State: Zip:

Special Instructions/Comments:
See p. 1

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

Q A / Q C
RTNE ☐
CT ☑
SWRCB ☐
Logcode_____
OTHER _____

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample Description Sample ID / Location	Date	Time	8260B (Volatiles)	8015M - GRO	8015B - DRO/ORO (TPHd/mo)	EPA 6010 - Lead	EPA 7420 - CAM 17 Metals	EPA 7196 - Chromium VI	EPA 8310 - PAHs	EPA 8081/8082 - Pesticides; PCBs	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type		PRESERVATION	REMARKS
	N011008-11	H4-2	9/11/2013	1045	X	X	X	X			X	X	X				E	1	T	M	C	HOLD
	-	H4-4	9/11/2013	1050	X	X	|	X			|		X				E	1	T	M	C	
	-	G1-0	9/11/2013	1130			|		X		|		X				E	1	T	M	C	|
	-	G1-4	9/11/2013	1135	X	X	|	X			|		X				E	1	T	M	C	|
	-	G1-8	9/11/2013	1140	X	X	|		X		|	X	X				E	1	T	M	C	|
	-	G2-0	9/11/2013	1145			|	X			|	X	X				E	1	T	M	C	|
	-	G2-4	9/11/2013	1150			|	X			|		X				E	1	T	M	C	|
	-	G2-8	9/11/2013	1155			|	X			|		X				E	1	T	M	C	|
	-	G3-0	9/11/2013	1210			|		X		|		X				E	1	T	M	C	|
	-20	G3-4	9/11/2013	1215	X	X	↓		X		↓	X	X				E	1	T	M	C	↓

- TAT starts 8AM the following day if samples received after 3 PM

TAT: ☐ A = Overnight ≤ 24 hrs ☐ B = Emergency Next Workday ☐ C = Critical 2 Workdays ☐ D = Urgent 3 Workdays ☐ E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
H=HCl N=HNO_3 S=H_2SO_4 C=4°C
Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

CHAIN OF CUSTODY RECORD

Page 2 of 3
~~Page ___ of ___~~

Advanced Technology Laboratories INC.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659 ● Fax: (702) 307-2691

FOR LABORATORY USE ONLY

P.O. #: ______
Logged By: ______ Date: ______

Method of Transport
Client ☐
ATL ☐
CA OverN ☐
FedEx ☐
Other: GSO

Sample Condition Upon Receipt
1. CHILLED 3.8 1R2 Y ☑ N ☐
2. HEADSPACE (VOA) Y ☐ N ☐
3. CONTAINER INTACT Y ☐ N ☐
4. SEALED Y ☐ N ☐
5. # OF SPLS MATCH COC Y ☐ N ☐
6. PRESERVED Y ☐ N ☐

Client: **Geocon**
Attention: **Rick Day, Luanne Beadle, Livermore**
Address: **6671 Brisa Street**
City: **Livermore** State: **CA** Zip Code: **94550**
Tel: **925-371-5900**
Fax: **925-371-5915**

Project Name: **Caltrans - Cedar Street Stockpiles**
Project #: **E8560-02-55**
Sampler: *I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.*
(Printed Name) **Chris Merritt**
CHRIS MERRITT

Relinquished by: (Signature and Printed Name) C. MERRITT Chris Merritt Date: 9-12-13 Time: GSO
Received by: (Signature and Printed Name) Date: Time:

Relinquished by: (Signature and Printed Name) Date: Time:
Received by: (Signature and Printed Name) Date: 13SEPT13 Time: 1000

Relinquished by: (Signature and Printed Name) Date: Time:
Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
Chris Merritt
Print Name Date
C MERRITT
Signature

Send Report To:
Attn: **As Above**
Co:
Addr:
City: State: Zip:

Bill To:
Attn: **As Above**
Co:
Addr:
City: State: Zip:

Special Instructions/Comments:
See p.1

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

QA / QC
RTNE ☐
CT ☑
SWRCB ☐
Logcode ______
OTHER ______

LAB USE ONLY: Batch #:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260B (Volatiles)	8015M - GRO	8015B - DRO/ORO (TPHd/mo)	EPA 6010 - Lead	EPA 7420 - CAM 17 Metals	EPA 7196 - Chromium VI	EPA 8310 - PAHs	EPA 8081/8082 - Pesticides; PCBs							SOIL	WATER	GROUND WATER	WASTEWATER				TAT	Container(s) #	Container(s) Type		PRESERVATION	REMARKS
	N011008-21	G3-8	9/11/2013	1220	X	X	X	X			X								X							E	1	T	M	C	HOLD
	-	G4-0	9/11/2013	1245			↓	↓			↓								X							E	1	T	M	C	↓
	-	G4-4	9/11/2013	1250			↓	↓			↓	X							X							E	1	T	M	C	↓
	-	G4-8	9/11/2013	1255			↓	↓			↓								X							E	1	T	M	C	↓
	-	G5-0	9/11/2013	1305			↓	↓			↓								X							E	1	T	M	C	↓
	-	G5-4	9/11/2013	1345	X	X	↓		X		↓	X							X							E	1	T	M	C	↓
	-27	G5-8	9/11/2013	1400	X	X	↓		X		↓								X							E	1	T	M	C	↓
																										E	1	T	M	C	↓
																										E	1	T	M	C	↓
																										E	1	T	M	C	↓

- TAT starts 8AM the following day if samples received after 3 PM

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Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
H=HCl N=HNO_3 S=H_2SO_4 C=4°C
Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

CHAIN OF CUSTODY RECORD

Page 1 of 3

Page ___ of ___

Advanced Technology Laboratories INC.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659 • Fax: (702) 307-2691

FOR LABORATORY USE ONLY

P.O. #: ________

Logged By: ________ Date: ________

Method of Transport
Client ☐
ATL ☐
CA OverN ☐
FedEx ☐
Other: GSO

Sample Condition Upon Receipt
1. CHILLED Y ☐ N ☐
2. HEADSPACE (VOA) Y ☐ N ☐
3. CONTAINER INTACT Y ☐ N ☐
4. SEALED Y ☐ N ☐
5. # OF SPLS MATCH COC Y ☐ N ☐
6. PRESERVED Y ☐ N ☐

Client: Geocon
Attention: Rick Day, Luanne Beadle, Livermore
Address: 6671 Brisa Street
City: Livermore State: CA Zip Code: 94550
Tel: 925-371-5900
Fax: 925-371-5915

Project Name: Caltrans - Cedar Street Stockpiles
Project #: E8560-02-55

Sampler: *I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.*
(Printed Name) Chris Merritt
(Signature) Chris Merritt

Relinquished by: (Signature and Printed Name) C. MERRITT Chris Merritt	Date: 9-12-13	Time:	Received by: (Signature and Printed Name) GSO Delivery	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
Chris Merritt
Print Name Date
C. MERRITT
Signature

Send Report To:
Attn: As Above
Co:
Addr:
City: State: Zip:

Bill To:
Attn: As Above
Co:
Addr:
City: State: Zip:

Special Instructions/Comments:
Please hold all samples until notified. Analyses not determined yet.

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

QA / QC
RTNE ☐
CT ☑
SWRCB ☐ Logcode____
OTHER ____

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample Description Sample ID / Location	Date	Time	8260B (Volatiles)	8015M - GRO	8015B - DRO/ORO (TPHd/mo)	EPA 6010 - Lead	EPA 7420 - CAM 17 Metals	EPA 7196 - Chromium VI	EPA 8310 - PAHs	EPA 8081/8082 - Pesticides; PCBs	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	N011008	H1-0	9/11/2013	950			X	X			X	X	X				E	1	T M	C	HOLD
		H1-2	9/11/2013	955	X	X	↓		X		↓		X				E	1	T M	C	
		H1-4	9/11/2013	1000	X	X	↓		X	X	↓		X				E	1	T M	C	↓
		H2-0	9/11/2013	1005			↓		X		↓		X				E	1	T M	C	↓
		H2-2	9/11/2013	1010	X	X	↓		X		↓	X	X				E	1	T M	C	↓
		H2-4	9/11/2013	1015	X	X	↓	X			↓		X				E	1	T M	C	↓
		H3-0	9/11/2013	1020			↓		X	X	↓		X				E	1	T M	C	↓
		H3-2	9/11/2013	1025	X	X	↓	X			↓		X				E	1	T M	C	↓
		H3-4	9/11/2013	1030	X	X	↓		X		↓	X	X				E	1	T M	C	↓
		H4-0	9/11/2013	1040			↓	X			↓		X				E	1	T M	C	↓

- TAT starts 8AM the following day if samples received after 3 PM

TAT: ☐ A = Overnight ≤ 24 hrs ☐ B = Emergency Next Workday ☐ C = Critical 2 Workdays ☐ D = Urgent 3 Workdays ☐ E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
H=HCl N=HNO_3 S=H_2SO_4 C=4°C
Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

CHAIN OF CUSTODY RECORD

Page 2 of 3

Advanced Technology Laboratories INC.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659 • Fax: (702) 307-2691

FOR LABORATORY USE ONLY

P.O. #: ____
Logged By: ____ Date: ____

Method of Transport
- Client ☐
- ATL ☐
- CA OverN ☐
- FedEx ☐
- Other: GSO

Sample Condition Upon Receipt
1. CHILLED Y ☐ N ☐
2. HEADSPACE (VOA) Y ☐ N ☐
3. CONTAINER INTACT Y ☐ N ☐
4. SEALED Y ☐ N ☐
5. # OF SPLS MATCH COC Y ☐ N ☐
6. PRESERVED Y ☐ N ☐

Client: **Geocon**
Attention: **Rick Day, Luanne Beadle, Livermore**
Address: **6671 Brisa Street**
City: **Livermore** State: **CA** Zip Code: **94550**
Tel: **925-371-5900**
Fax: **925-371-5915**

Project Name: **Caltrans - Cedar Street Stockpiles**
Project #: **E8560-02-55**
Sampler: *I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.*
(Printed Name) **Chris Merritt** CHRIS MERRITT

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
C. MERRITT Chris Merritt	9-12-13	GSO			

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
Chris Merritt
Print Name
C. MERRITT
Signature
Date

Send Report To:
Attn: **As Above**
Co:
Addr:
City: State: Zip:

Bill To:
Attn: **As Above**
Co:
Addr:
City: State: Zip:

Special Instructions/Comments:
See p1

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

QA / QC
- RTNE ☐
- CT ☑
- SWRCB ☐ Logcode ____
- OTHER ____

Circle or Add Analysis(es) Requested; SPECIFY APPROPRIATE MATRIX

LAB USE ONLY: Batch #:

ITEM	Lab No.	Sample ID / Location	Date	Time	8260B (Volatiles)	8015M - GRO	8015B - DRO/ORO (TPHd/mo)	EPA 6010 - Lead	EPA 7420 - CAM 17 Metals	EPA 7196 - Chromium VI	EPA 8310 - PAHs	EPA 8081/8082 - Pesticides; PCBs							SOIL	WATER	GROUND WATER	WASTEWATER			TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
		H4-2	9/11/2013	1045	X	X	X	X			X	X							X						E	1	T M	C	HOLD
		H4-4	9/11/2013	1050	X	X	↓	X			↓								X						E	1	T M	C	↓
		G1-0	9/11/2013	1130			↓		X		↓								X						E	1	T M	C	↓
		G1-4	9/11/2013	1135	X	X	↓	X			↓	JB							X						E	1	T M	C	↓
		G1-8	9/11/2013	1140	X	X	↓		X	X	↓	X							X						E	1	T M	C	↓
		G2-0	9/11/2013	1145			↓	X			↓	X							X						E	1	T M	C	↓
		G2-4	9/11/2013	1150			↓	X			↓								X						E	1	T M	C	↓
		G2-8	9/11/2013	1155			↓	X			↓								X						E	1	T M	C	↓
		G3-0	9/11/2013	1210			↓		X		↓								X						E	1	T M	C	↓
		G3-4	9/11/2013	1215	X	X	↓		X		↓	X							X						E	1	T M	C	↓

- TAT starts 8AM the following day if samples received after 3 PM

TAT: ☐ A = Overnight ≤ 24 hrs ☐ B = Emergency Next Workday ☐ C = Critical 2 Workdays ☐ D = Urgent 3 Workdays ☐ E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

CHAIN OF CUSTODY RECORD

Page 3 of 3

Advanced Technology Laboratories INC.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659 • Fax: (702) 307-2691

FOR LABORATORY USE ONLY

P.O. #: ____________

Logged By: ____________ Date: ____________

Method of Transport
- Client ☐
- ATL ☐
- CA OverN ☐
- FedEx ☐
- Other: GSO

Sample Condition Upon Receipt
- 1. CHILLED Y ☐ N ☐
- 2. HEADSPACE (VOA) Y ☐ N ☐
- 3. CONTAINER INTACT Y ☐ N ☐
- 4. SEALED Y ☐ N ☐
- 5. # OF SPLS MATCH COC Y ☐ N ☐
- 6. PRESERVED Y ☐ N ☐

Client: Geocon

Attention: Rick Day, Luanne Beadle, Livermore

Address: 6671 Brisa Street

City: Livermore State: CA Zip Code: 94550

Tel: 925-371-5900

Fax: 925-371-5915

Project Name: Caltrans - Cedar Street Stockpiles

Project #: E8560-02-55

Sampler: *I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.*

(Printed Name) Chris Merritt

CHRIS MERRITT

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
C. MERRITT Chris Merritt	9-12-13	GSO			

I hereby authorize ATL to perform the work indicated below:

Project Mgr /Submitter: Chris Merritt

Print Name

C. MERRITT

Signature

Date

Send Report To:
Attn: As Above
Co:
Addr:
City: State: Zip:

Bill To:
Attn: As Above
Co:
Addr:
City: State: Zip:

Special Instructions/Comments:

See p. 1

Sample/Records - Archival & Disposal

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Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

QA / QC
- RTNE ☐
- CT ☑
- SWRCB ☐ Logcode ______
- OTHER ______

LAB USE ONLY: Batch #:

ITEM	Lab No.	Sample ID / Location	Date	Time	8260B (Volatiles)	8015M - GRO	8015B - DRO/ORO (TPHd/mo)	EPA 6010 - Lead	EPA 7420 - CAM 17 Metals	EPA 7196 - Chromium VI	EPA 8310 - PAHs	EPA 8081/8082 - Pesticides; PCBs	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
		G3-8	9/11/2013	1220	X	X	X	X			X		X				E	1	T M	C	HOLD
		G4-0	9/11/2013	1245			↓	↓			↓		X				E	1	T M	C	↓
		G4-4	9/11/2013	1250			↓	↓			↓	X	X				E	1	T M	C	↓
		G4-8	9/11/2013	1255			↓	↓			↓		X				E	1	T M	C	↓
		G5-0	9/11/2013	1305			↓	↓		X	↓		X				E	1	T M	C	↓
		G5-4	9/11/2013	1345	X	X	↓		X		↓	X	X				E	1	T M	C	↓
		G5-8	9/11/2013	1400	X	X	↓		X		↓		X				E	1	T M	C	↓
																	E	1	T M	C	↓
																	E	1	T M	C	↓
																	E	1	T M	C	↓

- TAT starts 8AM the following day if samples received after 3 PM

TAT: ☐ A = Overnight ≤ 24 hrs ☐ B = Emergency Next Workday ☐ C = Critical 2 Workdays ☐ D = Urgent 3 Workdays ☐ E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
H=HCl N=HNO_3 S=H_2SO_4 C=4°C
Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

Advanced Technology Laboratories, Inc.

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 9/13/2013 Workorder: N011008

Rep sample Temp (Deg C): 5.8 IR Gun ID: 2

Temp Blank: ☐ Yes ☑ No

Carrier name: GSO

Last 4 digits of Tracking No.: 2611 Packing Material Used: None

Cooling process: ☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☑	No ☐	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☐	No ☐	NA ☑
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments:

Checklist Completed By: MBC MBC 9/16/2013

Reviewed By:

GSO
GOLDEN STATE OVERNIGHT

< WebShip > > > > >
800-322-5555 www.gso.com

Ship From:
GEOCON - LIVERMORE OFFICE
GEOCON, INC.
6671 BRISA STREET
LIVERMORE, CA 94550

Ship To:
SAMPLE RECEIVING
ADVANCED TECHNOLOGY LABS -
LAS VEGAS
3151 W. POST ROAD
LAS VEGAS, NV 89118

COD:
$0.00

Reference:
E8560-02-55

Delivery Instructions:
ONE LARGE AND HEAVY ICE CHEST

Signature Type:
SIGNATURE REQUIRED

Tracking #: 522732611

PDS

LVS

LAS VEGAS

D89103A

15983573

Print Date : 09/12/13 15:47 PM

Package 1 of 1

Send Label To Printer ☑ Print All Edit Shipment Finish

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

STEP 1 - Use the "Send Label to Printer" button on this page to print the shipping label on a laser or inkjet printer.
STEP 2 - Fold this page in half.
STEP 3 - Securely attach this label to your package, do not cover the barcode.
STEP 4 - Request an on-call pickup for your package, if you do not have scheduled daily pickup service or Drop-off your package at the nearest GSO drop box. Locate nearest GSO dropbox locations using this link.

ADDITIONAL OPTIONS:

Send Label Via Email Create Return Label

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all the service terms and conditions described in this section.
Our liability for loss or damage to any package is limited to your actual damages or $100 whichever is less, unless you pay for and declare a higher authorized value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your loss or damage. In any event, we will not be liable for any damage, whether direct, incidental, special or consequential, in excess of the declared value of a shipment whether or not we had knowledge that such damage might be incurred including but not limited to loss of income or profit. We will not be liable for your acts or omissions, including but not limited to improper or insufficient packaging, securing, marking or addressing. Also, we will not be liable if you or the recipient violates any of the terms of our agreement. We will not be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, act of public enemies, war, strikes, or civil commotion. The highest declared value for our GSO Priority Letter or GSO Priority Package is $500. For other shipments the highest declared value is $10,000 unless your package contains items of "extraordinary value", in which case the highest declared value we allow is $500. Items of "extraordinary value" include, but or not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.

ATLInc Reports

From:	Luann Beadle <beadle@geoconinc.com>
Sent:	Monday, September 16, 2013 2:32 PM
To:	Advanced Technology Labs, Inc.
Subject:	Caltrans TO-55 Cedar St
Attachments:	MX-5111N_20130916_142847.pdf

Hi Marlon and Glen,

Attached is a scan of the COC's for this project. I noted necessary changes in red ink and initialed nearby. Please proceed with the analyses as shown here. The TAT is still standard. If you could, please send results to Rick Day as well. I may be on vacation when they come in, as noted below.

Thank you for your patience. I appreciate it.

Sincerely,
Luann

I will be on vacation September 23rd through 27th . If you need assistance during that time, please contact Rick Day at (925) 961-5270.

Luann Beadle | Senior Staff Scientist
Geocon Consultants, Inc.
6671 Brisa Street, Livermore, CA 94550
Office: 925.371.5900, ext. 403 Direct: 925.961.5272 Mobile: 925.395.1669
beadle@geoconinc.com

October 07, 2013

Rick Day
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

CA-ELAP No.:2676
NV Cert. No.:NV-009222007A

Workorder No.: N011008

RE: Caltrans - Cedar Street Stockpiles, E8560-02-55

Attention: Rick Day

Enclosed are the results for sample(s) received on September 13, 2013 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

for

Jose Tenorio Jr.
Laboratory Director

Advanced Technology Laboratories, Inc. **Date:** *07-Oct-13*

CLIENT:	Geocon Consultants, Inc.
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55
Lab Order:	N011008

CASE NARRATIVE

Analytical Comments for EPA 6010B_STLC:

Matrix Spike Duplicate (MSD) on QC sample N011008-003A-MSD is outside recovery criteria for Lead possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ANALYTICAL RESULTS

Print Date: *07-Oct-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H1-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:00:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-003		

Analyses	**Result**	**PQL**	**Qual**	**Units**	**DF**	**Date Analyzed**
ICP METALS BY STLC						
WET/ EPA 6010B						
RunID: ICP2_131004A QC Batch: R90596 PrepDate: Analyst: **CEI**						
Lead	30	0.050		mg/L	5	10/4/2013 08:41 PM

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *07-Oct-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G3-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 12:15:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-020		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
WET/ EPA 6010B						
RunID: ICP2_131004A	QC Batch: R90596			PrepDate:		Analyst: **CEI**
Chromium	0.068	0.050		mg/L	5	10/4/2013 09:09 PM

Qualifiers:				
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G4-8
Lab Order:	N011008	**Collection Date:**	9/11/2013 12:55:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-024		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
WET/ EPA 6010B						
RunID: ICP2_131004A QC Batch: R90596 PrepDate: Analyst: **CEI**						
Lead	8.2	0.050		mg/L	5	10/4/2013 09:44 PM

Qualifiers:			
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_ST

Sample ID: **MB1-R90596** SampType: **MBLK** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **PBS** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654913**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.000252	0.010									
Lead	ND	0.010									

Sample ID: **MB1-43998** SampType: **MBLK** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **PBS** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654914**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.000602	0.010									
Lead	ND	0.010									

Sample ID: **MB2-43998** SampType: **MBLK** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **PBS** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654915**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.000612	0.010									
Lead	ND	0.010									

Sample ID: **LCS1-R90596** SampType: **LCS** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **LCSS** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654916**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.490	0.010	0.5000	0	98.1	85	115				
Lead	0.490	0.010	0.5000	0	98.0	85	115				

Sample ID: **N011008-003A-DUP** SampType: **DUP** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **ZZZZZZ** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654918**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_ST

Sample ID: **N011008-003A-DUP** SampType: **DUP** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **ZZZZZZ** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654918**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.499	0.050						0.5266	5.33	20	
Lead	26.080	0.050						30.14	14.4	20	

Sample ID: **N011008-003A-MS** SampType: **MS** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **ZZZZZZ** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654920**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	2.859	0.050	2.500	0.5266	93.3	75	125				
Lead	32.151	0.050	2.500	30.14	80.5	75	125				

Sample ID: **N011008-003A-MSD** SampType: **MSD** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **ZZZZZZ** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654921**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	2.847	0.050	2.500	0.5266	92.8	75	125	2.859	0.420	20	
Lead	31.908	0.050	2.500	30.14	70.8	75	125	32.15	0.759	20	S

Sample ID: **N011009-016A-DUP** SampType: **DUP** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **ZZZZZZ** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654934**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.163	0.050						0.1714	5.04	20	
Lead	1.365	0.050						1.441	5.44	20	

Sample ID: **N011009-016A-MS** SampType: **MS** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **ZZZZZZ** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654937**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	2.685	0.050	2.500	0.1714	101	75	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_ST

Sample ID: **N011009-016A-MS** SampType: **MS** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **ZZZZZZ** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654937**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.983	0.050	2.500	1.441	102	75	125				

Sample ID: **MB2-R90596** SampType: **MBLK** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **PBS** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654949**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	0.010									
Lead	ND	0.010									

Sample ID: **MB1-43999** SampType: **MBLK** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **PBS** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654950**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.000597	0.010									
Lead	ND	0.010									

Sample ID: **MB2-43999** SampType: **MBLK** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **PBS** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654951**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.000528	0.010									
Lead	ND	0.010									

Sample ID: **LCS1-R90596** SampType: **LCS** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **LCSS** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654952**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.493	0.010	0.5000	0	98.6	85	115				
Lead	0.492	0.010	0.5000	0	98.4	85	115				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_ST

Sample ID: **N011009-044A-DUP** SampType: **DUP** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **ZZZZZZ** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654954**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.263	0.050						0.2266	15.0	20	
Lead	4.263	0.050						3.958	7.43	20	

Sample ID: **N011009-044A-MS** SampType: **MS** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **ZZZZZZ** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/5/2013** SeqNo: **1654956**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	2.497	0.050	2.500	0.2266	90.8	75	125				
Lead	6.184	0.050	2.500	3.958	89.1	75	125				

Sample ID: **N011009-044A-MSD** SampType: **MSD** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **ZZZZZZ** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/5/2013** SeqNo: **1654957**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	2.509	0.050	2.500	0.2266	91.3	75	125	2.497	0.469	20	
Lead	6.183	0.050	2.500	3.958	89.0	75	125	6.184	0.0287	20	

Sample ID: **N011009-088A-DUP** SampType: **DUP** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **ZZZZZZ** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/5/2013** SeqNo: **1654970**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.199	0.050						0.2224	11.3	20	
Lead	2.113	0.050						2.815	28.5	20	R

Sample ID: **N011009-088A-MS** SampType: **MS** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **ZZZZZZ** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/5/2013** SeqNo: **1654975**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	2.452	0.050	2.500	0.2224	89.2	75	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_ST

Sample ID: **N011009-088A-MS**	SampType: **MS**	TestCode: **6010_ST**	Units: **mg/L**	Prep Date:	RunNo: **90596**
Client ID: **ZZZZZZ**	Batch ID: **R90596**	TestNo: **WET/ EPA 60**		Analysis Date: **10/5/2013**	SeqNo: **1654975**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.002	0.050	2.500	2.815	87.5	75	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Nancy Sibucao

From: Luann Beadle [beadle@geoconinc.com]
Sent: Tuesday, October 01, 2013 1:51 PM
To: Advanced Technology Labs, Inc.
Subject: Lab Order N011009 TO-55 Cedar St

Hi ATL,

Please run WET analyses for the following samples, as indicated:

N011009-030A	B5-5	Arsenic
N011009-005A	A2-4	Chromium
N011009-009A	A3-7.5	Chromium
N011008-020A	G3-4	Chromium
N011009-006A	A2-7.5	Chromium
N011009-074A	C3-6	Chromium
N011009-010A	A4-0	Lead
N011009-073A	C3-3	Lead
N011009-001A	A1-0	Lead
N011009-007A	A3-0	Lead
N011009-021A	B3-0	Lead
N011009-058A	E1-3	Lead
N011009-064A	E3-3	Lead
N011009-074A	C3-6	Lead
N011009-017A	B2-0	Lead
N011009-016A	B1-15.5	Lead
N011009-004A	A2-0	Lead
N011009-052A	D3-4	Lead
N011009-044A	B8-15.5	Lead
N011009-065A	E3-6	Lead
N011009-088A	E4-6	Lead
N011009-	E4-3	Lead

087A		
N011009-047A	D1-7.5	Lead
N011009-006A	A2-7.5	Lead
N011009-081A	D6-3	Lead
N011009-039A	B7-10	Lead
N011008-024A	G4-8	Lead
N011009-038A	B7-5	Lead
N011009-022A	B3-5	Lead
N011009-030A	B5-5	Lead
N011009-042A	B8-5	Lead
N011009-041A	B8-0	Lead
N011009-034A	B6-5	Lead
N011008-003A	H1-4	Lead

And TCLP on:

N011009-086A	E4-0	Lead

Regular TAT please.

Thank you,
Luann

Luann Beadle | Senior Staff Scientist
Geocon Consultants, Inc.
6671 Brisa Street, Livermore, CA 94550
Office: 925.371.5900, ext. 403 Direct: 925.961.5272 Mobile: 925.395.1669
beadle@geoconinc.com

November 01, 2013

Rick Day
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

CA-ELAP No.:2676
NV Cert. No.:NV-009222007A

Workorder No.: N011008

RE: Caltrans - Cedar Street Stockpiles, E8560-02-55

Attention: Rick Day

Enclosed are the results for sample(s) received on September 13, 2013 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

for Nancy

Jose Tenorio Jr.
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories - Las Vegas.

Advanced Technology Laboratories, Inc. **Date:** *01-Nov-13*

CLIENT:	Geocon Consultants, Inc.	
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**CASE NARRATIVE**
Lab Order:	N011008	

Analytical Comments for EPA 1311/6010B:

RPD for sample duplicate N011008-003 is outside criteria ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	H1-4
Lab Order:	N011008	**Collection Date:**	9/11/2013 10:00:00 AM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-003		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
LEAD BY TCLP EXTRACTION						
	EPA 3010A			**EPA 1311/ 6010B**		
RunID: ICP2_131031B	QC Batch: 44210			PrepDate: 10/29/2013		Analyst: **JAA**
Lead	0.66	0.25		mg/L	1	10/31/2013 11:09 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	G4-8
Lab Order:	N011008	**Collection Date:**	9/11/2013 12:55:00 PM
Project:	Caltrans - Cedar Street Stockpiles, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011008-024		

LEAD BY TCLP EXTRACTION

EPA 3010A **EPA 1311/ 6010B**

RunID: ICP2_131031B QC Batch: 44210 PrepDate: 10/29/2013 Analyst: **JAA**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	ND	0.25		mg/L	1	10/31/2013 11:53 AM

Qualifiers:				
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_TCPB

Sample ID: **MB-44210** SampType: **MBLK** TestCode: **6010_TCPB** Units: **mg/L** Prep Date: **10/29/2013** RunNo: **90984**
Client ID: **PBS** Batch ID: **44210** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **10/31/2013** SeqNo: **1673429**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **MB1-44202 TCLP** SampType: **MBLK** TestCode: **6010_TCPB** Units: **mg/L** Prep Date: **10/29/2013** RunNo: **90984**
Client ID: **PBS** Batch ID: **44210** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **10/31/2013** SeqNo: **1673430**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **MB2-44202 TCLP** SampType: **MBLK** TestCode: **6010_TCPB** Units: **mg/L** Prep Date: **10/29/2013** RunNo: **90984**
Client ID: **PBS** Batch ID: **44210** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **10/31/2013** SeqNo: **1673431**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-44210** SampType: **LCS** TestCode: **6010_TCPB** Units: **mg/L** Prep Date: **10/29/2013** RunNo: **90984**
Client ID: **LCSS** Batch ID: **44210** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **10/31/2013** SeqNo: **1673432**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.531	0.25	0.5000	0	106	85	115				

Sample ID: **N011008-003A-DUP** SampType: **DUP** TestCode: **6010_TCPB** Units: **mg/L** Prep Date: **10/29/2013** RunNo: **90984**
Client ID: **ZZZZZZ** Batch ID: **44210** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **10/31/2013** SeqNo: **1673438**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.515	0.25						0.6632	25.2	20	R

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011008
Project: Caltrans - Cedar Street Stockpiles, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_TCPB

Sample ID: **N011008-003A-MS** SampType: **MS** TestCode: **6010_TCPB** Units: **mg/L** Prep Date: **10/29/2013** RunNo: **90984**
Client ID: **ZZZZZZ** Batch ID: **44210** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **10/31/2013** SeqNo: **1673443**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.083	0.25	0.5000	0.6632	84.0	75	125				

Sample ID: **N011008-003A-MSD** SampType: **MSD** TestCode: **6010_TCPB** Units: **mg/L** Prep Date: **10/29/2013** RunNo: **90984**
Client ID: **ZZZZZZ** Batch ID: **44210** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **10/31/2013** SeqNo: **1673444**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.123	0.25	0.5000	0.6632	92.0	75	125	1.083	3.65	20	

Sample ID: **N011009-081A-DUP** SampType: **DUP** TestCode: **6010_TCPB** Units: **mg/L** Prep Date: **10/29/2013** RunNo: **90984**
Client ID: **ZZZZZZ** Batch ID: **44210** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **10/31/2013** SeqNo: **1673459**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0.03518	0	20	

Sample ID: **N011009-081A-MS** SampType: **MS** TestCode: **6010_TCPB** Units: **mg/L** Prep Date: **10/29/2013** RunNo: **90984**
Client ID: **ZZZZZZ** Batch ID: **44210** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **10/31/2013** SeqNo: **1673460**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.541	0.25	0.5000	0.03518	101	75	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Nancy Sibucao

From:	Luann Beadle [beadle@geoconinc.com]
Sent:	Friday, October 25, 2013 7:45 AM
To:	Advanced Technology Labs, Inc.
Subject:	TO-55 Cedar St Lab Orders N1011008 and N011009

Hi ATL,

Please run TCLP lead on the following samples from these two lab orders:

D6-3
D1-7.5
D3-4
A2-7.5
B8-5
B7-10
G4-8
B5-5
B8-0
B7-5
H1-4

Regular TAT please.
Thanks,
Luann

Luann Beadle | Senior Staff Scientist
Geocon Consultants, Inc.
6671 Brisa Street, Livermore, CA 94550
Office: 925.371.5900, ext. 403 Direct: 925.961.5272 Mobile: 925.395.1669
beadle@geoconinc.com

September 25, 2013

Rebecca Silva
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
TEL: (916) 852-9118
FAX: (916) 852-9132

CA-ELAP No.:2676
NV Cert. No.:NV-009222007A

Workorder No.: N011009

RE: 800 Cedar St, E8560-02-55

Attention: Rebecca Silva

Enclosed are the results for sample(s) received on September 13, 2013 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

Jose Tenorio Jr.
Laboratory Director

CLIENT:	Geocon Consultants, Inc.
Project:	800 Cedar St, E8560-02-55
Lab Order:	N011009

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Samples were analyzed within method holding time.

Analytical Comments for EPA 6010B:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

RPD for Matrix Spike(MS) and Matrix Spike Duplicate(MSD) is outside criteria for some analytes ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

RPD for sample duplicate is outside criteria for some analytes ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Method Blanks for Batch 43923 has hit above the reporting limit for Zinc but less than 1/10 of the amount measured in sample.

Analytical Comments for EPA 7196:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 8015B DRO:

Surrogate recovery outside recovery criteria for sample N011009-048 possibly due to matrix interference. Sample extract was black and viscous.

RPDs for sample duplicates N011008-024ADUP , N011009-04ADUP, N011009-049ADUP are outside criteria possibly due to non-homogeneity of sample.

RPD for Matrix Spike(MS) and Matrix Spike Duplicate(MSD) on N011009-075A-MS/MSD is outside criteria ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Analytical Comments for EPA 8081A:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

RPD for sample duplicate N011009-006 is outside criteria for gamma-Chlordane ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Surrogate Tetrachloro-m-xylene recovery bias low on sample N011009-002 possibly due to matrix interference. The other surrogate was recovered within control limits.

Analytical Comments for EPA 8082:

Surrogate Tetrachloro-m-xylene recovery bias low on sample N011009-002 possibly due to matrix interference. The other surrogate was recovered within control limits.

Analytical Comments for EPA 8260B:

Surrogate Toluene-d8 recovery bias low on sample N011009-039 possibly due to matrix interference. The other surrogates were recovered within control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

RPD for Matrix Spike(MS) and Matrix Spike Duplicate(MSD) is outside criteria for some analytes ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Analytical Comments for EPA 8270C_SIM:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

RPD for Matrix Spike(MS) and Matrix Spike Duplicate(MSD) is outside criteria for some analytes ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

RPD for sample duplicates are outside criteria for some analytes ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Internal Standards Perylene-d12 and Chrysene-d12 low bias on most of the samples possibly due to matrix interference. Samples were analyzed with dilution and internal standard met method criteria. Affected analytes for these failed internal standards were reported at a dilution that meet internal standard recovery limit.

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A1-0
Lab Order:	N011009	**Collection Date:**	9/11/2013 9:55:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-001		

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC3_130918A QC Batch: 43899 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	53	1.0		mg/Kg	1	9/18/2013 07:07 PM
ORO	140	1.0		mg/Kg	1	9/18/2013 07:07 PM
Surr: p-Terphenyl	68.9	59-127		%REC	1	9/18/2013 07:07 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43890 PrepDate: 9/17/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	0.16	0.10		mg/Kg	1	9/18/2013

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130920B QC Batch: 43913 PrepDate: 9/19/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/20/2013 12:20 PM
Arsenic	4.9	1.0		mg/Kg	1	9/20/2013 12:20 PM
Barium	100	1.0		mg/Kg	1	9/20/2013 12:20 PM
Beryllium	ND	1.0		mg/Kg	1	9/20/2013 12:20 PM
Cadmium	ND	1.0		mg/Kg	1	9/20/2013 12:20 PM
Chromium	36	1.0		mg/Kg	1	9/20/2013 12:20 PM
Cobalt	9.2	1.0		mg/Kg	1	9/20/2013 12:20 PM
Copper	31	2.0		mg/Kg	1	9/20/2013 12:20 PM
Lead	58	1.0		mg/Kg	1	9/20/2013 12:20 PM
Molybdenum	ND	1.0		mg/Kg	1	9/20/2013 12:20 PM
Nickel	32	1.0		mg/Kg	1	9/20/2013 12:20 PM
Selenium	1.2	1.0		mg/Kg	1	9/20/2013 12:20 PM
Silver	ND	1.0		mg/Kg	1	9/20/2013 12:20 PM
Thallium	ND	1.0		mg/Kg	1	9/20/2013 12:20 PM
Vanadium	33	1.0		mg/Kg	1	9/20/2013 12:20 PM
Zinc	87	1.0		mg/Kg	1	9/20/2013 12:20 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Geocon Consultants, Inc.
Lab Order: N011009
Project: 800 Cedar St, E8560-02-55
Lab ID: N011009-002

Client Sample ID: A1-4
Collection Date: 9/11/2013 9:57:00 AM
Matrix: SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/19/2013 05:13 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
Benzene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
Bromoform	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
Bromomethane	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
Chloroethane	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
Chloroform	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
Chloromethane	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A1-4
Lab Order:	N011009	**Collection Date:**	9/11/2013 9:57:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-002		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 8260B						
RunID: MS6_130919A	QC Batch: Q13VS001			PrepDate:		Analyst: **QBM**
Dibromochloromethane	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
m,p-Xylene	ND	10		µg/Kg	1	9/19/2013 05:13 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
MTBE	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
Naphthalene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
o-Xylene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
Styrene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
Toluene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/19/2013 05:13 PM
Surr: 1,2-Dichloroethane-d4	88.1	63-139		%REC	1	9/19/2013 05:13 PM
Surr: 4-Bromofluorobenzene	91.2	75-124		%REC	1	9/19/2013 05:13 PM
Surr: Dibromofluoromethane	89.8	70-133		%REC	1	9/19/2013 05:13 PM
Surr: Toluene-d8	96.9	80-123		%REC	1	9/19/2013 05:13 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC3_130918A	QC Batch: 43899			PrepDate:	9/18/2013	Analyst: **MDM**
DRO	17	1.0		mg/Kg	1	9/18/2013 07:33 PM
ORO	50	1.0		mg/Kg	1	9/18/2013 07:33 PM
Surr: p-Terphenyl	79.4	59-127		%REC	1	9/18/2013 07:33 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
EPA 3550B				**EPA 8081A**		
RunID: GC7_130919A	QC Batch: 43887			PrepDate:	9/17/2013	Analyst: **MDM**

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A1-4
Lab Order:	N011009	**Collection Date:**	9/11/2013 9:57:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-002		

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919A QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
4,4´-DDD	ND	2.0		µg/Kg	1	9/19/2013 06:07 AM
4,4´-DDE	ND	2.0		µg/Kg	1	9/19/2013 06:07 AM
4,4´-DDT	ND	2.0		µg/Kg	1	9/19/2013 06:07 AM
Aldrin	ND	1.0		µg/Kg	1	9/19/2013 06:07 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/19/2013 06:07 AM
alpha-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 06:07 AM
beta-BHC	ND	1.0		µg/Kg	1	9/19/2013 06:07 AM
Chlordane	ND	8.5		µg/Kg	1	9/19/2013 06:07 AM
delta-BHC	ND	1.0		µg/Kg	1	9/19/2013 06:07 AM
Dieldrin	ND	2.0		µg/Kg	1	9/19/2013 06:07 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/19/2013 06:07 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/19/2013 06:07 AM
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/19/2013 06:07 AM
Endrin	ND	2.0		µg/Kg	1	9/19/2013 06:07 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/19/2013 06:07 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/19/2013 06:07 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/19/2013 06:07 AM
gamma-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 06:07 AM
Heptachlor	ND	1.0		µg/Kg	1	9/19/2013 06:07 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/19/2013 06:07 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/19/2013 06:07 AM
Toxaphene	ND	85		µg/Kg	1	9/19/2013 06:07 AM
Surr: Tetrachloro-m-xylene	27.2	28-161	S	%REC	1	9/19/2013 06:07 AM
Surr: Decachlorobiphenyl	31.9	28-120		%REC	1	9/19/2013 06:07 AM

PCBS BY GC/ECD

EPA 3550B **EPA 8082**

RunID: GC7_130917B QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Aroclor 1016	ND	16		µg/Kg	1	9/18/2013 08:21 AM
Aroclor 1221	ND	33		µg/Kg	1	9/18/2013 08:21 AM
Aroclor 1232	ND	16		µg/Kg	1	9/18/2013 08:21 AM
Aroclor 1242	ND	16		µg/Kg	1	9/18/2013 08:21 AM
Aroclor 1248	ND	16		µg/Kg	1	9/18/2013 08:21 AM
Aroclor 1254	ND	16		µg/Kg	1	9/18/2013 08:21 AM
Aroclor 1260	ND	16		µg/Kg	1	9/18/2013 08:21 AM
Surr: Decachlorobiphenyl	36.5	40-146	S	%REC	1	9/18/2013 08:21 AM
Surr: Tetrachloro-m-xylene	34.6	32-109		%REC	1	9/18/2013 08:21 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A1-4
Lab Order:	N011009	**Collection Date:**	9/11/2013 9:57:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-002		

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130918A QC Batch: E13VS096 PrepDate: Analyst: **PN**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GRO	ND	1.0		mg/Kg	1	9/18/2013 06:22 PM
Surr: Chlorobenzene - d5	92.6	51-136		%REC	1	9/18/2013 06:22 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43890 PrepDate: 9/17/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	0.12	0.10		mg/Kg	1	9/18/2013

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130920B QC Batch: 43913 PrepDate: 9/19/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/20/2013 12:52 PM
Arsenic	6.5	1.0		mg/Kg	1	9/20/2013 12:52 PM
Barium	110	1.0		mg/Kg	1	9/20/2013 12:52 PM
Beryllium	ND	1.0		mg/Kg	1	9/20/2013 12:52 PM
Cadmium	ND	1.0		mg/Kg	1	9/20/2013 12:52 PM
Chromium	33	1.0		mg/Kg	1	9/20/2013 12:52 PM
Cobalt	9.7	1.0		mg/Kg	1	9/20/2013 12:52 PM
Copper	21	2.0		mg/Kg	1	9/20/2013 12:52 PM
Lead	21	1.0		mg/Kg	1	9/20/2013 12:52 PM
Molybdenum	ND	1.0		mg/Kg	1	9/20/2013 12:52 PM
Nickel	42	1.0		mg/Kg	1	9/20/2013 12:52 PM
Selenium	ND	1.0		mg/Kg	1	9/20/2013 12:52 PM
Silver	ND	1.0		mg/Kg	1	9/20/2013 12:52 PM
Thallium	ND	1.0		mg/Kg	1	9/20/2013 12:52 PM
Vanadium	35	1.0		mg/Kg	1	9/20/2013 12:52 PM
Zinc	43	1.0		mg/Kg	1	9/20/2013 12:52 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A1-7.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 9:59:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-003		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130919A QC Batch: Q13VS001 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/19/2013 05:56 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
Benzene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
Bromoform	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
Bromomethane	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
Chloroethane	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
Chloroform	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
Chloromethane	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A1-7.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 9:59:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-003		

Analyses	**Result**	**PQL**	**Qual**	**Units**	**DF**	**Date Analyzed**
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
			EPA 8260B			
RunID: MS6_130919A	QC Batch: Q13VS001			PrepDate:		Analyst: **QBM**
Dibromochloromethane	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
m,p-Xylene	ND	10		µg/Kg	1	9/19/2013 05:56 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
MTBE	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
Naphthalene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
o-Xylene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
Styrene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
Toluene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/19/2013 05:56 PM
Surr: 1,2-Dichloroethane-d4	88.7	63-139		%REC	1	9/19/2013 05:56 PM
Surr: 4-Bromofluorobenzene	89.0	75-124		%REC	1	9/19/2013 05:56 PM
Surr: Dibromofluoromethane	50.7	70-133	S	%REC	1	9/19/2013 05:56 PM
Surr: Toluene-d8	95.6	80-123		%REC	1	9/19/2013 05:56 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B		**EPA 8015B**			
RunID: GC3_130918A	QC Batch: 43899			PrepDate:	9/18/2013	Analyst: **MDM**
DRO	36	1.0		mg/Kg	1	9/18/2013 07:59 PM
ORO	81	1.0		mg/Kg	1	9/18/2013 07:59 PM
Surr: p-Terphenyl	95.7	59-127		%REC	1	9/18/2013 07:59 PM
GASOLINE RANGE ORGANICS BY GC/FID						
			EPA 8015B			
RunID: GC4_130918A	QC Batch: E13VS096			PrepDate:		Analyst: **PN**

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A1-7.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 9:59:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-003		

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130918A QC Batch: E13VS096 PrepDate: Analyst: **PN**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GRO	ND	1.0		mg/Kg	1	9/18/2013 01:01 PM
Surr: Chlorobenzene - d5	107	51-136		%REC	1	9/18/2013 01:01 PM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130920C QC Batch: 43905 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	12	5.0		mg/Kg	1	9/20/2013 06:56 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Geocon Consultants, Inc.
Lab Order: N011009
Project: 800 Cedar St, E8560-02-55
Lab ID: N011009-004

Client Sample ID: A2-0
Collection Date: 9/11/2013 10:15:00 AM
Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130918A QC Batch: 43898 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/18/2013 03:34 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/18/2013 03:34 PM
Acenaphthylene	24	5.0		µg/Kg	1	9/18/2013 03:34 PM
Anthracene	27	5.0		µg/Kg	1	9/18/2013 03:34 PM
Benzo(a)anthracene	140	5.0		µg/Kg	1	9/18/2013 03:34 PM
Benzo(a)pyrene	380	50		µg/Kg	10	9/22/2013 01:38 PM
Benzo(b)fluoranthene	330	50		µg/Kg	10	9/22/2013 01:38 PM
Benzo(g,h,i)perylene	380	50		µg/Kg	10	9/22/2013 01:38 PM
Benzo(k)fluoranthene	100	50		µg/Kg	10	9/22/2013 01:38 PM
Chrysene	200	5.0		µg/Kg	1	9/18/2013 03:34 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/22/2013 01:38 PM
Fluoranthene	470	50		µg/Kg	10	9/22/2013 01:38 PM
Fluorene	6.0	5.0		µg/Kg	1	9/18/2013 03:34 PM
Indeno(1,2,3-cd)pyrene	180	50		µg/Kg	10	9/22/2013 01:38 PM
Naphthalene	ND	5.0		µg/Kg	1	9/18/2013 03:34 PM
Phenanthrene	160	5.0		µg/Kg	1	9/18/2013 03:34 PM
Pyrene	870	50		µg/Kg	10	9/22/2013 01:38 PM
Surr: 1,2-Dichlorobenzene-d4	48.0	14-120		%REC	1	9/18/2013 03:34 PM
Surr: 2-Fluorobiphenyl	68.1	28-130		%REC	1	9/18/2013 03:34 PM
Surr: 4-Terphenyl-d14	121	19-165		%REC	1	9/18/2013 03:34 PM
Surr: Nitrobenzene-d5	83.1	23-150		%REC	1	9/18/2013 03:34 PM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130920C QC Batch: 43905 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	71	5.0		mg/Kg	1	9/20/2013 07:22 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A2-4
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:17:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-005		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130918A QC Batch: 43898 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	25		µg/Kg	5	9/18/2013 04:02 PM
Acenaphthene	ND	25		µg/Kg	5	9/18/2013 04:02 PM
Acenaphthylene	ND	25		µg/Kg	5	9/18/2013 04:02 PM
Anthracene	ND	25		µg/Kg	5	9/18/2013 04:02 PM
Benzo(a)anthracene	27	25		µg/Kg	5	9/18/2013 04:02 PM
Benzo(a)pyrene	ND	250		µg/Kg	50	9/22/2013 02:06 PM
Benzo(b)fluoranthene	ND	250		µg/Kg	50	9/22/2013 02:06 PM
Benzo(g,h,i)perylene	ND	250		µg/Kg	50	9/22/2013 02:06 PM
Benzo(k)fluoranthene	ND	250		µg/Kg	50	9/22/2013 02:06 PM
Chrysene	52	25		µg/Kg	5	9/18/2013 04:02 PM
Dibenz(a,h)anthracene	ND	250		µg/Kg	50	9/22/2013 02:06 PM
Fluoranthene	55	25		µg/Kg	5	9/18/2013 04:02 PM
Fluorene	ND	25		µg/Kg	5	9/18/2013 04:02 PM
Indeno(1,2,3-cd)pyrene	ND	250		µg/Kg	50	9/22/2013 02:06 PM
Naphthalene	ND	25		µg/Kg	5	9/18/2013 04:02 PM
Phenanthrene	25	25		µg/Kg	5	9/18/2013 04:02 PM
Pyrene	58	25		µg/Kg	5	9/18/2013 04:02 PM
Surr: 1,2-Dichlorobenzene-d4	35.0	14-120		%REC	5	9/18/2013 04:02 PM
Surr: 2-Fluorobiphenyl	45.0	28-130		%REC	5	9/18/2013 04:02 PM
Surr: 4-Terphenyl-d14	105	19-165		%REC	5	9/18/2013 04:02 PM
Surr: Nitrobenzene-d5	50.1	23-150		%REC	5	9/18/2013 04:02 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43890 PrepDate: 9/17/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	ND	0.10		mg/Kg	1	9/18/2013

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130920B QC Batch: 43913 PrepDate: 9/19/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/20/2013 01:18 PM
Arsenic	5.1	1.0		mg/Kg	1	9/20/2013 01:18 PM
Barium	150	1.0		mg/Kg	1	9/20/2013 01:18 PM
Beryllium	ND	1.0		mg/Kg	1	9/20/2013 01:18 PM
Cadmium	ND	1.0		mg/Kg	1	9/20/2013 01:18 PM
Chromium	51	1.0		mg/Kg	1	9/20/2013 01:18 PM
Cobalt	11	1.0		mg/Kg	1	9/20/2013 01:18 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A2-4
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:17:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-005		

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130920B QC Batch: 43913 PrepDate: 9/19/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Copper	28	2.0		mg/Kg	1	9/20/2013 01:18 PM
Lead	8.4	1.0		mg/Kg	1	9/20/2013 01:18 PM
Molybdenum	ND	1.0		mg/Kg	1	9/20/2013 01:18 PM
Nickel	54	1.0		mg/Kg	1	9/20/2013 01:18 PM
Selenium	1.3	1.0		mg/Kg	1	9/20/2013 01:18 PM
Silver	ND	1.0		mg/Kg	1	9/20/2013 01:18 PM
Thallium	ND	1.0		mg/Kg	1	9/20/2013 01:18 PM
Vanadium	34	1.0		mg/Kg	1	9/20/2013 01:18 PM
Zinc	45	1.0		mg/Kg	1	9/20/2013 01:18 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A2-7.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:19:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-006		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM						
EPA 3060A			**EPA 7196A**			
RunID: WETCHEM_130920C	QC Batch: 43908			PrepDate:	9/19/2013	Analyst: **QBM**
Chromium, Hexavalent	ND	1.0		mg/Kg	1	9/20/2013
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3550B			**EPA 8270CSIM**			
RunID: MS3_130918A	QC Batch: 43898			PrepDate:	9/18/2013	Analyst: **MDM**
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/18/2013 04:30 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/18/2013 04:30 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/18/2013 04:30 PM
Anthracene	8.4	5.0		µg/Kg	1	9/18/2013 04:30 PM
Benzo(a)anthracene	110	5.0		µg/Kg	1	9/18/2013 04:30 PM
Benzo(a)pyrene	110	50		µg/Kg	10	9/22/2013 02:33 PM
Benzo(b)fluoranthene	140	50		µg/Kg	10	9/22/2013 02:33 PM
Benzo(g,h,i)perylene	ND	50		µg/Kg	10	9/22/2013 02:33 PM
Benzo(k)fluoranthene	60	50		µg/Kg	10	9/22/2013 02:33 PM
Chrysene	120	5.0		µg/Kg	1	9/18/2013 04:30 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/22/2013 02:33 PM
Fluoranthene	100	5.0		µg/Kg	1	9/18/2013 04:30 PM
Fluorene	ND	5.0		µg/Kg	1	9/18/2013 04:30 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/Kg	10	9/22/2013 02:33 PM
Naphthalene	ND	5.0		µg/Kg	1	9/18/2013 04:30 PM
Phenanthrene	33	5.0		µg/Kg	1	9/18/2013 04:30 PM
Pyrene	110	5.0		µg/Kg	1	9/18/2013 04:30 PM
Surr: 1,2-Dichlorobenzene-d4	35.0	14-120		%REC	1	9/18/2013 04:30 PM
Surr: 2-Fluorobiphenyl	52.1	28-130		%REC	1	9/18/2013 04:30 PM
Surr: 4-Terphenyl-d14	132	19-165		%REC	1	9/18/2013 04:30 PM
Surr: Nitrobenzene-d5	52.1	23-150		%REC	1	9/18/2013 04:30 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
EPA 3550B			**EPA 8081A**			
RunID: GC7_130919A	QC Batch: 43887			PrepDate:	9/17/2013	Analyst: **MDM**
4,4´-DDD	ND	2.0		µg/Kg	1	9/19/2013 07:25 AM
4,4´-DDE	ND	2.0		µg/Kg	1	9/19/2013 07:25 AM
4,4´-DDT	ND	2.0		µg/Kg	1	9/19/2013 07:25 AM
Aldrin	ND	1.0		µg/Kg	1	9/19/2013 07:25 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/19/2013 07:25 AM
alpha-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 07:25 AM
beta-BHC	ND	1.0		µg/Kg	1	9/19/2013 07:25 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A2-7.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:19:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-006		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD						
EPA 3550B				**EPA 8081A**		
RunID: GC7_130919A	QC Batch: 43887			PrepDate: 9/17/2013		Analyst: **MDM**
Chlordane	ND	8.5		µg/Kg	1	9/19/2013 07:25 AM
delta-BHC	ND	1.0		µg/Kg	1	9/19/2013 07:25 AM
Dieldrin	ND	2.0		µg/Kg	1	9/19/2013 07:25 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/19/2013 07:25 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/19/2013 07:25 AM
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/19/2013 07:25 AM
Endrin	ND	2.0		µg/Kg	1	9/19/2013 07:25 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/19/2013 07:25 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/19/2013 07:25 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/19/2013 07:25 AM
gamma-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 07:25 AM
Heptachlor	ND	1.0		µg/Kg	1	9/19/2013 07:25 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/19/2013 07:25 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/19/2013 07:25 AM
Toxaphene	ND	85		µg/Kg	1	9/19/2013 07:25 AM
Surr: Tetrachloro-m-xylene	62.1	28-161		%REC	1	9/19/2013 07:25 AM
Surr: Decachlorobiphenyl	54.0	28-120		%REC	1	9/19/2013 07:25 AM
PCBS BY GC/ECD						
EPA 3550B				**EPA 8082**		
RunID: GC7_130917B	QC Batch: 43887			PrepDate: 9/17/2013		Analyst: **MDM**
Aroclor 1016	ND	17		µg/Kg	1	9/18/2013 08:51 AM
Aroclor 1221	ND	33		µg/Kg	1	9/18/2013 08:51 AM
Aroclor 1232	ND	17		µg/Kg	1	9/18/2013 08:51 AM
Aroclor 1242	ND	17		µg/Kg	1	9/18/2013 08:51 AM
Aroclor 1248	ND	17		µg/Kg	1	9/18/2013 08:51 AM
Aroclor 1254	ND	17		µg/Kg	1	9/18/2013 08:51 AM
Aroclor 1260	ND	17		µg/Kg	1	9/18/2013 08:51 AM
Surr: Decachlorobiphenyl	60.3	40-146		%REC	1	9/18/2013 08:51 AM
Surr: Tetrachloro-m-xylene	65.0	32-109		%REC	1	9/18/2013 08:51 AM
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471				**EPA 7471A**		
RunID: AA1_130918E	QC Batch: 43890			PrepDate: 9/17/2013		Analyst: **JT**
Mercury	0.20	0.10		mg/Kg	1	9/18/2013

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A2-7.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:19:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-006		

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130920B QC Batch: 43913 PrepDate: 9/19/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/20/2013 01:25 PM
Arsenic	10	1.0		mg/Kg	1	9/20/2013 01:25 PM
Barium	160	1.0		mg/Kg	1	9/20/2013 01:25 PM
Beryllium	ND	1.0		mg/Kg	1	9/20/2013 01:25 PM
Cadmium	ND	1.0		mg/Kg	1	9/20/2013 01:25 PM
Chromium	61	1.0		mg/Kg	1	9/20/2013 01:25 PM
Cobalt	12	1.0		mg/Kg	1	9/20/2013 01:25 PM
Copper	34	2.0		mg/Kg	1	9/20/2013 01:25 PM
Lead	110	1.0		mg/Kg	1	9/20/2013 01:25 PM
Molybdenum	ND	1.0		mg/Kg	1	9/20/2013 01:25 PM
Nickel	72	1.0		mg/Kg	1	9/20/2013 01:25 PM
Selenium	1.4	1.0		mg/Kg	1	9/20/2013 01:25 PM
Silver	ND	1.0		mg/Kg	1	9/20/2013 01:25 PM
Thallium	ND	1.0		mg/Kg	1	9/20/2013 01:25 PM
Vanadium	43	1.0		mg/Kg	1	9/20/2013 01:25 PM
Zinc	75	1.0		mg/Kg	1	9/20/2013 01:25 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A3-0
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:25:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-007		

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130920A QC Batch: 43899 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	67	5.0		mg/Kg	5	9/20/2013 10:36 AM
ORO	210	5.0		mg/Kg	5	9/20/2013 10:36 AM
Surr: p-Terphenyl	77.9	59-127		%REC	5	9/20/2013 10:36 AM

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919A QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
4,4´-DDD	2.2	2.0		µg/Kg	1	9/19/2013 08:29 AM
4,4´-DDE	ND	2.0		µg/Kg	1	9/19/2013 08:29 AM
4,4´-DDT	5.8	2.0		µg/Kg	1	9/19/2013 08:29 AM
Aldrin	ND	1.0		µg/Kg	1	9/19/2013 08:29 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/19/2013 08:29 AM
alpha-Chlordane	9.3	1.0		µg/Kg	1	9/19/2013 08:29 AM
beta-BHC	ND	1.0		µg/Kg	1	9/19/2013 08:29 AM
Chlordane	ND	8.5		µg/Kg	1	9/19/2013 08:29 AM
delta-BHC	ND	1.0		µg/Kg	1	9/19/2013 08:29 AM
Dieldrin	ND	2.0		µg/Kg	1	9/19/2013 08:29 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/19/2013 08:29 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/19/2013 08:29 AM
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/19/2013 08:29 AM
Endrin	ND	2.0		µg/Kg	1	9/19/2013 08:29 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/19/2013 08:29 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/19/2013 08:29 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/19/2013 08:29 AM
gamma-Chlordane	1.0	1.0		µg/Kg	1	9/19/2013 08:29 AM
Heptachlor	ND	1.0		µg/Kg	1	9/19/2013 08:29 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/19/2013 08:29 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/19/2013 08:29 AM
Toxaphene	ND	85		µg/Kg	1	9/19/2013 08:29 AM
Surr: Tetrachloro-m-xylene	46.7	28-161		%REC	1	9/19/2013 08:29 AM
Surr: Decachlorobiphenyl	46.5	28-120		%REC	1	9/19/2013 08:29 AM

PCBS BY GC/ECD

EPA 3550B **EPA 8082**

RunID: GC7_130917B QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Aroclor 1016	ND	16		µg/Kg	1	9/18/2013 10:31 AM
Aroclor 1221	ND	33		µg/Kg	1	9/18/2013 10:31 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A3-0
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:25:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-007		

PCBS BY GC/ECD

EPA 3550B **EPA 8082**

RunID: GC7_130917B QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Aroclor 1232	ND	16		µg/Kg	1	9/18/2013 10:31 AM
Aroclor 1242	ND	16		µg/Kg	1	9/18/2013 10:31 AM
Aroclor 1248	ND	16		µg/Kg	1	9/18/2013 10:31 AM
Aroclor 1254	ND	16		µg/Kg	1	9/18/2013 10:31 AM
Aroclor 1260	ND	16		µg/Kg	1	9/18/2013 10:31 AM
Surr: Decachlorobiphenyl	63.9	40-146		%REC	1	9/18/2013 10:31 AM
Surr: Tetrachloro-m-xylene	48.9	32-109		%REC	1	9/18/2013 10:31 AM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43890 PrepDate: 9/17/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	0.25	0.10		mg/Kg	1	9/18/2013

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130920B QC Batch: 43913 PrepDate: 9/19/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/20/2013 01:32 PM
Arsenic	4.8	1.0		mg/Kg	1	9/20/2013 01:32 PM
Barium	130	1.0		mg/Kg	1	9/20/2013 01:32 PM
Beryllium	ND	1.0		mg/Kg	1	9/20/2013 01:32 PM
Cadmium	ND	1.0		mg/Kg	1	9/20/2013 01:32 PM
Chromium	36	1.0		mg/Kg	1	9/20/2013 01:32 PM
Cobalt	8.6	1.0		mg/Kg	1	9/20/2013 01:32 PM
Copper	28	2.0		mg/Kg	1	9/20/2013 01:32 PM
Lead	58	1.0		mg/Kg	1	9/20/2013 01:32 PM
Molybdenum	ND	1.0		mg/Kg	1	9/20/2013 01:32 PM
Nickel	36	1.0		mg/Kg	1	9/20/2013 01:32 PM
Selenium	1.1	1.0		mg/Kg	1	9/20/2013 01:32 PM
Silver	ND	1.0		mg/Kg	1	9/20/2013 01:32 PM
Thallium	ND	1.0		mg/Kg	1	9/20/2013 01:32 PM
Vanadium	33	1.0		mg/Kg	1	9/20/2013 01:32 PM
Zinc	78	1.0		mg/Kg	1	9/20/2013 01:32 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A3-4
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:27:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-008		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/20/2013 10:43 AM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
Benzene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
Bromobenzene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
Bromoform	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
Bromomethane	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
Chlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
Chloroethane	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
Chloroform	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
Chloromethane	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A3-4
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:27:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-008		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 8260B						
RunID: MS6_130920A	QC Batch: Q13VS002			PrepDate:		Analyst: **QBM**
Dibromochloromethane	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
Dibromomethane	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
Ethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
m,p-Xylene	ND	10		µg/Kg	1	9/20/2013 10:43 AM
Methylene chloride	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
MTBE	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
Naphthalene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
o-Xylene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
Styrene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
Toluene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
Trichloroethene	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
Vinyl chloride	ND	5.0		µg/Kg	1	9/20/2013 10:43 AM
Surr: 1,2-Dichloroethane-d4	104	63-139		%REC	1	9/20/2013 10:43 AM
Surr: 4-Bromofluorobenzene	84.0	75-124		%REC	1	9/20/2013 10:43 AM
Surr: Dibromofluoromethane	95.1	70-133		%REC	1	9/20/2013 10:43 AM
Surr: Toluene-d8	88.9	80-123		%REC	1	9/20/2013 10:43 AM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC1_130920A	QC Batch: 43899			PrepDate:	9/18/2013	Analyst: **MDM**
DRO	71	5.0		mg/Kg	5	9/20/2013 11:02 AM
ORO	210	5.0		mg/Kg	5	9/20/2013 11:02 AM
Surr: p-Terphenyl	87.5	59-127		%REC	5	9/20/2013 11:02 AM
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B						
RunID: GC4_130918A	QC Batch: E13VS096			PrepDate:		Analyst: **PN**

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A3-4
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:27:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-008		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B						
RunID: GC4_130918A QC Batch: E13VS096 PrepDate: Analyst: **PN**						
GRO	ND	1.0		mg/Kg	1	9/18/2013 03:00 PM
Surr: Chlorobenzene - d5	90.6	51-136		%REC	1	9/18/2013 03:00 PM
LEAD BY ICP						
EPA 3050B **EPA 6010B**						
RunID: ICP2_130920C QC Batch: 43905 PrepDate: 9/18/2013 Analyst: **JT**						
Lead	46	5.0		mg/Kg	1	9/20/2013 07:36 PM

Qualifiers:				
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A3-7.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:29:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-009		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/20/2013 11:05 AM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
Benzene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
Bromobenzene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
Bromoform	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
Bromomethane	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
Chlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
Chloroethane	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
Chloroform	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
Chloromethane	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A3-7.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:29:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-009		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
Dibromomethane	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
Ethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
m,p-Xylene	ND	10		µg/Kg	1	9/20/2013 11:05 AM
Methylene chloride	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
MTBE	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
Naphthalene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
o-Xylene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
Styrene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
Toluene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
Trichloroethene	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
Vinyl chloride	ND	5.0		µg/Kg	1	9/20/2013 11:05 AM
Surr: 1,2-Dichloroethane-d4	89.7	63-139		%REC	1	9/20/2013 11:05 AM
Surr: 4-Bromofluorobenzene	84.6	75-124		%REC	1	9/20/2013 11:05 AM
Surr: Dibromofluoromethane	86.5	70-133		%REC	1	9/20/2013 11:05 AM
Surr: Toluene-d8	92.3	80-123		%REC	1	9/20/2013 11:05 AM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130920A QC Batch: 43899 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	52	5.0		mg/Kg	5	9/20/2013 11:27 AM
ORO	170	5.0		mg/Kg	5	9/20/2013 11:27 AM
Surr: p-Terphenyl	95.0	59-127		%REC	5	9/20/2013 11:27 AM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130918A QC Batch: E13VS096 PrepDate: Analyst: **PN**

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A3-7.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:29:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-009		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B		
RunID: GC4_130918A	QC Batch: E13VS096			PrepDate:		Analyst: **PN**
GRO	ND	1.0		mg/Kg	1	9/18/2013 03:29 PM
Surr: Chlorobenzene - d5	102	51-136		%REC	1	9/18/2013 03:29 PM
MERCURY BY COLD VAPOR TECHNIQUE						
	EPA 7471			**EPA 7471A**		
RunID: AA1_130918E	QC Batch: 43890			PrepDate:	9/17/2013	Analyst: **JT**
Mercury	ND	0.099		mg/Kg	1	9/18/2013
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_130920B	QC Batch: 43913			PrepDate:	9/19/2013	Analyst: **JT**
Antimony	ND	2.0		mg/Kg	1	9/20/2013 01:39 PM
Arsenic	6.0	1.0		mg/Kg	1	9/20/2013 01:39 PM
Barium	130	1.0		mg/Kg	1	9/20/2013 01:39 PM
Beryllium	ND	1.0		mg/Kg	1	9/20/2013 01:39 PM
Cadmium	ND	1.0		mg/Kg	1	9/20/2013 01:39 PM
Chromium	52	1.0		mg/Kg	1	9/20/2013 01:39 PM
Cobalt	14	1.0		mg/Kg	1	9/20/2013 01:39 PM
Copper	32	2.0		mg/Kg	1	9/20/2013 01:39 PM
Lead	9.0	1.0		mg/Kg	1	9/20/2013 01:39 PM
Molybdenum	ND	1.0		mg/Kg	1	9/20/2013 01:39 PM
Nickel	100	1.0		mg/Kg	1	9/20/2013 01:39 PM
Selenium	1.9	1.0		mg/Kg	1	9/20/2013 01:39 PM
Silver	ND	1.0		mg/Kg	1	9/20/2013 01:39 PM
Thallium	ND	1.0		mg/Kg	1	9/20/2013 01:39 PM
Vanadium	48	1.0		mg/Kg	1	9/20/2013 01:39 PM
Zinc	53	1.0		mg/Kg	1	9/20/2013 01:39 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT: Geocon Consultants, Inc.
Lab Order: N011009
Project: 800 Cedar St, E8560-02-55
Lab ID: N011009-010

Client Sample ID: A4-0
Collection Date: 9/11/2013 10:35:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
	EPA 3550B			**EPA 8270CSIM**		
RunID: MS3_130918A	QC Batch: 43898			PrepDate: 9/18/2013		Analyst: **MDM**
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/18/2013 10:09 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/18/2013 10:09 PM
Acenaphthylene	25	5.0		µg/Kg	1	9/18/2013 10:09 PM
Anthracene	29	5.0		µg/Kg	1	9/18/2013 10:09 PM
Benzo(a)anthracene	140	5.0		µg/Kg	1	9/18/2013 10:09 PM
Benzo(a)pyrene	460	50		µg/Kg	10	9/22/2013 03:01 PM
Benzo(b)fluoranthene	400	50		µg/Kg	10	9/22/2013 03:01 PM
Benzo(g,h,i)perylene	410	50		µg/Kg	10	9/22/2013 03:01 PM
Benzo(k)fluoranthene	160	50		µg/Kg	10	9/22/2013 03:01 PM
Chrysene	310	50		µg/Kg	10	9/22/2013 03:01 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/22/2013 03:01 PM
Fluoranthene	500	50		µg/Kg	10	9/22/2013 03:01 PM
Fluorene	5.3	5.0		µg/Kg	1	9/18/2013 10:09 PM
Indeno(1,2,3-cd)pyrene	170	50		µg/Kg	10	9/22/2013 03:01 PM
Naphthalene	ND	5.0		µg/Kg	1	9/18/2013 10:09 PM
Phenanthrene	190	5.0		µg/Kg	1	9/18/2013 10:09 PM
Pyrene	1200	50		µg/Kg	10	9/22/2013 03:01 PM
Surr: 1,2-Dichlorobenzene-d4	48.0	14-120		%REC	1	9/18/2013 10:09 PM
Surr: 2-Fluorobiphenyl	64.1	28-130		%REC	1	9/18/2013 10:09 PM
Surr: 4-Terphenyl-d14	92.1	19-165		%REC	1	9/18/2013 10:09 PM
Surr: Nitrobenzene-d5	71.1	23-150		%REC	1	9/18/2013 10:09 PM
LEAD BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_130920C	QC Batch: 43905			PrepDate: 9/18/2013		Analyst: **JT**
Lead	52	5.0		mg/Kg	1	9/20/2013 07:41 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A4-4
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:37:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-011		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3550B				**EPA 8270CSIM**		
RunID: MS3_130918A	QC Batch: 43898			PrepDate: 9/18/2013		Analyst: **MDM**
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/18/2013 10:37 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/18/2013 10:37 PM
Acenaphthylene	13	5.0		µg/Kg	1	9/18/2013 10:37 PM
Anthracene	17	5.0		µg/Kg	1	9/18/2013 10:37 PM
Benzo(a)anthracene	77	5.0		µg/Kg	1	9/18/2013 10:37 PM
Benzo(a)pyrene	220	50		µg/Kg	10	9/22/2013 03:29 PM
Benzo(b)fluoranthene	210	50		µg/Kg	10	9/22/2013 03:29 PM
Benzo(g,h,i)perylene	150	50		µg/Kg	10	9/22/2013 03:29 PM
Benzo(k)fluoranthene	73	50		µg/Kg	10	9/22/2013 03:29 PM
Chrysene	110	5.0		µg/Kg	1	9/18/2013 10:37 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/22/2013 03:29 PM
Fluoranthene	240	5.0		µg/Kg	1	9/18/2013 10:37 PM
Fluorene	ND	5.0		µg/Kg	1	9/18/2013 10:37 PM
Indeno(1,2,3-cd)pyrene	73	50		µg/Kg	10	9/22/2013 03:29 PM
Naphthalene	ND	5.0		µg/Kg	1	9/18/2013 10:37 PM
Phenanthrene	100	5.0		µg/Kg	1	9/18/2013 10:37 PM
Pyrene	490	50		µg/Kg	10	9/22/2013 03:29 PM
Surr: 1,2-Dichlorobenzene-d4	56.1	14-120		%REC	1	9/18/2013 10:37 PM
Surr: 2-Fluorobiphenyl	69.1	28-130		%REC	1	9/18/2013 10:37 PM
Surr: 4-Terphenyl-d14	118	19-165		%REC	1	9/18/2013 10:37 PM
Surr: Nitrobenzene-d5	78.1	23-150		%REC	1	9/18/2013 10:37 PM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130920C	QC Batch: 43905			PrepDate: 9/18/2013		Analyst: **JT**
Lead	24	5.0		mg/Kg	1	9/20/2013 07:46 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A4-7.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:39:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-012		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130918A QC Batch: 43898 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/18/2013 11:04 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/18/2013 11:04 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/18/2013 11:04 PM
Anthracene	ND	5.0		µg/Kg	1	9/18/2013 11:04 PM
Benzo(a)anthracene	6.3	5.0		µg/Kg	1	9/18/2013 11:04 PM
Benzo(a)pyrene	ND	50		µg/Kg	10	9/22/2013 03:56 PM
Benzo(b)fluoranthene	ND	50		µg/Kg	10	9/22/2013 03:56 PM
Benzo(g,h,i)perylene	ND	50		µg/Kg	10	9/22/2013 03:56 PM
Benzo(k)fluoranthene	ND	50		µg/Kg	10	9/22/2013 03:56 PM
Chrysene	20	5.0		µg/Kg	1	9/18/2013 11:04 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/22/2013 03:56 PM
Fluoranthene	11	5.0		µg/Kg	1	9/18/2013 11:04 PM
Fluorene	ND	5.0		µg/Kg	1	9/18/2013 11:04 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/Kg	10	9/22/2013 03:56 PM
Naphthalene	ND	5.0		µg/Kg	1	9/18/2013 11:04 PM
Phenanthrene	7.7	5.0		µg/Kg	1	9/18/2013 11:04 PM
Pyrene	16	5.0		µg/Kg	1	9/18/2013 11:04 PM
Surr: 1,2-Dichlorobenzene-d4	58.1	14-120		%REC	1	9/18/2013 11:04 PM
Surr: 2-Fluorobiphenyl	62.1	28-130		%REC	1	9/18/2013 11:04 PM
Surr: 4-Terphenyl-d14	107	19-165		%REC	1	9/18/2013 11:04 PM
Surr: Nitrobenzene-d5	79.1	23-150		%REC	1	9/18/2013 11:04 PM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130920C QC Batch: 43905 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	21	5.0		mg/Kg	1	9/20/2013 07:50 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B1-0
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:55:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-013		

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130920A QC Batch: 43899 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	30	5.0		mg/Kg	5	9/20/2013 11:53 AM
ORO	96	5.0		mg/Kg	5	9/20/2013 11:53 AM
Surr: p-Terphenyl	89.8	59-127		%REC	5	9/20/2013 11:53 AM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43890 PrepDate: 9/17/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	0.10	0.10		mg/Kg	1	9/18/2013

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130920B QC Batch: 43913 PrepDate: 9/19/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/20/2013 01:46 PM
Arsenic	4.1	1.0		mg/Kg	1	9/20/2013 01:46 PM
Barium	100	1.0		mg/Kg	1	9/20/2013 01:46 PM
Beryllium	ND	1.0		mg/Kg	1	9/20/2013 01:46 PM
Cadmium	ND	1.0		mg/Kg	1	9/20/2013 01:46 PM
Chromium	44	1.0		mg/Kg	1	9/20/2013 01:46 PM
Cobalt	12	1.0		mg/Kg	1	9/20/2013 01:46 PM
Copper	32	2.0		mg/Kg	1	9/20/2013 01:46 PM
Lead	30	1.0		mg/Kg	1	9/20/2013 01:46 PM
Molybdenum	ND	1.0		mg/Kg	1	9/20/2013 01:46 PM
Nickel	68	1.0		mg/Kg	1	9/20/2013 01:46 PM
Selenium	1.3	1.0		mg/Kg	1	9/20/2013 01:46 PM
Silver	ND	1.0		mg/Kg	1	9/20/2013 01:46 PM
Thallium	ND	1.0		mg/Kg	1	9/20/2013 01:46 PM
Vanadium	48	1.0		mg/Kg	1	9/20/2013 01:46 PM
Zinc	52	1.0		mg/Kg	1	9/20/2013 01:46 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B1-5
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:57:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-014		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/20/2013 11:26 AM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
Benzene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
Bromobenzene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
Bromoform	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
Bromomethane	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
Chlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
Chloroethane	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
Chloroform	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
Chloromethane	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B1-5
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:57:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-014		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
Dibromomethane	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
Ethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
m,p-Xylene	ND	10		µg/Kg	1	9/20/2013 11:26 AM
Methylene chloride	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
MTBE	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
Naphthalene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
o-Xylene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
Styrene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
Toluene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
Trichloroethene	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
Vinyl chloride	ND	5.0		µg/Kg	1	9/20/2013 11:26 AM
Surr: 1,2-Dichloroethane-d4	86.4	63-139		%REC	1	9/20/2013 11:26 AM
Surr: 4-Bromofluorobenzene	84.5	75-124		%REC	1	9/20/2013 11:26 AM
Surr: Dibromofluoromethane	78.4	70-133		%REC	1	9/20/2013 11:26 AM
Surr: Toluene-d8	91.5	80-123		%REC	1	9/20/2013 11:26 AM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130920A QC Batch: 43899 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	53	5.0		mg/Kg	5	9/20/2013 12:18 PM
ORO	190	5.0		mg/Kg	5	9/20/2013 12:18 PM
Surr: p-Terphenyl	71.3	59-127		%REC	5	9/20/2013 12:18 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130918A QC Batch: E13VS096 PrepDate: Analyst: **PN**

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B1-5
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:57:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-014		

Analyses	**Result**	**PQL**	**Qual**	**Units**	**DF**	**Date Analyzed**
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B						
RunID: GC4_130918A QC Batch: E13VS096 PrepDate:						Analyst: **PN**
GRO	ND	1.0		mg/Kg	1	9/18/2013 03:58 PM
Surr: Chlorobenzene - d5	99.6	51-136		%REC	1	9/18/2013 03:58 PM
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471 **EPA 7471A**						
RunID: AA1_130918E QC Batch: 43890 PrepDate: 9/17/2013						Analyst: **JT**
Mercury	0.16	0.10		mg/Kg	1	9/18/2013
ICP METALS						
EPA 3050B **EPA 6010B**						
RunID: ICP2_130920B QC Batch: 43913 PrepDate: 9/19/2013						Analyst: **JT**
Antimony	ND	2.0		mg/Kg	1	9/20/2013 01:54 PM
Arsenic	11	1.0		mg/Kg	1	9/20/2013 01:54 PM
Barium	100	1.0		mg/Kg	1	9/20/2013 01:54 PM
Beryllium	ND	1.0		mg/Kg	1	9/20/2013 01:54 PM
Cadmium	ND	1.0		mg/Kg	1	9/20/2013 01:54 PM
Chromium	18	1.0		mg/Kg	1	9/20/2013 01:54 PM
Cobalt	7.6	1.0		mg/Kg	1	9/20/2013 01:54 PM
Copper	22	2.0		mg/Kg	1	9/20/2013 01:54 PM
Lead	12	1.0		mg/Kg	1	9/20/2013 01:54 PM
Molybdenum	ND	1.0		mg/Kg	1	9/20/2013 01:54 PM
Nickel	14	1.0		mg/Kg	1	9/20/2013 01:54 PM
Selenium	1.7	1.0		mg/Kg	1	9/20/2013 01:54 PM
Silver	ND	1.0		mg/Kg	1	9/20/2013 01:54 PM
Thallium	ND	1.0		mg/Kg	1	9/20/2013 01:54 PM
Vanadium	31	1.0		mg/Kg	1	9/20/2013 01:54 PM
Zinc	69	1.0		mg/Kg	1	9/20/2013 01:54 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B1-10
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:59:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-015		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/20/2013 11:48 AM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
Benzene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
Bromobenzene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
Bromoform	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
Bromomethane	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
Chlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
Chloroethane	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
Chloroform	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
Chloromethane	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B1-10
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:59:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-015		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
Dibromomethane	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
Ethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
m,p-Xylene	ND	10		µg/Kg	1	9/20/2013 11:48 AM
Methylene chloride	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
MTBE	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
Naphthalene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
o-Xylene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
Styrene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
Toluene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
Trichloroethene	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
Vinyl chloride	ND	5.0		µg/Kg	1	9/20/2013 11:48 AM
Surr: 1,2-Dichloroethane-d4	88.8	63-139		%REC	1	9/20/2013 11:48 AM
Surr: 4-Bromofluorobenzene	86.5	75-124		%REC	1	9/20/2013 11:48 AM
Surr: Dibromofluoromethane	88.9	70-133		%REC	1	9/20/2013 11:48 AM
Surr: Toluene-d8	91.6	80-123		%REC	1	9/20/2013 11:48 AM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130920A QC Batch: 43899 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	14	1.0		mg/Kg	1	9/20/2013 01:09 PM
ORO	25	1.0		mg/Kg	1	9/20/2013 01:09 PM
Surr: p-Terphenyl	95.4	59-127		%REC	1	9/20/2013 01:09 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130918A QC Batch: E13VS096 PrepDate: Analyst: **PN**

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B1-10
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:59:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-015		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B		
RunID: GC4_130918A	QC Batch: E13VS096			PrepDate:		Analyst: **PN**
GRO	ND	1.0		mg/Kg	1	9/18/2013 06:50 PM
Surr: Chlorobenzene - d5	97.2	51-136		%REC	1	9/18/2013 06:50 PM
MERCURY BY COLD VAPOR TECHNIQUE						
	EPA 7471			**EPA 7471A**		
RunID: AA1_130918E	QC Batch: 43891			PrepDate:	9/17/2013	Analyst: **JT**
Mercury	ND	0.10		mg/Kg	1	9/18/2013
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_130920B	QC Batch: 43913			PrepDate:	9/19/2013	Analyst: **JT**
Antimony	ND	2.0		mg/Kg	1	9/20/2013 02:01 PM
Arsenic	4.8	1.0		mg/Kg	1	9/20/2013 02:01 PM
Barium	130	1.0		mg/Kg	1	9/20/2013 02:01 PM
Beryllium	ND	1.0		mg/Kg	1	9/20/2013 02:01 PM
Cadmium	ND	1.0		mg/Kg	1	9/20/2013 02:01 PM
Chromium	44	1.0		mg/Kg	1	9/20/2013 02:01 PM
Cobalt	11	1.0		mg/Kg	1	9/20/2013 02:01 PM
Copper	25	2.0		mg/Kg	1	9/20/2013 02:01 PM
Lead	7.1	1.0		mg/Kg	1	9/20/2013 02:01 PM
Molybdenum	ND	1.0		mg/Kg	1	9/20/2013 02:01 PM
Nickel	54	1.0		mg/Kg	1	9/20/2013 02:01 PM
Selenium	1.2	1.0		mg/Kg	1	9/20/2013 02:01 PM
Silver	ND	1.0		mg/Kg	1	9/20/2013 02:01 PM
Thallium	ND	1.0		mg/Kg	1	9/20/2013 02:01 PM
Vanadium	37	1.0		mg/Kg	1	9/20/2013 02:01 PM
Zinc	43	1.0		mg/Kg	1	9/20/2013 02:01 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B1-15.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 11:01:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-016		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/20/2013 03:23 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
Benzene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
Bromoform	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
Bromomethane	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
Chloroethane	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
Chloroform	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
Chloromethane	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B1-15.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 11:01:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-016		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
m,p-Xylene	ND	10		µg/Kg	1	9/20/2013 03:23 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
MTBE	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
Naphthalene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
o-Xylene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
Styrene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
Toluene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/20/2013 03:23 PM
Surr: 1,2-Dichloroethane-d4	79.0	63-139		%REC	1	9/20/2013 03:23 PM
Surr: 4-Bromofluorobenzene	81.9	75-124		%REC	1	9/20/2013 03:23 PM
Surr: Dibromofluoromethane	82.1	70-133		%REC	1	9/20/2013 03:23 PM
Surr: Toluene-d8	88.8	80-123		%REC	1	9/20/2013 03:23 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130920A QC Batch: 43899 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	35	5.0		mg/Kg	5	9/20/2013 01:35 PM
ORO	120	5.0		mg/Kg	5	9/20/2013 01:35 PM
Surr: p-Terphenyl	92.4	59-127		%REC	5	9/20/2013 01:35 PM

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919A QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B1-15.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 11:01:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-016		

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919A QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
4,4´-DDD	ND	2.0		µg/Kg	1	9/19/2013 10:40 AM
4,4´-DDE	ND	2.0		µg/Kg	1	9/19/2013 10:40 AM
4,4´-DDT	3.7	2.0		µg/Kg	1	9/19/2013 10:40 AM
Aldrin	ND	1.0		µg/Kg	1	9/19/2013 10:40 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/19/2013 10:40 AM
alpha-Chlordane	2.9	1.0		µg/Kg	1	9/19/2013 10:40 AM
beta-BHC	ND	1.0		µg/Kg	1	9/19/2013 10:40 AM
Chlordane	ND	8.5		µg/Kg	1	9/19/2013 10:40 AM
delta-BHC	ND	1.0		µg/Kg	1	9/19/2013 10:40 AM
Dieldrin	ND	2.0		µg/Kg	1	9/19/2013 10:40 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/19/2013 10:40 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/19/2013 10:40 AM
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/19/2013 10:40 AM
Endrin	ND	2.0		µg/Kg	1	9/19/2013 10:40 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/19/2013 10:40 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/19/2013 10:40 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/19/2013 10:40 AM
gamma-Chlordane	3.5	1.0		µg/Kg	1	9/19/2013 10:40 AM
Heptachlor	ND	1.0		µg/Kg	1	9/19/2013 10:40 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/19/2013 10:40 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/19/2013 10:40 AM
Toxaphene	ND	85		µg/Kg	1	9/19/2013 10:40 AM
Surr: Tetrachloro-m-xylene	50.3	28-161		%REC	1	9/19/2013 10:40 AM
Surr: Decachlorobiphenyl	47.0	28-120		%REC	1	9/19/2013 10:40 AM

PCBS BY GC/ECD

EPA 3550B **EPA 8082**

RunID: GC7_130917B QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Aroclor 1016	ND	17		µg/Kg	1	9/18/2013 11:13 AM
Aroclor 1221	ND	33		µg/Kg	1	9/18/2013 11:13 AM
Aroclor 1232	ND	17		µg/Kg	1	9/18/2013 11:13 AM
Aroclor 1242	ND	17		µg/Kg	1	9/18/2013 11:13 AM
Aroclor 1248	ND	17		µg/Kg	1	9/18/2013 11:13 AM
Aroclor 1254	ND	17		µg/Kg	1	9/18/2013 11:13 AM
Aroclor 1260	ND	17		µg/Kg	1	9/18/2013 11:13 AM
Surr: Decachlorobiphenyl	48.9	40-146		%REC	1	9/18/2013 11:13 AM
Surr: Tetrachloro-m-xylene	49.6	32-109		%REC	1	9/18/2013 11:13 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B1-15.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 11:01:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-016		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B						
RunID: GC4_130918A QC Batch: E13VS096 PrepDate: Analyst: **PN**						
GRO	ND	1.0		mg/Kg	1	9/18/2013 01:30 PM
Surr: Chlorobenzene - d5	104	51-136		%REC	1	9/18/2013 01:30 PM
LEAD BY ICP						
EPA 3050B **EPA 6010B**						
RunID: ICP2_130920C QC Batch: 43905 PrepDate: 9/18/2013 Analyst: **JT**						
Lead	65	5.0		mg/Kg	1	9/20/2013 07:55 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B2-0
Lab Order:	N011009	**Collection Date:**	9/11/2013 11:25:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-017		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3550B				**EPA 8270CSIM**		
RunID: MS3_130918A	QC Batch: 43898			PrepDate:	9/18/2013	Analyst: **MDM**
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/18/2013 11:32 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/18/2013 11:32 PM
Acenaphthylene	37	5.0		µg/Kg	1	9/18/2013 11:32 PM
Anthracene	36	5.0		µg/Kg	1	9/18/2013 11:32 PM
Benzo(a)anthracene	190	50		µg/Kg	10	9/22/2013 04:24 PM
Benzo(a)pyrene	510	50		µg/Kg	10	9/22/2013 04:24 PM
Benzo(b)fluoranthene	460	50		µg/Kg	10	9/22/2013 04:24 PM
Benzo(g,h,i)perylene	330	50		µg/Kg	10	9/22/2013 04:24 PM
Benzo(k)fluoranthene	160	50		µg/Kg	10	9/22/2013 04:24 PM
Chrysene	260	50		µg/Kg	10	9/22/2013 04:24 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/22/2013 04:24 PM
Fluoranthene	640	50		µg/Kg	10	9/22/2013 04:24 PM
Fluorene	8.0	5.0		µg/Kg	1	9/18/2013 11:32 PM
Indeno(1,2,3-cd)pyrene	160	50		µg/Kg	10	9/22/2013 04:24 PM
Naphthalene	5.3	5.0		µg/Kg	1	9/18/2013 11:32 PM
Phenanthrene	180	5.0		µg/Kg	1	9/18/2013 11:32 PM
Pyrene	1100	50		µg/Kg	10	9/22/2013 04:24 PM
Surr: 1,2-Dichlorobenzene-d4	56.1	14-120		%REC	1	9/18/2013 11:32 PM
Surr: 2-Fluorobiphenyl	65.1	28-130		%REC	1	9/18/2013 11:32 PM
Surr: 4-Terphenyl-d14	90.1	19-165		%REC	10	9/22/2013 04:24 PM
Surr: Nitrobenzene-d5	79.1	23-150		%REC	1	9/18/2013 11:32 PM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130920C	QC Batch: 43905			PrepDate:	9/18/2013	Analyst: **JT**
Lead	64	5.0		mg/Kg	1	9/20/2013 08:00 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B2-5
Lab Order:	N011009	**Collection Date:**	9/11/2013 11:27:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-018		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130918A QC Batch: 43898 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/19/2013
Acenaphthene	ND	5.0		µg/Kg	1	9/19/2013
Acenaphthylene	29	5.0		µg/Kg	1	9/19/2013
Anthracene	34	5.0		µg/Kg	1	9/19/2013
Benzo(a)anthracene	340	50		µg/Kg	10	9/22/2013 04:52 PM
Benzo(a)pyrene	ND	100		µg/Kg	20	9/23/2013 02:55 PM
Benzo(b)fluoranthene	120	100		µg/Kg	20	9/23/2013 02:55 PM
Benzo(g,h,i)perylene	ND	100		µg/Kg	20	9/23/2013 02:55 PM
Benzo(k)fluoranthene	ND	100		µg/Kg	20	9/23/2013 02:55 PM
Chrysene	430	50		µg/Kg	10	9/22/2013 04:52 PM
Dibenz(a,h)anthracene	ND	100		µg/Kg	20	9/23/2013 02:55 PM
Fluoranthene	750	50		µg/Kg	10	9/22/2013 04:52 PM
Fluorene	8.0	5.0		µg/Kg	1	9/19/2013
Indeno(1,2,3-cd)pyrene	ND	100		µg/Kg	20	9/23/2013 02:55 PM
Naphthalene	ND	5.0		µg/Kg	1	9/19/2013
Phenanthrene	180	5.0		µg/Kg	1	9/19/2013
Pyrene	1300	50		µg/Kg	10	9/22/2013 04:52 PM
Surr: 1,2-Dichlorobenzene-d4	40.0	14-120		%REC	1	9/19/2013
Surr: 2-Fluorobiphenyl	44.0	28-130		%REC	1	9/19/2013
Surr: 4-Terphenyl-d14	60.1	19-165		%REC	10	9/22/2013 04:52 PM
Surr: Nitrobenzene-d5	54.1	23-150		%REC	1	9/19/2013

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130920C QC Batch: 43905 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	44	5.0		mg/Kg	1	9/20/2013 08:05 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT: Geocon Consultants, Inc.
Lab Order: N011009
Project: 800 Cedar St, E8560-02-55
Lab ID: N011009-019

Client Sample ID: B2-10
Collection Date: 9/11/2013 11:29:00 AM
Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130918A QC Batch: 43898 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/19/2013 12:55 AM
Acenaphthene	ND	5.0		µg/Kg	1	9/19/2013 12:55 AM
Acenaphthylene	ND	5.0		µg/Kg	1	9/19/2013 12:55 AM
Anthracene	ND	5.0		µg/Kg	1	9/19/2013 12:55 AM
Benzo(a)anthracene	ND	50		µg/Kg	10	9/22/2013 05:47 PM
Benzo(a)pyrene	ND	100		µg/Kg	20	9/23/2013 03:50 PM
Benzo(b)fluoranthene	ND	100		µg/Kg	20	9/23/2013 03:50 PM
Benzo(g,h,i)perylene	ND	100		µg/Kg	20	9/23/2013 03:50 PM
Benzo(k)fluoranthene	ND	100		µg/Kg	20	9/23/2013 03:50 PM
Chrysene	ND	50		µg/Kg	10	9/22/2013 05:47 PM
Dibenz(a,h)anthracene	ND	100		µg/Kg	20	9/23/2013 03:50 PM
Fluoranthene	41	5.0		µg/Kg	1	9/19/2013 12:55 AM
Fluorene	ND	5.0		µg/Kg	1	9/19/2013 12:55 AM
Indeno(1,2,3-cd)pyrene	ND	100		µg/Kg	20	9/23/2013 03:50 PM
Naphthalene	ND	5.0		µg/Kg	1	9/19/2013 12:55 AM
Phenanthrene	27	5.0		µg/Kg	1	9/19/2013 12:55 AM
Pyrene	48	5.0		µg/Kg	1	9/19/2013 12:55 AM
Surr: 1,2-Dichlorobenzene-d4	51.1	14-120		%REC	1	9/19/2013 12:55 AM
Surr: 2-Fluorobiphenyl	69.1	28-130		%REC	1	9/19/2013 12:55 AM
Surr: 4-Terphenyl-d14	110	19-165		%REC	10	9/22/2013 05:47 PM
Surr: Nitrobenzene-d5	76.1	23-150		%REC	1	9/19/2013 12:55 AM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130920C QC Batch: 43905 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	13	5.0		mg/Kg	1	9/20/2013 08:10 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B2-15.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 11:31:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-020		

HEXAVALENT CHROMIUM

EPA 3060A **EPA 7196A**

RunID: WETCHEM_130920D QC Batch: 43908 PrepDate: 9/19/2013 Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chromium, Hexavalent	ND	1.0		mg/Kg	1	9/20/2013

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130918A QC Batch: 43898 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/19/2013 01:23 AM
Acenaphthene	ND	5.0		µg/Kg	1	9/19/2013 01:23 AM
Acenaphthylene	ND	5.0		µg/Kg	1	9/19/2013 01:23 AM
Anthracene	ND	5.0		µg/Kg	1	9/19/2013 01:23 AM
Benzo(a)anthracene	ND	50		µg/Kg	10	9/22/2013 06:15 PM
Benzo(a)pyrene	ND	100		µg/Kg	20	9/23/2013 04:18 PM
Benzo(b)fluoranthene	ND	100		µg/Kg	20	9/23/2013 04:18 PM
Benzo(g,h,i)perylene	ND	100		µg/Kg	20	9/23/2013 04:18 PM
Benzo(k)fluoranthene	ND	100		µg/Kg	20	9/23/2013 04:18 PM
Chrysene	ND	50		µg/Kg	10	9/22/2013 06:15 PM
Dibenz(a,h)anthracene	ND	100		µg/Kg	20	9/23/2013 04:18 PM
Fluoranthene	ND	5.0		µg/Kg	1	9/19/2013 01:23 AM
Fluorene	ND	5.0		µg/Kg	1	9/19/2013 01:23 AM
Indeno(1,2,3-cd)pyrene	ND	100		µg/Kg	20	9/23/2013 04:18 PM
Naphthalene	ND	5.0		µg/Kg	1	9/19/2013 01:23 AM
Phenanthrene	ND	5.0		µg/Kg	1	9/19/2013 01:23 AM
Pyrene	ND	5.0		µg/Kg	1	9/19/2013 01:23 AM
Surr: 1,2-Dichlorobenzene-d4	52.1	14-120		%REC	1	9/19/2013 01:23 AM
Surr: 2-Fluorobiphenyl	62.1	28-130		%REC	1	9/19/2013 01:23 AM
Surr: 4-Terphenyl-d14	90.1	19-165		%REC	10	9/22/2013 06:15 PM
Surr: Nitrobenzene-d5	69.1	23-150		%REC	1	9/19/2013 01:23 AM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130920C QC Batch: 43905 PrepDate: 9/18/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	22	5.0		mg/Kg	1	9/20/2013 08:14 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B3-0
Lab Order:	N011009	**Collection Date:**	9/11/2013 12:10:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-021		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC1_130920A	QC Batch: 43899			PrepDate:	9/18/2013	Analyst: **MDM**
DRO	98	5.0		mg/Kg	5	9/20/2013 02:00 PM
ORO	280	5.0		mg/Kg	5	9/20/2013 02:00 PM
Surr: p-Terphenyl	88.2	59-127		%REC	5	9/20/2013 02:00 PM
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471				**EPA 7471A**		
RunID: AA1_130918E	QC Batch: 43891			PrepDate:	9/17/2013	Analyst: **JT**
Mercury	0.15	0.099		mg/Kg	1	9/18/2013
ICP METALS						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130920B	QC Batch: 43913			PrepDate:	9/19/2013	Analyst: **JT**
Antimony	ND	2.0		mg/Kg	1	9/20/2013 02:08 PM
Arsenic	5.2	1.0		mg/Kg	1	9/20/2013 02:08 PM
Barium	190	1.0		mg/Kg	1	9/20/2013 02:08 PM
Beryllium	ND	1.0		mg/Kg	1	9/20/2013 02:08 PM
Cadmium	ND	1.0		mg/Kg	1	9/20/2013 02:08 PM
Chromium	38	1.0		mg/Kg	1	9/20/2013 02:08 PM
Cobalt	12	1.0		mg/Kg	1	9/20/2013 02:08 PM
Copper	36	2.0		mg/Kg	1	9/20/2013 02:08 PM
Lead	58	1.0		mg/Kg	1	9/20/2013 02:08 PM
Molybdenum	ND	1.0		mg/Kg	1	9/20/2013 02:08 PM
Nickel	33	1.0		mg/Kg	1	9/20/2013 02:08 PM
Selenium	1.9	1.0		mg/Kg	1	9/20/2013 02:08 PM
Silver	ND	1.0		mg/Kg	1	9/20/2013 02:08 PM
Thallium	ND	1.0		mg/Kg	1	9/20/2013 02:08 PM
Vanadium	52	1.0		mg/Kg	1	9/20/2013 02:08 PM
Zinc	89	1.0		mg/Kg	1	9/20/2013 02:08 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B3-5
Lab Order:	N011009	**Collection Date:**	9/11/2013 12:12:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-022		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC1_130920A	QC Batch: 43899			PrepDate: 9/18/2013		Analyst: **MDM**
DRO	31	5.0		mg/Kg	5	9/20/2013 02:26 PM
ORO	110	5.0		mg/Kg	5	9/20/2013 02:26 PM
Surr: p-Terphenyl	97.4	59-127		%REC	5	9/20/2013 02:26 PM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43905			PrepDate: 9/18/2013		Analyst: **CEI**
Lead	200	5.0		mg/Kg	1	9/23/2013 05:06 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B3-10
Lab Order:	N011009	**Collection Date:**	9/11/2013 12:14:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-023		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/20/2013 03:45 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
Benzene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
Bromoform	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
Bromomethane	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
Chloroethane	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
Chloroform	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
Chloromethane	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B3-10
Lab Order:	N011009	**Collection Date:**	9/11/2013 12:14:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-023		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
m,p-Xylene	ND	10		µg/Kg	1	9/20/2013 03:45 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
MTBE	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
Naphthalene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
o-Xylene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
Styrene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
Toluene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/20/2013 03:45 PM
Surr: 1,2-Dichloroethane-d4	81.2	63-139		%REC	1	9/20/2013 03:45 PM
Surr: 4-Bromofluorobenzene	82.6	75-124		%REC	1	9/20/2013 03:45 PM
Surr: Dibromofluoromethane	80.1	70-133		%REC	1	9/20/2013 03:45 PM
Surr: Toluene-d8	87.8	80-123		%REC	1	9/20/2013 03:45 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130920A QC Batch: 43899 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	69	5.0		mg/Kg	5	9/20/2013 02:51 PM
ORO	250	5.0		mg/Kg	5	9/20/2013 02:51 PM
Surr: p-Terphenyl	109	59-127		%REC	5	9/20/2013 02:51 PM

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919A QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B3-10
Lab Order:	N011009	**Collection Date:**	9/11/2013 12:14:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-023		

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919A QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
4,4´-DDD	ND	2.0		µg/Kg	1	9/19/2013 11:06 AM
4,4´-DDE	ND	2.0		µg/Kg	1	9/19/2013 11:06 AM
4,4´-DDT	2.2	2.0		µg/Kg	1	9/19/2013 11:06 AM
Aldrin	ND	1.0		µg/Kg	1	9/19/2013 11:06 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/19/2013 11:06 AM
alpha-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 11:06 AM
beta-BHC	ND	1.0		µg/Kg	1	9/19/2013 11:06 AM
Chlordane	ND	8.5		µg/Kg	1	9/19/2013 11:06 AM
delta-BHC	ND	1.0		µg/Kg	1	9/19/2013 11:06 AM
Dieldrin	4.5	2.0		µg/Kg	1	9/19/2013 11:06 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/19/2013 11:06 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/19/2013 11:06 AM
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/19/2013 11:06 AM
Endrin	ND	2.0		µg/Kg	1	9/19/2013 11:06 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/19/2013 11:06 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/19/2013 11:06 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/19/2013 11:06 AM
gamma-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 11:06 AM
Heptachlor	ND	1.0		µg/Kg	1	9/19/2013 11:06 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/19/2013 11:06 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/19/2013 11:06 AM
Toxaphene	ND	85		µg/Kg	1	9/19/2013 11:06 AM
Surr: Tetrachloro-m-xylene	64.0	28-161		%REC	1	9/19/2013 11:06 AM
Surr: Decachlorobiphenyl	59.0	28-120		%REC	1	9/19/2013 11:06 AM

PCBS BY GC/ECD

EPA 3550B **EPA 8082**

RunID: GC7_130917B QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Aroclor 1016	ND	16		µg/Kg	1	9/18/2013 11:42 AM
Aroclor 1221	ND	33		µg/Kg	1	9/18/2013 11:42 AM
Aroclor 1232	ND	16		µg/Kg	1	9/18/2013 11:42 AM
Aroclor 1242	ND	16		µg/Kg	1	9/18/2013 11:42 AM
Aroclor 1248	ND	16		µg/Kg	1	9/18/2013 11:42 AM
Aroclor 1254	ND	16		µg/Kg	1	9/18/2013 11:42 AM
Aroclor 1260	ND	16		µg/Kg	1	9/18/2013 11:42 AM
Surr: Decachlorobiphenyl	67.6	40-146		%REC	1	9/18/2013 11:42 AM
Surr: Tetrachloro-m-xylene	71.6	32-109		%REC	1	9/18/2013 11:42 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B3-10
Lab Order:	N011009	**Collection Date:**	9/11/2013 12:14:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-023		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130918A QC Batch: E13VS096 PrepDate: Analyst: **PN**

GRO	ND	1.0		mg/Kg	1	9/18/2013 08:17 PM
Surr: Chlorobenzene - d5	91.7	51-136		%REC	1	9/18/2013 08:17 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43891 PrepDate: 9/17/2013 Analyst: **JT**

Mercury	ND	0.099		mg/Kg	1	9/18/2013

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130920B QC Batch: 43913 PrepDate: 9/19/2013 Analyst: **JT**

Antimony	ND	2.0		mg/Kg	1	9/20/2013 02:15 PM
Arsenic	8.9	1.0		mg/Kg	1	9/20/2013 02:15 PM
Barium	92	1.0		mg/Kg	1	9/20/2013 02:15 PM
Beryllium	ND	1.0		mg/Kg	1	9/20/2013 02:15 PM
Cadmium	ND	1.0		mg/Kg	1	9/20/2013 02:15 PM
Chromium	24	1.0		mg/Kg	1	9/20/2013 02:15 PM
Cobalt	7.6	1.0		mg/Kg	1	9/20/2013 02:15 PM
Copper	21	2.0		mg/Kg	1	9/20/2013 02:15 PM
Lead	13	1.0		mg/Kg	1	9/20/2013 02:15 PM
Molybdenum	ND	1.0		mg/Kg	1	9/20/2013 02:15 PM
Nickel	19	1.0		mg/Kg	1	9/20/2013 02:15 PM
Selenium	1.9	1.0		mg/Kg	1	9/20/2013 02:15 PM
Silver	ND	1.0		mg/Kg	1	9/20/2013 02:15 PM
Thallium	ND	1.0		mg/Kg	1	9/20/2013 02:15 PM
Vanadium	32	1.0		mg/Kg	1	9/20/2013 02:15 PM
Zinc	82	1.0		mg/Kg	1	9/20/2013 02:15 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B3-15.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 12:16:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-024		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/20/2013 02:41 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
Benzene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
Bromoform	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
Bromomethane	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
Chloroethane	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
Chloroform	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
Chloromethane	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

S Spike/Surrogate outside of limits due to matrix interference

DO Surrogate Diluted Out

E Value above quantitation range

ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B3-15.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 12:16:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-024		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
m,p-Xylene	ND	10		µg/Kg	1	9/20/2013 02:41 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
MTBE	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
Naphthalene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
o-Xylene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
Styrene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
Toluene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/20/2013 02:41 PM
Surr: 1,2-Dichloroethane-d4	95.0	63-139		%REC	1	9/20/2013 02:41 PM
Surr: 4-Bromofluorobenzene	79.7	75-124		%REC	1	9/20/2013 02:41 PM
Surr: Dibromofluoromethane	91.9	70-133		%REC	1	9/20/2013 02:41 PM
Surr: Toluene-d8	83.2	80-123		%REC	1	9/20/2013 02:41 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130920B QC Batch: 43915 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	15	1.0		mg/Kg	1	9/20/2013 05:49 PM
ORO	36	1.0		mg/Kg	1	9/20/2013 05:49 PM
Surr: p-Terphenyl	87.2	59-127		%REC	1	9/20/2013 05:49 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130918A QC Batch: E13VS096 PrepDate: Analyst: **PN**

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B3-15.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 12:16:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-024		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B						
RunID: GC4_130918A QC Batch: E13VS096 PrepDate: Analyst: **PN**						
GRO	ND	1.0		mg/Kg	1	9/18/2013 04:26 PM
Surr: Chlorobenzene - d5	101	51-136		%REC	1	9/18/2013 04:26 PM
LEAD BY ICP						
EPA 3050B **EPA 6010B**						
RunID: ICP2_130923A QC Batch: 43905 PrepDate: 9/18/2013 Analyst: **CEI**						
Lead	27	5.0		mg/Kg	1	9/23/2013 05:42 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B4-0
Lab Order:	N011009	**Collection Date:**	9/11/2013 12:40:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-025		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130918A QC Batch: 43898 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/19/2013 01:51 AM
Acenaphthene	ND	5.0		µg/Kg	1	9/19/2013 01:51 AM
Acenaphthylene	ND	5.0		µg/Kg	1	9/19/2013 01:51 AM
Anthracene	ND	5.0		µg/Kg	1	9/19/2013 01:51 AM
Benzo(a)anthracene	ND	50		µg/Kg	10	9/22/2013 06:42 PM
Benzo(a)pyrene	ND	100		µg/Kg	20	9/23/2013 04:45 PM
Benzo(b)fluoranthene	ND	100		µg/Kg	20	9/23/2013 04:45 PM
Benzo(g,h,i)perylene	ND	100		µg/Kg	20	9/23/2013 04:45 PM
Benzo(k)fluoranthene	ND	100		µg/Kg	20	9/23/2013 04:45 PM
Chrysene	ND	50		µg/Kg	10	9/22/2013 06:42 PM
Dibenz(a,h)anthracene	ND	100		µg/Kg	20	9/23/2013 04:45 PM
Fluoranthene	17	5.0		µg/Kg	1	9/19/2013 01:51 AM
Fluorene	ND	5.0		µg/Kg	1	9/19/2013 01:51 AM
Indeno(1,2,3-cd)pyrene	ND	100		µg/Kg	20	9/23/2013 04:45 PM
Naphthalene	ND	5.0		µg/Kg	1	9/19/2013 01:51 AM
Phenanthrene	11	5.0		µg/Kg	1	9/19/2013 01:51 AM
Pyrene	25	5.0		µg/Kg	1	9/19/2013 01:51 AM
Surr: 1,2-Dichlorobenzene-d4	54.1	14-120		%REC	1	9/19/2013 01:51 AM
Surr: 2-Fluorobiphenyl	63.1	28-130		%REC	1	9/19/2013 01:51 AM
Surr: 4-Terphenyl-d14	100	19-165		%REC	10	9/22/2013 06:42 PM
Surr: Nitrobenzene-d5	73.1	23-150		%REC	1	9/19/2013 01:51 AM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130923A QC Batch: 43905 PrepDate: 9/18/2013 Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	24	5.0		mg/Kg	1	9/23/2013 06:03 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT: Geocon Consultants, Inc.
Lab Order: N011009
Project: 800 Cedar St, E8560-02-55
Lab ID: N011009-026

Client Sample ID: B4-5
Collection Date: 9/11/2013 12:42:00 PM
Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130918A QC Batch: 43898 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/19/2013 02:18 AM
Acenaphthene	ND	5.0		µg/Kg	1	9/19/2013 02:18 AM
Acenaphthylene	ND	5.0		µg/Kg	1	9/19/2013 02:18 AM
Anthracene	20	5.0		µg/Kg	1	9/19/2013 02:18 AM
Benzo(a)anthracene	90	50		µg/Kg	10	9/22/2013 07:10 PM
Benzo(a)pyrene	ND	100		µg/Kg	20	9/23/2013 05:13 PM
Benzo(b)fluoranthene	ND	100		µg/Kg	20	9/23/2013 05:13 PM
Benzo(g,h,i)perylene	ND	100		µg/Kg	20	9/23/2013 05:13 PM
Benzo(k)fluoranthene	ND	100		µg/Kg	20	9/23/2013 05:13 PM
Chrysene	83	50		µg/Kg	10	9/22/2013 07:10 PM
Dibenz(a,h)anthracene	ND	100		µg/Kg	20	9/23/2013 05:13 PM
Fluoranthene	160	5.0		µg/Kg	1	9/19/2013 02:18 AM
Fluorene	ND	5.0		µg/Kg	1	9/19/2013 02:18 AM
Indeno(1,2,3-cd)pyrene	ND	100		µg/Kg	20	9/23/2013 05:13 PM
Naphthalene	ND	5.0		µg/Kg	1	9/19/2013 02:18 AM
Phenanthrene	110	5.0		µg/Kg	1	9/19/2013 02:18 AM
Pyrene	110	5.0		µg/Kg	1	9/19/2013 02:18 AM
Surr: 1,2-Dichlorobenzene-d4	54.1	14-120		%REC	1	9/19/2013 02:18 AM
Surr: 2-Fluorobiphenyl	69.1	28-130		%REC	1	9/19/2013 02:18 AM
Surr: 4-Terphenyl-d14	100	19-165		%REC	10	9/22/2013 07:10 PM
Surr: Nitrobenzene-d5	76.1	23-150		%REC	1	9/19/2013 02:18 AM

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919A QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
4,4´-DDD	ND	2.0		µg/Kg	1	9/19/2013 11:32 AM
4,4´-DDE	ND	2.0		µg/Kg	1	9/19/2013 11:32 AM
4,4´-DDT	ND	2.0		µg/Kg	1	9/19/2013 11:32 AM
Aldrin	ND	1.0		µg/Kg	1	9/19/2013 11:32 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/19/2013 11:32 AM
alpha-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 11:32 AM
beta-BHC	ND	1.0		µg/Kg	1	9/19/2013 11:32 AM
Chlordane	ND	8.5		µg/Kg	1	9/19/2013 11:32 AM
delta-BHC	ND	1.0		µg/Kg	1	9/19/2013 11:32 AM
Dieldrin	ND	2.0		µg/Kg	1	9/19/2013 11:32 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/19/2013 11:32 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/19/2013 11:32 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B4-5
Lab Order:	N011009	**Collection Date:**	9/11/2013 12:42:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-026		

Analyses	**Result**	**PQL**	**Qual**	**Units**	**DF**	**Date Analyzed**
ORGANOCHLORINE PESTICIDES BY GC/ECD						
EPA 3550B				**EPA 8081A**		
RunID: GC7_130919A	QC Batch: 43887			PrepDate:	9/17/2013	Analyst: **MDM**
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/19/2013 11:32 AM
Endrin	ND	2.0		µg/Kg	1	9/19/2013 11:32 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/19/2013 11:32 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/19/2013 11:32 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/19/2013 11:32 AM
gamma-Chlordane	ND	1.0		µg/Kg	1	9/19/2013 11:32 AM
Heptachlor	ND	1.0		µg/Kg	1	9/19/2013 11:32 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/19/2013 11:32 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/19/2013 11:32 AM
Toxaphene	ND	85		µg/Kg	1	9/19/2013 11:32 AM
Surr: Tetrachloro-m-xylene	56.7	28-161		%REC	1	9/19/2013 11:32 AM
Surr: Decachlorobiphenyl	57.1	28-120		%REC	1	9/19/2013 11:32 AM
PCBS BY GC/ECD						
EPA 3550B				**EPA 8082**		
RunID: GC7_130917B	QC Batch: 43887			PrepDate:	9/17/2013	Analyst: **MDM**
Aroclor 1016	ND	17		µg/Kg	1	9/18/2013 12:12 PM
Aroclor 1221	ND	33		µg/Kg	1	9/18/2013 12:12 PM
Aroclor 1232	ND	17		µg/Kg	1	9/18/2013 12:12 PM
Aroclor 1242	ND	17		µg/Kg	1	9/18/2013 12:12 PM
Aroclor 1248	ND	17		µg/Kg	1	9/18/2013 12:12 PM
Aroclor 1254	ND	17		µg/Kg	1	9/18/2013 12:12 PM
Aroclor 1260	ND	17		µg/Kg	1	9/18/2013 12:12 PM
Surr: Decachlorobiphenyl	59.3	40-146		%REC	1	9/18/2013 12:12 PM
Surr: Tetrachloro-m-xylene	66.4	32-109		%REC	1	9/18/2013 12:12 PM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43905			PrepDate:	9/18/2013	Analyst: **CEI**
Lead	18	5.0		mg/Kg	1	9/23/2013 05:16 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B4-10
Lab Order:	N011009	**Collection Date:**	9/11/2013 12:44:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-027		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3550B				**EPA 8270CSIM**		
RunID: MS3_130918A	QC Batch: 43898			PrepDate: 9/18/2013		Analyst: **MDM**
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/19/2013 02:46 AM
Acenaphthene	ND	5.0		µg/Kg	1	9/19/2013 02:46 AM
Acenaphthylene	ND	5.0		µg/Kg	1	9/19/2013 02:46 AM
Anthracene	ND	5.0		µg/Kg	1	9/19/2013 02:46 AM
Benzo(a)anthracene	ND	50		µg/Kg	10	9/22/2013 07:38 PM
Benzo(a)pyrene	ND	100		µg/Kg	20	9/23/2013 05:41 PM
Benzo(b)fluoranthene	ND	100		µg/Kg	20	9/23/2013 05:41 PM
Benzo(g,h,i)perylene	ND	100		µg/Kg	20	9/23/2013 05:41 PM
Benzo(k)fluoranthene	ND	100		µg/Kg	20	9/23/2013 05:41 PM
Chrysene	ND	50		µg/Kg	10	9/22/2013 07:38 PM
Dibenz(a,h)anthracene	ND	100		µg/Kg	20	9/23/2013 05:41 PM
Fluoranthene	15	5.0		µg/Kg	1	9/19/2013 02:46 AM
Fluorene	ND	5.0		µg/Kg	1	9/19/2013 02:46 AM
Indeno(1,2,3-cd)pyrene	ND	100		µg/Kg	20	9/23/2013 05:41 PM
Naphthalene	ND	5.0		µg/Kg	1	9/19/2013 02:46 AM
Phenanthrene	10	5.0		µg/Kg	1	9/19/2013 02:46 AM
Pyrene	15	5.0		µg/Kg	1	9/19/2013 02:46 AM
Surr: 1,2-Dichlorobenzene-d4	55.1	14-120		%REC	1	9/19/2013 02:46 AM
Surr: 2-Fluorobiphenyl	64.1	28-130		%REC	1	9/19/2013 02:46 AM
Surr: 4-Terphenyl-d14	80.1	19-165		%REC	10	9/22/2013 07:38 PM
Surr: Nitrobenzene-d5	80.1	23-150		%REC	1	9/19/2013 02:46 AM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43905			PrepDate: 9/18/2013		Analyst: **CEI**
Lead	42	5.0		mg/Kg	1	9/23/2013 05:21 PM

Qualifiers:				
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B4-15.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 12:46:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-028		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM
EPA 3550B **EPA 8270CSIM**

RunID: MS3_130919C QC Batch: 43910 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/19/2013 06:52 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/19/2013 06:52 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/19/2013 06:52 PM
Anthracene	ND	5.0		µg/Kg	1	9/19/2013 06:52 PM
Benzo(a)anthracene	ND	5.0		µg/Kg	1	9/19/2013 06:52 PM
Benzo(a)pyrene	ND	5.0		µg/Kg	1	9/19/2013 06:52 PM
Benzo(b)fluoranthene	6.4	5.0		µg/Kg	1	9/19/2013 06:52 PM
Benzo(g,h,i)perylene	ND	5.0		µg/Kg	1	9/19/2013 06:52 PM
Benzo(k)fluoranthene	ND	5.0		µg/Kg	1	9/19/2013 06:52 PM
Chrysene	ND	5.0		µg/Kg	1	9/19/2013 06:52 PM
Dibenz(a,h)anthracene	ND	5.0		µg/Kg	1	9/19/2013 06:52 PM
Fluoranthene	5.0	5.0		µg/Kg	1	9/19/2013 06:52 PM
Fluorene	ND	5.0		µg/Kg	1	9/19/2013 06:52 PM
Indeno(1,2,3-cd)pyrene	ND	5.0		µg/Kg	1	9/19/2013 06:52 PM
Naphthalene	ND	5.0		µg/Kg	1	9/19/2013 06:52 PM
Phenanthrene	ND	5.0		µg/Kg	1	9/19/2013 06:52 PM
Pyrene	5.7	5.0		µg/Kg	1	9/19/2013 06:52 PM
Surr: 1,2-Dichlorobenzene-d4	38.0	14-120		%REC	1	9/19/2013 06:52 PM
Surr: 2-Fluorobiphenyl	46.0	28-130		%REC	1	9/19/2013 06:52 PM
Surr: 4-Terphenyl-d14	55.1	19-165		%REC	1	9/19/2013 06:52 PM
Surr: Nitrobenzene-d5	71.1	23-150		%REC	1	9/19/2013 06:52 PM

MERCURY BY COLD VAPOR TECHNIQUE
EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43891 PrepDate: 9/17/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	ND	0.10		mg/Kg	1	9/18/2013

ICP METALS
EPA 3050B **EPA 6010B**

RunID: ICP2_130920B QC Batch: 43913 PrepDate: 9/19/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/20/2013 03:04 PM
Arsenic	3.3	1.0		mg/Kg	1	9/20/2013 03:04 PM
Barium	130	1.0		mg/Kg	1	9/20/2013 03:04 PM
Beryllium	ND	1.0		mg/Kg	1	9/20/2013 03:04 PM
Cadmium	ND	1.0		mg/Kg	1	9/20/2013 03:04 PM
Chromium	28	1.0		mg/Kg	1	9/20/2013 03:04 PM
Cobalt	8.3	1.0		mg/Kg	1	9/20/2013 03:04 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B4-15.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 12:46:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-028		

ICP METALS — **EPA 3050B** — **EPA 6010B**

RunID: ICP2_130920B QC Batch: 43913 PrepDate: 9/19/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Copper	17	2.0		mg/Kg	1	9/20/2013 03:04 PM
Lead	30	1.0		mg/Kg	1	9/20/2013 03:04 PM
Molybdenum	ND	1.0		mg/Kg	1	9/20/2013 03:04 PM
Nickel	24	1.0		mg/Kg	1	9/20/2013 03:04 PM
Selenium	1.1	1.0		mg/Kg	1	9/20/2013 03:04 PM
Silver	ND	1.0		mg/Kg	1	9/20/2013 03:04 PM
Thallium	ND	1.0		mg/Kg	1	9/20/2013 03:04 PM
Vanadium	32	1.0		mg/Kg	1	9/20/2013 03:04 PM
Zinc	60	1.0		mg/Kg	1	9/20/2013 03:04 PM

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B5-0
Lab Order:	N011009	**Collection Date:**	9/11/2013 1:10:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-029		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC1_130920B	QC Batch: 43915			PrepDate: 9/19/2013		Analyst: **MDM**
DRO	68	5.0		mg/Kg	5	9/20/2013 06:15 PM
ORO	210	5.0		mg/Kg	5	9/20/2013 06:15 PM
Surr: p-Terphenyl	101	59-127		%REC	5	9/20/2013 06:15 PM
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471				**EPA 7471A**		
RunID: AA1_130918E	QC Batch: 43891			PrepDate: 9/17/2013		Analyst: **JT**
Mercury	0.16	0.10		mg/Kg	1	9/18/2013
ICP METALS						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130920B	QC Batch: 43913			PrepDate: 9/19/2013		Analyst: **JT**
Antimony	ND	2.0		mg/Kg	1	9/20/2013 03:18 PM
Arsenic	11	1.0		mg/Kg	1	9/20/2013 03:18 PM
Barium	120	1.0		mg/Kg	1	9/20/2013 03:18 PM
Beryllium	ND	1.0		mg/Kg	1	9/20/2013 03:18 PM
Cadmium	ND	1.0		mg/Kg	1	9/20/2013 03:18 PM
Chromium	22	1.0		mg/Kg	1	9/20/2013 03:18 PM
Cobalt	8.8	1.0		mg/Kg	1	9/20/2013 03:18 PM
Copper	28	2.0		mg/Kg	1	9/20/2013 03:18 PM
Lead	12	1.0		mg/Kg	1	9/20/2013 03:18 PM
Molybdenum	ND	1.0		mg/Kg	1	9/20/2013 03:18 PM
Nickel	18	1.0		mg/Kg	1	9/20/2013 03:18 PM
Selenium	2.7	1.0		mg/Kg	1	9/20/2013 03:18 PM
Silver	ND	1.0		mg/Kg	1	9/20/2013 03:18 PM
Thallium	ND	1.0		mg/Kg	1	9/20/2013 03:18 PM
Vanadium	36	1.0		mg/Kg	1	9/20/2013 03:18 PM
Zinc	86	1.0		mg/Kg	1	9/20/2013 03:18 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B5-5
Lab Order:	N011009	**Collection Date:**	9/11/2013 1:12:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-030		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM						
EPA 3060A				EPA 7196A		
RunID: WETCHEM_130920D	QC Batch: 43908			PrepDate: 9/19/2013		Analyst: **QBM**
Chromium, Hexavalent	ND	1.0		mg/Kg	1	9/20/2013
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS6_130920A	QC Batch: Q13VS002			PrepDate:		Analyst: **QBM**
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/20/2013 03:02 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
Benzene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
Bromoform	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
Bromomethane	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
Chloroethane	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B5-5
Lab Order:	N011009	**Collection Date:**	9/11/2013 1:12:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-030		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chloroform	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
Chloromethane	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
m,p-Xylene	ND	10		µg/Kg	1	9/20/2013 03:02 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
MTBE	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
Naphthalene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
o-Xylene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
Styrene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
Toluene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/20/2013 03:02 PM
Surr: 1,2-Dichloroethane-d4	82.0	63-139		%REC	1	9/20/2013 03:02 PM
Surr: 4-Bromofluorobenzene	79.6	75-124		%REC	1	9/20/2013 03:02 PM
Surr: Dibromofluoromethane	84.7	70-133		%REC	1	9/20/2013 03:02 PM
Surr: Toluene-d8	88.7	80-123		%REC	1	9/20/2013 03:02 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130920B QC Batch: 43915 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	90	5.0		mg/Kg	5	9/20/2013 07:06 PM
ORO	160	5.0		mg/Kg	5	9/20/2013 07:06 PM
Surr: p-Terphenyl	95.0	59-127		%REC	5	9/20/2013 07:06 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B5-5
Lab Order:	N011009	**Collection Date:**	9/11/2013 1:12:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-030		

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130918A QC Batch: E13VS096 PrepDate: Analyst: **PN**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GRO	ND	1.0		mg/Kg	1	9/18/2013 08:46 PM
Surr: Chlorobenzene - d5	102	51-136		%REC	1	9/18/2013 08:46 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43891 PrepDate: 9/17/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	0.11	0.10		mg/Kg	1	9/18/2013

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130920B QC Batch: 43913 PrepDate: 9/19/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/20/2013 03:25 PM
Arsenic	56	1.0		mg/Kg	1	9/20/2013 03:25 PM
Barium	88	1.0		mg/Kg	1	9/20/2013 03:25 PM
Beryllium	ND	1.0		mg/Kg	1	9/20/2013 03:25 PM
Cadmium	ND	1.0		mg/Kg	1	9/20/2013 03:25 PM
Chromium	17	1.0		mg/Kg	1	9/20/2013 03:25 PM
Cobalt	9.2	1.0		mg/Kg	1	9/20/2013 03:25 PM
Copper	56	2.0		mg/Kg	1	9/20/2013 03:25 PM
Lead	200	1.0		mg/Kg	1	9/20/2013 03:25 PM
Molybdenum	4.2	1.0		mg/Kg	1	9/20/2013 03:25 PM
Nickel	17	1.0		mg/Kg	1	9/20/2013 03:25 PM
Selenium	1.8	1.0		mg/Kg	1	9/20/2013 03:25 PM
Silver	ND	1.0		mg/Kg	1	9/20/2013 03:25 PM
Thallium	ND	1.0		mg/Kg	1	9/20/2013 03:25 PM
Vanadium	36	1.0		mg/Kg	1	9/20/2013 03:25 PM
Zinc	180	1.0		mg/Kg	1	9/20/2013 03:25 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT: Geocon Consultants, Inc.
Lab Order: N011009
Project: 800 Cedar St, E8560-02-55
Lab ID: N011009-031

Client Sample ID: B5-10
Collection Date: 9/11/2013 1:14:00 PM
Matrix: SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/20/2013 05:32 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
Benzene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
Bromoform	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
Bromomethane	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
Chloroethane	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
Chloroform	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
Chloromethane	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B5-10
Lab Order:	N011009	**Collection Date:**	9/11/2013 1:14:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-031		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
m,p-Xylene	ND	10		µg/Kg	1	9/20/2013 05:32 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
MTBE	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
Naphthalene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
o-Xylene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
Styrene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
Toluene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/20/2013 05:32 PM
Surr: 1,2-Dichloroethane-d4	85.7	63-139		%REC	1	9/20/2013 05:32 PM
Surr: 4-Bromofluorobenzene	87.6	75-124		%REC	1	9/20/2013 05:32 PM
Surr: Dibromofluoromethane	88.1	70-133		%REC	1	9/20/2013 05:32 PM
Surr: Toluene-d8	94.5	80-123		%REC	1	9/20/2013 05:32 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130920B QC Batch: 43915 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	6.0	1.0		mg/Kg	1	9/20/2013 07:31 PM
ORO	13	1.0		mg/Kg	1	9/20/2013 07:31 PM
Surr: p-Terphenyl	101	59-127		%REC	1	9/20/2013 07:31 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130918A QC Batch: E13VS096 PrepDate: Analyst: **PN**

CLIENT: Geocon Consultants, Inc.
Lab Order: N011009
Project: 800 Cedar St, E8560-02-55
Lab ID: N011009-031

Client Sample ID: B5-10
Collection Date: 9/11/2013 1:14:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B		
RunID: GC4_130918A	QC Batch: E13VS096			PrepDate:		Analyst: **PN**
GRO	ND	1.0		mg/Kg	1	9/18/2013 09:15 PM
Surr: Chlorobenzene - d5	106	51-136		%REC	1	9/18/2013 09:15 PM
LEAD BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43905			PrepDate:	9/18/2013	Analyst: **CEI**
Lead	18	5.0		mg/Kg	1	9/23/2013 05:25 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B5-13.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 1:16:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-032		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/20/2013 05:53 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
Benzene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
Bromoform	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
Bromomethane	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
Chloroethane	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
Chloroform	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
Chloromethane	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B5-13.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 1:16:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-032		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
m,p-Xylene	ND	10		µg/Kg	1	9/20/2013 05:53 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
MTBE	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
Naphthalene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
o-Xylene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
Styrene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
Toluene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/20/2013 05:53 PM
Surr: 1,2-Dichloroethane-d4	92.8	63-139		%REC	1	9/20/2013 05:53 PM
Surr: 4-Bromofluorobenzene	86.3	75-124		%REC	1	9/20/2013 05:53 PM
Surr: Dibromofluoromethane	91.3	70-133		%REC	1	9/20/2013 05:53 PM
Surr: Toluene-d8	88.5	80-123		%REC	1	9/20/2013 05:53 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130920B QC Batch: 43915 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	4.7	1.0		mg/Kg	1	9/20/2013 07:57 PM
ORO	12	1.0		mg/Kg	1	9/20/2013 07:57 PM
Surr: p-Terphenyl	87.4	59-127		%REC	1	9/20/2013 07:57 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130919A QC Batch: E13VS097 PrepDate: Analyst: **PN**

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B5-13.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 1:16:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-032		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B		
RunID: GC4_130919A	QC Batch: E13VS097			PrepDate:		Analyst: **PN**
GRO	ND	1.0		mg/Kg	1	9/19/2013 11:39 AM
Surr: Chlorobenzene - d5	102	51-136		%REC	1	9/19/2013 11:39 AM
LEAD BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43905			PrepDate:	9/18/2013	Analyst: **CEI**
Lead	12	5.0		mg/Kg	1	9/23/2013 05:29 PM

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B6-0
Lab Order:	N011009	**Collection Date:**	9/11/2013 1:40:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-033		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM
EPA 3550B **EPA 8270CSIM**

RunID: MS3_130921B QC Batch: 43910 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	10		µg/Kg	2	9/21/2013 02:57 PM
Acenaphthene	ND	10		µg/Kg	2	9/21/2013 02:57 PM
Acenaphthylene	ND	10		µg/Kg	2	9/21/2013 02:57 PM
Anthracene	13	10		µg/Kg	2	9/21/2013 02:57 PM
Benzo(a)anthracene	93	10		µg/Kg	2	9/21/2013 02:57 PM
Benzo(a)pyrene	ND	50		µg/Kg	10	9/22/2013 10:53 PM
Benzo(b)fluoranthene	73	50		µg/Kg	10	9/22/2013 10:53 PM
Benzo(g,h,i)perylene	ND	50		µg/Kg	10	9/22/2013 10:53 PM
Benzo(k)fluoranthene	ND	50		µg/Kg	10	9/22/2013 10:53 PM
Chrysene	110	10		µg/Kg	2	9/21/2013 02:57 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/22/2013 10:53 PM
Fluoranthene	210	10		µg/Kg	2	9/21/2013 02:57 PM
Fluorene	ND	10		µg/Kg	2	9/21/2013 02:57 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/Kg	10	9/22/2013 10:53 PM
Naphthalene	ND	10		µg/Kg	2	9/21/2013 02:57 PM
Phenanthrene	57	10		µg/Kg	2	9/21/2013 02:57 PM
Pyrene	290	10		µg/Kg	2	9/21/2013 02:57 PM
Surr: 1,2-Dichlorobenzene-d4	48.0	14-120		%REC	2	9/21/2013 02:57 PM
Surr: 2-Fluorobiphenyl	46.0	28-130		%REC	2	9/21/2013 02:57 PM
Surr: 4-Terphenyl-d14	70.1	19-165		%REC	2	9/21/2013 02:57 PM
Surr: Nitrobenzene-d5	50.1	23-150		%REC	2	9/21/2013 02:57 PM

LEAD BY ICP
EPA 3050B **EPA 6010B**

RunID: ICP2_130923A QC Batch: 43905 PrepDate: 9/18/2013 Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	32	5.0		mg/Kg	1	9/23/2013 05:34 PM

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B6-5
Lab Order:	N011009	**Collection Date:**	9/11/2013 1:42:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-034		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM
EPA 3550B **EPA 8270CSIM**

RunID: MS3_130921B QC Batch: 43910 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	22	10		µg/Kg	2	9/21/2013 09:36 PM
Acenaphthene	15	10		µg/Kg	2	9/21/2013 09:36 PM
Acenaphthylene	ND	1000		µg/Kg	200	9/21/2013 03:53 PM
Anthracene	ND	1000		µg/Kg	200	9/21/2013 03:53 PM
Benzo(a)anthracene	5300	1000		µg/Kg	200	9/21/2013 03:53 PM
Benzo(a)pyrene	7400	1000		µg/Kg	200	9/21/2013 03:53 PM
Benzo(b)fluoranthene	11000	1000		µg/Kg	200	9/21/2013 03:53 PM
Benzo(g,h,i)perylene	3900	1000		µg/Kg	200	9/21/2013 03:53 PM
Benzo(k)fluoranthene	4000	1000		µg/Kg	200	9/21/2013 03:53 PM
Chrysene	6200	1000		µg/Kg	200	9/21/2013 03:53 PM
Dibenz(a,h)anthracene	ND	1000		µg/Kg	200	9/21/2013 03:53 PM
Fluoranthene	18000	1000		µg/Kg	200	9/21/2013 03:53 PM
Fluorene	57	10		µg/Kg	2	9/21/2013 09:36 PM
Indeno(1,2,3-cd)pyrene	3600	1000		µg/Kg	200	9/21/2013 03:53 PM
Naphthalene	110	10		µg/Kg	2	9/21/2013 09:36 PM
Phenanthrene	5800	1000		µg/Kg	200	9/21/2013 03:53 PM
Pyrene	20000	1000		µg/Kg	200	9/21/2013 03:53 PM
Surr: 1,2-Dichlorobenzene-d4	46.0	14-120		%REC	2	9/21/2013 09:36 PM
Surr: 2-Fluorobiphenyl	44.0	28-130		%REC	2	9/21/2013 09:36 PM
Surr: 4-Terphenyl-d14	200	19-165	SDO	%REC	200	9/21/2013 03:53 PM
Surr: Nitrobenzene-d5	48.0	23-150		%REC	2	9/21/2013 09:36 PM

MERCURY BY COLD VAPOR TECHNIQUE
EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43891 PrepDate: 9/17/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	0.41	0.10		mg/Kg	1	9/18/2013

ICP METALS
EPA 3050B **EPA 6010B**

RunID: ICP2_130920B QC Batch: 43913 PrepDate: 9/19/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	31	2.0		mg/Kg	1	9/20/2013 03:31 PM
Arsenic	12	1.0		mg/Kg	1	9/20/2013 03:31 PM
Barium	120	1.0		mg/Kg	1	9/20/2013 03:31 PM
Beryllium	ND	1.0		mg/Kg	1	9/20/2013 03:31 PM
Cadmium	ND	1.0		mg/Kg	1	9/20/2013 03:31 PM
Chromium	24	1.0		mg/Kg	1	9/20/2013 03:31 PM
Cobalt	8.3	1.0		mg/Kg	1	9/20/2013 03:31 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B6-5
Lab Order:	N011009	**Collection Date:**	9/11/2013 1:42:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-034		

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130920B QC Batch: 43913 PrepDate: 9/19/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Copper	89	2.0		mg/Kg	1	9/20/2013 03:31 PM
Lead	280	1.0		mg/Kg	1	9/20/2013 03:31 PM
Molybdenum	ND	1.0		mg/Kg	1	9/20/2013 03:31 PM
Nickel	25	1.0		mg/Kg	1	9/20/2013 03:31 PM
Selenium	2.0	1.0		mg/Kg	1	9/20/2013 03:31 PM
Silver	ND	1.0		mg/Kg	1	9/20/2013 03:31 PM
Thallium	ND	1.0		mg/Kg	1	9/20/2013 03:31 PM
Vanadium	39	1.0		mg/Kg	1	9/20/2013 03:31 PM
Zinc	180	1.0		mg/Kg	1	9/20/2013 03:31 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B6-10
Lab Order:	N011009	**Collection Date:**	9/11/2013 1:44:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-035		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM
EPA 3550B **EPA 8270CSIM**

RunID: MS3_130919C QC Batch: 43910 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/19/2013 07:20 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/19/2013 07:20 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/19/2013 07:20 PM
Anthracene	ND	5.0		µg/Kg	1	9/19/2013 07:20 PM
Benzo(a)anthracene	24	5.0		µg/Kg	1	9/19/2013 07:20 PM
Benzo(a)pyrene	36	5.0		µg/Kg	1	9/19/2013 07:20 PM
Benzo(b)fluoranthene	52	5.0		µg/Kg	1	9/19/2013 07:20 PM
Benzo(g,h,i)perylene	23	5.0		µg/Kg	1	9/19/2013 07:20 PM
Benzo(k)fluoranthene	20	5.0		µg/Kg	1	9/19/2013 07:20 PM
Chrysene	32	5.0		µg/Kg	1	9/19/2013 07:20 PM
Dibenz(a,h)anthracene	ND	5.0		µg/Kg	1	9/19/2013 07:20 PM
Fluoranthene	83	5.0		µg/Kg	1	9/19/2013 07:20 PM
Fluorene	ND	5.0		µg/Kg	1	9/19/2013 07:20 PM
Indeno(1,2,3-cd)pyrene	20	5.0		µg/Kg	1	9/19/2013 07:20 PM
Naphthalene	ND	5.0		µg/Kg	1	9/19/2013 07:20 PM
Phenanthrene	29	5.0		µg/Kg	1	9/19/2013 07:20 PM
Pyrene	90	5.0		µg/Kg	1	9/19/2013 07:20 PM
Surr: 1,2-Dichlorobenzene-d4	45.0	14-120		%REC	1	9/19/2013 07:20 PM
Surr: 2-Fluorobiphenyl	52.1	28-130		%REC	1	9/19/2013 07:20 PM
Surr: 4-Terphenyl-d14	67.1	19-165		%REC	1	9/19/2013 07:20 PM
Surr: Nitrobenzene-d5	67.1	23-150		%REC	1	9/19/2013 07:20 PM

ORGANOCHLORINE PESTICIDES BY GC/ECD
EPA 3550B **EPA 8081A**

RunID: GC7_130919A QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
4,4´-DDD	ND	2.0		µg/Kg	1	9/19/2013 11:58 AM
4,4´-DDE	ND	2.0		µg/Kg	1	9/19/2013 11:58 AM
4,4´-DDT	ND	2.0		µg/Kg	1	9/19/2013 11:58 AM
Aldrin	ND	1.0		µg/Kg	1	9/19/2013 11:58 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/19/2013 11:58 AM
alpha-Chlordane	2.5	1.0		µg/Kg	1	9/19/2013 11:58 AM
beta-BHC	ND	1.0		µg/Kg	1	9/19/2013 11:58 AM
Chlordane	ND	8.5		µg/Kg	1	9/19/2013 11:58 AM
delta-BHC	ND	1.0		µg/Kg	1	9/19/2013 11:58 AM
Dieldrin	2.5	2.0		µg/Kg	1	9/19/2013 11:58 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/19/2013 11:58 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/19/2013 11:58 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B6-10
Lab Order:	N011009	**Collection Date:**	9/11/2013 1:44:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-035		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD						
EPA 3550B				**EPA 8081A**		
RunID: GC7_130919A	QC Batch: 43887			PrepDate: 9/17/2013		Analyst: **MDM**
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/19/2013 11:58 AM
Endrin	ND	2.0		µg/Kg	1	9/19/2013 11:58 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/19/2013 11:58 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/19/2013 11:58 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/19/2013 11:58 AM
gamma-Chlordane	2.6	1.0		µg/Kg	1	9/19/2013 11:58 AM
Heptachlor	ND	1.0		µg/Kg	1	9/19/2013 11:58 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/19/2013 11:58 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/19/2013 11:58 AM
Toxaphene	ND	85		µg/Kg	1	9/19/2013 11:58 AM
Surr: Tetrachloro-m-xylene	49.2	28-161		%REC	1	9/19/2013 11:58 AM
Surr: Decachlorobiphenyl	54.9	28-120		%REC	1	9/19/2013 11:58 AM
PCBS BY GC/ECD						
EPA 3550B				**EPA 8082**		
RunID: GC7_130917B	QC Batch: 43887			PrepDate: 9/17/2013		Analyst: **MDM**
Aroclor 1016	ND	17		µg/Kg	1	9/18/2013 02:10 PM
Aroclor 1221	ND	33		µg/Kg	1	9/18/2013 02:10 PM
Aroclor 1232	ND	17		µg/Kg	1	9/18/2013 02:10 PM
Aroclor 1242	ND	17		µg/Kg	1	9/18/2013 02:10 PM
Aroclor 1248	ND	17		µg/Kg	1	9/18/2013 02:10 PM
Aroclor 1254	ND	17		µg/Kg	1	9/18/2013 02:10 PM
Aroclor 1260	ND	17		µg/Kg	1	9/18/2013 02:10 PM
Surr: Decachlorobiphenyl	59.3	40-146		%REC	1	9/18/2013 02:10 PM
Surr: Tetrachloro-m-xylene	55.9	32-109		%REC	1	9/18/2013 02:10 PM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43905			PrepDate: 9/18/2013		Analyst: **CEI**
Lead	9.2	5.0		mg/Kg	1	9/23/2013 05:38 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B6-15.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 1:46:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-036		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130921B QC Batch: 43910 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	10		µg/Kg	2	9/21/2013 02:02 PM
Acenaphthene	ND	10		µg/Kg	2	9/21/2013 02:02 PM
Acenaphthylene	ND	10		µg/Kg	2	9/21/2013 02:02 PM
Anthracene	ND	10		µg/Kg	2	9/21/2013 02:02 PM
Benzo(a)anthracene	ND	10		µg/Kg	2	9/21/2013 02:02 PM
Benzo(a)pyrene	ND	10		µg/Kg	2	9/21/2013 02:02 PM
Benzo(b)fluoranthene	ND	10		µg/Kg	2	9/21/2013 02:02 PM
Benzo(g,h,i)perylene	ND	10		µg/Kg	2	9/21/2013 02:02 PM
Benzo(k)fluoranthene	ND	10		µg/Kg	2	9/21/2013 02:02 PM
Chrysene	ND	10		µg/Kg	2	9/21/2013 02:02 PM
Dibenz(a,h)anthracene	ND	10		µg/Kg	2	9/21/2013 02:02 PM
Fluoranthene	ND	10		µg/Kg	2	9/21/2013 02:02 PM
Fluorene	ND	10		µg/Kg	2	9/21/2013 02:02 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/Kg	2	9/21/2013 02:02 PM
Naphthalene	ND	10		µg/Kg	2	9/21/2013 02:02 PM
Phenanthrene	ND	10		µg/Kg	2	9/21/2013 02:02 PM
Pyrene	ND	10		µg/Kg	2	9/21/2013 02:02 PM
Surr: 1,2-Dichlorobenzene-d4	58.1	14-120		%REC	2	9/21/2013 02:02 PM
Surr: 2-Fluorobiphenyl	52.1	28-130		%REC	2	9/21/2013 02:02 PM
Surr: 4-Terphenyl-d14	80.1	19-165		%REC	2	9/21/2013 02:02 PM
Surr: Nitrobenzene-d5	56.1	23-150		%REC	2	9/21/2013 02:02 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43891 PrepDate: 9/17/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	ND	0.10		mg/Kg	1	9/18/2013

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130920B QC Batch: 43913 PrepDate: 9/19/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/20/2013 03:38 PM
Arsenic	3.5	1.0		mg/Kg	1	9/20/2013 03:38 PM
Barium	240	1.0		mg/Kg	1	9/20/2013 03:38 PM
Beryllium	ND	1.0		mg/Kg	1	9/20/2013 03:38 PM
Cadmium	ND	1.0		mg/Kg	1	9/20/2013 03:38 PM
Chromium	28	1.0		mg/Kg	1	9/20/2013 03:38 PM
Cobalt	11	1.0		mg/Kg	1	9/20/2013 03:38 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B6-15.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 1:46:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-036		

ICP METALS

EPA 3050B — EPA 6010B

RunID: ICP2_130920B QC Batch: 43913 PrepDate: 9/19/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Copper	18	2.0		mg/Kg	1	9/20/2013 03:38 PM
Lead	19	1.0		mg/Kg	1	9/20/2013 03:38 PM
Molybdenum	ND	1.0		mg/Kg	1	9/20/2013 03:38 PM
Nickel	40	1.0		mg/Kg	1	9/20/2013 03:38 PM
Selenium	1.6	1.0		mg/Kg	1	9/20/2013 03:38 PM
Silver	ND	1.0		mg/Kg	1	9/20/2013 03:38 PM
Thallium	ND	1.0		mg/Kg	1	9/20/2013 03:38 PM
Vanadium	35	1.0		mg/Kg	1	9/20/2013 03:38 PM
Zinc	47	1.0		mg/Kg	1	9/20/2013 03:38 PM

Qualifiers:

Code	Description	Code	Description
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B7-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 8:00:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-037		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC1_130920B	QC Batch: 43915			PrepDate: 9/19/2013		Analyst: **MDM**
DRO	49	5.0		mg/Kg	5	9/20/2013 08:22 PM
ORO	160	5.0		mg/Kg	5	9/20/2013 08:22 PM
Surr: p-Terphenyl	71.3	59-127		%REC	5	9/20/2013 08:22 PM
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471				**EPA 7471A**		
RunID: AA1_130918E	QC Batch: 43891			PrepDate: 9/17/2013		Analyst: **JT**
Mercury	0.17	0.10		mg/Kg	1	9/18/2013
ICP METALS						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130920B	QC Batch: 43913			PrepDate: 9/19/2013		Analyst: **JT**
Antimony	ND	2.0		mg/Kg	1	9/20/2013 03:45 PM
Arsenic	13	1.0		mg/Kg	1	9/20/2013 03:45 PM
Barium	120	1.0		mg/Kg	1	9/20/2013 03:45 PM
Beryllium	ND	1.0		mg/Kg	1	9/20/2013 03:45 PM
Cadmium	ND	1.0		mg/Kg	1	9/20/2013 03:45 PM
Chromium	24	1.0		mg/Kg	1	9/20/2013 03:45 PM
Cobalt	9.9	1.0		mg/Kg	1	9/20/2013 03:45 PM
Copper	26	2.0		mg/Kg	1	9/20/2013 03:45 PM
Lead	18	1.0		mg/Kg	1	9/20/2013 03:45 PM
Molybdenum	ND	1.0		mg/Kg	1	9/20/2013 03:45 PM
Nickel	18	1.0		mg/Kg	1	9/20/2013 03:45 PM
Selenium	2.3	1.0		mg/Kg	1	9/20/2013 03:45 PM
Silver	ND	1.0		mg/Kg	1	9/20/2013 03:45 PM
Thallium	ND	1.0		mg/Kg	1	9/20/2013 03:45 PM
Vanadium	36	1.0		mg/Kg	1	9/20/2013 03:45 PM
Zinc	88	1.0		mg/Kg	1	9/20/2013 03:45 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B7-5
Lab Order:	N011009	**Collection Date:**	9/12/2013 8:02:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-038		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC1_130920B	QC Batch: 43915			PrepDate: 9/19/2013		Analyst: **MDM**
DRO	900	40		mg/Kg	40	9/20/2013 08:48 PM
ORO	2000	40		mg/Kg	40	9/20/2013 08:48 PM
Surr: p-Terphenyl	89.3	59-127		%REC	40	9/20/2013 08:48 PM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43914			PrepDate: 9/19/2013		Analyst: **CEI**
Lead	160	5.0		mg/Kg	1	9/23/2013 06:21 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Advanced Technology Laboratories, Inc.

Print Date: *25-Sep-13*

CLIENT: Geocon Consultants, Inc.
Lab Order: N011009
Project: 800 Cedar St, E8560-02-55
Lab ID: N011009-039

Client Sample ID: B7-10
Collection Date: 9/12/2013 8:04:00 AM
Matrix: SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/20/2013 06:14 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
Benzene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
Bromoform	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
Bromomethane	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
Chloroethane	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
Chloroform	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
Chloromethane	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B7-10
Lab Order:	N011009	**Collection Date:**	9/12/2013 8:04:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-039		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
m,p-Xylene	ND	10		µg/Kg	1	9/20/2013 06:14 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
MTBE	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
Naphthalene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
o-Xylene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
Styrene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
Toluene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/20/2013 06:14 PM
Surr: 1,2-Dichloroethane-d4	91.2	63-139		%REC	1	9/20/2013 06:14 PM
Surr: 4-Bromofluorobenzene	76.5	75-124		%REC	1	9/20/2013 06:14 PM
Surr: Dibromofluoromethane	87.2	70-133		%REC	1	9/20/2013 06:14 PM
Surr: Toluene-d8	79.6	80-123	S	%REC	1	9/20/2013 06:14 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130920B QC Batch: 43915 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	120	5.0		mg/Kg	5	9/20/2013 09:13 PM
ORO	240	5.0		mg/Kg	5	9/20/2013 09:13 PM
Surr: p-Terphenyl	98.7	59-127		%REC	5	9/20/2013 09:13 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130919A QC Batch: E13VS097 PrepDate: Analyst: **PN**

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B7-10
Lab Order:	N011009	**Collection Date:**	9/12/2013 8:04:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-039		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B						
RunID: GC4_130919A QC Batch: E13VS097 PrepDate: Analyst: **PN**						
GRO	ND	1.0		mg/Kg	1	9/19/2013 12:08 PM
Surr: Chlorobenzene - d5	108	51-136		%REC	1	9/19/2013 12:08 PM
LEAD BY ICP						
EPA 3050B **EPA 6010B**						
RunID: ICP2_130923A QC Batch: 43914 PrepDate: 9/19/2013 Analyst: **CEI**						
Lead	120	5.0		mg/Kg	1	9/23/2013 07:09 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B7-15.5
Lab Order:	N011009	**Collection Date:**	9/12/2013 8:06:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-040		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/20/2013 06:36 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
Benzene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
Bromoform	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
Bromomethane	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
Chloroethane	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
Chloroform	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
Chloromethane	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B7-15.5
Lab Order:	N011009	**Collection Date:**	9/12/2013 8:06:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-040		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
m,p-Xylene	ND	10		µg/Kg	1	9/20/2013 06:36 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
MTBE	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
Naphthalene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
o-Xylene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
Styrene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
Toluene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/20/2013 06:36 PM
Surr: 1,2-Dichloroethane-d4	93.5	63-139		%REC	1	9/20/2013 06:36 PM
Surr: 4-Bromofluorobenzene	79.8	75-124		%REC	1	9/20/2013 06:36 PM
Surr: Dibromofluoromethane	88.4	70-133		%REC	1	9/20/2013 06:36 PM
Surr: Toluene-d8	83.9	80-123		%REC	1	9/20/2013 06:36 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130920B QC Batch: 43915 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	36	5.0		mg/Kg	5	9/20/2013 09:39 PM
ORO	96	5.0		mg/Kg	5	9/20/2013 09:39 PM
Surr: p-Terphenyl	102	59-127		%REC	5	9/20/2013 09:39 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130919A QC Batch: E13VS097 PrepDate: Analyst: **PN**

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B7-15.5
Lab Order:	N011009	**Collection Date:**	9/12/2013 8:06:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-040		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B		
RunID: GC4_130919A	QC Batch: E13VS097			PrepDate:		Analyst: **PN**
GRO	ND	1.0		mg/Kg	1	9/19/2013 10:42 AM
Surr: Chlorobenzene - d5	101	51-136		%REC	1	9/19/2013 10:42 AM
LEAD BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43914			PrepDate:	9/19/2013	Analyst: **CEI**
Lead	41	5.0		mg/Kg	1	9/23/2013 07:20 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B8-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 8:40:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-041		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130921B QC Batch: 43910 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	10	10		µg/Kg	2	9/21/2013 04:21 PM
Acenaphthene	53	10		µg/Kg	2	9/21/2013 04:21 PM
Acenaphthylene	29	10		µg/Kg	2	9/21/2013 04:21 PM
Anthracene	97	10		µg/Kg	2	9/21/2013 04:21 PM
Benzo(a)anthracene	190	10		µg/Kg	2	9/21/2013 04:21 PM
Benzo(a)pyrene	120	50		µg/Kg	10	9/22/2013 11:48 PM
Benzo(b)fluoranthene	130	50		µg/Kg	10	9/22/2013 11:48 PM
Benzo(g,h,i)perylene	100	50		µg/Kg	10	9/22/2013 11:48 PM
Benzo(k)fluoranthene	50	50		µg/Kg	10	9/22/2013 11:48 PM
Chrysene	210	10		µg/Kg	2	9/21/2013 04:21 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/22/2013 11:48 PM
Fluoranthene	510	10		µg/Kg	2	9/21/2013 04:21 PM
Fluorene	51	10		µg/Kg	2	9/21/2013 04:21 PM
Indeno(1,2,3-cd)pyrene	57	50		µg/Kg	10	9/22/2013 11:48 PM
Naphthalene	13	10		µg/Kg	2	9/21/2013 04:21 PM
Phenanthrene	390	10		µg/Kg	2	9/21/2013 04:21 PM
Pyrene	270	50		µg/Kg	10	9/22/2013 11:48 PM
Surr: 1,2-Dichlorobenzene-d4	62.1	14-120		%REC	2	9/21/2013 04:21 PM
Surr: 2-Fluorobiphenyl	62.1	28-130		%REC	2	9/21/2013 04:21 PM
Surr: 4-Terphenyl-d14	112	19-165		%REC	2	9/21/2013 04:21 PM
Surr: Nitrobenzene-d5	68.1	23-150		%REC	2	9/21/2013 04:21 PM

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919A QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
4,4´-DDD	ND	2.0		µg/Kg	1	9/20/2013 12:24 PM
4,4´-DDE	ND	2.0		µg/Kg	1	9/20/2013 12:24 PM
4,4´-DDT	ND	2.0		µg/Kg	1	9/20/2013 12:24 PM
Aldrin	ND	1.0		µg/Kg	1	9/20/2013 12:24 PM
alpha-BHC	ND	1.0		µg/Kg	1	9/20/2013 12:24 PM
alpha-Chlordane	ND	1.0		µg/Kg	1	9/20/2013 12:24 PM
beta-BHC	ND	1.0		µg/Kg	1	9/20/2013 12:24 PM
Chlordane	ND	8.5		µg/Kg	1	9/20/2013 12:24 PM
delta-BHC	ND	1.0		µg/Kg	1	9/20/2013 12:24 PM
Dieldrin	4.9	2.0		µg/Kg	1	9/20/2013 12:24 PM
Endosulfan I	ND	1.0		µg/Kg	1	9/20/2013 12:24 PM
Endosulfan II	ND	2.0		µg/Kg	1	9/20/2013 12:24 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B8-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 8:40:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-041		

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919A QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/20/2013 12:24 PM
Endrin	ND	2.0		µg/Kg	1	9/20/2013 12:24 PM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/20/2013 12:24 PM
Endrin ketone	ND	2.0		µg/Kg	1	9/20/2013 12:24 PM
gamma-BHC	ND	1.0		µg/Kg	1	9/20/2013 12:24 PM
gamma-Chlordane	ND	1.0		µg/Kg	1	9/20/2013 12:24 PM
Heptachlor	ND	1.0		µg/Kg	1	9/20/2013 12:24 PM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/20/2013 12:24 PM
Methoxychlor	ND	8.5		µg/Kg	1	9/20/2013 12:24 PM
Toxaphene	ND	85		µg/Kg	1	9/20/2013 12:24 PM
Surr: Tetrachloro-m-xylene	68.0	28-161		%REC	1	9/20/2013 12:24 PM
Surr: Decachlorobiphenyl	60.6	28-120		%REC	1	9/20/2013 12:24 PM

PCBS BY GC/ECD

EPA 3550B **EPA 8082**

RunID: GC7_130917B QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Aroclor 1016	ND	16		µg/Kg	1	9/18/2013 12:41 PM
Aroclor 1221	ND	33		µg/Kg	1	9/18/2013 12:41 PM
Aroclor 1232	ND	16		µg/Kg	1	9/18/2013 12:41 PM
Aroclor 1242	ND	16		µg/Kg	1	9/18/2013 12:41 PM
Aroclor 1248	ND	16		µg/Kg	1	9/18/2013 12:41 PM
Aroclor 1254	ND	16		µg/Kg	1	9/18/2013 12:41 PM
Aroclor 1260	ND	16		µg/Kg	1	9/18/2013 12:41 PM
Surr: Decachlorobiphenyl	69.5	40-146		%REC	1	9/18/2013 12:41 PM
Surr: Tetrachloro-m-xylene	67.9	32-109		%REC	1	9/18/2013 12:41 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43891 PrepDate: 9/17/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	0.15	0.10		mg/Kg	1	9/18/2013

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130920B QC Batch: 43913 PrepDate: 9/19/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/20/2013 03:52 PM
Arsenic	5.7	1.0		mg/Kg	1	9/20/2013 03:52 PM
Barium	130	1.0		mg/Kg	1	9/20/2013 03:52 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B8-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 8:40:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-041		

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130920B QC Batch: 43913 PrepDate: 9/19/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Beryllium	ND	1.0		mg/Kg	1	9/20/2013 03:52 PM
Cadmium	ND	1.0		mg/Kg	1	9/20/2013 03:52 PM
Chromium	30	1.0		mg/Kg	1	9/20/2013 03:52 PM
Cobalt	9.6	1.0		mg/Kg	1	9/20/2013 03:52 PM
Copper	31	2.0		mg/Kg	1	9/20/2013 03:52 PM
Lead	220	1.0		mg/Kg	1	9/20/2013 03:52 PM
Molybdenum	ND	1.0		mg/Kg	1	9/20/2013 03:52 PM
Nickel	27	1.0		mg/Kg	1	9/20/2013 03:52 PM
Selenium	1.8	1.0		mg/Kg	1	9/20/2013 03:52 PM
Silver	ND	1.0		mg/Kg	1	9/20/2013 03:52 PM
Thallium	ND	1.0		mg/Kg	1	9/20/2013 03:52 PM
Vanadium	46	1.0		mg/Kg	1	9/20/2013 03:52 PM
Zinc	110	1.0		mg/Kg	1	9/20/2013 03:52 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B8-5
Lab Order:	N011009	**Collection Date:**	9/12/2013 8:42:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-042		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130921B QC Batch: 43910 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	10		µg/Kg	2	9/21/2013 04:49 PM
Acenaphthene	ND	10		µg/Kg	2	9/21/2013 04:49 PM
Acenaphthylene	23	10		µg/Kg	2	9/21/2013 04:49 PM
Anthracene	28	10		µg/Kg	2	9/21/2013 04:49 PM
Benzo(a)anthracene	190	50		µg/Kg	10	9/23/2013 12:15 AM
Benzo(a)pyrene	300	50		µg/Kg	10	9/23/2013 12:15 AM
Benzo(b)fluoranthene	330	50		µg/Kg	10	9/23/2013 12:15 AM
Benzo(g,h,i)perylene	190	50		µg/Kg	10	9/23/2013 12:15 AM
Benzo(k)fluoranthene	120	50		µg/Kg	10	9/23/2013 12:15 AM
Chrysene	220	50		µg/Kg	10	9/23/2013 12:15 AM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/23/2013 12:15 AM
Fluoranthene	270	10		µg/Kg	2	9/21/2013 04:49 PM
Fluorene	ND	10		µg/Kg	2	9/21/2013 04:49 PM
Indeno(1,2,3-cd)pyrene	110	50		µg/Kg	10	9/23/2013 12:15 AM
Naphthalene	ND	10		µg/Kg	2	9/21/2013 04:49 PM
Phenanthrene	130	10		µg/Kg	2	9/21/2013 04:49 PM
Pyrene	290	10		µg/Kg	2	9/21/2013 04:49 PM
Surr: 1,2-Dichlorobenzene-d4	56.1	14-120		%REC	2	9/21/2013 04:49 PM
Surr: 2-Fluorobiphenyl	56.1	28-130		%REC	2	9/21/2013 04:49 PM
Surr: 4-Terphenyl-d14	90.1	19-165		%REC	10	9/23/2013 12:15 AM
Surr: Nitrobenzene-d5	62.1	23-150		%REC	2	9/21/2013 04:49 PM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130923A QC Batch: 43914 PrepDate: 9/19/2013 Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	200	5.0		mg/Kg	1	9/23/2013 07:24 PM

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B8-10
Lab Order:	N011009	**Collection Date:**	9/12/2013 8:44:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-043		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3550B				**EPA 8270CSIM**		
RunID: MS3_130921B	QC Batch: 43910			PrepDate:	9/19/2013	Analyst: **MDM**
2-Methylnaphthalene	ND	10		µg/Kg	2	9/21/2013 02:30 PM
Acenaphthene	ND	10		µg/Kg	2	9/21/2013 02:30 PM
Acenaphthylene	ND	10		µg/Kg	2	9/21/2013 02:30 PM
Anthracene	ND	10		µg/Kg	2	9/21/2013 02:30 PM
Benzo(a)anthracene	ND	10		µg/Kg	2	9/21/2013 02:30 PM
Benzo(a)pyrene	ND	10		µg/Kg	2	9/21/2013 02:30 PM
Benzo(b)fluoranthene	ND	10		µg/Kg	2	9/21/2013 02:30 PM
Benzo(g,h,i)perylene	ND	10		µg/Kg	2	9/21/2013 02:30 PM
Benzo(k)fluoranthene	ND	10		µg/Kg	2	9/21/2013 02:30 PM
Chrysene	ND	10		µg/Kg	2	9/21/2013 02:30 PM
Dibenz(a,h)anthracene	ND	10		µg/Kg	2	9/21/2013 02:30 PM
Fluoranthene	11	10		µg/Kg	2	9/21/2013 02:30 PM
Fluorene	ND	10		µg/Kg	2	9/21/2013 02:30 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/Kg	2	9/21/2013 02:30 PM
Naphthalene	ND	10		µg/Kg	2	9/21/2013 02:30 PM
Phenanthrene	ND	10		µg/Kg	2	9/21/2013 02:30 PM
Pyrene	13	10		µg/Kg	2	9/21/2013 02:30 PM
Surr: 1,2-Dichlorobenzene-d4	54.1	14-120		%REC	2	9/21/2013 02:30 PM
Surr: 2-Fluorobiphenyl	48.0	28-130		%REC	2	9/21/2013 02:30 PM
Surr: 4-Terphenyl-d14	74.1	19-165		%REC	2	9/21/2013 02:30 PM
Surr: Nitrobenzene-d5	54.1	23-150		%REC	2	9/21/2013 02:30 PM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43914			PrepDate:	9/19/2013	Analyst: **CEI**
Lead	28	5.0		mg/Kg	1	9/23/2013 07:29 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B8-15.5
Lab Order:	N011009	**Collection Date:**	9/12/2013 8:46:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-044		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130921B QC Batch: 43910 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	10		µg/Kg	2	9/21/2013 05:17 PM
Acenaphthene	ND	10		µg/Kg	2	9/21/2013 05:17 PM
Acenaphthylene	ND	10		µg/Kg	2	9/21/2013 05:17 PM
Anthracene	ND	10		µg/Kg	2	9/21/2013 05:17 PM
Benzo(a)anthracene	29	10		µg/Kg	2	9/21/2013 05:17 PM
Benzo(a)pyrene	190	50		µg/Kg	10	9/23/2013 12:43 AM
Benzo(b)fluoranthene	250	50		µg/Kg	10	9/23/2013 12:43 AM
Benzo(g,h,i)perylene	80	50		µg/Kg	10	9/23/2013 12:43 AM
Benzo(k)fluoranthene	100	50		µg/Kg	10	9/23/2013 12:43 AM
Chrysene	29	10		µg/Kg	2	9/21/2013 05:17 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/23/2013 12:43 AM
Fluoranthene	45	10		µg/Kg	2	9/21/2013 05:17 PM
Fluorene	ND	10		µg/Kg	2	9/21/2013 05:17 PM
Indeno(1,2,3-cd)pyrene	64	50		µg/Kg	10	9/23/2013 12:43 AM
Naphthalene	ND	10		µg/Kg	2	9/21/2013 05:17 PM
Phenanthrene	29	10		µg/Kg	2	9/21/2013 05:17 PM
Pyrene	39	10		µg/Kg	2	9/21/2013 05:17 PM
Surr: 1,2-Dichlorobenzene-d4	54.1	14-120		%REC	2	9/21/2013 05:17 PM
Surr: 2-Fluorobiphenyl	52.1	28-130		%REC	2	9/21/2013 05:17 PM
Surr: 4-Terphenyl-d14	104	19-165		%REC	2	9/21/2013 05:17 PM
Surr: Nitrobenzene-d5	56.1	23-150		%REC	2	9/21/2013 05:17 PM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130923A QC Batch: 43914 PrepDate: 9/19/2013 Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	74	5.0		mg/Kg	1	9/23/2013 07:34 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D1-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:20:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-045		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130920A QC Batch: 43910 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/20/2013 05:14 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/20/2013 05:14 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/20/2013 05:14 PM
Anthracene	12	5.0		µg/Kg	1	9/20/2013 05:14 PM
Benzo(a)anthracene	ND	50		µg/Kg	10	9/23/2013 01:11 AM
Benzo(a)pyrene	ND	50		µg/Kg	10	9/23/2013 01:11 AM
Benzo(b)fluoranthene	ND	50		µg/Kg	10	9/23/2013 01:11 AM
Benzo(g,h,i)perylene	ND	50		µg/Kg	10	9/23/2013 01:11 AM
Benzo(k)fluoranthene	ND	50		µg/Kg	10	9/23/2013 01:11 AM
Chrysene	ND	50		µg/Kg	10	9/23/2013 01:11 AM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/23/2013 01:11 AM
Fluoranthene	66	5.0		µg/Kg	1	9/20/2013 05:14 PM
Fluorene	ND	5.0		µg/Kg	1	9/20/2013 05:14 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/Kg	10	9/23/2013 01:11 AM
Naphthalene	ND	5.0		µg/Kg	1	9/20/2013 05:14 PM
Phenanthrene	36	5.0		µg/Kg	1	9/20/2013 05:14 PM
Pyrene	57	5.0		µg/Kg	1	9/20/2013 05:14 PM
Surr: 1,2-Dichlorobenzene-d4	60.1	14-120		%REC	1	9/20/2013 05:14 PM
Surr: 2-Fluorobiphenyl	63.1	28-130		%REC	1	9/20/2013 05:14 PM
Surr: 4-Terphenyl-d14	90.1	19-165		%REC	10	9/23/2013 01:11 AM
Surr: Nitrobenzene-d5	62.1	23-150		%REC	1	9/20/2013 05:14 PM

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919A QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
4,4´-DDD	ND	2.0		µg/Kg	1	9/20/2013 12:51 PM
4,4´-DDE	ND	2.0		µg/Kg	1	9/20/2013 12:51 PM
4,4´-DDT	ND	2.0		µg/Kg	1	9/20/2013 12:51 PM
Aldrin	ND	1.0		µg/Kg	1	9/20/2013 12:51 PM
alpha-BHC	ND	1.0		µg/Kg	1	9/20/2013 12:51 PM
alpha-Chlordane	ND	1.0		µg/Kg	1	9/20/2013 12:51 PM
beta-BHC	ND	1.0		µg/Kg	1	9/20/2013 12:51 PM
Chlordane	ND	8.5		µg/Kg	1	9/20/2013 12:51 PM
delta-BHC	ND	1.0		µg/Kg	1	9/20/2013 12:51 PM
Dieldrin	ND	2.0		µg/Kg	1	9/20/2013 12:51 PM
Endosulfan I	ND	1.0		µg/Kg	1	9/20/2013 12:51 PM
Endosulfan II	ND	2.0		µg/Kg	1	9/20/2013 12:51 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D1-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:20:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-045		

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919A QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/20/2013 12:51 PM
Endrin	ND	2.0		µg/Kg	1	9/20/2013 12:51 PM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/20/2013 12:51 PM
Endrin ketone	ND	2.0		µg/Kg	1	9/20/2013 12:51 PM
gamma-BHC	ND	1.0		µg/Kg	1	9/20/2013 12:51 PM
gamma-Chlordane	ND	1.0		µg/Kg	1	9/20/2013 12:51 PM
Heptachlor	ND	1.0		µg/Kg	1	9/20/2013 12:51 PM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/20/2013 12:51 PM
Methoxychlor	ND	8.5		µg/Kg	1	9/20/2013 12:51 PM
Toxaphene	ND	85		µg/Kg	1	9/20/2013 12:51 PM
Surr: Tetrachloro-m-xylene	70.2	28-161		%REC	1	9/20/2013 12:51 PM
Surr: Decachlorobiphenyl	67.4	28-120		%REC	1	9/20/2013 12:51 PM

PCBS BY GC/ECD

EPA 3550B **EPA 8082**

RunID: GC7_130917B QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Aroclor 1016	ND	17		µg/Kg	1	9/18/2013 01:11 PM
Aroclor 1221	ND	33		µg/Kg	1	9/18/2013 01:11 PM
Aroclor 1232	ND	17		µg/Kg	1	9/18/2013 01:11 PM
Aroclor 1242	ND	17		µg/Kg	1	9/18/2013 01:11 PM
Aroclor 1248	ND	17		µg/Kg	1	9/18/2013 01:11 PM
Aroclor 1254	ND	17		µg/Kg	1	9/18/2013 01:11 PM
Aroclor 1260	ND	17		µg/Kg	1	9/18/2013 01:11 PM
Surr: Decachlorobiphenyl	73.6	40-146		%REC	1	9/18/2013 01:11 PM
Surr: Tetrachloro-m-xylene	78.0	32-109		%REC	1	9/18/2013 01:11 PM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130923A QC Batch: 43914 PrepDate: 9/19/2013 Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	16	5.0		mg/Kg	1	9/23/2013 07:39 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Advanced Technology Laboratories, Inc.

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D1-4
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:22:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-046		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130920A QC Batch: 43910 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/20/2013 12:21 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/20/2013 12:21 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/20/2013 12:21 PM
Anthracene	ND	5.0		µg/Kg	1	9/20/2013 12:21 PM
Benzo(a)anthracene	ND	5.0		µg/Kg	1	9/20/2013 12:21 PM
Benzo(a)pyrene	ND	50		µg/Kg	10	9/23/2013 01:39 AM
Benzo(b)fluoranthene	ND	50		µg/Kg	10	9/23/2013 01:39 AM
Benzo(g,h,i)perylene	ND	50		µg/Kg	10	9/23/2013 01:39 AM
Benzo(k)fluoranthene	ND	50		µg/Kg	10	9/23/2013 01:39 AM
Chrysene	ND	5.0		µg/Kg	1	9/20/2013 12:21 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/23/2013 01:39 AM
Fluoranthene	ND	5.0		µg/Kg	1	9/20/2013 12:21 PM
Fluorene	ND	5.0		µg/Kg	1	9/20/2013 12:21 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/Kg	10	9/23/2013 01:39 AM
Naphthalene	ND	5.0		µg/Kg	1	9/20/2013 12:21 PM
Phenanthrene	ND	5.0		µg/Kg	1	9/20/2013 12:21 PM
Pyrene	ND	5.0		µg/Kg	1	9/20/2013 12:21 PM
Surr: 1,2-Dichlorobenzene-d4	53.1	14-120		%REC	1	9/20/2013 12:21 PM
Surr: 2-Fluorobiphenyl	55.1	28-130		%REC	1	9/20/2013 12:21 PM
Surr: 4-Terphenyl-d14	85.1	19-165		%REC	1	9/20/2013 12:21 PM
Surr: Nitrobenzene-d5	55.1	23-150		%REC	1	9/20/2013 12:21 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/20/2013 06:57 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D1-4
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:22:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-046		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
Benzene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
Bromoform	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
Bromomethane	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
Chloroethane	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
Chloroform	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
Chloromethane	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
m,p-Xylene	ND	10		µg/Kg	1	9/20/2013 06:57 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
MTBE	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
Naphthalene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D1-4
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:22:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-046		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS6_130920A	QC Batch: Q13VS002			PrepDate:		Analyst: **QBM**
o-Xylene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
Styrene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
Toluene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/20/2013 06:57 PM
Surr: 1,2-Dichloroethane-d4	95.3	63-139		%REC	1	9/20/2013 06:57 PM
Surr: 4-Bromofluorobenzene	86.1	75-124		%REC	1	9/20/2013 06:57 PM
Surr: Dibromofluoromethane	92.5	70-133		%REC	1	9/20/2013 06:57 PM
Surr: Toluene-d8	87.9	80-123		%REC	1	9/20/2013 06:57 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B		
RunID: GC4_130919A	QC Batch: E13VS097			PrepDate:		Analyst: **PN**
GRO	ND	1.0		mg/Kg	1	9/19/2013 12:37 PM
Surr: Chlorobenzene - d5	107	51-136		%REC	1	9/19/2013 12:37 PM
LEAD BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43914			PrepDate:	9/19/2013	Analyst: **CEI**
Lead	ND	5.0		mg/Kg	1	9/23/2013 07:43 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D1-7.5
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:24:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-047		

HEXAVALENT CHROMIUM

EPA 3060A **EPA 7196A**

RunID: WETCHEM_130920D QC Batch: 43908 PrepDate: 9/19/2013 Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chromium, Hexavalent	ND	1.0		mg/Kg	1	9/20/2013

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130920A QC Batch: 43910 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/20/2013 12:49 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/20/2013 12:49 PM
Acenaphthylene	16	5.0		µg/Kg	1	9/20/2013 12:49 PM
Anthracene	25	5.0		µg/Kg	1	9/20/2013 12:49 PM
Benzo(a)anthracene	110	5.0		µg/Kg	1	9/20/2013 12:49 PM
Benzo(a)pyrene	320	50		µg/Kg	10	9/23/2013 02:06 AM
Benzo(b)fluoranthene	270	50		µg/Kg	10	9/23/2013 02:06 AM
Benzo(g,h,i)perylene	230	50		µg/Kg	10	9/23/2013 02:06 AM
Benzo(k)fluoranthene	120	50		µg/Kg	10	9/23/2013 02:06 AM
Chrysene	140	5.0		µg/Kg	1	9/20/2013 12:49 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/23/2013 02:06 AM
Fluoranthene	450	50		µg/Kg	10	9/23/2013 02:06 AM
Fluorene	5.3	5.0		µg/Kg	1	9/20/2013 12:49 PM
Indeno(1,2,3-cd)pyrene	110	50		µg/Kg	10	9/23/2013 02:06 AM
Naphthalene	ND	5.0		µg/Kg	1	9/20/2013 12:49 PM
Phenanthrene	130	5.0		µg/Kg	1	9/20/2013 12:49 PM
Pyrene	780	50		µg/Kg	10	9/23/2013 02:06 AM
Surr: 1,2-Dichlorobenzene-d4	50.1	14-120		%REC	1	9/20/2013 12:49 PM
Surr: 2-Fluorobiphenyl	53.1	28-130		%REC	1	9/20/2013 12:49 PM
Surr: 4-Terphenyl-d14	86.1	19-165		%REC	1	9/20/2013 12:49 PM
Surr: Nitrobenzene-d5	55.1	23-150		%REC	1	9/20/2013 12:49 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D1-7.5
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:24:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-047		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/21/2013 11:59 AM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
Benzene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
Bromobenzene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
Bromoform	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
Bromomethane	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
Chlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
Chloroethane	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
Chloroform	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
Chloromethane	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
Dibromochloromethane	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
Dibromomethane	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
Ethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
m,p-Xylene	ND	10		µg/Kg	1	9/21/2013 11:59 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D1-7.5
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:24:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-047		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS6_130921A	QC Batch:	Q13VS003		PrepDate:		Analyst: **QBM**
Methylene chloride	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
MTBE	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
Naphthalene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
o-Xylene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
Styrene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
Toluene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
Trichloroethene	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
Vinyl chloride	ND	5.0		µg/Kg	1	9/21/2013 11:59 AM
Surr: 1,2-Dichloroethane-d4	102	63-139		%REC	1	9/21/2013 11:59 AM
Surr: 4-Bromofluorobenzene	85.9	75-124		%REC	1	9/21/2013 11:59 AM
Surr: Dibromofluoromethane	96.7	70-133		%REC	1	9/21/2013 11:59 AM
Surr: Toluene-d8	86.8	80-123		%REC	1	9/21/2013 11:59 AM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B		
RunID: GC4_130919A	QC Batch:	E13VS097		PrepDate:		Analyst: **PN**
GRO	ND	1.0		mg/Kg	1	9/19/2013 02:03 PM
Surr: Chlorobenzene - d5	86.8	51-136		%REC	1	9/19/2013 02:03 PM
MERCURY BY COLD VAPOR TECHNIQUE						
	EPA 7471			**EPA 7471A**		
RunID: AA1_130918E	QC Batch:	43891		PrepDate:	9/17/2013	Analyst: **JT**
Mercury	0.13	0.099		mg/Kg	1	9/18/2013
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_130920B	QC Batch:	43913		PrepDate:	9/19/2013	Analyst: **JT**
Antimony	ND	2.0		mg/Kg	1	9/20/2013 03:59 PM
Arsenic	4.2	1.0		mg/Kg	1	9/20/2013 03:59 PM
Barium	100	1.0		mg/Kg	1	9/20/2013 03:59 PM

Qualifiers:

Code	Description	Code	Description
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D1-7.5
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:24:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-047		

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130920B QC Batch: 43913 PrepDate: 9/19/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Beryllium	ND	1.0		mg/Kg	1	9/20/2013 03:59 PM
Cadmium	ND	1.0		mg/Kg	1	9/20/2013 03:59 PM
Chromium	47	1.0		mg/Kg	1	9/20/2013 03:59 PM
Cobalt	11	1.0		mg/Kg	1	9/20/2013 03:59 PM
Copper	48	2.0		mg/Kg	1	9/20/2013 03:59 PM
Lead	100	1.0		mg/Kg	1	9/20/2013 03:59 PM
Molybdenum	ND	1.0		mg/Kg	1	9/20/2013 03:59 PM
Nickel	40	1.0		mg/Kg	1	9/20/2013 03:59 PM
Selenium	1.1	1.0		mg/Kg	1	9/20/2013 05:09 PM
Silver	ND	1.0		mg/Kg	1	9/20/2013 03:59 PM
Thallium	ND	1.0		mg/Kg	1	9/20/2013 03:59 PM
Vanadium	34	1.0		mg/Kg	1	9/20/2013 03:59 PM
Zinc	93	1.0		mg/Kg	1	9/20/2013 03:59 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT: Geocon Consultants, Inc.
Lab Order: N011009
Project: 800 Cedar St, E8560-02-55
Lab ID: N011009-048

Client Sample ID: D2-0
Collection Date: 9/12/2013 9:35:00 AM
Matrix: SOIL

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130920B QC Batch: 43915 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	31	5.0		mg/Kg	5	9/20/2013 10:04 PM
ORO	88	5.0		mg/Kg	5	9/20/2013 10:04 PM
Surr: p-Terphenyl	58.9	59-127	S	%REC	5	9/20/2013 10:04 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43891 PrepDate: 9/17/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	0.20	0.10		mg/Kg	1	9/18/2013

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130920B QC Batch: 43913 PrepDate: 9/19/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/20/2013 04:07 PM
Arsenic	10	1.0		mg/Kg	1	9/20/2013 04:07 PM
Barium	100	1.0		mg/Kg	1	9/20/2013 04:07 PM
Beryllium	ND	1.0		mg/Kg	1	9/20/2013 04:07 PM
Cadmium	ND	1.0		mg/Kg	1	9/20/2013 04:07 PM
Chromium	21	1.0		mg/Kg	1	9/20/2013 04:07 PM
Cobalt	8.2	1.0		mg/Kg	1	9/20/2013 04:07 PM
Copper	23	2.0		mg/Kg	1	9/20/2013 04:07 PM
Lead	11	1.0		mg/Kg	1	9/20/2013 04:07 PM
Molybdenum	ND	1.0		mg/Kg	1	9/20/2013 04:07 PM
Nickel	15	1.0		mg/Kg	1	9/20/2013 04:07 PM
Selenium	2.1	1.0		mg/Kg	1	9/20/2013 04:07 PM
Silver	ND	1.0		mg/Kg	1	9/20/2013 04:07 PM
Thallium	ND	1.0		mg/Kg	1	9/20/2013 04:07 PM
Vanadium	36	1.0		mg/Kg	1	9/20/2013 04:07 PM
Zinc	83	1.0		mg/Kg	1	9/20/2013 04:07 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT: Geocon Consultants, Inc.
Lab Order: N011009
Project: 800 Cedar St, E8560-02-55
Lab ID: N011009-049

Client Sample ID: D2-4
Collection Date: 9/12/2013 9:37:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC1_130920B	QC Batch: 43915			PrepDate:	9/19/2013	Analyst: **MDM**
DRO	5.0	1.0		mg/Kg	1	9/21/2013 01:04 AM
ORO	11	1.0		mg/Kg	1	9/21/2013 01:04 AM
Surr: p-Terphenyl	96.3	59-127		%REC	1	9/21/2013 01:04 AM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
EPA 3550B				**EPA 8081A**		
RunID: GC7_130919A	QC Batch: 43887			PrepDate:	9/17/2013	Analyst: **MDM**
4,4´-DDD	ND	2.0		µg/Kg	1	9/20/2013 01:17 AM
4,4´-DDE	ND	2.0		µg/Kg	1	9/20/2013 01:17 AM
4,4´-DDT	ND	2.0		µg/Kg	1	9/20/2013 01:17 AM
Aldrin	ND	1.0		µg/Kg	1	9/20/2013 01:17 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/20/2013 01:17 AM
alpha-Chlordane	ND	1.0		µg/Kg	1	9/20/2013 01:17 AM
beta-BHC	ND	1.0		µg/Kg	1	9/20/2013 01:17 AM
Chlordane	ND	8.5		µg/Kg	1	9/20/2013 01:17 AM
delta-BHC	ND	1.0		µg/Kg	1	9/20/2013 01:17 AM
Dieldrin	ND	2.0		µg/Kg	1	9/20/2013 01:17 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/20/2013 01:17 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/20/2013 01:17 AM
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/20/2013 01:17 AM
Endrin	ND	2.0		µg/Kg	1	9/20/2013 01:17 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/20/2013 01:17 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/20/2013 01:17 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/20/2013 01:17 AM
gamma-Chlordane	ND	1.0		µg/Kg	1	9/20/2013 01:17 AM
Heptachlor	ND	1.0		µg/Kg	1	9/20/2013 01:17 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/20/2013 01:17 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/20/2013 01:17 AM
Toxaphene	ND	85		µg/Kg	1	9/20/2013 01:17 AM
Surr: Tetrachloro-m-xylene	40.6	28-161		%REC	1	9/20/2013 01:17 AM
Surr: Decachlorobiphenyl	47.9	28-120		%REC	1	9/20/2013 01:17 AM
PCBS BY GC/ECD						
EPA 3550B				**EPA 8082**		
RunID: GC7_130917B	QC Batch: 43887			PrepDate:	9/17/2013	Analyst: **MDM**
Aroclor 1016	ND	17		µg/Kg	1	9/18/2013 01:40 PM
Aroclor 1221	ND	33		µg/Kg	1	9/18/2013 01:40 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D2-4
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:37:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-049		

PCBS BY GC/ECD

EPA 3550B **EPA 8082**

RunID: GC7_130917B QC Batch: 43887 PrepDate: 9/17/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Aroclor 1232	ND	17		µg/Kg	1	9/18/2013 01:40 PM
Aroclor 1242	ND	17		µg/Kg	1	9/18/2013 01:40 PM
Aroclor 1248	ND	17		µg/Kg	1	9/18/2013 01:40 PM
Aroclor 1254	ND	17		µg/Kg	1	9/18/2013 01:40 PM
Aroclor 1260	ND	17		µg/Kg	1	9/18/2013 01:40 PM
Surr: Decachlorobiphenyl	45.1	40-146		%REC	1	9/18/2013 01:40 PM
Surr: Tetrachloro-m-xylene	36.8	32-109		%REC	1	9/18/2013 01:40 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43891 PrepDate: 9/17/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	ND	0.099		mg/Kg	1	9/18/2013

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130921A QC Batch: 43923 PrepDate: 9/20/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/21/2013 04:54 PM
Arsenic	4.1	1.0		mg/Kg	1	9/21/2013 04:54 PM
Barium	140	1.0		mg/Kg	1	9/21/2013 04:54 PM
Beryllium	ND	1.0		mg/Kg	1	9/21/2013 04:54 PM
Cadmium	ND	1.0		mg/Kg	1	9/21/2013 04:54 PM
Chromium	34	1.0		mg/Kg	1	9/21/2013 04:54 PM
Cobalt	11	1.0		mg/Kg	1	9/21/2013 04:54 PM
Copper	22	2.0		mg/Kg	1	9/21/2013 04:54 PM
Lead	24	1.0		mg/Kg	1	9/21/2013 04:54 PM
Molybdenum	ND	1.0		mg/Kg	1	9/21/2013 04:54 PM
Nickel	43	1.0		mg/Kg	1	9/21/2013 04:54 PM
Selenium	1.3	1.0		mg/Kg	1	9/21/2013 04:54 PM
Silver	ND	1.0		mg/Kg	1	9/21/2013 04:54 PM
Thallium	ND	1.0		mg/Kg	1	9/21/2013 04:54 PM
Vanadium	39	1.0		mg/Kg	1	9/21/2013 04:54 PM
Zinc	50	1.0	B	mg/Kg	1	9/21/2013 04:54 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D2-7.5
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:39:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-050		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC1_130920B	QC Batch: 43915			PrepDate: 9/19/2013		Analyst: **MDM**
DRO	20	5.0		mg/Kg	5	9/21/2013 01:55 AM
ORO	56	5.0		mg/Kg	5	9/21/2013 01:55 AM
Surr: p-Terphenyl	74.7	59-127		%REC	5	9/21/2013 01:55 AM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43914			PrepDate: 9/19/2013		Analyst: **CEI**
Lead	29	5.0		mg/Kg	1	9/23/2013 07:48 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D3-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:45:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-051		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130920A QC Batch: 43910 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/20/2013 01:31 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/20/2013 01:31 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/20/2013 01:31 PM
Anthracene	ND	5.0		µg/Kg	1	9/20/2013 01:31 PM
Benzo(a)anthracene	9.3	5.0		µg/Kg	1	9/20/2013 01:31 PM
Benzo(a)pyrene	ND	50		µg/Kg	10	9/23/2013 02:34 AM
Benzo(b)fluoranthene	ND	50		µg/Kg	10	9/23/2013 02:34 AM
Benzo(g,h,i)perylene	ND	50		µg/Kg	10	9/23/2013 02:34 AM
Benzo(k)fluoranthene	ND	50		µg/Kg	10	9/23/2013 02:34 AM
Chrysene	20	5.0		µg/Kg	1	9/20/2013 01:31 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/23/2013 02:34 AM
Fluoranthene	23	5.0		µg/Kg	1	9/20/2013 01:31 PM
Fluorene	ND	5.0		µg/Kg	1	9/20/2013 01:31 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/Kg	10	9/23/2013 02:34 AM
Naphthalene	ND	5.0		µg/Kg	1	9/20/2013 01:31 PM
Phenanthrene	13	5.0		µg/Kg	1	9/20/2013 01:31 PM
Pyrene	24	5.0		µg/Kg	1	9/20/2013 01:31 PM
Surr: 1,2-Dichlorobenzene-d4	48.0	14-120		%REC	1	9/20/2013 01:31 PM
Surr: 2-Fluorobiphenyl	49.0	28-130		%REC	1	9/20/2013 01:31 PM
Surr: 4-Terphenyl-d14	91.1	19-165		%REC	1	9/20/2013 01:31 PM
Surr: Nitrobenzene-d5	48.0	23-150		%REC	1	9/20/2013 01:31 PM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130923A QC Batch: 43914 PrepDate: 9/19/2013 Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	14	5.0		mg/Kg	1	9/23/2013 08:01 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D3-4
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:47:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-052		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130920A QC Batch: 43910 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	6.6	5.0		µg/Kg	1	9/20/2013 01:59 PM
Acenaphthene	7.0	5.0		µg/Kg	1	9/20/2013 01:59 PM
Acenaphthylene	28	5.0		µg/Kg	1	9/20/2013 01:59 PM
Anthracene	30	5.0		µg/Kg	1	9/20/2013 01:59 PM
Benzo(a)anthracene	150	5.0		µg/Kg	1	9/20/2013 01:59 PM
Benzo(a)pyrene	540	50		µg/Kg	10	9/23/2013 03:02 AM
Benzo(b)fluoranthene	380	50		µg/Kg	10	9/23/2013 03:02 AM
Benzo(g,h,i)perylene	460	50		µg/Kg	10	9/23/2013 03:02 AM
Benzo(k)fluoranthene	160	50		µg/Kg	10	9/23/2013 03:02 AM
Chrysene	190	5.0		µg/Kg	1	9/20/2013 01:59 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/23/2013 03:02 AM
Fluoranthene	680	50		µg/Kg	10	9/23/2013 03:02 AM
Fluorene	9.3	5.0		µg/Kg	1	9/20/2013 01:59 PM
Indeno(1,2,3-cd)pyrene	170	50		µg/Kg	10	9/23/2013 03:02 AM
Naphthalene	7.3	5.0		µg/Kg	1	9/20/2013 01:59 PM
Phenanthrene	200	5.0		µg/Kg	1	9/20/2013 01:59 PM
Pyrene	1400	50		µg/Kg	10	9/23/2013 03:02 AM
Surr: 1,2-Dichlorobenzene-d4	36.0	14-120		%REC	1	9/20/2013 01:59 PM
Surr: 2-Fluorobiphenyl	39.0	28-130		%REC	1	9/20/2013 01:59 PM
Surr: 4-Terphenyl-d14	65.1	19-165		%REC	1	9/20/2013 01:59 PM
Surr: Nitrobenzene-d5	41.0	23-150		%REC	1	9/20/2013 01:59 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/20/2013 07:39 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D3-4
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:47:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-052		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
Benzene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
Bromoform	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
Bromomethane	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
Chloroethane	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
Chloroform	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
Chloromethane	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
m,p-Xylene	ND	10		µg/Kg	1	9/20/2013 07:39 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
MTBE	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
Naphthalene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D3-4
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:47:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-052		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130920A QC Batch: Q13VS002 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
o-Xylene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
Styrene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
Toluene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/20/2013 07:39 PM
Surr: 1,2-Dichloroethane-d4	98.5	63-139		%REC	1	9/20/2013 07:39 PM
Surr: 4-Bromofluorobenzene	83.0	75-124		%REC	1	9/20/2013 07:39 PM
Surr: Dibromofluoromethane	95.5	70-133		%REC	1	9/20/2013 07:39 PM
Surr: Toluene-d8	85.5	80-123		%REC	1	9/20/2013 07:39 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130919A QC Batch: E13VS097 PrepDate: Analyst: **PN**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GRO	ND	1.0		mg/Kg	1	9/19/2013 05:25 PM
Surr: Chlorobenzene - d5	91.2	51-136		%REC	1	9/19/2013 05:25 PM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130923A QC Batch: 43914 PrepDate: 9/19/2013 Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	72	5.0		mg/Kg	1	9/23/2013 08:06 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D3-7.5
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:49:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-053		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM
EPA 3550B **EPA 8270CSIM**

RunID: MS3_130920A QC Batch: 43910 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/20/2013 02:54 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/20/2013 02:54 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/20/2013 02:54 PM
Anthracene	ND	5.0		µg/Kg	1	9/20/2013 02:54 PM
Benzo(a)anthracene	15	5.0		µg/Kg	1	9/20/2013 02:54 PM
Benzo(a)pyrene	ND	50		µg/Kg	10	9/23/2013 03:57 AM
Benzo(b)fluoranthene	ND	50		µg/Kg	10	9/23/2013 03:57 AM
Benzo(g,h,i)perylene	ND	50		µg/Kg	10	9/23/2013 03:57 AM
Benzo(k)fluoranthene	ND	50		µg/Kg	10	9/23/2013 03:57 AM
Chrysene	18	5.0		µg/Kg	1	9/20/2013 02:54 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/23/2013 03:57 AM
Fluoranthene	45	5.0		µg/Kg	1	9/20/2013 02:54 PM
Fluorene	ND	5.0		µg/Kg	1	9/20/2013 02:54 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/Kg	10	9/23/2013 03:57 AM
Naphthalene	ND	5.0		µg/Kg	1	9/20/2013 02:54 PM
Phenanthrene	14	5.0		µg/Kg	1	9/20/2013 02:54 PM
Pyrene	86	5.0		µg/Kg	1	9/20/2013 02:54 PM
Surr: 1,2-Dichlorobenzene-d4	41.0	14-120		%REC	1	9/20/2013 02:54 PM
Surr: 2-Fluorobiphenyl	49.0	28-130		%REC	1	9/20/2013 02:54 PM
Surr: 4-Terphenyl-d14	128	19-165		%REC	1	9/20/2013 02:54 PM
Surr: Nitrobenzene-d5	45.0	23-150		%REC	1	9/20/2013 02:54 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS
EPA 8260B

RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/21/2013 12:21 PM

Qualifiers:

Code	Meaning	Code	Meaning
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D3-7.5
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:49:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-053		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
Benzene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
Bromoform	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
Bromomethane	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
Chloroethane	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
Chloroform	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
Chloromethane	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
m,p-Xylene	ND	10		µg/Kg	1	9/21/2013 12:21 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
MTBE	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
Naphthalene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D3-7.5
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:49:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-053		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
o-Xylene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
Styrene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
Toluene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/21/2013 12:21 PM
Surr: 1,2-Dichloroethane-d4	104	63-139		%REC	1	9/21/2013 12:21 PM
Surr: 4-Bromofluorobenzene	89.2	75-124		%REC	1	9/21/2013 12:21 PM
Surr: Dibromofluoromethane	98.6	70-133		%REC	1	9/21/2013 12:21 PM
Surr: Toluene-d8	91.1	80-123		%REC	1	9/21/2013 12:21 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130919A QC Batch: E13VS097 PrepDate: Analyst: **PN**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GRO	ND	1.0		mg/Kg	1	9/19/2013 06:22 PM
Surr: Chlorobenzene - d5	94.2	51-136		%REC	1	9/19/2013 06:22 PM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130923A QC Batch: 43914 PrepDate: 9/19/2013 Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	29	5.0		mg/Kg	1	9/23/2013 08:16 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D4-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:55:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-054		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC1_130920B	QC Batch: 43915			PrepDate: 9/19/2013		Analyst: **MDM**
DRO	47	5.0		mg/Kg	5	9/21/2013 02:21 AM
ORO	130	5.0		mg/Kg	5	9/21/2013 02:21 AM
Surr: p-Terphenyl	71.4	59-127		%REC	5	9/21/2013 02:21 AM
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471				**EPA 7471A**		
RunID: AA1_130918E	QC Batch: 43891			PrepDate: 9/17/2013		Analyst: **JT**
Mercury	0.18	0.099		mg/Kg	1	9/18/2013
ICP METALS						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130921A	QC Batch: 43923			PrepDate: 9/20/2013		Analyst: **JT**
Antimony	ND	2.0		mg/Kg	1	9/21/2013 05:41 PM
Arsenic	16	1.0		mg/Kg	1	9/21/2013 05:41 PM
Barium	100	1.0		mg/Kg	1	9/21/2013 05:41 PM
Beryllium	ND	1.0		mg/Kg	1	9/21/2013 05:41 PM
Cadmium	ND	1.0		mg/Kg	1	9/21/2013 05:41 PM
Chromium	21	1.0		mg/Kg	1	9/21/2013 05:41 PM
Cobalt	8.2	1.0		mg/Kg	1	9/21/2013 05:41 PM
Copper	25	2.0		mg/Kg	1	9/21/2013 05:41 PM
Lead	12	1.0		mg/Kg	1	9/21/2013 05:41 PM
Molybdenum	ND	1.0		mg/Kg	1	9/21/2013 05:41 PM
Nickel	15	1.0		mg/Kg	1	9/21/2013 05:41 PM
Selenium	2.4	1.0		mg/Kg	1	9/21/2013 05:41 PM
Silver	ND	1.0		mg/Kg	1	9/21/2013 05:41 PM
Thallium	ND	1.0		mg/Kg	1	9/21/2013 05:41 PM
Vanadium	34	1.0		mg/Kg	1	9/21/2013 05:41 PM
Zinc	80	1.0	B	mg/Kg	1	9/21/2013 05:41 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D4-4
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:57:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-055		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC1_130920B	QC Batch: 43915			PrepDate:	9/19/2013	Analyst: **MDM**
DRO	34	5.0		mg/Kg	5	9/21/2013 02:46 AM
ORO	130	5.0		mg/Kg	5	9/21/2013 02:46 AM
Surr: p-Terphenyl	78.7	59-127		%REC	5	9/21/2013 02:46 AM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43914			PrepDate:	9/19/2013	Analyst: **CEI**
Lead	5.1	5.0		mg/Kg	1	9/23/2013 08:25 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D4-7.5
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:59:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-056		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC1_130920B	QC Batch: 43915			PrepDate:	9/19/2013	Analyst: **MDM**
DRO	17	5.0		mg/Kg	5	9/21/2013 03:12 AM
ORO	47	5.0		mg/Kg	5	9/21/2013 03:12 AM
Surr: p-Terphenyl	83.2	59-127		%REC	5	9/21/2013 03:12 AM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
EPA 3550B				**EPA 8081A**		
RunID: GC7_130919B	QC Batch: 43900			PrepDate:	9/18/2013	Analyst: **MDM**
4,4´-DDD	ND	2.0		µg/Kg	1	9/20/2013 03:02 AM
4,4´-DDE	ND	2.0		µg/Kg	1	9/20/2013 03:02 AM
4,4´-DDT	ND	2.0		µg/Kg	1	9/20/2013 03:02 AM
Aldrin	ND	1.0		µg/Kg	1	9/20/2013 03:02 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/20/2013 03:02 AM
alpha-Chlordane	ND	1.0		µg/Kg	1	9/20/2013 03:02 AM
beta-BHC	ND	1.0		µg/Kg	1	9/20/2013 03:02 AM
Chlordane	ND	8.5		µg/Kg	1	9/20/2013 03:02 AM
delta-BHC	ND	1.0		µg/Kg	1	9/20/2013 03:02 AM
Dieldrin	ND	2.0		µg/Kg	1	9/20/2013 03:02 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/20/2013 03:02 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/20/2013 03:02 AM
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/20/2013 03:02 AM
Endrin	ND	2.0		µg/Kg	1	9/20/2013 03:02 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/20/2013 03:02 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/20/2013 03:02 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/20/2013 03:02 AM
gamma-Chlordane	ND	1.0		µg/Kg	1	9/20/2013 03:02 AM
Heptachlor	ND	1.0		µg/Kg	1	9/20/2013 03:02 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/20/2013 03:02 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/20/2013 03:02 AM
Toxaphene	ND	85		µg/Kg	1	9/20/2013 03:02 AM
Surr: Tetrachloro-m-xylene	37.5	28-161		%REC	1	9/20/2013 03:02 AM
Surr: Decachlorobiphenyl	51.4	28-120		%REC	1	9/20/2013 03:02 AM
PCBS BY GC/ECD						
EPA 3550B				**EPA 8082**		
RunID: GC7_130918A	QC Batch: 43900			PrepDate:	9/18/2013	Analyst: **MDM**
Aroclor 1016	ND	16		µg/Kg	1	9/18/2013 11:05 PM
Aroclor 1221	ND	33		µg/Kg	1	9/18/2013 11:05 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D4-7.5
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:59:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-056		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
PCBS BY GC/ECD						
EPA 3550B				**EPA 8082**		
RunID: GC7_130918A	QC Batch: 43900			PrepDate:	9/18/2013	Analyst: **MDM**
Aroclor 1232	ND	16		µg/Kg	1	9/18/2013 11:05 PM
Aroclor 1242	ND	16		µg/Kg	1	9/18/2013 11:05 PM
Aroclor 1248	ND	16		µg/Kg	1	9/18/2013 11:05 PM
Aroclor 1254	ND	16		µg/Kg	1	9/18/2013 11:05 PM
Aroclor 1260	ND	16		µg/Kg	1	9/18/2013 11:05 PM
Surr: Decachlorobiphenyl	75.8	40-146		%REC	1	9/18/2013 11:05 PM
Surr: Tetrachloro-m-xylene	49.0	32-109		%REC	1	9/18/2013 11:05 PM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43914			PrepDate:	9/19/2013	Analyst: **CEI**
Lead	22	5.0		mg/Kg	1	9/23/2013 08:29 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Advanced Technology Laboratories, Inc.

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E1-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:10:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-057		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130920A QC Batch: 43910 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/20/2013 03:22 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/20/2013 03:22 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/20/2013 03:22 PM
Anthracene	ND	5.0		µg/Kg	1	9/20/2013 03:22 PM
Benzo(a)anthracene	11	5.0		µg/Kg	1	9/20/2013 03:22 PM
Benzo(a)pyrene	ND	50		µg/Kg	10	9/23/2013 04:25 AM
Benzo(b)fluoranthene	ND	50		µg/Kg	10	9/23/2013 04:25 AM
Benzo(g,h,i)perylene	ND	50		µg/Kg	10	9/23/2013 04:25 AM
Benzo(k)fluoranthene	ND	50		µg/Kg	10	9/23/2013 04:25 AM
Chrysene	12	5.0		µg/Kg	1	9/20/2013 03:22 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/23/2013 04:25 AM
Fluoranthene	19	5.0		µg/Kg	1	9/20/2013 03:22 PM
Fluorene	ND	5.0		µg/Kg	1	9/20/2013 03:22 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/Kg	10	9/23/2013 04:25 AM
Naphthalene	ND	5.0		µg/Kg	1	9/20/2013 03:22 PM
Phenanthrene	8.0	5.0		µg/Kg	1	9/20/2013 03:22 PM
Pyrene	19	5.0		µg/Kg	1	9/20/2013 03:22 PM
Surr: 1,2-Dichlorobenzene-d4	54.1	14-120		%REC	1	9/20/2013 03:22 PM
Surr: 2-Fluorobiphenyl	55.1	28-130		%REC	1	9/20/2013 03:22 PM
Surr: 4-Terphenyl-d14	121	19-165		%REC	1	9/20/2013 03:22 PM
Surr: Nitrobenzene-d5	54.1	23-150		%REC	1	9/20/2013 03:22 PM

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919B QC Batch: 43900 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
4,4´-DDD	ND	2.0		µg/Kg	1	9/20/2013 03:28 AM
4,4´-DDE	ND	2.0		µg/Kg	1	9/20/2013 03:28 AM
4,4´-DDT	ND	2.0		µg/Kg	1	9/20/2013 03:28 AM
Aldrin	ND	1.0		µg/Kg	1	9/20/2013 03:28 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/20/2013 03:28 AM
alpha-Chlordane	ND	1.0		µg/Kg	1	9/20/2013 03:28 AM
beta-BHC	ND	1.0		µg/Kg	1	9/20/2013 03:28 AM
Chlordane	ND	8.5		µg/Kg	1	9/20/2013 03:28 AM
delta-BHC	ND	1.0		µg/Kg	1	9/20/2013 03:28 AM
Dieldrin	ND	2.0		µg/Kg	1	9/20/2013 03:28 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/20/2013 03:28 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/20/2013 03:28 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E1-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:10:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-057		

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919B QC Batch: 43900 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/20/2013 03:28 AM
Endrin	ND	2.0		µg/Kg	1	9/20/2013 03:28 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/20/2013 03:28 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/20/2013 03:28 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/20/2013 03:28 AM
gamma-Chlordane	ND	1.0		µg/Kg	1	9/20/2013 03:28 AM
Heptachlor	ND	1.0		µg/Kg	1	9/20/2013 03:28 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/20/2013 03:28 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/20/2013 03:28 AM
Toxaphene	ND	85		µg/Kg	1	9/20/2013 03:28 AM
Surr: Tetrachloro-m-xylene	51.4	28-161		%REC	1	9/20/2013 03:28 AM
Surr: Decachlorobiphenyl	57.4	28-120		%REC	1	9/20/2013 03:28 AM

PCBS BY GC/ECD

EPA 3550B **EPA 8082**

RunID: GC7_130918A QC Batch: 43900 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Aroclor 1016	ND	17		µg/Kg	1	9/18/2013 11:34 PM
Aroclor 1221	ND	33		µg/Kg	1	9/18/2013 11:34 PM
Aroclor 1232	ND	17		µg/Kg	1	9/18/2013 11:34 PM
Aroclor 1242	ND	17		µg/Kg	1	9/18/2013 11:34 PM
Aroclor 1248	ND	17		µg/Kg	1	9/18/2013 11:34 PM
Aroclor 1254	ND	17		µg/Kg	1	9/18/2013 11:34 PM
Aroclor 1260	ND	17		µg/Kg	1	9/18/2013 11:34 PM
Surr: Decachlorobiphenyl	76.7	40-146		%REC	1	9/18/2013 11:34 PM
Surr: Tetrachloro-m-xylene	61.6	32-109		%REC	1	9/18/2013 11:34 PM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130923A QC Batch: 43914 PrepDate: 9/19/2013 Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	29	5.0		mg/Kg	1	9/23/2013 08:34 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E1-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:12:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-058		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130920A QC Batch: 43910 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/20/2013 03:50 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/20/2013 03:50 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/20/2013 03:50 PM
Anthracene	ND	5.0		µg/Kg	1	9/20/2013 03:50 PM
Benzo(a)anthracene	12	5.0		µg/Kg	1	9/20/2013 03:50 PM
Benzo(a)pyrene	ND	100		µg/Kg	20	9/23/2013 06:08 PM
Benzo(b)fluoranthene	ND	100		µg/Kg	20	9/23/2013 06:08 PM
Benzo(g,h,i)perylene	ND	100		µg/Kg	20	9/23/2013 06:08 PM
Benzo(k)fluoranthene	ND	100		µg/Kg	20	9/23/2013 06:08 PM
Chrysene	11	5.0		µg/Kg	1	9/20/2013 03:50 PM
Dibenz(a,h)anthracene	ND	100		µg/Kg	20	9/23/2013 06:08 PM
Fluoranthene	17	5.0		µg/Kg	1	9/20/2013 03:50 PM
Fluorene	ND	5.0		µg/Kg	1	9/20/2013 03:50 PM
Indeno(1,2,3-cd)pyrene	ND	100		µg/Kg	20	9/23/2013 06:08 PM
Naphthalene	ND	5.0		µg/Kg	1	9/20/2013 03:50 PM
Phenanthrene	7.4	5.0		µg/Kg	1	9/20/2013 03:50 PM
Pyrene	18	5.0		µg/Kg	1	9/20/2013 03:50 PM
Surr: 1,2-Dichlorobenzene-d4	48.0	14-120		%REC	1	9/20/2013 03:50 PM
Surr: 2-Fluorobiphenyl	53.1	28-130		%REC	1	9/20/2013 03:50 PM
Surr: 4-Terphenyl-d14	116	19-165		%REC	1	9/20/2013 03:50 PM
Surr: Nitrobenzene-d5	48.0	23-150		%REC	1	9/20/2013 03:50 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/21/2013 12:42 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E1-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:12:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-058		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
Benzene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
Bromoform	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
Bromomethane	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
Chloroethane	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
Chloroform	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
Chloromethane	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
m,p-Xylene	ND	10		µg/Kg	1	9/21/2013 12:42 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
MTBE	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
Naphthalene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E1-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:12:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-058		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
o-Xylene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
Styrene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
Toluene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/21/2013 12:42 PM
Surr: 1,2-Dichloroethane-d4	95.4	63-139		%REC	1	9/21/2013 12:42 PM
Surr: 4-Bromofluorobenzene	75.7	75-124		%REC	1	9/21/2013 12:42 PM
Surr: Dibromofluoromethane	90.9	70-133		%REC	1	9/21/2013 12:42 PM
Surr: Toluene-d8	81.8	80-123		%REC	1	9/21/2013 12:42 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130919A QC Batch: E13VS097 PrepDate: Analyst: **PN**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GRO	ND	1.0		mg/Kg	1	9/19/2013 02:32 PM
Surr: Chlorobenzene - d5	94.6	51-136		%REC	1	9/19/2013 02:32 PM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130923A QC Batch: 43914 PrepDate: 9/19/2013 Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	58	5.0		mg/Kg	1	9/23/2013 08:38 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E1-6
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:14:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-059		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130920A QC Batch: 43910 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/20/2013 04:18 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/20/2013 04:18 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/20/2013 04:18 PM
Anthracene	ND	5.0		µg/Kg	1	9/20/2013 04:18 PM
Benzo(a)anthracene	28	5.0		µg/Kg	1	9/20/2013 04:18 PM
Benzo(a)pyrene	ND	100		µg/Kg	20	9/23/2013 06:36 PM
Benzo(b)fluoranthene	ND	100		µg/Kg	20	9/23/2013 06:36 PM
Benzo(g,h,i)perylene	ND	100		µg/Kg	20	9/23/2013 06:36 PM
Benzo(k)fluoranthene	ND	100		µg/Kg	20	9/23/2013 06:36 PM
Chrysene	29	5.0		µg/Kg	1	9/20/2013 04:18 PM
Dibenz(a,h)anthracene	ND	100		µg/Kg	20	9/23/2013 06:36 PM
Fluoranthene	35	5.0		µg/Kg	1	9/20/2013 04:18 PM
Fluorene	ND	5.0		µg/Kg	1	9/20/2013 04:18 PM
Indeno(1,2,3-cd)pyrene	ND	100		µg/Kg	20	9/23/2013 06:36 PM
Naphthalene	ND	5.0		µg/Kg	1	9/20/2013 04:18 PM
Phenanthrene	11	5.0		µg/Kg	1	9/20/2013 04:18 PM
Pyrene	35	5.0		µg/Kg	1	9/20/2013 04:18 PM
Surr: 1,2-Dichlorobenzene-d4	48.0	14-120		%REC	1	9/20/2013 04:18 PM
Surr: 2-Fluorobiphenyl	49.0	28-130		%REC	1	9/20/2013 04:18 PM
Surr: 4-Terphenyl-d14	108	19-165		%REC	1	9/20/2013 04:18 PM
Surr: Nitrobenzene-d5	48.0	23-150		%REC	1	9/20/2013 04:18 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/21/2013 01:03 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E1-6
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:14:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-059		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
Benzene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
Bromoform	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
Bromomethane	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
Chloroethane	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
Chloroform	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
Chloromethane	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
m,p-Xylene	ND	10		µg/Kg	1	9/21/2013 01:03 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
MTBE	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
Naphthalene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E1-6
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:14:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-059		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 8260B						
RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**						
o-Xylene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
Styrene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
Toluene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/21/2013 01:03 PM
Surr: 1,2-Dichloroethane-d4	103	63-139		%REC	1	9/21/2013 01:03 PM
Surr: 4-Bromofluorobenzene	82.8	75-124		%REC	1	9/21/2013 01:03 PM
Surr: Dibromofluoromethane	98.1	70-133		%REC	1	9/21/2013 01:03 PM
Surr: Toluene-d8	87.9	80-123		%REC	1	9/21/2013 01:03 PM
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B						
RunID: GC4_130919A QC Batch: E13VS097 PrepDate: Analyst: **PN**						
GRO	ND	1.0		mg/Kg	1	9/19/2013 03:01 PM
Surr: Chlorobenzene - d5	103	51-136		%REC	1	9/19/2013 03:01 PM
LEAD BY ICP						
EPA 3050B **EPA 6010B**						
RunID: ICP2_130923A QC Batch: 43914 PrepDate: 9/19/2013 Analyst: **CEI**						
Lead	25	5.0		mg/Kg	1	9/23/2013 08:43 PM

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E2-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:20:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-060		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC1_130920B	QC Batch: 43915			PrepDate:	9/19/2013	Analyst: **MDM**
DRO	76	5.0		mg/Kg	5	9/21/2013 03:37 AM
ORO	220	5.0		mg/Kg	5	9/21/2013 03:37 AM
Surr: p-Terphenyl	72.1	59-127		%REC	5	9/21/2013 03:37 AM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43914			PrepDate:	9/19/2013	Analyst: **CEI**
Lead	13	5.0		mg/Kg	1	9/23/2013 09:05 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Geocon Consultants, Inc.
Lab Order: N011009
Project: 800 Cedar St, E8560-02-55
Lab ID: N011009-061

Client Sample ID: E2-3
Collection Date: 9/12/2013 10:22:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC1_130920B	QC Batch: 43915			PrepDate:	9/19/2013	Analyst: **MDM**
DRO	53	5.0		mg/Kg	5	9/21/2013 04:03 AM
ORO	160	5.0		mg/Kg	5	9/21/2013 04:03 AM
Surr: p-Terphenyl	83.0	59-127		%REC	5	9/21/2013 04:03 AM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
EPA 3550B				**EPA 8081A**		
RunID: GC7_130919B	QC Batch: 43900			PrepDate:	9/18/2013	Analyst: **MDM**
4,4´-DDD	ND	2.0		µg/Kg	1	9/20/2013 04:20 AM
4,4´-DDE	ND	2.0		µg/Kg	1	9/20/2013 04:20 AM
4,4´-DDT	ND	2.0		µg/Kg	1	9/20/2013 04:20 AM
Aldrin	ND	1.0		µg/Kg	1	9/20/2013 04:20 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/20/2013 04:20 AM
alpha-Chlordane	9.3	1.0		µg/Kg	1	9/20/2013 04:20 AM
beta-BHC	ND	1.0		µg/Kg	1	9/20/2013 04:20 AM
Chlordane	29	8.5		µg/Kg	1	9/20/2013 04:20 AM
delta-BHC	ND	1.0		µg/Kg	1	9/20/2013 04:20 AM
Dieldrin	ND	2.0		µg/Kg	1	9/20/2013 04:20 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/20/2013 04:20 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/20/2013 04:20 AM
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/20/2013 04:20 AM
Endrin	ND	2.0		µg/Kg	1	9/20/2013 04:20 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/20/2013 04:20 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/20/2013 04:20 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/20/2013 04:20 AM
gamma-Chlordane	7.1	1.0		µg/Kg	1	9/20/2013 04:20 AM
Heptachlor	ND	1.0		µg/Kg	1	9/20/2013 04:20 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/20/2013 04:20 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/20/2013 04:20 AM
Toxaphene	ND	85		µg/Kg	1	9/20/2013 04:20 AM
Surr: Tetrachloro-m-xylene	52.7	28-161		%REC	1	9/20/2013 04:20 AM
Surr: Decachlorobiphenyl	54.3	28-120		%REC	1	9/20/2013 04:20 AM
PCBS BY GC/ECD						
EPA 3550B				**EPA 8082**		
RunID: GC7_130918A	QC Batch: 43900			PrepDate:	9/18/2013	Analyst: **MDM**
Aroclor 1016	ND	17		µg/Kg	1	9/19/2013 12:33 AM
Aroclor 1221	ND	33		µg/Kg	1	9/19/2013 12:33 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E2-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:22:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-061		

Analyses	**Result**	**PQL**	**Qual**	**Units**	**DF**	**Date Analyzed**
PCBS BY GC/ECD						
EPA 3550B				**EPA 8082**		
RunID: GC7_130918A	QC Batch: 43900			PrepDate:	9/18/2013	Analyst: **MDM**
Aroclor 1232	ND	17		µg/Kg	1	9/19/2013 12:33 AM
Aroclor 1242	ND	17		µg/Kg	1	9/19/2013 12:33 AM
Aroclor 1248	ND	17		µg/Kg	1	9/19/2013 12:33 AM
Aroclor 1254	ND	17		µg/Kg	1	9/19/2013 12:33 AM
Aroclor 1260	ND	17		µg/Kg	1	9/19/2013 12:33 AM
Surr: Decachlorobiphenyl	60.2	40-146		%REC	1	9/19/2013 12:33 AM
Surr: Tetrachloro-m-xylene	55.2	32-109		%REC	1	9/19/2013 12:33 AM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43914			PrepDate:	9/19/2013	Analyst: **CEI**
Lead	22	5.0		mg/Kg	1	9/23/2013 09:10 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT: Geocon Consultants, Inc.
Lab Order: N011009
Project: 800 Cedar St, E8560-02-55
Lab ID: N011009-062

Client Sample ID: E2-6
Collection Date: 9/12/2013 10:24:00 AM
Matrix: SOIL

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130920B QC Batch: 43915 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	17	5.0		mg/Kg	5	9/21/2013 04:28 AM
ORO	44	5.0		mg/Kg	5	9/21/2013 04:28 AM
Surr: p-Terphenyl	85.5	59-127		%REC	5	9/21/2013 04:28 AM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43891 PrepDate: 9/17/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	0.16	0.10		mg/Kg	1	9/18/2013

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130921A QC Batch: 43923 PrepDate: 9/20/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/21/2013 05:55 PM
Arsenic	4.5	1.0		mg/Kg	1	9/21/2013 05:55 PM
Barium	95	1.0		mg/Kg	1	9/21/2013 05:55 PM
Beryllium	ND	1.0		mg/Kg	1	9/21/2013 05:55 PM
Cadmium	ND	1.0		mg/Kg	1	9/21/2013 05:55 PM
Chromium	41	1.0		mg/Kg	1	9/21/2013 05:55 PM
Cobalt	10	1.0		mg/Kg	1	9/21/2013 05:55 PM
Copper	28	2.0		mg/Kg	1	9/21/2013 05:55 PM
Lead	21	1.0		mg/Kg	1	9/21/2013 05:55 PM
Molybdenum	ND	1.0		mg/Kg	1	9/21/2013 05:55 PM
Nickel	66	1.0		mg/Kg	1	9/21/2013 05:55 PM
Selenium	1.1	1.0		mg/Kg	1	9/21/2013 05:55 PM
Silver	ND	1.0		mg/Kg	1	9/21/2013 05:55 PM
Thallium	ND	1.0		mg/Kg	1	9/21/2013 05:55 PM
Vanadium	33	1.0		mg/Kg	1	9/21/2013 05:55 PM
Zinc	52	1.0	B	mg/Kg	1	9/21/2013 05:55 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E3-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:35:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-063		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3550B				**EPA 8270CSIM**		
RunID: MS3_130920A	QC Batch: 43910			PrepDate: 9/19/2013		Analyst: **MDM**
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/20/2013 04:46 PM
Acenaphthene	ND	5.0		µg/Kg	1	9/20/2013 04:46 PM
Acenaphthylene	ND	5.0		µg/Kg	1	9/20/2013 04:46 PM
Anthracene	ND	5.0		µg/Kg	1	9/20/2013 04:46 PM
Benzo(a)anthracene	ND	50		µg/Kg	10	9/23/2013 05:48 AM
Benzo(a)pyrene	ND	100		µg/Kg	20	9/23/2013 07:03 PM
Benzo(b)fluoranthene	ND	100		µg/Kg	20	9/23/2013 07:03 PM
Benzo(g,h,i)perylene	ND	100		µg/Kg	20	9/23/2013 07:03 PM
Benzo(k)fluoranthene	ND	100		µg/Kg	20	9/23/2013 07:03 PM
Chrysene	ND	50		µg/Kg	10	9/23/2013 05:48 AM
Dibenz(a,h)anthracene	ND	100		µg/Kg	20	9/23/2013 07:03 PM
Fluoranthene	19	5.0		µg/Kg	1	9/20/2013 04:46 PM
Fluorene	ND	5.0		µg/Kg	1	9/20/2013 04:46 PM
Indeno(1,2,3-cd)pyrene	ND	100		µg/Kg	20	9/23/2013 07:03 PM
Naphthalene	ND	5.0		µg/Kg	1	9/20/2013 04:46 PM
Phenanthrene	14	5.0		µg/Kg	1	9/20/2013 04:46 PM
Pyrene	23	5.0		µg/Kg	1	9/20/2013 04:46 PM
Surr: 1,2-Dichlorobenzene-d4	47.0	14-120		%REC	1	9/20/2013 04:46 PM
Surr: 2-Fluorobiphenyl	55.1	28-130		%REC	1	9/20/2013 04:46 PM
Surr: 4-Terphenyl-d14	90.1	19-165		%REC	10	9/23/2013 05:48 AM
Surr: Nitrobenzene-d5	49.0	23-150		%REC	1	9/20/2013 04:46 PM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43914			PrepDate: 9/19/2013		Analyst: **CEI**
Lead	33	5.0		mg/Kg	1	9/23/2013 09:14 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E3-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:37:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-064		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130920A QC Batch: 43910 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/20/2013 05:41 PM
Acenaphthene	28	5.0		µg/Kg	1	9/20/2013 05:41 PM
Acenaphthylene	36	5.0		µg/Kg	1	9/20/2013 05:41 PM
Anthracene	120	5.0		µg/Kg	1	9/20/2013 05:41 PM
Benzo(a)anthracene	320	50		µg/Kg	10	9/23/2013 06:16 AM
Benzo(a)pyrene	330	100		µg/Kg	20	9/23/2013 07:31 PM
Benzo(b)fluoranthene	380	100		µg/Kg	20	9/23/2013 07:31 PM
Benzo(g,h,i)perylene	130	100		µg/Kg	20	9/23/2013 07:31 PM
Benzo(k)fluoranthene	180	100		µg/Kg	20	9/23/2013 07:31 PM
Chrysene	330	50		µg/Kg	10	9/23/2013 06:16 AM
Dibenz(a,h)anthracene	ND	100		µg/Kg	20	9/23/2013 07:31 PM
Fluoranthene	680	50		µg/Kg	10	9/23/2013 06:16 AM
Fluorene	32	5.0		µg/Kg	1	9/20/2013 05:41 PM
Indeno(1,2,3-cd)pyrene	120	100		µg/Kg	20	9/23/2013 07:31 PM
Naphthalene	5.3	5.0		µg/Kg	1	9/20/2013 05:41 PM
Phenanthrene	460	50		µg/Kg	10	9/23/2013 06:16 AM
Pyrene	710	50		µg/Kg	10	9/23/2013 06:16 AM
Surr: 1,2-Dichlorobenzene-d4	48.0	14-120		%REC	1	9/20/2013 05:41 PM
Surr: 2-Fluorobiphenyl	54.1	28-130		%REC	1	9/20/2013 05:41 PM
Surr: 4-Terphenyl-d14	100	19-165		%REC	10	9/23/2013 06:16 AM
Surr: Nitrobenzene-d5	50.1	23-150		%REC	1	9/20/2013 05:41 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/21/2013 01:24 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E3-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:37:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-064		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
Benzene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
Bromoform	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
Bromomethane	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
Chloroethane	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
Chloroform	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
Chloromethane	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
m,p-Xylene	ND	10		µg/Kg	1	9/21/2013 01:24 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
MTBE	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
Naphthalene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E3-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:37:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-064		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS6_130921A	QC Batch: Q13VS003			PrepDate:		Analyst: **QBM**
o-Xylene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
Styrene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
Toluene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/21/2013 01:24 PM
Surr: 1,2-Dichloroethane-d4	101	63-139		%REC	1	9/21/2013 01:24 PM
Surr: 4-Bromofluorobenzene	83.8	75-124		%REC	1	9/21/2013 01:24 PM
Surr: Dibromofluoromethane	97.3	70-133		%REC	1	9/21/2013 01:24 PM
Surr: Toluene-d8	87.7	80-123		%REC	1	9/21/2013 01:24 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B		
RunID: GC4_130919A	QC Batch: E13VS097			PrepDate:		Analyst: **PN**
GRO	ND	1.0		mg/Kg	1	9/19/2013 03:30 PM
Surr: Chlorobenzene - d5	94.9	51-136		%REC	1	9/19/2013 03:30 PM
LEAD BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43922			PrepDate:	9/20/2013	Analyst: **CEI**
Lead	58	5.0		mg/Kg	1	9/23/2013 09:33 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E3-6
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:39:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-065		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3550B				**EPA 8270CSIM**		
RunID: MS3_130920B	QC Batch: 43920			PrepDate: 9/20/2013		Analyst: **MDM**
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/21/2013 01:03 AM
Acenaphthene	ND	5.0		µg/Kg	1	9/21/2013 01:03 AM
Acenaphthylene	ND	5.0		µg/Kg	1	9/21/2013 01:03 AM
Anthracene	ND	5.0		µg/Kg	1	9/21/2013 01:03 AM
Benzo(a)anthracene	16	5.0		µg/Kg	1	9/21/2013 01:03 AM
Benzo(a)pyrene	ND	100		µg/Kg	20	9/25/2013 11:11 AM
Benzo(b)fluoranthene	ND	100		µg/Kg	20	9/25/2013 11:11 AM
Benzo(g,h,i)perylene	ND	100		µg/Kg	20	9/25/2013 11:11 AM
Benzo(k)fluoranthene	ND	100		µg/Kg	20	9/25/2013 11:11 AM
Chrysene	27	5.0		µg/Kg	1	9/21/2013 01:03 AM
Dibenz(a,h)anthracene	ND	100		µg/Kg	20	9/25/2013 11:11 AM
Fluoranthene	33	5.0		µg/Kg	1	9/21/2013 01:03 AM
Fluorene	ND	5.0		µg/Kg	1	9/21/2013 01:03 AM
Indeno(1,2,3-cd)pyrene	ND	100		µg/Kg	20	9/25/2013 11:11 AM
Naphthalene	ND	5.0		µg/Kg	1	9/21/2013 01:03 AM
Phenanthrene	23	5.0		µg/Kg	1	9/21/2013 01:03 AM
Pyrene	32	5.0		µg/Kg	1	9/21/2013 01:03 AM
Surr: 1,2-Dichlorobenzene-d4	40.0	14-120		%REC	1	9/21/2013 01:03 AM
Surr: 2-Fluorobiphenyl	41.0	28-130		%REC	1	9/21/2013 01:03 AM
Surr: 4-Terphenyl-d14	78.1	19-165		%REC	1	9/21/2013 01:03 AM
Surr: Nitrobenzene-d5	42.0	23-150		%REC	1	9/21/2013 01:03 AM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS6_130921A	QC Batch: Q13VS003			PrepDate:		Analyst: **QBM**
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/21/2013 01:46 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E3-6
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:39:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-065		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
Benzene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
Bromoform	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
Bromomethane	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
Chloroethane	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
Chloroform	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
Chloromethane	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
m,p-Xylene	ND	10		µg/Kg	1	9/21/2013 01:46 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
MTBE	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
Naphthalene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E3-6
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:39:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-065		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
o-Xylene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
Styrene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
Toluene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/21/2013 01:46 PM
Surr: 1,2-Dichloroethane-d4	100	63-139		%REC	1	9/21/2013 01:46 PM
Surr: 4-Bromofluorobenzene	85.2	75-124		%REC	1	9/21/2013 01:46 PM
Surr: Dibromofluoromethane	96.2	70-133		%REC	1	9/21/2013 01:46 PM
Surr: Toluene-d8	88.0	80-123		%REC	1	9/21/2013 01:46 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130919A QC Batch: E13VS097 PrepDate: Analyst: **PN**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GRO	ND	1.0		mg/Kg	1	9/19/2013 03:58 PM
Surr: Chlorobenzene - d5	95.9	51-136		%REC	1	9/19/2013 03:58 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43891 PrepDate: 9/17/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	1.1	0.10		mg/Kg	1	9/18/2013

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130921A QC Batch: 43923 PrepDate: 9/20/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/21/2013 06:02 PM
Arsenic	5.4	1.0		mg/Kg	1	9/21/2013 06:02 PM
Barium	120	1.0		mg/Kg	1	9/21/2013 06:02 PM
Beryllium	ND	1.0		mg/Kg	1	9/21/2013 06:02 PM
Cadmium	ND	1.0		mg/Kg	1	9/21/2013 06:02 PM
Chromium	30	1.0		mg/Kg	1	9/21/2013 06:02 PM
Cobalt	9.1	1.0		mg/Kg	1	9/21/2013 06:02 PM
Copper	42	2.0		mg/Kg	1	9/21/2013 06:02 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E3-6
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:39:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-065		

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130921A QC Batch: 43923 PrepDate: 9/20/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	85	1.0		mg/Kg	1	9/21/2013 06:02 PM
Molybdenum	ND	1.0		mg/Kg	1	9/21/2013 06:02 PM
Nickel	31	1.0		mg/Kg	1	9/21/2013 06:02 PM
Selenium	1.2	1.0		mg/Kg	1	9/21/2013 06:02 PM
Silver	ND	1.0		mg/Kg	1	9/21/2013 06:02 PM
Thallium	ND	1.0		mg/Kg	1	9/21/2013 06:02 PM
Vanadium	33	1.0		mg/Kg	1	9/21/2013 06:02 PM
Zinc	73	1.0	B	mg/Kg	1	9/21/2013 06:02 PM

Qualifiers:

Code	Description	Code	Description
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	C1-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:10:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-066		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM
EPA 3550B **EPA 8270CSIM**

RunID: MS3_130920B QC Batch: 43920 PrepDate: 9/20/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/21/2013 01:31 AM
Acenaphthene	ND	5.0		µg/Kg	1	9/21/2013 01:31 AM
Acenaphthylene	ND	5.0		µg/Kg	1	9/21/2013 01:31 AM
Anthracene	ND	5.0		µg/Kg	1	9/21/2013 01:31 AM
Benzo(a)anthracene	9.3	5.0		µg/Kg	1	9/21/2013 01:31 AM
Benzo(a)pyrene	ND	50		µg/Kg	10	9/23/2013 07:39 AM
Benzo(b)fluoranthene	ND	50		µg/Kg	10	9/23/2013 07:39 AM
Benzo(g,h,i)perylene	ND	50		µg/Kg	10	9/23/2013 07:39 AM
Benzo(k)fluoranthene	ND	50		µg/Kg	10	9/23/2013 07:39 AM
Chrysene	22	5.0		µg/Kg	1	9/21/2013 01:31 AM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/23/2013 07:39 AM
Fluoranthene	13	5.0		µg/Kg	1	9/21/2013 01:31 AM
Fluorene	ND	5.0		µg/Kg	1	9/21/2013 01:31 AM
Indeno(1,2,3-cd)pyrene	ND	50		µg/Kg	10	9/23/2013 07:39 AM
Naphthalene	ND	5.0		µg/Kg	1	9/21/2013 01:31 AM
Phenanthrene	11	5.0		µg/Kg	1	9/21/2013 01:31 AM
Pyrene	17	5.0		µg/Kg	1	9/21/2013 01:31 AM
Surr: 1,2-Dichlorobenzene-d4	42.0	14-120		%REC	1	9/21/2013 01:31 AM
Surr: 2-Fluorobiphenyl	49.0	28-130		%REC	1	9/21/2013 01:31 AM
Surr: 4-Terphenyl-d14	122	19-165		%REC	1	9/21/2013 01:31 AM
Surr: Nitrobenzene-d5	45.0	23-150		%REC	1	9/21/2013 01:31 AM

LEAD BY ICP
EPA 3050B **EPA 6010B**

RunID: ICP2_130923A QC Batch: 43922 PrepDate: 9/20/2013 Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	14	5.0		mg/Kg	1	9/23/2013 10:08 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	C1-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:12:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-067		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B EPA 8270CSIM

RunID: MS3_130920B QC Batch: 43920 PrepDate: 9/20/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/21/2013 02:26 AM
Acenaphthene	ND	5.0		µg/Kg	1	9/21/2013 02:26 AM
Acenaphthylene	ND	5.0		µg/Kg	1	9/21/2013 02:26 AM
Anthracene	ND	5.0		µg/Kg	1	9/21/2013 02:26 AM
Benzo(a)anthracene	ND	50		µg/Kg	10	9/23/2013 08:34 AM
Benzo(a)pyrene	ND	50		µg/Kg	10	9/23/2013 08:34 AM
Benzo(b)fluoranthene	ND	50		µg/Kg	10	9/23/2013 08:34 AM
Benzo(g,h,i)perylene	ND	50		µg/Kg	10	9/23/2013 08:34 AM
Benzo(k)fluoranthene	ND	50		µg/Kg	10	9/23/2013 08:34 AM
Chrysene	ND	50		µg/Kg	10	9/23/2013 08:34 AM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/23/2013 08:34 AM
Fluoranthene	6.7	5.0		µg/Kg	1	9/21/2013 02:26 AM
Fluorene	ND	5.0		µg/Kg	1	9/21/2013 02:26 AM
Indeno(1,2,3-cd)pyrene	ND	50		µg/Kg	10	9/23/2013 08:34 AM
Naphthalene	ND	5.0		µg/Kg	1	9/21/2013 02:26 AM
Phenanthrene	ND	5.0		µg/Kg	1	9/21/2013 02:26 AM
Pyrene	9.3	5.0		µg/Kg	1	9/21/2013 02:26 AM
Surr: 1,2-Dichlorobenzene-d4	45.0	14-120		%REC	1	9/21/2013 02:26 AM
Surr: 2-Fluorobiphenyl	43.0	28-130		%REC	1	9/21/2013 02:26 AM
Surr: 4-Terphenyl-d14	60.1	19-165		%REC	10	9/23/2013 08:34 AM
Surr: Nitrobenzene-d5	44.0	23-150		%REC	1	9/21/2013 02:26 AM

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B EPA 8081A

RunID: GC7_130919B QC Batch: 43900 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
4,4´-DDD	ND	2.0		µg/Kg	1	9/20/2013 04:46 AM
4,4´-DDE	ND	2.0		µg/Kg	1	9/20/2013 04:46 AM
4,4´-DDT	ND	2.0		µg/Kg	1	9/20/2013 04:46 AM
Aldrin	ND	1.0		µg/Kg	1	9/20/2013 04:46 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/20/2013 04:46 AM
alpha-Chlordane	ND	1.0		µg/Kg	1	9/20/2013 04:46 AM
beta-BHC	ND	1.0		µg/Kg	1	9/20/2013 04:46 AM
Chlordane	ND	8.5		µg/Kg	1	9/20/2013 04:46 AM
delta-BHC	ND	1.0		µg/Kg	1	9/20/2013 04:46 AM
Dieldrin	ND	2.0		µg/Kg	1	9/20/2013 04:46 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/20/2013 04:46 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/20/2013 04:46 AM

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	C1-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:12:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-067		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD						
EPA 3550B				**EPA 8081A**		
RunID: GC7_130919B	QC Batch: 43900			PrepDate:	9/18/2013	Analyst: **MDM**
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/20/2013 04:46 AM
Endrin	ND	2.0		µg/Kg	1	9/20/2013 04:46 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/20/2013 04:46 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/20/2013 04:46 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/20/2013 04:46 AM
gamma-Chlordane	ND	1.0		µg/Kg	1	9/20/2013 04:46 AM
Heptachlor	ND	1.0		µg/Kg	1	9/20/2013 04:46 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/20/2013 04:46 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/20/2013 04:46 AM
Toxaphene	ND	85		µg/Kg	1	9/20/2013 04:46 AM
Surr: Tetrachloro-m-xylene	40.4	28-161		%REC	1	9/20/2013 04:46 AM
Surr: Decachlorobiphenyl	49.3	28-120		%REC	1	9/20/2013 04:46 AM
PCBS BY GC/ECD						
EPA 3550B				**EPA 8082**		
RunID: GC7_130918A	QC Batch: 43900			PrepDate:	9/18/2013	Analyst: **MDM**
Aroclor 1016	ND	16		µg/Kg	1	9/19/2013 02:56 AM
Aroclor 1221	ND	33		µg/Kg	1	9/19/2013 02:56 AM
Aroclor 1232	ND	16		µg/Kg	1	9/19/2013 02:56 AM
Aroclor 1242	ND	16		µg/Kg	1	9/19/2013 02:56 AM
Aroclor 1248	ND	16		µg/Kg	1	9/19/2013 02:56 AM
Aroclor 1254	ND	16		µg/Kg	1	9/19/2013 02:56 AM
Aroclor 1260	ND	16		µg/Kg	1	9/19/2013 02:56 AM
Surr: Decachlorobiphenyl	64.4	40-146		%REC	1	9/19/2013 02:56 AM
Surr: Tetrachloro-m-xylene	46.2	32-109		%REC	1	9/19/2013 02:56 AM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43922			PrepDate:	9/20/2013	Analyst: **CEI**
Lead	29	5.0		mg/Kg	1	9/23/2013 10:16 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	C1-6
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:14:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-068		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3550B				**EPA 8270CSIM**		
RunID: MS3_130920B	QC Batch: 43920			PrepDate: 9/20/2013		Analyst: **MDM**
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/21/2013 02:54 AM
Acenaphthene	7.0	5.0		µg/Kg	1	9/21/2013 02:54 AM
Acenaphthylene	ND	5.0		µg/Kg	1	9/21/2013 02:54 AM
Anthracene	17	5.0		µg/Kg	1	9/21/2013 02:54 AM
Benzo(a)anthracene	100	50		µg/Kg	10	9/23/2013 09:02 AM
Benzo(a)pyrene	160	50		µg/Kg	10	9/23/2013 09:02 AM
Benzo(b)fluoranthene	180	50		µg/Kg	10	9/23/2013 09:02 AM
Benzo(g,h,i)perylene	50	50		µg/Kg	10	9/23/2013 09:02 AM
Benzo(k)fluoranthene	87	50		µg/Kg	10	9/23/2013 09:02 AM
Chrysene	97	50		µg/Kg	10	9/23/2013 09:02 AM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/23/2013 09:02 AM
Fluoranthene	67	5.0		µg/Kg	1	9/21/2013 02:54 AM
Fluorene	5.7	5.0		µg/Kg	1	9/21/2013 02:54 AM
Indeno(1,2,3-cd)pyrene	ND	50		µg/Kg	10	9/23/2013 09:02 AM
Naphthalene	5.7	5.0		µg/Kg	1	9/21/2013 02:54 AM
Phenanthrene	44	5.0		µg/Kg	1	9/21/2013 02:54 AM
Pyrene	70	5.0		µg/Kg	1	9/21/2013 02:54 AM
Surr: 1,2-Dichlorobenzene-d4	49.0	14-120		%REC	1	9/21/2013 02:54 AM
Surr: 2-Fluorobiphenyl	53.1	28-130		%REC	1	9/21/2013 02:54 AM
Surr: 4-Terphenyl-d14	80.1	19-165		%REC	10	9/23/2013 09:02 AM
Surr: Nitrobenzene-d5	54.1	23-150		%REC	1	9/21/2013 02:54 AM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43922			PrepDate: 9/20/2013		Analyst: **CEI**
Lead	24	5.0		mg/Kg	1	9/23/2013 10:21 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	C2-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:20:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-069		

Analyses	**Result**	**PQL**	**Qual**	**Units**	**DF**	**Date Analyzed**
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC1_130920B	QC Batch: 43915			PrepDate: 9/19/2013		Analyst: **MDM**
DRO	68	5.0		mg/Kg	5	9/21/2013 04:54 AM
ORO	170	5.0		mg/Kg	5	9/21/2013 04:54 AM
Surr: p-Terphenyl	83.5	59-127		%REC	5	9/21/2013 04:54 AM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43922			PrepDate: 9/20/2013		Analyst: **CEI**
Lead	11	5.0		mg/Kg	1	9/23/2013 10:25 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	C2-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:22:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-070		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/21/2013 02:07 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
Benzene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
Bromoform	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
Bromomethane	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
Chloroethane	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
Chloroform	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
Chloromethane	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	C2-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:22:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-070		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
m,p-Xylene	ND	10		µg/Kg	1	9/21/2013 02:07 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
MTBE	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
Naphthalene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
o-Xylene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
Styrene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
Toluene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/21/2013 02:07 PM
Surr: 1,2-Dichloroethane-d4	99.7	63-139		%REC	1	9/21/2013 02:07 PM
Surr: 4-Bromofluorobenzene	84.8	75-124		%REC	1	9/21/2013 02:07 PM
Surr: Dibromofluoromethane	96.8	70-133		%REC	1	9/21/2013 02:07 PM
Surr: Toluene-d8	89.5	80-123		%REC	1	9/21/2013 02:07 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130920B QC Batch: 43915 PrepDate: 9/19/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	53	5.0		mg/Kg	5	9/21/2013 05:20 AM
ORO	150	5.0		mg/Kg	5	9/21/2013 05:20 AM
Surr: p-Terphenyl	82.9	59-127		%REC	5	9/21/2013 05:20 AM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130920A QC Batch: E13VS098 PrepDate: Analyst: **PN**

Qualifiers:			
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	C2-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:22:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-070		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B		
RunID: GC4_130920A	QC Batch: E13VS098			PrepDate:		Analyst: **PN**
GRO	ND	1.0		mg/Kg	1	9/20/2013 01:39 PM
Surr: Chlorobenzene - d5	91.9	51-136		%REC	1	9/20/2013 01:39 PM
MERCURY BY COLD VAPOR TECHNIQUE						
	EPA 7471			**EPA 7471A**		
RunID: AA1_130918E	QC Batch: 43891			PrepDate:	9/17/2013	Analyst: **JT**
Mercury	0.24	0.099		mg/Kg	1	9/18/2013
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_130921A	QC Batch: 43923			PrepDate:	9/20/2013	Analyst: **JT**
Antimony	ND	2.0		mg/Kg	1	9/21/2013 06:10 PM
Arsenic	13	1.0		mg/Kg	1	9/21/2013 06:10 PM
Barium	140	1.0		mg/Kg	1	9/21/2013 06:10 PM
Beryllium	ND	1.0		mg/Kg	1	9/21/2013 06:10 PM
Cadmium	ND	1.0		mg/Kg	1	9/21/2013 06:10 PM
Chromium	37	1.0		mg/Kg	1	9/21/2013 06:10 PM
Cobalt	10	1.0		mg/Kg	1	9/21/2013 06:10 PM
Copper	25	2.0		mg/Kg	1	9/21/2013 06:10 PM
Lead	12	1.0		mg/Kg	1	9/21/2013 06:10 PM
Molybdenum	ND	1.0		mg/Kg	1	9/21/2013 06:10 PM
Nickel	40	1.0		mg/Kg	1	9/21/2013 06:10 PM
Selenium	2.0	1.0		mg/Kg	1	9/21/2013 06:10 PM
Silver	ND	1.0		mg/Kg	1	9/21/2013 06:10 PM
Thallium	ND	1.0		mg/Kg	1	9/21/2013 06:10 PM
Vanadium	31	1.0		mg/Kg	1	9/21/2013 06:10 PM
Zinc	88	1.0	B	mg/Kg	1	9/21/2013 06:10 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	C2-6
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:24:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-071		

HEXAVALENT CHROMIUM

EPA 3060A **EPA 7196A**

RunID: WETCHEM_130920D QC Batch: 43908 PrepDate: 9/19/2013 Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chromium, Hexavalent	ND	1.0		mg/Kg	1	9/20/2013

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/21/2013 02:28 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
Benzene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
Bromoform	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
Bromomethane	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
Chloroethane	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	C2-6
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:24:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-071		

Analyses	**Result**	**PQL**	**Qual**	**Units**	**DF**	**Date Analyzed**
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS6_130921A	QC Batch: Q13VS003			PrepDate:		Analyst: **QBM**
Chloroform	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
Chloromethane	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
m,p-Xylene	ND	10		µg/Kg	1	9/21/2013 02:28 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
MTBE	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
Naphthalene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
o-Xylene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
Styrene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
Toluene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/21/2013 02:28 PM
Surr: 1,2-Dichloroethane-d4	95.1	63-139		%REC	1	9/21/2013 02:28 PM
Surr: 4-Bromofluorobenzene	81.2	75-124		%REC	1	9/21/2013 02:28 PM
Surr: Dibromofluoromethane	93.3	70-133		%REC	1	9/21/2013 02:28 PM
Surr: Toluene-d8	85.3	80-123		%REC	1	9/21/2013 02:28 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B**		
RunID: GC1_130921A	QC Batch: 43921			PrepDate:	9/20/2013	Analyst: **MDM**
DRO	30	5.0		mg/Kg	5	9/21/2013 10:58 AM
ORO	94	5.0		mg/Kg	5	9/21/2013 10:58 AM
Surr: p-Terphenyl	90.5	59-127		%REC	5	9/21/2013 10:58 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	C2-6
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:24:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-071		

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919B QC Batch: 43900 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
4,4´-DDD	ND	2.0		µg/Kg	1	9/20/2013 05:12 AM
4,4´-DDE	ND	2.0		µg/Kg	1	9/20/2013 05:12 AM
4,4´-DDT	ND	2.0		µg/Kg	1	9/20/2013 05:12 AM
Aldrin	ND	1.0		µg/Kg	1	9/20/2013 05:12 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/20/2013 05:12 AM
alpha-Chlordane	ND	1.0		µg/Kg	1	9/20/2013 05:12 AM
beta-BHC	ND	1.0		µg/Kg	1	9/20/2013 05:12 AM
Chlordane	ND	8.5		µg/Kg	1	9/20/2013 05:12 AM
delta-BHC	ND	1.0		µg/Kg	1	9/20/2013 05:12 AM
Dieldrin	ND	2.0		µg/Kg	1	9/20/2013 05:12 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/20/2013 05:12 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/20/2013 05:12 AM
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/20/2013 05:12 AM
Endrin	ND	2.0		µg/Kg	1	9/20/2013 05:12 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/20/2013 05:12 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/20/2013 05:12 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/20/2013 05:12 AM
gamma-Chlordane	ND	1.0		µg/Kg	1	9/20/2013 05:12 AM
Heptachlor	ND	1.0		µg/Kg	1	9/20/2013 05:12 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/20/2013 05:12 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/20/2013 05:12 AM
Toxaphene	ND	85		µg/Kg	1	9/20/2013 05:12 AM
Surr: Tetrachloro-m-xylene	55.2	28-161		%REC	1	9/20/2013 05:12 AM
Surr: Decachlorobiphenyl	59.6	28-120		%REC	1	9/20/2013 05:12 AM

PCBS BY GC/ECD

EPA 3550B **EPA 8082**

RunID: GC7_130918A QC Batch: 43900 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Aroclor 1016	ND	17		µg/Kg	1	9/19/2013 03:26 AM
Aroclor 1221	ND	33		µg/Kg	1	9/19/2013 03:26 AM
Aroclor 1232	ND	17		µg/Kg	1	9/19/2013 03:26 AM
Aroclor 1242	ND	17		µg/Kg	1	9/19/2013 03:26 AM
Aroclor 1248	ND	17		µg/Kg	1	9/19/2013 03:26 AM
Aroclor 1254	ND	17		µg/Kg	1	9/19/2013 03:26 AM
Aroclor 1260	ND	17		µg/Kg	1	9/19/2013 03:26 AM
Surr: Decachlorobiphenyl	75.1	40-146		%REC	1	9/19/2013 03:26 AM
Surr: Tetrachloro-m-xylene	59.5	32-109		%REC	1	9/19/2013 03:26 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	C2-6
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:24:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-071		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B		
RunID: GC4_130920A	QC Batch: E13VS098			PrepDate:		Analyst: **PN**
GRO	ND	1.0		mg/Kg	1	9/20/2013 11:44 AM
Surr: Chlorobenzene - d5	76.5	51-136		%REC	1	9/20/2013 11:44 AM
LEAD BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43922			PrepDate:	9/20/2013	Analyst: **CEI**
Lead	40	5.0		mg/Kg	1	9/23/2013 10:29 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	C3-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:40:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-072		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3550B				**EPA 8270CSIM**		
RunID: MS3_130920B	QC Batch: 43920			PrepDate: 9/20/2013		Analyst: **MDM**
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/21/2013 03:21 AM
Acenaphthene	ND	5.0		µg/Kg	1	9/21/2013 03:21 AM
Acenaphthylene	ND	5.0		µg/Kg	1	9/21/2013 03:21 AM
Anthracene	ND	5.0		µg/Kg	1	9/21/2013 03:21 AM
Benzo(a)anthracene	ND	50		µg/Kg	10	9/23/2013 09:30 AM
Benzo(a)pyrene	ND	50		µg/Kg	10	9/23/2013 09:30 AM
Benzo(b)fluoranthene	60	50		µg/Kg	10	9/23/2013 09:30 AM
Benzo(g,h,i)perylene	ND	50		µg/Kg	10	9/23/2013 09:30 AM
Benzo(k)fluoranthene	ND	50		µg/Kg	10	9/23/2013 09:30 AM
Chrysene	ND	50		µg/Kg	10	9/23/2013 09:30 AM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/23/2013 09:30 AM
Fluoranthene	31	5.0		µg/Kg	1	9/21/2013 03:21 AM
Fluorene	ND	5.0		µg/Kg	1	9/21/2013 03:21 AM
Indeno(1,2,3-cd)pyrene	ND	50		µg/Kg	10	9/23/2013 09:30 AM
Naphthalene	ND	5.0		µg/Kg	1	9/21/2013 03:21 AM
Phenanthrene	13	5.0		µg/Kg	1	9/21/2013 03:21 AM
Pyrene	32	5.0		µg/Kg	1	9/21/2013 03:21 AM
Surr: 1,2-Dichlorobenzene-d4	51.1	14-120		%REC	1	9/21/2013 03:21 AM
Surr: 2-Fluorobiphenyl	55.1	28-130		%REC	1	9/21/2013 03:21 AM
Surr: 4-Terphenyl-d14	80.1	19-165		%REC	10	9/23/2013 09:30 AM
Surr: Nitrobenzene-d5	55.1	23-150		%REC	1	9/21/2013 03:21 AM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43922			PrepDate: 9/20/2013		Analyst: **CEI**
Lead	15	5.0		mg/Kg	1	9/23/2013 10:34 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	C3-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:42:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-073		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130920B QC Batch: 43920 PrepDate: 9/20/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	5.0		µg/Kg	1	9/21/2013 03:49 AM
Acenaphthene	ND	5.0		µg/Kg	1	9/21/2013 03:49 AM
Acenaphthylene	25	5.0		µg/Kg	1	9/21/2013 03:49 AM
Anthracene	87	5.0		µg/Kg	1	9/21/2013 03:49 AM
Benzo(a)anthracene	170	50		µg/Kg	10	9/23/2013 09:57 AM
Benzo(a)pyrene	430	50		µg/Kg	10	9/23/2013 09:57 AM
Benzo(b)fluoranthene	360	50		µg/Kg	10	9/23/2013 09:57 AM
Benzo(g,h,i)perylene	300	50		µg/Kg	10	9/23/2013 09:57 AM
Benzo(k)fluoranthene	140	50		µg/Kg	10	9/23/2013 09:57 AM
Chrysene	210	50		µg/Kg	10	9/23/2013 09:57 AM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/23/2013 09:57 AM
Fluoranthene	930	50		µg/Kg	10	9/23/2013 09:57 AM
Fluorene	19	5.0		µg/Kg	1	9/21/2013 03:49 AM
Indeno(1,2,3-cd)pyrene	150	50		µg/Kg	10	9/23/2013 09:57 AM
Naphthalene	ND	5.0		µg/Kg	1	9/21/2013 03:49 AM
Phenanthrene	610	50		µg/Kg	10	9/23/2013 09:57 AM
Pyrene	1700	50		µg/Kg	10	9/23/2013 09:57 AM
Surr: 1,2-Dichlorobenzene-d4	47.0	14-120		%REC	1	9/21/2013 03:49 AM
Surr: 2-Fluorobiphenyl	51.1	28-130		%REC	1	9/21/2013 03:49 AM
Surr: 4-Terphenyl-d14	80.1	19-165		%REC	10	9/23/2013 09:57 AM
Surr: Nitrobenzene-d5	52.1	23-150		%REC	1	9/21/2013 03:49 AM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130923A QC Batch: 43922 PrepDate: 9/20/2013 Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	57	5.0		mg/Kg	1	9/23/2013 10:38 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	C3-6
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:44:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-074		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130921D QC Batch: 43920 PrepDate: 9/20/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	10		µg/Kg	2	9/21/2013 05:44 PM
Acenaphthene	ND	10		µg/Kg	2	9/21/2013 05:44 PM
Acenaphthylene	ND	10		µg/Kg	2	9/21/2013 05:44 PM
Anthracene	ND	10		µg/Kg	2	9/21/2013 05:44 PM
Benzo(a)anthracene	32	10		µg/Kg	2	9/21/2013 05:44 PM
Benzo(a)pyrene	53	50		µg/Kg	10	9/23/2013 12:09 PM
Benzo(b)fluoranthene	60	50		µg/Kg	10	9/23/2013 12:09 PM
Benzo(g,h,i)perylene	56	50		µg/Kg	10	9/23/2013 12:09 PM
Benzo(k)fluoranthene	ND	50		µg/Kg	10	9/23/2013 12:09 PM
Chrysene	46	10		µg/Kg	2	9/21/2013 05:44 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/23/2013 12:09 PM
Fluoranthene	75	10		µg/Kg	2	9/21/2013 05:44 PM
Fluorene	ND	10		µg/Kg	2	9/21/2013 05:44 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/Kg	10	9/23/2013 12:09 PM
Naphthalene	ND	10		µg/Kg	2	9/21/2013 05:44 PM
Phenanthrene	31	10		µg/Kg	2	9/21/2013 05:44 PM
Pyrene	100	10		µg/Kg	2	9/21/2013 05:44 PM
Surr: 1,2-Dichlorobenzene-d4	46.0	14-120		%REC	2	9/21/2013 05:44 PM
Surr: 2-Fluorobiphenyl	46.0	28-130		%REC	2	9/21/2013 05:44 PM
Surr: 4-Terphenyl-d14	106	19-165		%REC	2	9/21/2013 05:44 PM
Surr: Nitrobenzene-d5	48.0	23-150		%REC	2	9/21/2013 05:44 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43891 PrepDate: 9/17/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	0.16	0.099		mg/Kg	1	9/18/2013

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130921A QC Batch: 43923 PrepDate: 9/20/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/21/2013 06:17 PM
Arsenic	2.9	1.0		mg/Kg	1	9/21/2013 06:17 PM
Barium	75	1.0		mg/Kg	1	9/21/2013 06:17 PM
Beryllium	ND	1.0		mg/Kg	1	9/21/2013 06:17 PM
Cadmium	ND	1.0		mg/Kg	1	9/21/2013 06:17 PM
Chromium	81	1.0		mg/Kg	1	9/21/2013 06:17 PM
Cobalt	18	1.0		mg/Kg	1	9/21/2013 06:17 PM

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	C3-6
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:44:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-074		

ICP METALS — **EPA 3050B** — **EPA 6010B**

RunID: ICP2_130921A QC Batch: 43923 PrepDate: 9/20/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Copper	35	2.0		mg/Kg	1	9/21/2013 06:17 PM
Lead	62	1.0		mg/Kg	1	9/21/2013 06:17 PM
Molybdenum	ND	1.0		mg/Kg	1	9/21/2013 06:17 PM
Nickel	63	1.0		mg/Kg	1	9/21/2013 06:17 PM
Selenium	ND	1.0		mg/Kg	1	9/24/2013 09:20 AM
Silver	ND	1.0		mg/Kg	1	9/21/2013 06:17 PM
Thallium	ND	1.0		mg/Kg	1	9/21/2013 06:17 PM
Vanadium	32	1.0		mg/Kg	1	9/21/2013 06:17 PM
Zinc	90	1.0	B	mg/Kg	1	9/21/2013 06:17 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	C4-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:55:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-075		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC1_130921A	QC Batch: 43921			PrepDate:	9/20/2013	Analyst: **MDM**
DRO	78	5.0		mg/Kg	5	9/21/2013 11:23 AM
ORO	240	5.0		mg/Kg	5	9/21/2013 11:23 AM
Surr: p-Terphenyl	80.1	59-127		%REC	5	9/21/2013 11:23 AM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
EPA 3550B				**EPA 8081A**		
RunID: GC7_130919B	QC Batch: 43900			PrepDate:	9/18/2013	Analyst: **MDM**
4,4´-DDD	ND	2.0		µg/Kg	1	9/20/2013 05:39 AM
4,4´-DDE	ND	2.0		µg/Kg	1	9/20/2013 05:39 AM
4,4´-DDT	ND	2.0		µg/Kg	1	9/20/2013 05:39 AM
Aldrin	ND	1.0		µg/Kg	1	9/20/2013 05:39 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/20/2013 05:39 AM
alpha-Chlordane	ND	1.0		µg/Kg	1	9/20/2013 05:39 AM
beta-BHC	ND	1.0		µg/Kg	1	9/20/2013 05:39 AM
Chlordane	ND	8.5		µg/Kg	1	9/20/2013 05:39 AM
delta-BHC	ND	1.0		µg/Kg	1	9/20/2013 05:39 AM
Dieldrin	ND	2.0		µg/Kg	1	9/20/2013 05:39 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/20/2013 05:39 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/20/2013 05:39 AM
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/20/2013 05:39 AM
Endrin	ND	2.0		µg/Kg	1	9/20/2013 05:39 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/20/2013 05:39 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/20/2013 05:39 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/20/2013 05:39 AM
gamma-Chlordane	ND	1.0		µg/Kg	1	9/20/2013 05:39 AM
Heptachlor	ND	1.0		µg/Kg	1	9/20/2013 05:39 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/20/2013 05:39 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/20/2013 05:39 AM
Toxaphene	ND	85		µg/Kg	1	9/20/2013 05:39 AM
Surr: Tetrachloro-m-xylene	53.4	28-161		%REC	1	9/20/2013 05:39 AM
Surr: Decachlorobiphenyl	56.1	28-120		%REC	1	9/20/2013 05:39 AM
PCBS BY GC/ECD						
EPA 3550B				**EPA 8082**		
RunID: GC7_130918A	QC Batch: 43900			PrepDate:	9/18/2013	Analyst: **MDM**
Aroclor 1016	ND	16		µg/Kg	1	9/19/2013 03:55 AM
Aroclor 1221	ND	33		µg/Kg	1	9/19/2013 03:55 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	C4-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:55:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-075		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
PCBS BY GC/ECD						
EPA 3550B				**EPA 8082**		
RunID: GC7_130918A	QC Batch: 43900			PrepDate:	9/18/2013	Analyst: **MDM**
Aroclor 1232	ND	16		µg/Kg	1	9/19/2013 03:55 AM
Aroclor 1242	ND	16		µg/Kg	1	9/19/2013 03:55 AM
Aroclor 1248	ND	16		µg/Kg	1	9/19/2013 03:55 AM
Aroclor 1254	ND	16		µg/Kg	1	9/19/2013 03:55 AM
Aroclor 1260	ND	16		µg/Kg	1	9/19/2013 03:55 AM
Surr: Decachlorobiphenyl	68.0	40-146		%REC	1	9/19/2013 03:55 AM
Surr: Tetrachloro-m-xylene	52.5	32-109		%REC	1	9/19/2013 03:55 AM
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471				**EPA 7471A**		
RunID: AA1_130918E	QC Batch: 43891			PrepDate:	9/17/2013	Analyst: **JT**
Mercury	0.22	0.10		mg/Kg	1	9/18/2013
ICP METALS						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130921A	QC Batch: 43923			PrepDate:	9/20/2013	Analyst: **JT**
Antimony	ND	2.0		mg/Kg	1	9/21/2013 06:24 PM
Arsenic	14	1.0		mg/Kg	1	9/21/2013 06:24 PM
Barium	160	1.0		mg/Kg	1	9/21/2013 06:24 PM
Beryllium	ND	1.0		mg/Kg	1	9/21/2013 06:24 PM
Cadmium	ND	1.0		mg/Kg	1	9/21/2013 06:24 PM
Chromium	29	1.0		mg/Kg	1	9/21/2013 06:24 PM
Cobalt	13	1.0		mg/Kg	1	9/21/2013 06:24 PM
Copper	29	2.0		mg/Kg	1	9/21/2013 06:24 PM
Lead	28	1.0		mg/Kg	1	9/21/2013 06:24 PM
Molybdenum	ND	1.0		mg/Kg	1	9/21/2013 06:24 PM
Nickel	24	1.0		mg/Kg	1	9/21/2013 06:24 PM
Selenium	2.8	1.0		mg/Kg	1	9/21/2013 06:24 PM
Silver	ND	1.0		mg/Kg	1	9/21/2013 06:24 PM
Thallium	ND	1.0		mg/Kg	1	9/21/2013 06:24 PM
Vanadium	40	1.0		mg/Kg	1	9/21/2013 06:24 PM
Zinc	98	1.0	B	mg/Kg	1	9/21/2013 06:24 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	C4-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:57:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-076		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/21/2013 05:38 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
Benzene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
Bromoform	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
Bromomethane	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
Chloroethane	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
Chloroform	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
Chloromethane	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	C4-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:57:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-076		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
m,p-Xylene	ND	10		µg/Kg	1	9/21/2013 05:38 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
MTBE	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
Naphthalene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
o-Xylene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
Styrene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
Toluene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/21/2013 05:38 PM
Surr: 1,2-Dichloroethane-d4	87.2	63-139		%REC	1	9/21/2013 05:38 PM
Surr: 4-Bromofluorobenzene	83.1	75-124		%REC	1	9/21/2013 05:38 PM
Surr: Dibromofluoromethane	88.2	70-133		%REC	1	9/21/2013 05:38 PM
Surr: Toluene-d8	87.6	80-123		%REC	1	9/21/2013 05:38 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130921A QC Batch: 43921 PrepDate: 9/20/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	61	5.0		mg/Kg	5	9/21/2013 12:14 PM
ORO	160	5.0		mg/Kg	5	9/21/2013 12:14 PM
Surr: p-Terphenyl	92.1	59-127		%REC	5	9/21/2013 12:14 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130920A QC Batch: E13VS098 PrepDate: Analyst: **PN**

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	C4-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:57:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-076		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B		
RunID: GC4_130920A	QC Batch: E13VS098			PrepDate:		Analyst: **PN**
GRO	ND	1.0		mg/Kg	1	9/20/2013 10:46 AM
Surr: Chlorobenzene - d5	79.9	51-136		%REC	1	9/20/2013 10:46 AM
LEAD BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43922			PrepDate:	9/20/2013	Analyst: **CEI**
Lead	13	5.0		mg/Kg	1	9/23/2013 10:43 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT: Geocon Consultants, Inc.
Client Sample ID: C4-6
Lab Order: N011009
Collection Date: 9/12/2013 11:59:00 AM
Project: 800 Cedar St, E8560-02-55
Matrix: SOIL
Lab ID: N011009-077

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/21/2013 03:10 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
Benzene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
Bromoform	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
Bromomethane	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
Chloroethane	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
Chloroform	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
Chloromethane	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	C4-6
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:59:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-077		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
m,p-Xylene	ND	10		µg/Kg	1	9/21/2013 03:10 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
MTBE	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
Naphthalene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
o-Xylene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
Styrene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
Toluene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/21/2013 03:10 PM
Surr: 1,2-Dichloroethane-d4	99.9	63-139		%REC	1	9/21/2013 03:10 PM
Surr: 4-Bromofluorobenzene	88.0	75-124		%REC	1	9/21/2013 03:10 PM
Surr: Dibromofluoromethane	99.0	70-133		%REC	1	9/21/2013 03:10 PM
Surr: Toluene-d8	91.1	80-123		%REC	1	9/21/2013 03:10 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130921A QC Batch: 43921 PrepDate: 9/20/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	15	5.0		mg/Kg	5	9/21/2013 12:40 PM
ORO	39	5.0		mg/Kg	5	9/21/2013 12:40 PM
Surr: p-Terphenyl	77.6	59-127		%REC	5	9/21/2013 12:40 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130920A QC Batch: E13VS098 PrepDate: Analyst: **PN**

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	C4-6
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:59:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-077		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B						
RunID: GC4_130920A QC Batch: E13VS098 PrepDate: Analyst: **PN**						
GRO	ND	1.0		mg/Kg	1	9/20/2013 11:15 AM
Surr: Chlorobenzene - d5	71.9	51-136		%REC	1	9/20/2013 11:15 AM
LEAD BY ICP						
EPA 3050B **EPA 6010B**						
RunID: ICP2_130923A QC Batch: 43922 PrepDate: 9/20/2013 Analyst: **CEI**						
Lead	43	5.0		mg/Kg	1	9/23/2013 11:06 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D5-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:24:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-078		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3550B				**EPA 8270CSIM**		
RunID: MS3_130921D	QC Batch: 43920			PrepDate: 9/20/2013		Analyst: **MDM**
2-Methylnaphthalene	ND	10		µg/Kg	2	9/21/2013 06:12 PM
Acenaphthene	ND	10		µg/Kg	2	9/21/2013 06:12 PM
Acenaphthylene	ND	10		µg/Kg	2	9/21/2013 06:12 PM
Anthracene	ND	10		µg/Kg	2	9/21/2013 06:12 PM
Benzo(a)anthracene	ND	100		µg/Kg	20	9/23/2013 12:37 PM
Benzo(a)pyrene	ND	100		µg/Kg	20	9/23/2013 12:37 PM
Benzo(b)fluoranthene	ND	100		µg/Kg	20	9/23/2013 12:37 PM
Benzo(g,h,i)perylene	ND	100		µg/Kg	20	9/23/2013 12:37 PM
Benzo(k)fluoranthene	ND	100		µg/Kg	20	9/23/2013 12:37 PM
Chrysene	ND	100		µg/Kg	20	9/23/2013 12:37 PM
Dibenz(a,h)anthracene	ND	100		µg/Kg	20	9/23/2013 12:37 PM
Fluoranthene	22	10		µg/Kg	2	9/21/2013 06:12 PM
Fluorene	ND	10		µg/Kg	2	9/21/2013 06:12 PM
Indeno(1,2,3-cd)pyrene	ND	100		µg/Kg	20	9/23/2013 12:37 PM
Naphthalene	ND	10		µg/Kg	2	9/21/2013 06:12 PM
Phenanthrene	13	10		µg/Kg	2	9/21/2013 06:12 PM
Pyrene	25	10		µg/Kg	2	9/21/2013 06:12 PM
Surr: 1,2-Dichlorobenzene-d4	48.0	14-120		%REC	2	9/21/2013 06:12 PM
Surr: 2-Fluorobiphenyl	54.1	28-130		%REC	2	9/21/2013 06:12 PM
Surr: 4-Terphenyl-d14	100	19-165		%REC	20	9/23/2013 12:37 PM
Surr: Nitrobenzene-d5	56.1	23-150		%REC	2	9/21/2013 06:12 PM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43922			PrepDate: 9/20/2013		Analyst: **CEI**
Lead	21	5.0		mg/Kg	1	9/23/2013 11:10 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D5-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:37:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-079		

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B **EPA 8270CSIM**

RunID: MS3_130921D QC Batch: 43920 PrepDate: 9/20/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2-Methylnaphthalene	ND	10		µg/Kg	2	9/21/2013 06:40 PM
Acenaphthene	ND	10		µg/Kg	2	9/21/2013 06:40 PM
Acenaphthylene	ND	10		µg/Kg	2	9/21/2013 06:40 PM
Anthracene	ND	10		µg/Kg	2	9/21/2013 06:40 PM
Benzo(a)anthracene	ND	100		µg/Kg	20	9/23/2013 01:04 PM
Benzo(a)pyrene	ND	100		µg/Kg	20	9/23/2013 01:04 PM
Benzo(b)fluoranthene	ND	100		µg/Kg	20	9/23/2013 01:04 PM
Benzo(g,h,i)perylene	ND	100		µg/Kg	20	9/23/2013 01:04 PM
Benzo(k)fluoranthene	ND	100		µg/Kg	20	9/23/2013 01:04 PM
Chrysene	ND	100		µg/Kg	20	9/23/2013 01:04 PM
Dibenz(a,h)anthracene	ND	100		µg/Kg	20	9/23/2013 01:04 PM
Fluoranthene	19	10		µg/Kg	2	9/21/2013 06:40 PM
Fluorene	ND	10		µg/Kg	2	9/21/2013 06:40 PM
Indeno(1,2,3-cd)pyrene	ND	100		µg/Kg	20	9/23/2013 01:04 PM
Naphthalene	ND	10		µg/Kg	2	9/21/2013 06:40 PM
Phenanthrene	ND	10		µg/Kg	2	9/21/2013 06:40 PM
Pyrene	22	10		µg/Kg	2	9/21/2013 06:40 PM
Surr: 1,2-Dichlorobenzene-d4	54.1	14-120		%REC	2	9/21/2013 06:40 PM
Surr: 2-Fluorobiphenyl	58.1	28-130		%REC	2	9/21/2013 06:40 PM
Surr: 4-Terphenyl-d14	100	19-165		%REC	20	9/23/2013 01:04 PM
Surr: Nitrobenzene-d5	60.1	23-150		%REC	2	9/21/2013 06:40 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/21/2013 11:17 AM

Qualifiers:

Code	Meaning	Code	Meaning
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D5-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:37:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-079		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
Benzene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
Bromobenzene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
Bromoform	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
Bromomethane	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
Chlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
Chloroethane	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
Chloroform	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
Chloromethane	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
Dibromochloromethane	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
Dibromomethane	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
Ethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
m,p-Xylene	ND	10		µg/Kg	1	9/21/2013 11:17 AM
Methylene chloride	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
MTBE	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
Naphthalene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D5-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:37:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-079		

Analyses	**Result**	**PQL**	**Qual**	**Units**	**DF**	**Date Analyzed**
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
			EPA 8260B			
RunID: MS6_130921A	QC Batch: Q13VS003			PrepDate:		Analyst: **QBM**
o-Xylene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
Styrene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
Toluene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
Trichloroethene	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
Vinyl chloride	ND	5.0		µg/Kg	1	9/21/2013 11:17 AM
Surr: 1,2-Dichloroethane-d4	96.6	63-139		%REC	1	9/21/2013 11:17 AM
Surr: 4-Bromofluorobenzene	85.9	75-124		%REC	1	9/21/2013 11:17 AM
Surr: Dibromofluoromethane	95.5	70-133		%REC	1	9/21/2013 11:17 AM
Surr: Toluene-d8	89.3	80-123		%REC	1	9/21/2013 11:17 AM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
	EPA 3550B		**EPA 8081A**			
RunID: GC7_130919B	QC Batch: 43900			PrepDate:	9/18/2013	Analyst: **MDM**
4,4´-DDD	2.7	2.0		µg/Kg	1	9/20/2013 06:05 AM
4,4´-DDE	ND	2.0		µg/Kg	1	9/20/2013 06:05 AM
4,4´-DDT	ND	2.0		µg/Kg	1	9/20/2013 06:05 AM
Aldrin	ND	1.0		µg/Kg	1	9/20/2013 06:05 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/20/2013 06:05 AM
alpha-Chlordane	ND	1.0		µg/Kg	1	9/20/2013 06:05 AM
beta-BHC	ND	1.0		µg/Kg	1	9/20/2013 06:05 AM
Chlordane	ND	8.5		µg/Kg	1	9/20/2013 06:05 AM
delta-BHC	ND	1.0		µg/Kg	1	9/20/2013 06:05 AM
Dieldrin	ND	2.0		µg/Kg	1	9/20/2013 06:05 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/20/2013 06:05 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/20/2013 06:05 AM
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/20/2013 06:05 AM
Endrin	ND	2.0		µg/Kg	1	9/20/2013 06:05 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/20/2013 06:05 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/20/2013 06:05 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/20/2013 06:05 AM
gamma-Chlordane	ND	1.0		µg/Kg	1	9/20/2013 06:05 AM
Heptachlor	ND	1.0		µg/Kg	1	9/20/2013 06:05 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D5-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:37:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-079		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD						
EPA 3550B				**EPA 8081A**		
RunID: GC7_130919B	QC Batch: 43900			PrepDate:	9/18/2013	Analyst: **MDM**
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/20/2013 06:05 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/20/2013 06:05 AM
Toxaphene	ND	85		µg/Kg	1	9/20/2013 06:05 AM
Surr: Tetrachloro-m-xylene	53.1	28-161		%REC	1	9/20/2013 06:05 AM
Surr: Decachlorobiphenyl	55.7	28-120		%REC	1	9/20/2013 06:05 AM
PCBS BY GC/ECD						
EPA 3550B				**EPA 8082**		
RunID: GC7_130918A	QC Batch: 43900			PrepDate:	9/18/2013	Analyst: **MDM**
Aroclor 1016	ND	17		µg/Kg	1	9/19/2013 04:25 AM
Aroclor 1221	ND	33		µg/Kg	1	9/19/2013 04:25 AM
Aroclor 1232	ND	17		µg/Kg	1	9/19/2013 04:25 AM
Aroclor 1242	ND	17		µg/Kg	1	9/19/2013 04:25 AM
Aroclor 1248	ND	17		µg/Kg	1	9/19/2013 04:25 AM
Aroclor 1254	ND	17		µg/Kg	1	9/19/2013 04:25 AM
Aroclor 1260	ND	17		µg/Kg	1	9/19/2013 04:25 AM
Surr: Decachlorobiphenyl	74.9	40-146		%REC	1	9/19/2013 04:25 AM
Surr: Tetrachloro-m-xylene	63.4	32-109		%REC	1	9/19/2013 04:25 AM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B		
RunID: GC4_130919A	QC Batch: E13VS097			PrepDate:		Analyst: **PN**
GRO	ND	1.0		mg/Kg	1	9/19/2013 10:13 AM
Surr: Chlorobenzene - d5	99.9	51-136		%REC	1	9/19/2013 10:13 AM
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471				**EPA 7471A**		
RunID: AA1_130918E	QC Batch: 43891			PrepDate:	9/17/2013	Analyst: **JT**
Mercury	0.54	0.099		mg/Kg	1	9/18/2013
ICP METALS						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130921A	QC Batch: 43923			PrepDate:	9/20/2013	Analyst: **JT**
Antimony	ND	2.0		mg/Kg	1	9/21/2013 06:43 PM
Arsenic	6.5	1.0		mg/Kg	1	9/21/2013 06:43 PM
Barium	130	1.0		mg/Kg	1	9/21/2013 06:43 PM
Beryllium	ND	1.0		mg/Kg	1	9/21/2013 06:43 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D5-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:37:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-079		

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130921A QC Batch: 43923 PrepDate: 9/20/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Cadmium	ND	1.0		mg/Kg	1	9/21/2013 06:43 PM
Chromium	36	1.0		mg/Kg	1	9/21/2013 06:43 PM
Cobalt	9.4	1.0		mg/Kg	1	9/21/2013 06:43 PM
Copper	40	2.0		mg/Kg	1	9/21/2013 06:43 PM
Lead	24	1.0		mg/Kg	1	9/21/2013 06:43 PM
Molybdenum	ND	1.0		mg/Kg	1	9/21/2013 06:43 PM
Nickel	40	1.0		mg/Kg	1	9/21/2013 06:43 PM
Selenium	1.5	1.0		mg/Kg	1	9/21/2013 06:43 PM
Silver	ND	1.0		mg/Kg	1	9/21/2013 06:43 PM
Thallium	ND	1.0		mg/Kg	1	9/21/2013 06:43 PM
Vanadium	34	1.0		mg/Kg	1	9/21/2013 06:43 PM
Zinc	67	1.0	B	mg/Kg	1	9/21/2013 06:43 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D6-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:59:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-080		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B**		
RunID: GC1_130921A	QC Batch: 43921			PrepDate:	9/20/2013	Analyst: **MDM**
DRO	84	5.0		mg/Kg	5	9/21/2013 01:05 PM
ORO	200	5.0		mg/Kg	5	9/21/2013 01:05 PM
Surr: p-Terphenyl	81.3	59-127		%REC	5	9/21/2013 01:05 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
	EPA 3550B			**EPA 8081A**		
RunID: GC7_130919B	QC Batch: 43900			PrepDate:	9/18/2013	Analyst: **MDM**
4,4´-DDD	ND	2.0		µg/Kg	1	9/20/2013 06:31 AM
4,4´-DDE	ND	2.0		µg/Kg	1	9/20/2013 06:31 AM
4,4´-DDT	ND	2.0		µg/Kg	1	9/20/2013 06:31 AM
Aldrin	ND	1.0		µg/Kg	1	9/20/2013 06:31 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/20/2013 06:31 AM
alpha-Chlordane	ND	1.0		µg/Kg	1	9/20/2013 06:31 AM
beta-BHC	ND	1.0		µg/Kg	1	9/20/2013 06:31 AM
Chlordane	ND	8.5		µg/Kg	1	9/20/2013 06:31 AM
delta-BHC	ND	1.0		µg/Kg	1	9/20/2013 06:31 AM
Dieldrin	ND	2.0		µg/Kg	1	9/20/2013 06:31 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/20/2013 06:31 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/20/2013 06:31 AM
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/20/2013 06:31 AM
Endrin	ND	2.0		µg/Kg	1	9/20/2013 06:31 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/20/2013 06:31 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/20/2013 06:31 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/20/2013 06:31 AM
gamma-Chlordane	ND	1.0		µg/Kg	1	9/20/2013 06:31 AM
Heptachlor	ND	1.0		µg/Kg	1	9/20/2013 06:31 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/20/2013 06:31 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/20/2013 06:31 AM
Toxaphene	ND	85		µg/Kg	1	9/20/2013 06:31 AM
Surr: Tetrachloro-m-xylene	47.7	28-161		%REC	1	9/20/2013 06:31 AM
Surr: Decachlorobiphenyl	54.5	28-120		%REC	1	9/20/2013 06:31 AM
PCBS BY GC/ECD						
	EPA 3550B			**EPA 8082**		
RunID: GC7_130918A	QC Batch: 43900			PrepDate:	9/18/2013	Analyst: **MDM**
Aroclor 1016	ND	16		µg/Kg	1	9/19/2013 04:54 AM
Aroclor 1221	ND	33		µg/Kg	1	9/19/2013 04:54 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D6-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:59:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-080		

PCBS BY GC/ECD

EPA 3550B **EPA 8082**

RunID: GC7_130918A QC Batch: 43900 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Aroclor 1232	ND	16		µg/Kg	1	9/19/2013 04:54 AM
Aroclor 1242	ND	16		µg/Kg	1	9/19/2013 04:54 AM
Aroclor 1248	ND	16		µg/Kg	1	9/19/2013 04:54 AM
Aroclor 1254	ND	16		µg/Kg	1	9/19/2013 04:54 AM
Aroclor 1260	ND	16		µg/Kg	1	9/19/2013 04:54 AM
Surr: Decachlorobiphenyl	77.3	40-146		%REC	1	9/19/2013 04:54 AM
Surr: Tetrachloro-m-xylene	90.0	32-109		%REC	1	9/19/2013 04:54 AM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43892 PrepDate: 9/17/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	0.30	0.10		mg/Kg	1	9/18/2013

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130921A QC Batch: 43923 PrepDate: 9/20/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/21/2013 06:51 PM
Arsenic	9.8	1.0		mg/Kg	1	9/21/2013 06:51 PM
Barium	120	1.0		mg/Kg	1	9/21/2013 06:51 PM
Beryllium	ND	1.0		mg/Kg	1	9/21/2013 06:51 PM
Cadmium	ND	1.0		mg/Kg	1	9/21/2013 06:51 PM
Chromium	27	1.0		mg/Kg	1	9/21/2013 06:51 PM
Cobalt	9.1	1.0		mg/Kg	1	9/21/2013 06:51 PM
Copper	32	2.0		mg/Kg	1	9/21/2013 06:51 PM
Lead	45	1.0		mg/Kg	1	9/21/2013 06:51 PM
Molybdenum	ND	1.0		mg/Kg	1	9/21/2013 06:51 PM
Nickel	23	1.0		mg/Kg	1	9/21/2013 06:51 PM
Selenium	2.0	1.0		mg/Kg	1	9/21/2013 06:51 PM
Silver	ND	1.0		mg/Kg	1	9/21/2013 06:51 PM
Thallium	ND	1.0		mg/Kg	1	9/21/2013 06:51 PM
Vanadium	35	1.0		mg/Kg	1	9/21/2013 06:51 PM
Zinc	92	1.0	B	mg/Kg	1	9/21/2013 06:51 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D6-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:11:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-081		

HEXAVALENT CHROMIUM

EPA 3060A **EPA 7196A**

RunID: WETCHEM_130920D QC Batch: 43908 PrepDate: 9/19/2013 Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chromium, Hexavalent	ND	1.0		mg/Kg	1	9/20/2013

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130921A QC Batch: 43921 PrepDate: 9/20/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	78	5.0		mg/Kg	5	9/21/2013 01:31 PM
ORO	170	5.0		mg/Kg	5	9/21/2013 01:31 PM
Surr: p-Terphenyl	79.8	59-127		%REC	5	9/21/2013 01:31 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43892 PrepDate: 9/17/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	0.090	0.010		mg/Kg	1	9/18/2013

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130921A QC Batch: 43923 PrepDate: 9/20/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/21/2013 06:58 PM
Arsenic	9.9	1.0		mg/Kg	1	9/21/2013 06:58 PM
Barium	150	1.0		mg/Kg	1	9/21/2013 06:58 PM
Beryllium	ND	1.0		mg/Kg	1	9/21/2013 06:58 PM
Cadmium	ND	1.0		mg/Kg	1	9/21/2013 06:58 PM
Chromium	30	1.0		mg/Kg	1	9/21/2013 06:58 PM
Cobalt	9.4	1.0		mg/Kg	1	9/21/2013 06:58 PM
Copper	46	2.0		mg/Kg	1	9/21/2013 06:58 PM
Lead	110	1.0		mg/Kg	1	9/21/2013 06:58 PM
Molybdenum	ND	1.0		mg/Kg	1	9/21/2013 06:58 PM
Nickel	28	1.0		mg/Kg	1	9/21/2013 06:58 PM
Selenium	1.7	1.0		mg/Kg	1	9/21/2013 06:58 PM
Silver	ND	1.0		mg/Kg	1	9/21/2013 06:58 PM
Thallium	ND	1.0		mg/Kg	1	9/21/2013 06:58 PM
Vanadium	36	1.0		mg/Kg	1	9/21/2013 06:58 PM
Zinc	160	1.0	B	mg/Kg	1	9/21/2013 06:58 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D7-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:31:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-082		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3550B				**EPA 8270CSIM**		
RunID: MS3_130921D	QC Batch: 43920			PrepDate:	9/20/2013	Analyst: **MDM**
2-Methylnaphthalene	ND	10		µg/Kg	2	9/21/2013 07:08 PM
Acenaphthene	ND	10		µg/Kg	2	9/21/2013 07:08 PM
Acenaphthylene	ND	10		µg/Kg	2	9/21/2013 07:08 PM
Anthracene	ND	10		µg/Kg	2	9/21/2013 07:08 PM
Benzo(a)anthracene	13	10		µg/Kg	2	9/21/2013 07:08 PM
Benzo(a)pyrene	ND	50		µg/Kg	10	9/23/2013 01:32 PM
Benzo(b)fluoranthene	ND	50		µg/Kg	10	9/23/2013 01:32 PM
Benzo(g,h,i)perylene	ND	50		µg/Kg	10	9/23/2013 01:32 PM
Benzo(k)fluoranthene	ND	50		µg/Kg	10	9/23/2013 01:32 PM
Chrysene	14	10		µg/Kg	2	9/21/2013 07:08 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/23/2013 01:32 PM
Fluoranthene	23	10		µg/Kg	2	9/21/2013 07:08 PM
Fluorene	ND	10		µg/Kg	2	9/21/2013 07:08 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/Kg	10	9/23/2013 01:32 PM
Naphthalene	ND	10		µg/Kg	2	9/21/2013 07:08 PM
Phenanthrene	19	10		µg/Kg	2	9/21/2013 07:08 PM
Pyrene	24	10		µg/Kg	2	9/21/2013 07:08 PM
Surr: 1,2-Dichlorobenzene-d4	42.0	14-120		%REC	2	9/21/2013 07:08 PM
Surr: 2-Fluorobiphenyl	42.0	28-130		%REC	2	9/21/2013 07:08 PM
Surr: 4-Terphenyl-d14	120	19-165		%REC	2	9/21/2013 07:08 PM
Surr: Nitrobenzene-d5	48.0	23-150		%REC	2	9/21/2013 07:08 PM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43922			PrepDate:	9/20/2013	Analyst: **CEI**
Lead	47	5.0		mg/Kg	1	9/23/2013 11:19 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Geocon Consultants, Inc.
Lab Order: N011009
Project: 800 Cedar St, E8560-02-55
Lab ID: N011009-083

Client Sample ID: D7-3
Collection Date: 9/12/2013 10:44:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3550B				**EPA 8270CSIM**		
RunID: MS3_130921D	QC Batch: 43920			PrepDate: 9/20/2013		Analyst: **MDM**
2-Methylnaphthalene	ND	10		µg/Kg	2	9/21/2013 07:35 PM
Acenaphthene	ND	10		µg/Kg	2	9/21/2013 07:35 PM
Acenaphthylene	ND	10		µg/Kg	2	9/21/2013 07:35 PM
Anthracene	ND	10		µg/Kg	2	9/21/2013 07:35 PM
Benzo(a)anthracene	ND	50		µg/Kg	10	9/23/2013 02:00 PM
Benzo(a)pyrene	ND	50		µg/Kg	10	9/23/2013 02:00 PM
Benzo(b)fluoranthene	ND	50		µg/Kg	10	9/23/2013 02:00 PM
Benzo(g,h,i)perylene	ND	50		µg/Kg	10	9/23/2013 02:00 PM
Benzo(k)fluoranthene	ND	50		µg/Kg	10	9/23/2013 02:00 PM
Chrysene	ND	50		µg/Kg	10	9/23/2013 02:00 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	9/23/2013 02:00 PM
Fluoranthene	49	10		µg/Kg	2	9/21/2013 07:35 PM
Fluorene	ND	10		µg/Kg	2	9/21/2013 07:35 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/Kg	10	9/23/2013 02:00 PM
Naphthalene	ND	10		µg/Kg	2	9/21/2013 07:35 PM
Phenanthrene	15	10		µg/Kg	2	9/21/2013 07:35 PM
Pyrene	51	10		µg/Kg	2	9/21/2013 07:35 PM
Surr: 1,2-Dichlorobenzene-d4	50.1	14-120		%REC	2	9/21/2013 07:35 PM
Surr: 2-Fluorobiphenyl	50.1	28-130		%REC	2	9/21/2013 07:35 PM
Surr: 4-Terphenyl-d14	80.1	19-165		%REC	10	9/23/2013 02:00 PM
Surr: Nitrobenzene-d5	52.1	23-150		%REC	2	9/21/2013 07:35 PM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43922			PrepDate: 9/20/2013		Analyst: **CEI**
Lead	38	5.0		mg/Kg	1	9/23/2013 11:28 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D8-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:41:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-084		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC1_130921A	QC Batch: 43921			PrepDate: 9/20/2013		Analyst: **MDM**
DRO	13	5.0		mg/Kg	5	9/21/2013 01:56 PM
ORO	33	5.0		mg/Kg	5	9/21/2013 01:56 PM
Surr: p-Terphenyl	76.8	59-127		%REC	5	9/21/2013 01:56 PM
LEAD BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_130923A	QC Batch: 43922			PrepDate: 9/20/2013		Analyst: **CEI**
Lead	28	5.0		mg/Kg	1	9/23/2013 11:32 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D8-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:01:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-085		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	9/21/2013 03:32 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
Benzene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
Bromobenzene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
Bromoform	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
Bromomethane	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
Chlorobenzene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
Chloroethane	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
Chloroform	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
Chloromethane	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D8-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:01:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-085		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS6_130921A QC Batch: Q13VS003 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
Dibromomethane	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
Ethylbenzene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
m,p-Xylene	ND	10		µg/Kg	1	9/21/2013 03:32 PM
Methylene chloride	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
MTBE	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
Naphthalene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
o-Xylene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
Styrene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
Toluene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
Trichloroethene	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
Vinyl chloride	ND	5.0		µg/Kg	1	9/21/2013 03:32 PM
Surr: 1,2-Dichloroethane-d4	105	63-139		%REC	1	9/21/2013 03:32 PM
Surr: 4-Bromofluorobenzene	82.8	75-124		%REC	1	9/21/2013 03:32 PM
Surr: Dibromofluoromethane	101	70-133		%REC	1	9/21/2013 03:32 PM
Surr: Toluene-d8	88.0	80-123		%REC	1	9/21/2013 03:32 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130921A QC Batch: 43921 PrepDate: 9/20/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	15	5.0		mg/Kg	5	9/21/2013 02:22 PM
ORO	38	5.0		mg/Kg	5	9/21/2013 02:22 PM
Surr: p-Terphenyl	77.7	59-127		%REC	5	9/21/2013 02:22 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130920A QC Batch: E13VS098 PrepDate: Analyst: **PN**

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D8-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:01:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-085		

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_130920A QC Batch: E13VS098 PrepDate: Analyst: **PN**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GRO	ND	1.0		mg/Kg	1	9/20/2013 10:18 AM
Surr: Chlorobenzene - d5	87.1	51-136		%REC	1	9/20/2013 10:18 AM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43892 PrepDate: 9/17/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	ND	0.10		mg/Kg	1	9/18/2013

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130921A QC Batch: 43923 PrepDate: 9/20/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/21/2013 07:06 PM
Arsenic	3.6	1.0		mg/Kg	1	9/21/2013 07:06 PM
Barium	150	1.0		mg/Kg	1	9/21/2013 07:06 PM
Beryllium	ND	1.0		mg/Kg	1	9/21/2013 07:06 PM
Cadmium	ND	1.0		mg/Kg	1	9/21/2013 07:06 PM
Chromium	27	1.0		mg/Kg	1	9/21/2013 07:06 PM
Cobalt	9.9	1.0		mg/Kg	1	9/21/2013 07:06 PM
Copper	17	2.0		mg/Kg	1	9/21/2013 07:06 PM
Lead	29	1.0		mg/Kg	1	9/21/2013 07:06 PM
Molybdenum	ND	1.0		mg/Kg	1	9/21/2013 07:06 PM
Nickel	25	1.0		mg/Kg	1	9/21/2013 07:06 PM
Selenium	ND	1.0		mg/Kg	1	9/21/2013 07:06 PM
Silver	ND	1.0		mg/Kg	1	9/21/2013 07:06 PM
Thallium	ND	1.0		mg/Kg	1	9/21/2013 07:06 PM
Vanadium	31	1.0		mg/Kg	1	9/21/2013 07:06 PM
Zinc	48	1.0	B	mg/Kg	1	9/21/2013 07:06 PM

Qualifiers:

Code	Meaning	Code	Meaning
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E4-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:41:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-086		

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130921A QC Batch: 43921 PrepDate: 9/20/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	49	5.0		mg/Kg	5	9/21/2013 02:48 PM
ORO	130	5.0		mg/Kg	5	9/21/2013 02:48 PM
Surr: p-Terphenyl	72.4	59-127		%REC	5	9/21/2013 02:48 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_130918E QC Batch: 43892 PrepDate: 9/17/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	0.45	0.10		mg/Kg	1	9/18/2013

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_130921A QC Batch: 43923 PrepDate: 9/20/2013 Analyst: **JT**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	9/21/2013 07:20 PM
Arsenic	8.5	1.0		mg/Kg	1	9/21/2013 07:20 PM
Barium	150	1.0		mg/Kg	1	9/21/2013 07:20 PM
Beryllium	ND	1.0		mg/Kg	1	9/21/2013 07:20 PM
Cadmium	ND	1.0		mg/Kg	1	9/21/2013 07:20 PM
Chromium	39	1.0		mg/Kg	1	9/21/2013 07:20 PM
Cobalt	11	1.0		mg/Kg	1	9/21/2013 07:20 PM
Copper	64	2.0		mg/Kg	1	9/21/2013 07:20 PM
Lead	1900	1.0		mg/Kg	1	9/21/2013 07:20 PM
Molybdenum	ND	1.0		mg/Kg	1	9/21/2013 07:20 PM
Nickel	43	1.0		mg/Kg	1	9/21/2013 07:20 PM
Selenium	1.6	1.0		mg/Kg	1	9/21/2013 07:20 PM
Silver	ND	1.0		mg/Kg	1	9/21/2013 07:20 PM
Thallium	ND	1.0		mg/Kg	1	9/21/2013 07:20 PM
Vanadium	30	1.0		mg/Kg	1	9/21/2013 07:20 PM
Zinc	130	1.0	B	mg/Kg	1	9/21/2013 07:20 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E4-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:47:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-087		

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130921A QC Batch: 43921 PrepDate: 9/20/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	100	5.0		mg/Kg	5	9/21/2013 03:13 PM
ORO	250	5.0		mg/Kg	5	9/21/2013 03:13 PM
Surr: p-Terphenyl	60.8	59-127		%REC	5	9/21/2013 03:13 PM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130923A QC Batch: 43922 PrepDate: 9/20/2013 Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	99	5.0		mg/Kg	1	9/23/2013 11:36 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E4-6
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:54:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-088		

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B **EPA 8015B**

RunID: GC1_130921A QC Batch: 43921 PrepDate: 9/20/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRO	89	5.0		mg/Kg	5	9/21/2013 04:04 PM
ORO	230	5.0		mg/Kg	5	9/21/2013 04:04 PM
Surr: p-Terphenyl	72.8	59-127		%REC	5	9/21/2013 04:04 PM

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B **EPA 8081A**

RunID: GC7_130919B QC Batch: 43900 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
4,4´-DDD	ND	2.0		µg/Kg	1	9/20/2013 06:57 AM
4,4´-DDE	ND	2.0		µg/Kg	1	9/20/2013 06:57 AM
4,4´-DDT	ND	2.0		µg/Kg	1	9/20/2013 06:57 AM
Aldrin	ND	1.0		µg/Kg	1	9/20/2013 06:57 AM
alpha-BHC	ND	1.0		µg/Kg	1	9/20/2013 06:57 AM
alpha-Chlordane	1.6	1.0		µg/Kg	1	9/20/2013 06:57 AM
beta-BHC	ND	1.0		µg/Kg	1	9/20/2013 06:57 AM
Chlordane	ND	8.5		µg/Kg	1	9/20/2013 06:57 AM
delta-BHC	ND	1.0		µg/Kg	1	9/20/2013 06:57 AM
Dieldrin	4.0	2.0		µg/Kg	1	9/20/2013 06:57 AM
Endosulfan I	ND	1.0		µg/Kg	1	9/20/2013 06:57 AM
Endosulfan II	ND	2.0		µg/Kg	1	9/20/2013 06:57 AM
Endosulfan sulfate	ND	2.0		µg/Kg	1	9/20/2013 06:57 AM
Endrin	ND	2.0		µg/Kg	1	9/20/2013 06:57 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	9/20/2013 06:57 AM
Endrin ketone	ND	2.0		µg/Kg	1	9/20/2013 06:57 AM
gamma-BHC	ND	1.0		µg/Kg	1	9/20/2013 06:57 AM
gamma-Chlordane	2.9	1.0		µg/Kg	1	9/20/2013 06:57 AM
Heptachlor	ND	1.0		µg/Kg	1	9/20/2013 06:57 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	9/20/2013 06:57 AM
Methoxychlor	ND	8.5		µg/Kg	1	9/20/2013 06:57 AM
Toxaphene	ND	85		µg/Kg	1	9/20/2013 06:57 AM
Surr: Tetrachloro-m-xylene	58.4	28-161		%REC	1	9/20/2013 06:57 AM
Surr: Decachlorobiphenyl	48.1	28-120		%REC	1	9/20/2013 06:57 AM

PCBS BY GC/ECD

EPA 3550B **EPA 8082**

RunID: GC7_130918A QC Batch: 43900 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Aroclor 1016	ND	17		µg/Kg	1	9/19/2013 05:24 AM
Aroclor 1221	ND	33		µg/Kg	1	9/19/2013 05:24 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *25-Sep-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E4-6
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:54:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-088		

PCBS BY GC/ECD

EPA 3550B **EPA 8082**

RunID: GC7_130918A QC Batch: 43900 PrepDate: 9/18/2013 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Aroclor 1232	ND	17		µg/Kg	1	9/19/2013 05:24 AM
Aroclor 1242	ND	17		µg/Kg	1	9/19/2013 05:24 AM
Aroclor 1248	ND	17		µg/Kg	1	9/19/2013 05:24 AM
Aroclor 1254	99	17		µg/Kg	1	9/19/2013 05:24 AM
Aroclor 1260	ND	17		µg/Kg	1	9/19/2013 05:24 AM
Surr: Decachlorobiphenyl	69.4	40-146		%REC	1	9/19/2013 05:24 AM
Surr: Tetrachloro-m-xylene	67.2	32-109		%REC	1	9/19/2013 05:24 AM

LEAD BY ICP

EPA 3050B **EPA 6010B**

RunID: ICP2_130923A QC Batch: 43922 PrepDate: 9/20/2013 Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	96	5.0		mg/Kg	1	9/23/2013 11:42 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB-43913** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90396**
Client ID: **PBS** Batch ID: **43913** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/20/2013** SeqNo: **1648793**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0									
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	0.271	1.0									
Cobalt	ND	1.0									
Copper	0.163	2.0									
Lead	ND	1.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	0.209	1.0									

Sample ID: **MB2-43913** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90396**
Client ID: **PBS** Batch ID: **43913** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/20/2013** SeqNo: **1648794**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0									
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	0.260	1.0									
Cobalt	ND	1.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB2-43913** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90396**
Client ID: **PBS** Batch ID: **43913** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/20/2013** SeqNo: **1648794**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	ND	2.0									
Lead	ND	1.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	0.190	1.0									

Sample ID: **LCS-43913** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90396**
Client ID: **LCSS** Batch ID: **43913** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/20/2013** SeqNo: **1648795**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	22.954	2.0	25.00	0	91.8	80	120				
Arsenic	22.704	1.0	25.00	0	90.8	80	120				
Barium	23.644	1.0	25.00	0	94.6	80	120				
Beryllium	23.122	1.0	25.00	0	92.5	80	120				
Cadmium	22.724	1.0	25.00	0	90.9	80	120				
Chromium	23.814	1.0	25.00	0	95.3	80	120				
Cobalt	23.156	1.0	25.00	0	92.6	80	120				
Copper	23.444	2.0	25.00	0	93.8	80	120				
Lead	23.168	1.0	25.00	0	92.7	80	120				
Molybdenum	23.242	1.0	25.00	0	93.0	80	120				
Nickel	23.930	1.0	25.00	0	95.7	80	120				
Selenium	20.239	1.0	25.00	0	81.0	80	120				
Silver	22.283	1.0	25.00	0	89.1	80	120				
Thallium	22.800	1.0	25.00	0	91.2	80	120				
Vanadium	23.679	1.0	25.00	0	94.7	80	120				
Zinc	23.476	1.0	25.00	0	93.9	80	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **N011009-001A-MS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90396**
Client ID: **ZZZZZZ** Batch ID: **43913** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/20/2013** SeqNo: **1648799**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	7.832	2.0	24.98	0	31.4	75	125				S
Arsenic	26.648	1.0	24.98	4.877	87.2	75	125				
Barium	151.951	1.0	24.98	101.9	200	75	125				S
Beryllium	20.957	1.0	24.98	0.1547	83.3	75	125				
Cadmium	18.684	1.0	24.98	0	74.8	75	125				S
Chromium	60.014	1.0	24.98	36.09	95.8	75	125				
Cobalt	31.158	1.0	24.98	9.151	88.1	75	125				
Copper	58.420	2.0	24.98	30.51	112	75	125				
Lead	79.660	1.0	24.98	57.62	88.2	75	125				
Molybdenum	19.115	1.0	24.98	0	76.5	75	125				
Nickel	51.824	1.0	24.98	31.84	80.0	75	125				
Selenium	19.416	1.0	24.98	1.236	72.8	75	125				S
Silver	18.466	1.0	24.98	0	73.9	75	125				S
Thallium	16.853	1.0	24.98	0	67.5	75	125				S
Vanadium	66.392	1.0	24.98	32.88	134	75	125				S
Zinc	112.854	1.0	24.98	87.26	102	75	125				

Sample ID: **N011009-001A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90396**
Client ID: **ZZZZZZ** Batch ID: **43913** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/20/2013** SeqNo: **1648800**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	8.392	2.0	24.88	0	33.7	75	125	7.832	6.90	20	S
Arsenic	25.683	1.0	24.88	4.877	83.6	75	125	26.65	3.69	20	
Barium	110.553	1.0	24.88	101.9	34.8	75	125	152.0	31.5	20	SR
Beryllium	20.937	1.0	24.88	0.1547	83.5	75	125	20.96	0.0949	20	
Cadmium	19.167	1.0	24.88	0	77.1	75	125	18.68	2.55	20	
Chromium	54.069	1.0	24.88	36.09	72.3	75	125	60.01	10.4	20	S
Cobalt	29.097	1.0	24.88	9.151	80.2	75	125	31.16	6.84	20	
Copper	55.776	2.0	24.88	30.51	102	75	125	58.42	4.63	20	
Lead	69.071	1.0	24.88	57.62	46.0	75	125	79.66	14.2	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **N011009-001A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90396**
Client ID: **ZZZZZZ** Batch ID: **43913** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/20/2013** SeqNo: **1648800**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	19.091	1.0	24.88	0	76.7	75	125	19.12	0.126	20	
Nickel	50.734	1.0	24.88	31.84	75.9	75	125	51.82	2.13	20	
Selenium	18.573	1.0	24.88	1.236	69.7	75	125	19.42	4.44	20	S
Silver	18.534	1.0	24.88	0	74.5	75	125	18.47	0.370	20	S
Thallium	16.739	1.0	24.88	0	67.3	75	125	16.85	0.679	20	S
Vanadium	59.360	1.0	24.88	32.88	106	75	125	66.39	11.2	20	
Zinc	101.966	1.0	24.88	87.26	59.1	75	125	112.9	10.1	20	S

Sample ID: **N011009-002A-DUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90396**
Client ID: **ZZZZZZ** Batch ID: **43913** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/20/2013** SeqNo: **1648802**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0						0	0	20	
Arsenic	3.966	1.0						6.522	48.7	20	R
Barium	108.451	1.0						112.6	3.72	20	
Beryllium	0.168	1.0						0.1910	0	20	
Cadmium	ND	1.0						0	0	20	
Chromium	29.885	1.0						33.48	11.4	20	
Cobalt	11.254	1.0						9.666	15.2	20	
Copper	130.330	2.0						20.85	145	20	R
Lead	23.460	1.0						21.29	9.70	20	
Molybdenum	ND	1.0						0	0	20	
Nickel	34.398	1.0						41.86	19.6	20	
Selenium	1.282	1.0						0.9430	30.4	20	R
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	34.310	1.0						34.66	1.00	20	
Zinc	40.148	1.0						43.48	7.96	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **N011009-023A-MS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90396**
Client ID: **ZZZZZZ** Batch ID: **43913** TestNo: **EPA 6010B EPA 3050B** Analysis Date: **9/20/2013** SeqNo: **1648814**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	8.107	2.0	24.99	0	32.4	75	125				S
Arsenic	27.510	1.0	24.99	8.924	74.4	75	125				S
Barium	119.171	1.0	24.99	91.97	109	75	125				
Beryllium	19.700	1.0	24.99	0.1759	78.1	75	125				
Cadmium	18.730	1.0	24.99	0	75.0	75	125				S
Chromium	49.423	1.0	24.99	23.72	103	75	125				
Cobalt	28.169	1.0	24.99	7.564	82.5	75	125				
Copper	49.705	2.0	24.99	21.23	114	75	125				
Lead	31.270	1.0	24.99	12.75	74.1	75	125				S
Molybdenum	19.221	1.0	24.99	0	76.9	75	125				
Nickel	40.853	1.0	24.99	18.71	88.6	75	125				
Selenium	18.852	1.0	24.99	1.856	68.0	75	125				S
Silver	16.780	1.0	24.99	0	67.2	75	125				S
Thallium	15.839	1.0	24.99	0	63.4	75	125				S
Vanadium	56.821	1.0	24.99	31.61	101	75	125				
Zinc	98.916	1.0	24.99	82.16	67.1	75	125				S

Sample ID: **N011009-028A-DUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90396**
Client ID: **ZZZZZZ** Batch ID: **43913** TestNo: **EPA 6010B EPA 3050B** Analysis Date: **9/20/2013** SeqNo: **1648821**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0						0	0	20	
Arsenic	3.317	1.0						3.320	0.0976	20	
Barium	139.723	1.0						129.8	7.39	20	
Beryllium	0.306	1.0						0.3032	0	20	
Cadmium	ND	1.0						0	0	20	
Chromium	29.112	1.0						28.19	3.22	20	
Cobalt	8.321	1.0						8.345	0.283	20	
Copper	18.731	2.0						17.40	7.34	20	
Lead	33.004	1.0						29.76	10.3	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **N011009-028A-DUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90396**

Client ID: **ZZZZZZ** Batch ID: **43913** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/20/2013** SeqNo: **1648821**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	ND	1.0						0.2419	0	20	
Nickel	25.719	1.0						23.50	9.01	20	
Selenium	1.020	1.0						1.141	11.2	20	
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	31.265	1.0						31.89	1.99	20	
Zinc	52.444	1.0						60.09	13.6	20	

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB-43923** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90388**
Client ID: **PBS** Batch ID: **43923** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/21/2013** SeqNo: **1648409**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.494	2.0									
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	0.228	1.0									
Chromium	0.180	1.0									
Cobalt	ND	1.0									
Copper	1.467	2.0									
Lead	0.595	1.0									
Molybdenum	0.429	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	0.184	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	2.551	1.0									

Sample ID: **MB2-43923** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90388**
Client ID: **PBS** Batch ID: **43923** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/21/2013** SeqNo: **1648410**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.270	2.0									
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	0.166	1.0									
Cobalt	ND	1.0									
Copper	0.681	2.0									
Lead	0.302	1.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB2-43923** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90388**
Client ID: **PBS** Batch ID: **43923** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/21/2013** SeqNo: **1648410**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	1.519	1.0									

Sample ID: **LCS-43923** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90388**
Client ID: **LCSS** Batch ID: **43923** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/21/2013** SeqNo: **1648411**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	24.955	2.0	25.00	0	99.8	80	120				
Arsenic	23.999	1.0	25.00	0	96.0	80	120				
Barium	24.874	1.0	25.00	0	99.5	80	120				
Beryllium	23.656	1.0	25.00	0	94.6	80	120				
Cadmium	23.915	1.0	25.00	0	95.7	80	120				
Chromium	25.116	1.0	25.00	0	100	80	120				
Cobalt	24.152	1.0	25.00	0	96.6	80	120				
Copper	25.475	2.0	25.00	0	102	80	120				
Lead	24.558	1.0	25.00	0	98.2	80	120				
Molybdenum	24.268	1.0	25.00	0	97.1	80	120				
Nickel	24.771	1.0	25.00	0	99.1	80	120				
Selenium	20.801	1.0	25.00	0	83.2	80	120				
Silver	23.949	1.0	25.00	0	95.8	80	120				
Thallium	23.819	1.0	25.00	0	95.3	80	120				
Vanadium	25.002	1.0	25.00	0	100	80	120				
Zinc	24.427	1.0	25.00	0	97.7	80	120				B

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **N011009-049A-MS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90388**
Client ID: **ZZZZZZ** Batch ID: **43923** TestNo: **EPA 6010B EPA 3050B** Analysis Date: **9/21/2013** SeqNo: **1648417**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	6.049	2.0	24.88	0	24.3	75	125				S
Arsenic	23.314	1.0	24.88	4.073	77.4	75	125				
Barium	146.854	1.0	24.88	136.0	43.7	75	125				S
Beryllium	20.470	1.0	24.88	0.3060	81.1	75	125				
Cadmium	18.455	1.0	24.88	0	74.2	75	125				S
Chromium	55.268	1.0	24.88	34.42	83.8	75	125				
Cobalt	30.005	1.0	24.88	10.90	76.8	75	125				
Copper	46.058	2.0	24.88	21.85	97.3	75	125				
Lead	45.206	1.0	24.88	24.12	84.8	75	125				
Molybdenum	17.902	1.0	24.88	0.2054	71.1	75	125				S
Nickel	60.926	1.0	24.88	42.77	73.0	75	125				S
Selenium	18.547	1.0	24.88	1.318	69.3	75	125				S
Silver	18.153	1.0	24.88	0	73.0	75	125				S
Thallium	16.850	1.0	24.88	0	67.7	75	125				S
Vanadium	56.812	1.0	24.88	39.39	70.0	75	125				S
Zinc	67.293	1.0	24.88	50.09	69.1	75	125				BS

Sample ID: **N011009-049A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90388**
Client ID: **ZZZZZZ** Batch ID: **43923** TestNo: **EPA 6010B EPA 3050B** Analysis Date: **9/21/2013** SeqNo: **1648418**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	4.133	2.0	25.06	0	16.5	75	125	6.049	37.6	20	SR
Arsenic	25.227	1.0	25.06	4.073	84.4	75	125	23.31	7.88	20	
Barium	164.656	1.0	25.06	136.0	114	75	125	146.9	11.4	20	
Beryllium	20.705	1.0	25.06	0.3060	81.4	75	125	20.47	1.14	20	
Cadmium	18.734	1.0	25.06	0	74.7	75	125	18.45	1.50	20	S
Chromium	71.677	1.0	25.06	34.42	149	75	125	55.27	25.9	20	SR
Cobalt	32.678	1.0	25.06	10.90	86.9	75	125	30.01	8.53	20	
Copper	48.516	2.0	25.06	21.85	106	75	125	46.06	5.20	20	
Lead	37.063	1.0	25.06	24.12	51.7	75	125	45.21	19.8	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **N011009-049A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90388**
Client ID: **ZZZZZZ** Batch ID: **43923** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/21/2013** SeqNo: **1648418**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	18.356	1.0	25.06	0.2054	72.4	75	125	17.90	2.51	20	S
Nickel	79.821	1.0	25.06	42.77	148	75	125	60.93	26.8	20	SR
Selenium	19.266	1.0	25.06	1.318	71.6	75	125	18.55	3.80	20	S
Silver	18.630	1.0	25.06	0	74.3	75	125	18.15	2.59	20	S
Thallium	17.366	1.0	25.06	0	69.3	75	125	16.85	3.01	20	S
Vanadium	61.898	1.0	25.06	39.39	89.8	75	125	56.81	8.57	20	
Zinc	69.260	1.0	25.06	50.09	76.5	75	125	67.29	2.88	20	B

Sample ID: **N011009-054A-DUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90388**
Client ID: **ZZZZZZ** Batch ID: **43923** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/21/2013** SeqNo: **1648420**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0						0	0	20	
Arsenic	12.717	1.0						16.09	23.4	20	R
Barium	108.090	1.0						102.5	5.33	20	
Beryllium	0.267	1.0						0.2448	0	20	
Cadmium	ND	1.0						0	0	20	
Chromium	21.250	1.0						20.95	1.44	20	
Cobalt	8.516	1.0						8.200	3.77	20	
Copper	24.746	2.0						24.96	0.846	20	
Lead	13.570	1.0						11.73	14.5	20	
Molybdenum	0.404	1.0						0.4047	0	20	
Nickel	14.701	1.0						14.97	1.82	20	
Selenium	2.647	1.0						2.385	10.4	20	
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	36.429	1.0						34.47	5.53	20	
Zinc	80.910	1.0						79.81	1.36	20	B

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **N011009-085A-MS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90388**
Client ID: **ZZZZZZ** Batch ID: **43923** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/21/2013** SeqNo: **1648432**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	6.429	2.0	25.01	0	25.7	75	125				S
Arsenic	23.174	1.0	25.01	3.556	78.4	75	125				
Barium	170.389	1.0	25.01	149.9	81.8	75	125				
Beryllium	20.722	1.0	25.01	0.3103	81.6	75	125				
Cadmium	19.298	1.0	25.01	0	77.2	75	125				
Chromium	54.191	1.0	25.01	27.36	107	75	125				
Cobalt	30.246	1.0	25.01	9.940	81.2	75	125				
Copper	40.399	2.0	25.01	17.43	91.8	75	125				
Lead	49.875	1.0	25.01	28.83	84.1	75	125				
Molybdenum	18.424	1.0	25.01	0	73.7	75	125				S
Nickel	50.008	1.0	25.01	24.63	101	75	125				
Selenium	18.338	1.0	25.01	0.8992	69.7	75	125				S
Silver	18.716	1.0	25.01	0	74.8	75	125				S
Thallium	17.813	1.0	25.01	0	71.2	75	125				S
Vanadium	55.620	1.0	25.01	31.04	98.3	75	125				
Zinc	71.515	1.0	25.01	48.10	93.6	75	125				B

Sample ID: **N011009-086A-DUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90388**
Client ID: **ZZZZZZ** Batch ID: **43923** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/21/2013** SeqNo: **1648434**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0						0	0	20	
Arsenic	8.364	1.0						8.476	1.33	20	
Barium	153.402	1.0						146.9	4.31	20	
Beryllium	0.288	1.0						0.2667	0	20	
Cadmium	ND	1.0						0	0	20	
Chromium	33.921	1.0						39.37	14.9	20	
Cobalt	8.482	1.0						10.71	23.2	20	R
Copper	61.809	2.0						63.90	3.33	20	
Lead	88.228	1.0						1895	182	20	R

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **N011009-086A-DUP**	SampType: **DUP**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date: **9/20/2013**	RunNo: **90388**
Client ID: **ZZZZZZ**	Batch ID: **43923**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **9/21/2013**	SeqNo: **1648434**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	0.220	1.0						0.2154	0	20	
Nickel	32.236	1.0						42.63	27.8	20	R
Selenium	1.033	1.0						1.569	41.2	20	R
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	28.619	1.0						30.21	5.40	20	
Zinc	111.120	1.0						126.4	12.9	20	B

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-43905**	SampType: **MBLK**	TestCode: **6010_SPB**	Units: **mg/Kg**	Prep Date: **9/18/2013**	RunNo: **90399**
Client ID: **PBS**	Batch ID: **43905**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **9/20/2013**	SeqNo: **1648901**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB2-43905**	SampType: **MBLK**	TestCode: **6010_SPB**	Units: **mg/Kg**	Prep Date: **9/18/2013**	RunNo: **90399**
Client ID: **PBS**	Batch ID: **43905**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **9/20/2013**	SeqNo: **1648902**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-43905**	SampType: **LCS**	TestCode: **6010_SPB**	Units: **mg/Kg**	Prep Date: **9/18/2013**	RunNo: **90399**
Client ID: **LCSS**	Batch ID: **43905**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **9/20/2013**	SeqNo: **1648903**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	24.219	5.0	25.00	0	96.9	80	120				

Sample ID: **N011009-003A-MS**	SampType: **MS**	TestCode: **6010_SPB**	Units: **mg/Kg**	Prep Date: **9/18/2013**	RunNo: **90399**
Client ID: **ZZZZZZ**	Batch ID: **43905**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **9/20/2013**	SeqNo: **1648908**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	29.086	5.0	24.95	12.40	66.9	75	125				S

Sample ID: **N011009-003A-MSD**	SampType: **MSD**	TestCode: **6010_SPB**	Units: **mg/Kg**	Prep Date: **9/18/2013**	RunNo: **90399**
Client ID: **ZZZZZZ**	Batch ID: **43905**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **9/20/2013**	SeqNo: **1648909**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	33.401	5.0	25.03	12.40	83.9	75	125	29.09	13.8	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **N011009-020A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90399**
Client ID: **ZZZZZZ** Batch ID: **43905** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/20/2013** SeqNo: **1648922**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	21.008	5.0						21.88	4.07	20	

Sample ID: **N011009-020A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90417**
Client ID: **ZZZZZZ** Batch ID: **43905** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/23/2013** SeqNo: **1649188**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	48.705	5.0	24.95	21.88	108	75	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT:	Geocon Consultants, Inc.
Work Order:	N011009
Project:	800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-43914** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90417**
Client ID: **PBS** Batch ID: **43914** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/23/2013** SeqNo: **1649202**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB2-43914** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90417**
Client ID: **PBS** Batch ID: **43914** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/23/2013** SeqNo: **1649203**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-43914** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90417**
Client ID: **LCSS** Batch ID: **43914** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/23/2013** SeqNo: **1649204**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	25.913	5.0	25.00	0	104	80	120				

Sample ID: **N011009-038A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90417**
Client ID: **ZZZZZZ** Batch ID: **43914** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/23/2013** SeqNo: **1649208**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	162.571	5.0	24.88	159.4	12.9	75	125				S

Sample ID: **N011009-038A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90417**
Client ID: **ZZZZZZ** Batch ID: **43914** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/23/2013** SeqNo: **1649214**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	203.822	5.0	24.93	159.4	178	75	125	162.6	22.5	20	SR

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **N011009-039A-DUP**	SampType: **DUP**	TestCode: **6010_SPB**	Units: **mg/Kg**	Prep Date: **9/19/2013**	RunNo: **90417**
Client ID: **ZZZZZZ**	Batch ID: **43914**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **9/23/2013**	SeqNo: **1649216**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	135.414	5.0						119.9	12.2	20	

Sample ID: **N011009-052A-MS**	SampType: **MS**	TestCode: **6010_SPB**	Units: **mg/Kg**	Prep Date: **9/19/2013**	RunNo: **90417**
Client ID: **ZZZZZZ**	Batch ID: **43914**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **9/23/2013**	SeqNo: **1649228**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	108.829	5.0	25.03	71.67	148	75	125				S

Sample ID: **N011009-053A-DUP**	SampType: **DUP**	TestCode: **6010_SPB**	Units: **mg/Kg**	Prep Date: **9/19/2013**	RunNo: **90417**
Client ID: **ZZZZZZ**	Batch ID: **43914**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **9/23/2013**	SeqNo: **1649230**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	13.351	5.0						29.45	75.2	20	R

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-43922** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90417**
Client ID: **PBS** Batch ID: **43922** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/23/2013** SeqNo: **1649243**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **MB2-43922** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90417**
Client ID: **PBS** Batch ID: **43922** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/23/2013** SeqNo: **1649244**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-43922** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90417**
Client ID: **LCSS** Batch ID: **43922** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/23/2013** SeqNo: **1649245**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	26.222	5.0	25.00	0	105	80	120				

Sample ID: **N011009-064A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90417**
Client ID: **ZZZZZZ** Batch ID: **43922** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/23/2013** SeqNo: **1649249**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	66.994	5.0	25.08	57.74	36.9	75	125				S

Sample ID: **N011009-064A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90417**
Client ID: **ZZZZZZ** Batch ID: **43922** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/23/2013** SeqNo: **1649252**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	63.510	5.0	24.94	57.74	23.1	75	125	66.99	5.34	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **N011009-066A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90417**
Client ID: **ZZZZZZ** Batch ID: **43922** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/23/2013** SeqNo: **1649254**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	13.859	5.0						14.02	1.18	20	

Sample ID: **N011009-078A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90417**
Client ID: **ZZZZZZ** Batch ID: **43922** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/23/2013** SeqNo: **1649268**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	48.844	5.0	25.03	21.39	110	75	125				

Sample ID: **N011009-082A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90417**
Client ID: **ZZZZZZ** Batch ID: **43922** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **9/23/2013** SeqNo: **1649270**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	47.732	5.0						47.39	0.727	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 7196_S

Sample ID: **MB-43908** SampType: **MBLK** TestCode: **7196_S** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90400**
Client ID: **PBS** Batch ID: **43908** TestNo: **EPA 7196A** **EPA 3060A** Analysis Date: **9/20/2013** SeqNo: **1648940**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	ND	1.0									

Sample ID: **LCS-43908** SampType: **LCS** TestCode: **7196_S** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90400**
Client ID: **LCSS** Batch ID: **43908** TestNo: **EPA 7196A** **EPA 3060A** Analysis Date: **9/20/2013** SeqNo: **1648941**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	4.003	1.0	4.000	0	100	80	120				

Sample ID: **N011009-071A-DUP** SampType: **DUP** TestCode: **7196_S** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90401**
Client ID: **ZZZZZZ** Batch ID: **43908** TestNo: **EPA 7196A** **EPA 3060A** Analysis Date: **9/20/2013** SeqNo: **1648960**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	ND	1.0						0	0	20	

Sample ID: **N011009-081A-MS** SampType: **MS** TestCode: **7196_S** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90401**
Client ID: **ZZZZZZ** Batch ID: **43908** TestNo: **EPA 7196A** **EPA 3060A** Analysis Date: **9/20/2013** SeqNo: **1648962**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	0.732	1.0	4.000	0	18.3	80	120				S

Sample ID: **N011009-081A-MSD** SampType: **MSD** TestCode: **7196_S** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90401**
Client ID: **ZZZZZZ** Batch ID: **43908** TestNo: **EPA 7196A** **EPA 3060A** Analysis Date: **9/20/2013** SeqNo: **1648964**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	ND	1.0	4.000	0	0	80	120	0.7317	0	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 7196_S

Sample ID: **N011009-081A-MS_I**	SampType: **MS**		TestCode: **7196_S**		Units: **mg/Kg**		Prep Date: **9/19/2013**			RunNo: **90401**			
Client ID: **ZZZZZZ**	Batch ID: **43908**		TestNo: **EPA 7196A**		**EPA 3060A**		Analysis Date: **9/20/2013**			SeqNo: **1648965**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual	
Chromium, Hexavalent	496.714	20	740.0	0	67.1	80	120					S	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: **LCS-43890** SampType: **LCS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **LCSS** Batch ID: **43890** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647294**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.458	0.10	0.4153	0	110	80	120				

Sample ID: **MB1-43890** SampType: **MBLK** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **PBS** Batch ID: **43890** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647297**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.099									

Sample ID: **MB2-43890** SampType: **MBLK** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **PBS** Batch ID: **43890** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647299**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **N011008-002A-DUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **ZZZZZZ** Batch ID: **43890** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647303**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.376	0.099						0.4264	12.5	20	

Sample ID: **N011008-002A-MS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **ZZZZZZ** Batch ID: **43890** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647304**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.797	0.098	0.4099	0.4264	90.5	75	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: **N011008-002A-MSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **ZZZZZZ** Batch ID: **43890** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647305**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.848	0.099	0.4105	0.4264	103	75	125	0.7972	6.15	20	

Sample ID: **N011008-026A-DUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **ZZZZZZ** Batch ID: **43890** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647316**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.193	0.10						0.1381	33.4	20	R

Sample ID: **N011008-026A-MS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **ZZZZZZ** Batch ID: **43890** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647317**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.614	0.098	0.4099	0.1381	116	75	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: **LCS-43891** SampType: **LCS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **LCSS** Batch ID: **43891** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647295**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.443	0.099	0.4105	0	108	80	120				

Sample ID: **MB1-43891** SampType: **MBLK** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **PBS** Batch ID: **43891** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647298**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **MB2-43891** SampType: **MBLK** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **PBS** Batch ID: **43891** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647300**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **N011009-015A-DUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **ZZZZZZ** Batch ID: **43891** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647328**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.042	0.10						0.03433	0	20	

Sample ID: **N011009-015A-MS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **ZZZZZZ** Batch ID: **43891** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647329**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.503	0.10	0.4181	0.03433	112	75	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: **N011009-015A-MSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **ZZZZZZ** Batch ID: **43891** TestNo: **EPA 7471A EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647330**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.513	0.10	0.4160	0.03433	115	75	125	0.5033	1.81	20	

Sample ID: **N011009-047A-DUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **ZZZZZZ** Batch ID: **43891** TestNo: **EPA 7471A EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647341**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.135	0.10						0.1336	0.709	20	

Sample ID: **N011009-047A-MS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **ZZZZZZ** Batch ID: **43891** TestNo: **EPA 7471A EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647342**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.620	0.10	0.4238	0.1336	115	75	125				

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: **LCS-43892** SampType: **LCS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **LCSS** Batch ID: **43892** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647296**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.451	0.10	0.4146	0	109	80	120				

Sample ID: **MB-43892** SampType: **MBLK** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **PBS** Batch ID: **43892** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647301**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.099									

Sample ID: **N011009-080A-DUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **ZZZZZZ** Batch ID: **43892** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647353**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.297	0.10						0.2988	0.611	20	

Sample ID: **N011009-080A-MS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **ZZZZZZ** Batch ID: **43892** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647354**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.657	0.099	0.4126	0.2988	86.8	75	125				

Sample ID: **N011009-080A-MSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **9/17/2013** RunNo: **90346**
Client ID: **ZZZZZZ** Batch ID: **43892** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **9/18/2013** SeqNo: **1647355**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.750	0.10	0.4195	0.2988	107	75	125	0.6568	13.2	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DM LL

Sample ID: **LCS-43899** SampType: **LCS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90363**
Client ID: **LCSS** Batch ID: **43899** TestNo: **EPA 8015B** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647551**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	57.888	1.0	83.30	0	69.5	52	126				
Surr: p-Terphenyl	5.922		6.670		88.8	59	127				

Sample ID: **MB1-43899** SampType: **MBLK** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90363**
Client ID: **PBS** Batch ID: **43899** TestNo: **EPA 8015B** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647552**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	1.0									
ORO	ND	1.0									
Surr: p-Terphenyl	6.525		6.670		97.8	59	127				

Sample ID: **N011008-024A-DUP** SampType: **DUP** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90363**
Client ID: **ZZZZZZ** Batch ID: **43899** TestNo: **EPA 8015B** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647557**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	50.150	1.0						31.45	45.8	20	R
ORO	109.747	1.0						82.06	28.9	20	R
Surr: p-Terphenyl	6.459		6.679		96.7	59	127		0		

Sample ID: **N011008-025A-MS** SampType: **MS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90363**
Client ID: **ZZZZZZ** Batch ID: **43899** TestNo: **EPA 8015B** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647564**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	54.529	1.0	83.49	13.37	49.3	13	129				
Surr: p-Terphenyl	6.015		6.686		90.0	59	127				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DM LL

Sample ID: **N011008-025A-MSD** SampType: **MSD** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90363**
Client ID: **ZZZZZZ** Batch ID: **43899** TestNo: **EPA 8015B** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647565**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	45.626	1.0	83.13	13.37	38.8	13	129	54.53	17.8	20	
Surr: p-Terphenyl	4.894		6.657		73.5	59	127		0		

Sample ID: **MB2-43899** SampType: **MBLK** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90386**
Client ID: **PBS** Batch ID: **43899** TestNo: **EPA 8015B** **EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648155**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	1.0									
ORO	ND	1.0									
Surr: p-Terphenyl	6.572		6.670		98.5	59	127				

Sample ID: **N011009-014A-DUP** SampType: **DUP** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90386**
Client ID: **ZZZZZZ** Batch ID: **43899** TestNo: **EPA 8015B** **EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648161**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	71.061	5.0						52.79	29.5	20	R
ORO	256.483	5.0						189.4	30.1	20	R
Surr: p-Terphenyl	5.739		6.688		85.8	59	127		0		

Sample ID: **N011009-009A-MS** SampType: **MS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/18/2013** RunNo: **90386**
Client ID: **ZZZZZZ** Batch ID: **43899** TestNo: **EPA 8015B** **EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648167**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	80.690	5.0	83.52	51.86	34.5	13	129				
Surr: p-Terphenyl	5.828		6.688		87.2	59	127				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DM LL

Sample ID: **LCS-43915** SampType: **LCS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90387**
Client ID: **LCSS** Batch ID: **43915** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648168**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	64.230	1.0	83.30	0	77.1	52	126				
Surr: p-Terphenyl	6.741		6.670		101	59	127				

Sample ID: **MB1-43915** SampType: **MBLK** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90387**
Client ID: **PBS** Batch ID: **43915** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648169**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	1.0									
ORO	ND	1.0									
Surr: p-Terphenyl	6.464		6.670		96.9	59	127				

Sample ID: **N011009-029A-DUP** SampType: **DUP** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90387**
Client ID: **ZZZZZZ** Batch ID: **43915** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648172**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	71.395	5.0						68.01	4.85	20	
ORO	213.418	5.0						210.9	1.20	20	
Surr: p-Terphenyl	6.491		6.688		97.1	59	127		0		

Sample ID: **N011009-024A-MS** SampType: **MS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90387**
Client ID: **ZZZZZZ** Batch ID: **43915** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648181**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	81.049	5.0	83.22	15.06	79.3	13	129				
Surr: p-Terphenyl	6.610		6.663		99.2	59	127				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Advanced Technology Laboratories, Inc.

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DM LL

Sample ID: **N011009-024A-MSD** SampType: **MSD** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90387**
Client ID: **ZZZZZZ** Batch ID: **43915** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648182**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	75.422	5.0	83.36	15.06	72.4	13	129	81.05	7.19	20	
Surr: p-Terphenyl	6.112		6.674		91.6	59	127		0		

Sample ID: **MB2-43915** SampType: **MBLK** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90387**
Client ID: **PBS** Batch ID: **43915** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648183**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	1.0									
ORO	ND	1.0									
Surr: p-Terphenyl	6.505		6.670		97.5	59	127				

Sample ID: **N011009-049A-DUP** SampType: **DUP** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90387**
Client ID: **ZZZZZZ** Batch ID: **43915** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648185**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	12.533	1.0						5.043	85.2	20	R
ORO	24.383	1.0						10.56	79.1	20	R
Surr: p-Terphenyl	5.555		6.690		83.0	59	127		0		

Sample ID: **N011009-049A-MS** SampType: **MS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/19/2013** RunNo: **90387**
Client ID: **ZZZZZZ** Batch ID: **43915** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648195**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	70.627	1.0	83.52	5.043	78.5	13	129				
Surr: p-Terphenyl	5.736		6.688		85.8	59	127				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DM LL

Sample ID: **LCS-43921** SampType: **LCS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90389**
Client ID: **LCSS** Batch ID: **43921** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648268**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	64.017	1.0	83.30	0	76.9	52	126				
Surr: p-Terphenyl	6.255		6.670		93.8	59	127				

Sample ID: **MB1-43921** SampType: **MBLK** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90389**
Client ID: **PBS** Batch ID: **43921** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648269**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	1.0									
ORO	ND	1.0									
Surr: p-Terphenyl	5.745		6.670		86.1	59	127				

Sample ID: **N011009-075A-DUP** SampType: **DUP** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90389**
Client ID: **ZZZZZZ** Batch ID: **43921** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648272**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	64.361	5.0						77.60	18.6	20	
ORO	194.634	5.0						235.2	18.9	20	
Surr: p-Terphenyl	6.277		6.690		93.8	59	127		0		

Sample ID: **MB2-43921** SampType: **MBLK** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90389**
Client ID: **PBS** Batch ID: **43921** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648281**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	1.0									
ORO	ND	1.0									
Surr: p-Terphenyl	5.651		6.670		84.7	59	127				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DM LL

Sample ID: **N011009-088A-DUP** SampType: **DUP** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90389**
Client ID: **ZZZZZZ** Batch ID: **43921** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648283**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	88.628	5.0						89.43	0.898	20	
ORO	221.711	5.0						228.7	3.12	20	
Surr: p-Terphenyl	5.308		6.672		79.5	59	127		0		

Sample ID: **N011009-088A-MS** SampType: **MS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90389**
Client ID: **ZZZZZZ** Batch ID: **43921** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648293**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	133.731	5.0	83.30	89.43	53.2	13	129				
Surr: p-Terphenyl	4.415		6.670		66.2	59	127				

Sample ID: **N011009-075A-MS** SampType: **MS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90389**
Client ID: **ZZZZZZ** Batch ID: **43921** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648294**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	91.503	5.0	83.02	77.60	16.8	13	129				
Surr: p-Terphenyl	4.314		6.648		64.9	59	127				

Sample ID: **N011009-075A-MSD** SampType: **MSD** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **9/20/2013** RunNo: **90389**
Client ID: **ZZZZZZ** Batch ID: **43921** TestNo: **EPA 8015B EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648295**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	114.270	5.0	83.16	77.60	44.1	13	129	91.50	22.1	20	R
Surr: p-Terphenyl	5.016		6.659		75.3	59	127		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_S

Sample ID: **E130918LCS** SampType: **LCS** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90340**
Client ID: **LCSS** Batch ID: **E13VS096** TestNo: **EPA 8015B** Analysis Date: **9/18/2013** SeqNo: **1647064**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.652	1.0	5.000	0	113	77	122				
Surr: Chlorobenzene - d5	111.588		100.0		112	51	136				

Sample ID: **E130918MB1** SampType: **MBLK** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90340**
Client ID: **PBS** Batch ID: **E13VS096** TestNo: **EPA 8015B** Analysis Date: **9/18/2013** SeqNo: **1647065**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.068	1.0									
Surr: Chlorobenzene - d5	100.835		100.0		101	51	136				

Sample ID: **N011008-020ADUP** SampType: **DUP** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90340**
Client ID: **ZZZZZZ** Batch ID: **E13VS096** TestNo: **EPA 8015B** Analysis Date: **9/18/2013** SeqNo: **1647067**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.057	1.0						0.05700	0	20	
Surr: Chlorobenzene - d5	105.580		100.0		106	51	136		0		

Sample ID: **N011009-016AMS** SampType: **MS** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90340**
Client ID: **ZZZZZZ** Batch ID: **E13VS096** TestNo: **EPA 8015B** Analysis Date: **9/18/2013** SeqNo: **1647073**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.440	1.0	5.000	0.04900	108	41	132				
Surr: Chlorobenzene - d5	101.718		100.0		102	51	136				

Sample ID: **N011009-016AMSD** SampType: **MSD** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90340**
Client ID: **ZZZZZZ** Batch ID: **E13VS096** TestNo: **EPA 8015B** Analysis Date: **9/18/2013** SeqNo: **1647074**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.677	1.0	5.000	0.04900	113	41	132	5.440	4.26	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_S

Sample ID: **N011009-016AMSD** SampType: **MSD** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90340**
Client ID: **ZZZZZZ** Batch ID: **E13VS096** TestNo: **EPA 8015B** Analysis Date: **9/18/2013** SeqNo: **1647074**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Chlorobenzene - d5	103.733		100.0		104	51	136		0		

Sample ID: **E130918MB2** SampType: **MBLK** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90340**
Client ID: **PBS** Batch ID: **E13VS096** TestNo: **EPA 8015B** Analysis Date: **9/18/2013** SeqNo: **1647269**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.073	1.0									
Surr: Chlorobenzene - d5	99.174		100.0		99.2	51	136				

Sample ID: **N011009-002AMS** SampType: **MS** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90340**
Client ID: **ZZZZZZ** Batch ID: **E13VS096** TestNo: **EPA 8015B** Analysis Date: **9/18/2013** SeqNo: **1647270**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.770	1.0	5.000	0.07000	94.0	41	132				
Surr: Chlorobenzene - d5	104.914		100.0		105	51	136				

Sample ID: **N011009-015ADUP** SampType: **DUP** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90340**
Client ID: **ZZZZZZ** Batch ID: **E13VS096** TestNo: **EPA 8015B** Analysis Date: **9/18/2013** SeqNo: **1647273**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.070	1.0						0.07200	0	20	
Surr: Chlorobenzene - d5	94.736		100.0		94.7	51	136		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_S

Sample ID: **E130919LCS** SampType: **LCS** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90367**
Client ID: **LCSS** Batch ID: **E13VS097** TestNo: **EPA 8015B** Analysis Date: **9/19/2013** SeqNo: **1647764**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.753	1.0	5.000	0	115	77	122				
Surr: Chlorobenzene - d5	106.041		100.0		106	51	136				

Sample ID: **E130919MB1** SampType: **MBLK** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90367**
Client ID: **PBS** Batch ID: **E13VS097** TestNo: **EPA 8015B** Analysis Date: **9/19/2013** SeqNo: **1647765**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.069	1.0									
Surr: Chlorobenzene - d5	103.033		100.0		103	51	136				

Sample ID: **N011009-040ADUP** SampType: **DUP** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90367**
Client ID: **ZZZZZZ** Batch ID: **E13VS097** TestNo: **EPA 8015B** Analysis Date: **9/19/2013** SeqNo: **1647768**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.058	1.0						0.05800	0	20	
Surr: Chlorobenzene - d5	96.128		100.0		96.1	51	136		0		

Sample ID: **N011009-079AMS** SampType: **MS** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90367**
Client ID: **ZZZZZZ** Batch ID: **E13VS097** TestNo: **EPA 8015B** Analysis Date: **9/19/2013** SeqNo: **1647772**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.903	1.0	5.000	0.05600	96.9	41	132				
Surr: Chlorobenzene - d5	91.996		100.0		92.0	51	136				

Sample ID: **N011009-079AMSD** SampType: **MSD** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90367**
Client ID: **ZZZZZZ** Batch ID: **E13VS097** TestNo: **EPA 8015B** Analysis Date: **9/19/2013** SeqNo: **1647773**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.936	1.0	5.000	0.05600	97.6	41	132	4.903	0.671	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_S

Sample ID: **N011009-079AMSD** SampType: **MSD** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90367**
Client ID: **ZZZZZZ** Batch ID: **E13VS097** TestNo: **EPA 8015B** Analysis Date: **9/19/2013** SeqNo: **1647773**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Chlorobenzene - d5	92.406		100.0		92.4	51	136		0		

Sample ID: **E130919MB2** SampType: **MBLK** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90367**
Client ID: **PBS** Batch ID: **E13VS097** TestNo: **EPA 8015B** Analysis Date: **9/19/2013** SeqNo: **1647784**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.049	1.0									
Surr: Chlorobenzene - d5	110.727		100.0		111	51	136				

Sample ID: **N011009-052AMS** SampType: **MS** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90367**
Client ID: **ZZZZZZ** Batch ID: **E13VS097** TestNo: **EPA 8015B** Analysis Date: **9/19/2013** SeqNo: **1647786**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.152	1.0	5.000	0.08300	101	41	132				
Surr: Chlorobenzene - d5	96.968		100.0		97.0	51	136				

Sample ID: **N011009-053ADUP** SampType: **DUP** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90367**
Client ID: **ZZZZZZ** Batch ID: **E13VS097** TestNo: **EPA 8015B** Analysis Date: **9/19/2013** SeqNo: **1647788**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.056	1.0						0.07100	0	20	
Surr: Chlorobenzene - d5	104.606		100.0		105	51	136		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_S

Sample ID: **E130920LCS**	SampType: **LCS**	TestCode: **8015GAS_S**	Units: **mg/Kg**	Prep Date:	RunNo: **90375**
Client ID: **LCSS**	Batch ID: **E13VS098**	TestNo: **EPA 8015B**		Analysis Date: **9/20/2013**	SeqNo: **1647885**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.626	1.0	5.000	0	113	77	122				
Surr: Chlorobenzene - d5	106.282		100.0		106	51	136				

Sample ID: **E130920MB1**	SampType: **MBLK**	TestCode: **8015GAS_S**	Units: **mg/Kg**	Prep Date:	RunNo: **90375**
Client ID: **PBS**	Batch ID: **E13VS098**	TestNo: **EPA 8015B**		Analysis Date: **9/20/2013**	SeqNo: **1647886**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.069	1.0									
Surr: Chlorobenzene - d5	97.689		100.0		97.7	51	136				

Sample ID: **N011009-085AMS**	SampType: **MS**	TestCode: **8015GAS_S**	Units: **mg/Kg**	Prep Date:	RunNo: **90375**
Client ID: **ZZZZZZ**	Batch ID: **E13VS098**	TestNo: **EPA 8015B**		Analysis Date: **9/20/2013**	SeqNo: **1647891**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.860	1.0	5.000	0.05500	96.1	41	132				
Surr: Chlorobenzene - d5	97.249		100.0		97.2	51	136				

Sample ID: **N011009-085AMSD**	SampType: **MSD**	TestCode: **8015GAS_S**	Units: **mg/Kg**	Prep Date:	RunNo: **90375**
Client ID: **ZZZZZZ**	Batch ID: **E13VS098**	TestNo: **EPA 8015B**		Analysis Date: **9/20/2013**	SeqNo: **1647892**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.198	1.0	5.000	0.05500	103	41	132	4.860	6.72	20	
Surr: Chlorobenzene - d5	97.955		100.0		98.0	51	136		0		

Sample ID: **N011009-071ADUP**	SampType: **DUP**	TestCode: **8015GAS_S**	Units: **mg/Kg**	Prep Date:	RunNo: **90375**
Client ID: **ZZZZZZ**	Batch ID: **E13VS098**	TestNo: **EPA 8015B**		Analysis Date: **9/20/2013**	SeqNo: **1647925**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.068	1.0						0.05300	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_S

Sample ID: **N011009-071ADUP** SampType: **DUP** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **90375**
Client ID: **ZZZZZZ** Batch ID: **E13VS098** TestNo: **EPA 8015B** Analysis Date: **9/20/2013** SeqNo: **1647925**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Chlorobenzene - d5	85.962		100.0		86.0	51	136		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081SOIL

Sample ID: **N011008-009A-DUP** SampType: **DUP** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **ZZZZZZ** Batch ID: **43887** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1648762**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	0.832	2.0						0.4177	0	30	
4,4´-DDE	3.682	2.0						4.054	9.62	30	
4,4´-DDT	8.730	2.0						5.921	38.3	30	R
Aldrin	ND	1.0						0	0	30	
alpha-BHC	ND	1.0						0	0	30	
alpha-Chlordane	0.938	1.0						0.7618	0	30	
beta-BHC	ND	1.0						0	0	30	
Chlordane	ND	8.5						0	0	30	
delta-BHC	ND	1.0						0	0	30	
Dieldrin	ND	2.0						0.3170	0	30	
Endosulfan I	ND	1.0						0	0	30	
Endosulfan II	0.722	2.0						0	0	30	
Endosulfan sulfate	ND	2.0						0	0	30	
Endrin	ND	2.0						0	0	30	
Endrin aldehyde	ND	2.0						0	0	30	
Endrin ketone	ND	2.0						0	0	30	
gamma-BHC	ND	1.0						0	0	30	
gamma-Chlordane	0.914	1.0						0.6903	0	30	
Heptachlor	ND	1.0						0	0	30	
Heptachlor epoxide	ND	1.0						0	0	30	
Methoxychlor	ND	8.5						0	0	30	
Toxaphene	ND	85						0	0	30	
Surr: Tetrachloro-m-xylene	8.805		16.68		52.8	28	161		0	0	
Surr: Decachlorobiphenyl	9.992		16.68		59.9	28	120		0	0	

Sample ID: **MB2-43887** SampType: **MBLK** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **PBS** Batch ID: **43887** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1648768**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	ND	2.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081SOIL

Sample ID: **MB2-43887** SampType: **MBLK** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **PBS** Batch ID: **43887** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1648768**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDE	ND	2.0									
4,4´-DDT	ND	2.0									
Aldrin	ND	1.0									
alpha-BHC	ND	1.0									
alpha-Chlordane	ND	1.0									
beta-BHC	ND	1.0									
Chlordane	ND	8.5									
delta-BHC	ND	1.0									
Dieldrin	ND	2.0									
Endosulfan I	ND	1.0									
Endosulfan II	ND	2.0									
Endosulfan sulfate	ND	2.0									
Endrin	ND	2.0									
Endrin aldehyde	ND	2.0									
Endrin ketone	ND	2.0									
gamma-BHC	ND	1.0									
gamma-Chlordane	ND	1.0									
Heptachlor	ND	1.0									
Heptachlor epoxide	ND	1.0									
Methoxychlor	ND	8.5									
Toxaphene	ND	85									
Surr: Tetrachloro-m-xylene	8.179		16.67		49.1	28	161				
Surr: Decachlorobiphenyl	12.959		16.67		77.7	28	120				

Sample ID: **N011009-006A-DUP** SampType: **DUP** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **ZZZZZZ** Batch ID: **43887** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1648774**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	0.219	2.0						0.4890	0	30	
4,4´-DDE	0.327	2.0						0.4689	0	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081SOIL

Sample ID: **N011009-006A-DUP** SampType: **DUP** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **ZZZZZZ** Batch ID: **43887** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1648774**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDT	1.080	2.0						1.241	0	30	
Aldrin	ND	1.0						0	0	30	
alpha-BHC	ND	1.0						0	0	30	
alpha-Chlordane	0.286	1.0						0.4360	0	30	
beta-BHC	ND	1.0						0	0	30	
Chlordane	ND	8.5						0	0	30	
delta-BHC	ND	1.0						0	0	30	
Dieldrin	ND	2.0						0	0	30	
Endosulfan I	ND	1.0						0	0	30	
Endosulfan II	ND	2.0						0	0	30	
Endosulfan sulfate	ND	2.0						0	0	30	
Endrin	ND	2.0						0	0	30	
Endrin aldehyde	ND	2.0						0	0	30	
Endrin ketone	ND	2.0						0	0	30	
gamma-BHC	ND	1.0						0	0	30	
gamma-Chlordane	1.323	1.0						0.4346	101	30	R
Heptachlor	ND	1.0						0	0	30	
Heptachlor epoxide	ND	1.0						0	0	30	
Methoxychlor	ND	8.5						0	0	30	
Toxaphene	ND	85						0	0	30	
Surr: Tetrachloro-m-xylene	7.031		16.66		42.2	28	161		0	0	
Surr: Decachlorobiphenyl	6.914		16.66		41.5	28	120		0	0	

Sample ID: **LCS-43887_OCP** SampType: **LCS** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **LCSS** Batch ID: **43887** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1648780**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	17.716	2.0	16.67	0	106	57	143				
4,4´-DDE	17.687	2.0	16.67	0	106	54	137				
4,4´-DDT	18.187	2.0	16.67	0	109	57	148				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **LCS-43887_OCP** SampType: **LCS** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **LCSS** Batch ID: **43887** TestNo: **EPA 8081A EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1648780**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aldrin	14.516	1.0	16.67	0	87.1	44	115				
alpha-BHC	14.827	1.0	16.67	0	88.9	40	130				
alpha-Chlordane	16.516	1.0	16.67	0	99.1	49	142				
beta-BHC	15.215	1.0	16.67	0	91.3	44	127				
delta-BHC	10.781	1.0	16.67	0	64.7	50	144				
Dieldrin	17.078	2.0	16.67	0	102	59	135				
Endosulfan I	15.645	1.0	16.67	0	93.8	53	121				
Endosulfan II	17.348	2.0	16.67	0	104	60	137				
Endosulfan sulfate	15.186	2.0	16.67	0	91.1	72	145				
Endrin	22.978	2.0	16.67	0	138	53	148				
Endrin aldehyde	14.282	2.0	16.67	0	85.7	53	131				
Endrin ketone	14.852	2.0	16.67	0	89.1	55	139				
gamma-BHC	14.885	1.0	16.67	0	89.3	37	134				
gamma-Chlordane	16.956	1.0	16.67	0	102	51	131				
Heptachlor	18.068	1.0	16.67	0	108	36	138				
Heptachlor epoxide	16.311	1.0	16.67	0	97.8	50	127				
Methoxychlor	18.987	8.5	16.67	0	114	56	144				
Surr: Tetrachloro-m-xylene	10.383		16.67		62.3	28	161				
Surr: Decachlorobiphenyl	12.678		16.67		76.1	28	120				

Sample ID: **MB1-43887** SampType: **MBLK** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **PBS** Batch ID: **43887** TestNo: **EPA 8081A EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1648781**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	ND	2.0									
4,4´-DDE	ND	2.0									
4,4´-DDT	ND	2.0									
Aldrin	ND	1.0									
alpha-BHC	ND	1.0									
alpha-Chlordane	ND	1.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081SOIL

Sample ID: **MB1-43887** SampType: **MBLK** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **PBS** Batch ID: **43887** TestNo: **EPA 8081A EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1648781**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
beta-BHC	ND	1.0									
Chlordane	ND	8.5									
delta-BHC	ND	1.0									
Dieldrin	ND	2.0									
Endosulfan I	ND	1.0									
Endosulfan II	ND	2.0									
Endosulfan sulfate	ND	2.0									
Endrin	ND	2.0									
Endrin aldehyde	ND	2.0									
Endrin ketone	ND	2.0									
gamma-BHC	ND	1.0									
gamma-Chlordane	ND	1.0									
Heptachlor	ND	1.0									
Heptachlor epoxide	ND	1.0									
Methoxychlor	ND	8.5									
Toxaphene	ND	85									
Surr: Tetrachloro-m-xylene	7.601		16.67		45.6	28	161				
Surr: Decachlorobiphenyl	12.104		16.67		72.6	28	120				

Sample ID: **N011008-001A-MS** SampType: **MS** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **ZZZZZZ** Batch ID: **43887** TestNo: **EPA 8081A EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648783**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	19.736	2.0	16.69	0	118	31	162				
4,4´-DDE	15.232	2.0	16.69	0	91.3	33	165				
4,4´-DDT	5.584	2.0	16.69	0	33.5	17	180				
Aldrin	13.358	1.0	16.69	0	80.0	36	141				
alpha-BHC	12.584	1.0	16.69	0	75.4	23	149				
alpha-Chlordane	13.776	1.0	16.69	0	82.5	24	175				
beta-BHC	15.255	1.0	16.69	0	91.4	38	145				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081SOIL

Sample ID: **N011008-001A-MS** SampType: **MS** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **ZZZZZZ** Batch ID: **43887** TestNo: **EPA 8081A EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648783**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
delta-BHC	9.761	1.0	16.69	0	58.5	36	166				
Dieldrin	14.546	2.0	16.69	0	87.1	24	172				
Endosulfan I	13.515	1.0	16.69	0	81.0	36	138				
Endosulfan II	13.753	2.0	16.69	0	82.4	27	166				
Endosulfan sulfate	11.593	2.0	16.69	0	69.5	49	157				
Endrin	18.083	2.0	16.69	0	108	25	180				
Endrin aldehyde	8.886	2.0	16.69	0	53.2	29	146				
Endrin ketone	9.792	2.0	16.69	0	58.7	30	155				
gamma-BHC	12.558	1.0	16.69	0	75.2	32	143				
gamma-Chlordane	14.528	1.0	16.69	0	87.0	40	172				
Heptachlor	14.648	1.0	16.69	0	87.8	33	145				
Heptachlor epoxide	14.274	1.0	16.69	0	85.5	40	153				
Methoxychlor	48.845	8.5	16.69	0	293	23	164				S
Surr: Tetrachloro-m-xylene	8.987		16.69		53.8	28	161				
Surr: Decachlorobiphenyl	10.512		16.69		63.0	28	120				

Sample ID: **N011008-001A-MSD** SampType: **MSD** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **ZZZZZZ** Batch ID: **43887** TestNo: **EPA 8081A EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648784**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	20.570	2.0	16.67	0	123	31	162	19.74	4.14	30	
4,4´-DDE	15.579	2.0	16.67	0	93.5	33	165	15.23	2.25	30	
4,4´-DDT	5.929	2.0	16.67	0	35.6	17	180	5.584	6.01	30	
Aldrin	13.381	1.0	16.67	0	80.3	36	141	13.36	0.171	30	
alpha-BHC	12.314	1.0	16.67	0	73.9	23	149	12.58	2.16	30	
alpha-Chlordane	13.934	1.0	16.67	0	83.6	24	175	13.78	1.14	30	
beta-BHC	16.175	1.0	16.67	0	97.0	38	145	15.26	5.85	30	
delta-BHC	9.884	1.0	16.67	0	59.3	36	166	9.761	1.25	30	
Dieldrin	14.842	2.0	16.67	0	89.0	24	172	14.55	2.01	30	
Endosulfan I	13.605	1.0	16.67	0	81.6	36	138	13.52	0.657	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081SOIL

Sample ID: **N011008-001A-MSD** SampType: **MSD** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **ZZZZZZ** Batch ID: **43887** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648784**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Endosulfan II	14.622	2.0	16.67	0	87.7	27	166	13.75	6.12	30	
Endosulfan sulfate	12.139	2.0	16.67	0	72.8	49	157	11.59	4.60	30	
Endrin	18.852	2.0	16.67	0	113	25	180	18.08	4.16	30	
Endrin aldehyde	9.635	2.0	16.67	0	57.8	29	146	8.886	8.09	30	
Endrin ketone	10.165	2.0	16.67	0	61.0	30	155	9.792	3.73	30	
gamma-BHC	12.354	1.0	16.67	0	74.1	32	143	12.56	1.64	30	
gamma-Chlordane	14.918	1.0	16.67	0	89.5	40	172	14.53	2.65	30	
Heptachlor	14.334	1.0	16.67	0	86.0	33	145	14.65	2.17	30	
Heptachlor epoxide	14.429	1.0	16.67	0	86.6	40	153	14.27	1.08	30	
Methoxychlor	7.157	8.5	16.67	0	42.9	23	164	48.84	0	30	
Surr: Tetrachloro-m-xylene	8.542		16.67		51.2	28	161		0		
Surr: Decachlorobiphenyl	9.847		16.67		59.1	28	120		0		

Sample ID: **N011009-006A-MS** SampType: **MS** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **ZZZZZZ** Batch ID: **43887** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648785**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	23.792	2.0	16.62	0.4890	140	31	162				
4,4´-DDE	14.503	2.0	16.62	0.4689	84.4	33	165				
4,4´-DDT	11.180	2.0	16.62	1.241	59.8	17	180				
Aldrin	12.303	1.0	16.62	0	74.0	36	141				
alpha-BHC	11.774	1.0	16.62	0	70.8	23	149				
alpha-Chlordane	26.155	1.0	16.62	0.4360	155	24	175				
beta-BHC	19.322	1.0	16.62	0	116	38	145				
delta-BHC	7.757	1.0	16.62	0	46.7	36	166				
Dieldrin	16.984	2.0	16.62	0	102	24	172				
Endosulfan I	10.813	1.0	16.62	0	65.1	36	138				
Endosulfan II	12.587	2.0	16.62	0	75.7	27	166				
Endosulfan sulfate	12.596	2.0	16.62	0	75.8	49	157				
Endrin	16.020	2.0	16.62	0	96.4	25	180				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: **8081SOIL**

Sample ID: **N011009-006A-MS** SampType: **MS** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90395**
Client ID: **ZZZZZZ** Batch ID: **43887** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648785**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Endrin aldehyde	7.797	2.0	16.62	0	46.9	29	146				
Endrin ketone	8.089	2.0	16.62	0	48.7	30	155				
gamma-BHC	11.941	1.0	16.62	0	71.8	32	143				
gamma-Chlordane	13.966	1.0	16.62	0.4346	81.4	40	172				
Heptachlor	12.222	1.0	16.62	0	73.5	33	145				
Heptachlor epoxide	12.325	1.0	16.62	0	74.2	40	153				
Methoxychlor	7.472	8.5	16.62	0	45.0	23	164				
Surr: Tetrachloro-m-xylene	10.760		16.62		64.7	28	161				
Surr: Decachlorobiphenyl	10.688		16.62		64.3	28	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081SOIL

Sample ID: **LCS-43900_OCP** SampType: **LCS** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90397**
Client ID: **LCSS** Batch ID: **43900** TestNo: **EPA 8081A EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648840**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	15.960	2.0	16.67	0	95.7	57	143				
4,4´-DDE	15.670	2.0	16.67	0	94.0	54	137				
4,4´-DDT	15.638	2.0	16.67	0	93.8	57	148				
Aldrin	13.214	1.0	16.67	0	79.3	44	115				
alpha-BHC	12.971	1.0	16.67	0	77.8	40	130				
alpha-Chlordane	14.598	1.0	16.67	0	87.6	49	142				
beta-BHC	13.457	1.0	16.67	0	80.7	44	127				
delta-BHC	9.231	1.0	16.67	0	55.4	50	144				
Dieldrin	15.184	2.0	16.67	0	91.1	59	135				
Endosulfan I	13.895	1.0	16.67	0	83.4	53	121				
Endosulfan II	15.564	2.0	16.67	0	93.4	60	137				
Endosulfan sulfate	13.361	2.0	16.67	0	80.2	72	145				
Endrin	20.390	2.0	16.67	0	122	53	148				
Endrin aldehyde	11.988	2.0	16.67	0	71.9	53	131				
Endrin ketone	12.703	2.0	16.67	0	76.2	55	139				
gamma-BHC	12.981	1.0	16.67	0	77.9	37	134				
gamma-Chlordane	14.987	1.0	16.67	0	89.9	51	131				
Heptachlor	15.942	1.0	16.67	0	95.6	36	138				
Heptachlor epoxide	14.360	1.0	16.67	0	86.1	50	127				
Methoxychlor	16.313	8.5	16.67	0	97.9	56	144				
Surr: Tetrachloro-m-xylene	10.202		16.67		61.2	28	161				
Surr: Decachlorobiphenyl	11.439		16.67		68.6	28	120				

Sample ID: **MB-43900** SampType: **MBLK** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90397**
Client ID: **PBS** Batch ID: **43900** TestNo: **EPA 8081A EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648841**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	ND	2.0									
4,4´-DDE	ND	2.0									
4,4´-DDT	ND	2.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081SOIL

Sample ID: **MB-43900** SampType: **MBLK** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90397**
Client ID: **PBS** Batch ID: **43900** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648841**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aldrin	ND	1.0									
alpha-BHC	ND	1.0									
alpha-Chlordane	ND	1.0									
beta-BHC	ND	1.0									
Chlordane	ND	8.5									
delta-BHC	ND	1.0									
Dieldrin	ND	2.0									
Endosulfan I	ND	1.0									
Endosulfan II	ND	2.0									
Endosulfan sulfate	ND	2.0									
Endrin	ND	2.0									
Endrin aldehyde	ND	2.0									
Endrin ketone	ND	2.0									
gamma-BHC	ND	1.0									
gamma-Chlordane	ND	1.0									
Heptachlor	ND	1.0									
Heptachlor epoxide	ND	1.0									
Methoxychlor	ND	8.5									
Toxaphene	ND	85									
Surr: Tetrachloro-m-xylene	10.245		16.67		61.5	28	161				
Surr: Decachlorobiphenyl	11.511		16.67		69.1	28	120				

Sample ID: **N011009-057A-DUP** SampType: **DUP** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90397**
Client ID: **ZZZZZZ** Batch ID: **43900** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648929**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	1.193	2.0						0.7870	0	30	
4,4´-DDE	0.345	2.0						0.3272	0	30	
4,4´-DDT	0.360	2.0						0.2950	0	30	
Aldrin	ND	1.0						0	0	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081SOIL

Sample ID: **N011009-057A-DUP** SampType: **DUP** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90397**
Client ID: **ZZZZZZ** Batch ID: **43900** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648929**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	ND	1.0						0	0	30	
alpha-Chlordane	0.984	1.0						0.6116	0	30	
beta-BHC	ND	1.0						0	0	30	
Chlordane	ND	8.5						0	0	30	
delta-BHC	ND	1.0						0	0	30	
Dieldrin	0.895	2.0						0.7447	0	30	
Endosulfan I	ND	1.0						0	0	30	
Endosulfan II	ND	2.0						0	0	30	
Endosulfan sulfate	ND	2.0						0	0	30	
Endrin	ND	2.0						0	0	30	
Endrin aldehyde	ND	2.0						0	0	30	
Endrin ketone	ND	2.0						0	0	30	
gamma-BHC	ND	1.0						0	0	30	
gamma-Chlordane	0.660	1.0						0.4520	0	30	
Heptachlor	ND	1.0						0	0	30	
Heptachlor epoxide	0.181	1.0						0.1134	0	30	
Methoxychlor	ND	8.5						0	0	30	
Toxaphene	ND	85						0	0	30	
Surr: Tetrachloro-m-xylene	9.962		16.63		59.9	28	161		0	0	
Surr: Decachlorobiphenyl	9.740		16.63		58.6	28	120		0	0	

Sample ID: **N011009-061A-MS** SampType: **MS** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90397**
Client ID: **ZZZZZZ** Batch ID: **43900** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648937**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	17.899	2.0	16.66	0.2807	106	31	162				
4,4´-DDE	13.609	2.0	16.66	0.5192	78.6	33	165				
4,4´-DDT	2.069	2.0	16.66	0.2790	10.7	17	180				S
Aldrin	12.380	1.0	16.66	0	74.3	36	141				
alpha-BHC	12.106	1.0	16.66	0	72.6	23	149				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **N011009-061A-MS** SampType: **MS** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90397**
Client ID: **ZZZZZZ** Batch ID: **43900** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648937**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-Chlordane	18.344	1.0	16.66	9.345	54.0	24	175				
beta-BHC	12.003	1.0	16.66	0	72.0	38	145				
delta-BHC	8.374	1.0	16.66	0	50.3	36	166				
Dieldrin	13.056	2.0	16.66	0.8526	73.2	24	172				
Endosulfan I	12.218	1.0	16.66	0	73.3	36	138				
Endosulfan II	11.763	2.0	16.66	0	70.6	27	166				
Endosulfan sulfate	9.241	2.0	16.66	0	55.5	49	157				
Endrin	13.662	2.0	16.66	0	82.0	25	180				
Endrin aldehyde	7.934	2.0	16.66	0	47.6	29	146				
Endrin ketone	5.699	2.0	16.66	0	34.2	30	155				
gamma-BHC	10.384	1.0	16.66	0	62.3	32	143				
gamma-Chlordane	17.848	1.0	16.66	7.083	64.6	40	172				
Heptachlor	8.010	1.0	16.66	0	48.1	33	145				
Heptachlor epoxide	13.180	1.0	16.66	0.7870	74.4	40	153				
Methoxychlor	ND	8.5	16.66	0	0	23	164				S
Surr: Tetrachloro-m-xylene	10.358		16.66		62.2	28	161				
Surr: Decachlorobiphenyl	9.164		16.66		55.0	28	120				

Sample ID: **N011009-061A-MSD** SampType: **MSD** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90397**
Client ID: **ZZZZZZ** Batch ID: **43900** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648938**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	19.175	2.0	16.61	0.2807	114	31	162	17.90	6.89	30	
4,4´-DDE	13.544	2.0	16.61	0.5192	78.4	33	165	13.61	0.480	30	
4,4´-DDT	2.365	2.0	16.61	0.2790	12.6	17	180	2.069	13.4	30	S
Aldrin	13.169	1.0	16.61	0	79.3	36	141	12.38	6.18	30	
alpha-BHC	13.036	1.0	16.61	0	78.5	23	149	12.11	7.40	30	
alpha-Chlordane	14.401	1.0	16.61	9.345	30.4	24	175	18.34	24.1	30	
beta-BHC	11.615	1.0	16.61	0	69.9	38	145	12.00	3.29	30	
delta-BHC	7.952	1.0	16.61	0	47.9	36	166	8.374	5.17	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081SOIL

Sample ID: **N011009-061A-MSD** SampType: **MSD** TestCode: **8081SOIL** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90397**
Client ID: **ZZZZZZ** Batch ID: **43900** TestNo: **EPA 8081A EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648938**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dieldrin	13.500	2.0	16.61	0.8526	76.1	24	172	13.06	3.34	30	
Endosulfan I	11.935	1.0	16.61	0	71.8	36	138	12.22	2.35	30	
Endosulfan II	11.696	2.0	16.61	0	70.4	27	166	11.76	0.566	30	
Endosulfan sulfate	8.979	2.0	16.61	0	54.0	49	157	9.241	2.87	30	
Endrin	13.133	2.0	16.61	0	79.0	25	180	13.66	3.95	30	
Endrin aldehyde	7.515	2.0	16.61	0	45.2	29	146	7.934	5.42	30	
Endrin ketone	5.437	2.0	16.61	0	32.7	30	155	5.699	4.71	30	
gamma-BHC	10.804	1.0	16.61	0	65.0	32	143	10.38	3.96	30	
gamma-Chlordane	14.995	1.0	16.61	7.083	47.6	40	172	17.85	17.4	30	
Heptachlor	8.033	1.0	16.61	0	48.3	33	145	8.010	0.281	30	
Heptachlor epoxide	12.960	1.0	16.61	0.7870	73.3	40	153	13.18	1.68	30	
Methoxychlor	2.745	8.5	16.61	0	16.5	23	164	0	0	30	S
Surr: Tetrachloro-m-xylene	11.998		16.61		72.2	28	161		0		
Surr: Decachlorobiphenyl	9.485		16.61		57.1	28	120		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082_S

Sample ID: **LCS-43887_PCB** SampType: **LCS** TestCode: **8082_S** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90330**
Client ID: **LCSS** Batch ID: **43887** TestNo: **EPA 8082** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1646715**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	137.466	16	166.7	0	82.5	56	121				
Aroclor 1260	147.104	16	166.7	0	88.3	62	121				
Surr: Decachlorobiphenyl	14.700		16.67		88.2	40	146				
Surr: Tetrachloro-m-xylene	9.273		16.67		55.6	32	109				

Sample ID: **MB1-43887** SampType: **MBLK** TestCode: **8082_S** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90330**
Client ID: **PBS** Batch ID: **43887** TestNo: **EPA 8082** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1646716**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	16									
Aroclor 1221	ND	33									
Aroclor 1232	ND	16									
Aroclor 1242	ND	16									
Aroclor 1248	ND	16									
Aroclor 1254	ND	16									
Aroclor 1260	ND	16									
Surr: Decachlorobiphenyl	14.824		16.67		88.9	40	146				
Surr: Tetrachloro-m-xylene	7.838		16.67		47.0	32	109				

Sample ID: **MB2-43887** SampType: **MBLK** TestCode: **8082_S** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90330**
Client ID: **PBS** Batch ID: **43887** TestNo: **EPA 8082** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1646717**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	16									
Aroclor 1221	ND	33									
Aroclor 1232	ND	16									
Aroclor 1242	ND	16									
Aroclor 1248	ND	16									
Aroclor 1254	ND	16									
Aroclor 1260	ND	16									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082_S

Sample ID: **MB2-43887** SampType: **MBLK** TestCode: **8082_S** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90330**
Client ID: **PBS** Batch ID: **43887** TestNo: **EPA 8082** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1646717**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	13.544		16.67		81.2	40	146				
Surr: Tetrachloro-m-xylene	7.665		16.67		46.0	32	109				

Sample ID: **N011008-009A-DUP** SampType: **DUP** TestCode: **8082_S** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90330**
Client ID: **ZZZZZZ** Batch ID: **43887** TestNo: **EPA 8082** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647184**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	17						0	0	20	
Aroclor 1221	ND	33						0	0	20	
Aroclor 1232	ND	17						0	0	20	
Aroclor 1242	ND	17						0	0	20	
Aroclor 1248	ND	17						0	0	20	
Aroclor 1254	ND	17						0	0	20	
Aroclor 1260	ND	17						0	0	20	
Surr: Decachlorobiphenyl	12.160		16.68		72.9	40	146		0		
Surr: Tetrachloro-m-xylene	11.834		16.68		71.0	32	109		0		

Sample ID: **N011009-006A-DUP** SampType: **DUP** TestCode: **8082_S** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90330**
Client ID: **ZZZZZZ** Batch ID: **43887** TestNo: **EPA 8082** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647193**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	16						0	0	20	
Aroclor 1221	ND	33						0	0	20	
Aroclor 1232	ND	16						0	0	20	
Aroclor 1242	ND	16						0	0	20	
Aroclor 1248	ND	16						0	0	20	
Aroclor 1254	ND	16						0	0	20	
Aroclor 1260	ND	16						0	0	20	
Surr: Decachlorobiphenyl	7.771		16.66		46.6	40	146		0		
Surr: Tetrachloro-m-xylene	7.289		16.66		43.8	32	109		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082_S

Sample ID: **N011008-001A-MS** SampType: **MS** TestCode: **8082_S** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90330**
Client ID: **ZZZZZZ** Batch ID: **43887** TestNo: **EPA 8082** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647202**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	178.525	17	166.9	0	107	43	142				
Aroclor 1260	145.982	17	166.9	0	87.5	34	146				
Surr: Decachlorobiphenyl	15.144		16.69		90.7	40	146				
Surr: Tetrachloro-m-xylene	11.894		16.69		71.3	32	109				

Sample ID: **N011008-001A-MSD** SampType: **MSD** TestCode: **8082_S** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90330**
Client ID: **ZZZZZZ** Batch ID: **43887** TestNo: **EPA 8082** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647203**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	151.696	16	166.7	0	91.0	43	142	178.5	16.2	20	
Aroclor 1260	131.449	16	166.7	0	78.9	34	146	146.0	10.5	20	
Surr: Decachlorobiphenyl	10.302		16.67		61.8	40	146		0		
Surr: Tetrachloro-m-xylene	7.742		16.67		46.4	32	109		0		

Sample ID: **N011009-006A-MS** SampType: **MS** TestCode: **8082_S** Units: **µg/Kg** Prep Date: **9/17/2013** RunNo: **90330**
Client ID: **ZZZZZZ** Batch ID: **43887** TestNo: **EPA 8082** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647205**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	124.342	16	166.2	0	74.8	43	142				
Aroclor 1260	92.394	16	166.2	0	55.6	34	146				
Surr: Decachlorobiphenyl	8.766		16.62		52.7	40	146				
Surr: Tetrachloro-m-xylene	9.060		16.62		54.5	32	109				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082_S

Sample ID: **LCS-43900_PCB** SampType: **LCS** TestCode: **8082_S** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90364**
Client ID: **LCSS** Batch ID: **43900** TestNo: **EPA 8082** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647648**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	134.743	16	166.7	0	80.8	56	121				
Aroclor 1260	138.819	16	166.7	0	83.3	62	121				
Surr: Decachlorobiphenyl	13.382		16.67		80.3	40	146				
Surr: Tetrachloro-m-xylene	10.244		16.67		61.5	32	109				

Sample ID: **MB-43900** SampType: **MBLK** TestCode: **8082_S** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90364**
Client ID: **PBS** Batch ID: **43900** TestNo: **EPA 8082** **EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647649**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	16									
Aroclor 1221	ND	33									
Aroclor 1232	ND	16									
Aroclor 1242	ND	16									
Aroclor 1248	ND	16									
Aroclor 1254	ND	16									
Aroclor 1260	ND	16									
Surr: Decachlorobiphenyl	13.938		16.67		83.6	40	146				
Surr: Tetrachloro-m-xylene	10.863		16.67		65.2	32	109				

Sample ID: **N011009-057A-DUP** SampType: **DUP** TestCode: **8082_S** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90364**
Client ID: **ZZZZZZ** Batch ID: **43900** TestNo: **EPA 8082** **EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1647652**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	16						0	0	20	
Aroclor 1221	ND	33						0	0	20	
Aroclor 1232	ND	16						0	0	20	
Aroclor 1242	ND	16						0	0	20	
Aroclor 1248	ND	16						0	0	20	
Aroclor 1254	ND	16						0	0	20	
Aroclor 1260	ND	16						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082_S

Sample ID: **N011009-057A-DUP** SampType: **DUP** TestCode: **8082_S** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90364**
Client ID: **ZZZZZZ** Batch ID: **43900** TestNo: **EPA 8082** **EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1647652**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	12.921		16.63		77.7	40	146		0		
Surr: Tetrachloro-m-xylene	12.856		16.63		77.3	32	109		0		

Sample ID: **N011009-056A-MS** SampType: **MS** TestCode: **8082_S** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90364**
Client ID: **ZZZZZZ** Batch ID: **43900** TestNo: **EPA 8082** **EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1647660**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	150.753	17	166.8	0	90.4	43	142				
Aroclor 1260	127.713	17	166.8	0	76.6	34	146				
Surr: Decachlorobiphenyl	12.556		16.68		75.3	40	146				
Surr: Tetrachloro-m-xylene	13.270		16.68		79.6	32	109				

Sample ID: **N011009-056A-MSD** SampType: **MSD** TestCode: **8082_S** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90364**
Client ID: **ZZZZZZ** Batch ID: **43900** TestNo: **EPA 8082** **EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1647661**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	157.891	16	166.7	0	94.7	43	142	150.8	4.63	20	
Aroclor 1260	136.969	16	166.7	0	82.2	34	146	127.7	6.99	20	
Surr: Decachlorobiphenyl	13.044		16.67		78.2	40	146		0		
Surr: Tetrachloro-m-xylene	13.921		16.67		83.5	32	109		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **Q130919LCS** SampType: **LCS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **LCSS** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647897**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	37.390	5.0	40.00	0	93.5	80	123				
1,1,1-Trichloroethane	36.470	5.0	40.00	0	91.2	71	127				
1,1,2,2-Tetrachloroethane	36.360	5.0	40.00	0	90.9	80	120				
1,1,2-Trichloroethane	38.530	5.0	40.00	0	96.3	80	120				
1,1-Dichloroethane	37.780	5.0	40.00	0	94.4	80	120				
1,1-Dichloroethene	36.420	5.0	40.00	0	91.1	80	121				
1,1-Dichloropropene	36.580	5.0	40.00	0	91.4	74	131				
1,2,3-Trichlorobenzene	40.970	5.0	40.00	0	102	64	137				
1,2,3-Trichloropropane	39.190	5.0	40.00	0	98.0	75	120				
1,2,4-Trichlorobenzene	41.550	5.0	40.00	0	104	75	128				
1,2,4-Trimethylbenzene	38.140	5.0	40.00	0	95.4	73	128				
1,2-Dibromo-3-chloropropane	37.010	10	40.00	0	92.5	53	143				
1,2-Dibromoethane	37.960	5.0	40.00	0	94.9	74	124				
1,2-Dichlorobenzene	38.400	5.0	40.00	0	96.0	80	120				
1,2-Dichloroethane	39.380	5.0	40.00	0	98.4	70	139				
1,2-Dichloropropane	38.240	5.0	40.00	0	95.6	80	120				
1,3,5-Trimethylbenzene	36.750	5.0	40.00	0	91.9	76	126				
1,3-Dichlorobenzene	39.070	5.0	40.00	0	97.7	80	120				
1,3-Dichloropropane	37.710	5.0	40.00	0	94.3	80	120				
1,4-Dichlorobenzene	39.980	5.0	40.00	0	100	80	120				
2,2-Dichloropropane	38.430	5.0	40.00	0	96.1	72	135				
2-Chlorotoluene	36.850	5.0	40.00	0	92.1	79	120				
4-Chlorotoluene	37.930	5.0	40.00	0	94.8	80	120				
4-Isopropyltoluene	37.220	5.0	40.00	0	93.0	76	126				
Benzene	37.820	5.0	40.00	0	94.6	80	120				
Bromobenzene	38.050	5.0	40.00	0	95.1	80	120				
Bromodichloromethane	38.270	5.0	40.00	0	95.7	79	131				
Bromoform	39.570	5.0	40.00	0	98.9	80	120				
Bromomethane	38.780	5.0	40.00	0	97.0	43	179				
Carbon tetrachloride	36.280	5.0	40.00	0	90.7	80	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **Q130919LCS** SampType: **LCS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **LCSS** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647897**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	38.310	5.0	40.00	0	95.8	80	120				
Chloroethane	37.110	5.0	40.00	0	92.8	32	181				
Chloroform	36.160	5.0	40.00	0	90.4	77	129				
Chloromethane	43.620	5.0	40.00	0	109	80	120				
cis-1,2-Dichloroethene	36.500	5.0	40.00	0	91.2	80	120				
cis-1,3-Dichloropropene	40.330	5.0	40.00	0	101	80	120				
Dibromochloromethane	37.470	5.0	40.00	0	93.7	80	122				
Dibromomethane	38.640	5.0	40.00	0	96.6	80	120				
Dichlorodifluoromethane	42.680	5.0	40.00	0	107	64	135				
Ethylbenzene	37.230	5.0	40.00	0	93.1	80	120				
Hexachlorobutadiene	36.810	5.0	40.00	0	92.0	69	132				
Isopropylbenzene	36.010	5.0	40.00	0	90.0	79	121				
m,p-Xylene	74.540	10	80.00	0	93.2	80	121				
Methylene chloride	38.700	5.0	40.00	0	96.8	74	123				
MTBE	36.930	5.0	40.00	0	92.3	56	140				
n-Butylbenzene	38.200	5.0	40.00	0	95.5	72	131				
n-Propylbenzene	36.890	5.0	40.00	0	92.2	79	122				
Naphthalene	38.370	5.0	40.00	0	95.9	69	126				
o-Xylene	37.570	5.0	40.00	0	93.9	80	120				
sec-Butylbenzene	36.000	5.0	40.00	0	90.0	74	127				
Styrene	37.420	5.0	40.00	0	93.6	80	120				
tert-Butylbenzene	35.870	5.0	40.00	0	89.7	75	125				
Tetrachloroethene	37.230	5.0	40.00	0	93.1	80	120				
Toluene	37.320	5.0	40.00	0	93.3	80	120				
trans-1,2-Dichloroethene	36.680	5.0	40.00	0	91.7	80	125				
Trichloroethene	37.870	5.0	40.00	0	94.7	80	120				
Trichlorofluoromethane	36.380	5.0	40.00	0	91.0	67	152				
Vinyl chloride	36.460	5.0	40.00	0	91.2	69	135				
Surr: 1,2-Dichloroethane-d4	46.230		50.00		92.5	63	139				
Surr: 4-Bromofluorobenzene	46.560		50.00		93.1	75	124				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **Q130919LCS** SampType: **LCS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **LCSS** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647897**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	46.890		50.00		93.8	70	133				
Surr: Toluene-d8	47.340		50.00		94.7	80	123				

Sample ID: **N011008-011AMSD** SampType: **MSD** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647899**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	38.580	5.0	40.00	0	96.5	58	149	37.06	4.02	20	
1,1,1-Trichloroethane	38.240	5.0	40.00	0	95.6	67	126	36.24	5.37	20	
1,1,2,2-Tetrachloroethane	37.130	5.0	40.00	0	92.8	18	193	34.91	6.16	20	
1,1,2-Trichloroethane	40.350	5.0	40.00	0	101	70	136	38.26	5.32	20	
1,1-Dichloroethane	39.980	5.0	40.00	0	100	65	134	37.64	6.03	20	
1,1-Dichloroethene	37.430	5.0	40.00	0	93.6	61	135	35.71	4.70	20	
1,1-Dichloropropene	35.880	5.0	40.00	0	89.7	68	125	34.44	4.10	20	
1,2,3-Trichlorobenzene	41.340	5.0	40.00	0	103	40	134	38.53	7.04	20	
1,2,3-Trichloropropane	36.250	5.0	40.00	0	90.6	38	167	34.20	5.82	20	
1,2,4-Trichlorobenzene	41.840	5.0	40.00	0	105	40	132	40.60	3.01	20	
1,2,4-Trimethylbenzene	37.300	5.0	40.00	0	93.3	58	123	36.13	3.19	20	
1,2-Dibromo-3-chloropropane	37.110	10	40.00	0	92.8	30	181	35.95	3.18	20	
1,2-Dibromoethane	40.750	5.0	40.00	0	102	67	139	37.89	7.27	20	
1,2-Dichlorobenzene	39.170	5.0	40.00	0	97.9	65	122	36.97	5.78	20	
1,2-Dichloroethane	40.480	5.0	40.00	0	101	63	149	39.11	3.44	20	
1,2-Dichloropropane	39.990	5.0	40.00	0	100	69	127	37.06	7.61	20	
1,3,5-Trimethylbenzene	36.010	5.0	40.00	0	90.0	58	122	34.64	3.88	20	
1,3-Dichlorobenzene	38.760	5.0	40.00	0	96.9	64	120	37.55	3.17	20	
1,3-Dichloropropane	39.550	5.0	40.00	0	98.9	64	141	37.77	4.60	20	
1,4-Dichlorobenzene	39.370	5.0	40.00	0	98.4	62	122	38.53	2.16	20	
2,2-Dichloropropane	40.440	5.0	40.00	0	101	62	138	39.20	3.11	20	
2-Chlorotoluene	36.300	5.0	40.00	0	90.8	59	124	34.95	3.79	20	
4-Chlorotoluene	37.130	5.0	40.00	0	92.8	60	123	36.24	2.43	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011008-011AMSD** SampType: **MSD** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647899**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Isopropyltoluene	36.100	5.0	40.00	0	90.3	50	124	34.64	4.13	20	
Benzene	38.470	5.0	40.00	0	96.2	72	122	36.17	6.16	20	
Bromobenzene	38.520	5.0	40.00	0	96.3	64	129	36.92	4.24	20	
Bromodichloromethane	40.350	5.0	40.00	0	101	67	142	37.54	7.22	20	
Bromoform	41.180	5.0	40.00	0	103	35	192	39.16	5.03	20	
Bromomethane	51.960	5.0	40.00	0	130	62	150	39.37	27.6	20	R
Carbon tetrachloride	36.180	5.0	40.00	0	90.4	56	142	33.90	6.51	20	
Chlorobenzene	39.450	5.0	40.00	0	98.6	71	120	37.78	4.32	20	
Chloroethane	38.690	5.0	40.00	0	96.7	55	149	35.12	9.67	20	
Chloroform	39.680	5.0	40.00	0.9300	96.9	70	135	37.60	5.38	20	
Chloromethane	41.000	5.0	40.00	0	103	37	151	40.87	0.318	20	
cis-1,2-Dichloroethene	39.040	5.0	40.00	0	97.6	69	131	37.10	5.10	20	
cis-1,3-Dichloropropene	41.220	5.0	40.00	0	103	71	129	39.05	5.41	20	
Dibromochloromethane	39.780	5.0	40.00	0	99.4	53	161	39.06	1.83	20	
Dibromomethane	41.940	5.0	40.00	0	105	66	145	38.02	9.80	20	
Dichlorodifluoromethane	38.700	5.0	40.00	0	96.8	52	135	38.74	0.103	20	
Ethylbenzene	36.990	5.0	40.00	0	92.5	65	120	36.19	2.19	20	
Hexachlorobutadiene	35.250	5.0	40.00	0	88.1	22	135	34.00	3.61	20	
Isopropylbenzene	35.090	5.0	40.00	0	87.7	60	121	33.44	4.82	20	
m,p-Xylene	75.230	10	80.00	0	94.0	65	120	73.20	2.74	20	
Methylene chloride	39.050	5.0	40.00	0	97.6	55	138	40.67	4.06	20	
MTBE	41.530	5.0	40.00	0	104	64	149	38.97	6.36	20	
n-Butylbenzene	36.730	5.0	40.00	0	91.8	43	126	35.37	3.77	20	
n-Propylbenzene	35.610	5.0	40.00	0	89.0	56	122	34.25	3.89	20	
Naphthalene	38.690	5.0	40.00	0	96.7	48	139	37.10	4.20	20	
o-Xylene	38.190	5.0	40.00	0	95.5	67	118	37.29	2.38	20	
sec-Butylbenzene	34.490	5.0	40.00	0	86.2	50	123	33.60	2.61	20	
Styrene	38.770	5.0	40.00	0	96.9	57	129	37.53	3.25	20	
tert-Butylbenzene	35.420	5.0	40.00	0	88.6	54	121	33.99	4.12	20	
Tetrachloroethene	36.960	5.0	40.00	0	92.4	35	149	35.87	2.99	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011008-011AMSD** SampType: **MSD** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647899**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	37.980	5.0	40.00	0	95.0	68	120	35.98	5.41	20	
trans-1,2-Dichloroethene	38.120	5.0	40.00	0	95.3	62	139	36.60	4.07	20	
Trichloroethene	39.120	5.0	40.00	0	97.8	63	134	36.70	6.38	20	
Trichlorofluoromethane	37.980	5.0	40.00	0	95.0	34	179	36.09	5.10	20	
Vinyl chloride	38.820	5.0	40.00	0	97.0	57	136	40.95	5.34	20	
Surr: 1,2-Dichloroethane-d4	49.580		50.00		99.2	63	139		0		
Surr: 4-Bromofluorobenzene	47.030		50.00		94.1	75	124		0		
Surr: Dibromofluoromethane	49.160		50.00		98.3	70	133		0		
Surr: Toluene-d8	46.280		50.00		92.6	80	123		0		

Sample ID: **N011008-011AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647900**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	37.060	5.0	40.00	0	92.6	58	149				
1,1,1-Trichloroethane	36.240	5.0	40.00	0	90.6	67	126				
1,1,2,2-Tetrachloroethane	34.910	5.0	40.00	0	87.3	18	193				
1,1,2-Trichloroethane	38.260	5.0	40.00	0	95.7	70	136				
1,1-Dichloroethane	37.640	5.0	40.00	0	94.1	65	134				
1,1-Dichloroethene	35.710	5.0	40.00	0	89.3	61	135				
1,1-Dichloropropene	34.440	5.0	40.00	0	86.1	68	125				
1,2,3-Trichlorobenzene	38.530	5.0	40.00	0	96.3	40	134				
1,2,3-Trichloropropane	34.200	5.0	40.00	0	85.5	38	167				
1,2,4-Trichlorobenzene	40.600	5.0	40.00	0	102	40	132				
1,2,4-Trimethylbenzene	36.130	5.0	40.00	0	90.3	58	123				
1,2-Dibromo-3-chloropropane	35.950	10	40.00	0	89.9	30	181				
1,2-Dibromoethane	37.890	5.0	40.00	0	94.7	67	139				
1,2-Dichlorobenzene	36.970	5.0	40.00	0	92.4	65	122				
1,2-Dichloroethane	39.110	5.0	40.00	0	97.8	63	149				
1,2-Dichloropropane	37.060	5.0	40.00	0	92.6	69	127				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011008-011AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647900**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	34.640	5.0	40.00	0	86.6	58	122				
1,3-Dichlorobenzene	37.550	5.0	40.00	0	93.9	64	120				
1,3-Dichloropropane	37.770	5.0	40.00	0	94.4	64	141				
1,4-Dichlorobenzene	38.530	5.0	40.00	0	96.3	62	122				
2,2-Dichloropropane	39.200	5.0	40.00	0	98.0	62	138				
2-Chlorotoluene	34.950	5.0	40.00	0	87.4	59	124				
4-Chlorotoluene	36.240	5.0	40.00	0	90.6	60	123				
4-Isopropyltoluene	34.640	5.0	40.00	0	86.6	50	124				
Benzene	36.170	5.0	40.00	0	90.4	72	122				
Bromobenzene	36.920	5.0	40.00	0	92.3	64	129				
Bromodichloromethane	37.540	5.0	40.00	0	93.8	67	142				
Bromoform	39.160	5.0	40.00	0	97.9	35	192				
Bromomethane	39.370	5.0	40.00	0	98.4	62	150				
Carbon tetrachloride	33.900	5.0	40.00	0	84.8	56	142				
Chlorobenzene	37.780	5.0	40.00	0	94.4	71	120				
Chloroethane	35.120	5.0	40.00	0	87.8	55	149				
Chloroform	37.600	5.0	40.00	0.9300	91.7	70	135				
Chloromethane	40.870	5.0	40.00	0	102	37	151				
cis-1,2-Dichloroethene	37.100	5.0	40.00	0	92.8	69	131				
cis-1,3-Dichloropropene	39.050	5.0	40.00	0	97.6	71	129				
Dibromochloromethane	39.060	5.0	40.00	0	97.6	53	161				
Dibromomethane	38.020	5.0	40.00	0	95.1	66	145				
Dichlorodifluoromethane	38.740	5.0	40.00	0	96.9	52	135				
Ethylbenzene	36.190	5.0	40.00	0	90.5	65	120				
Hexachlorobutadiene	34.000	5.0	40.00	0	85.0	22	135				
Isopropylbenzene	33.440	5.0	40.00	0	83.6	60	121				
m,p-Xylene	73.200	10	80.00	0	91.5	65	120				
Methylene chloride	40.670	5.0	40.00	0	102	55	138				
MTBE	38.970	5.0	40.00	0	97.4	64	149				
n-Butylbenzene	35.370	5.0	40.00	0	88.4	43	126				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011008-011AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647900**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	34.250	5.0	40.00	0	85.6	56	122				
Naphthalene	37.100	5.0	40.00	0	92.8	48	139				
o-Xylene	37.290	5.0	40.00	0	93.2	67	118				
sec-Butylbenzene	33.600	5.0	40.00	0	84.0	50	123				
Styrene	37.530	5.0	40.00	0	93.8	57	129				
tert-Butylbenzene	33.990	5.0	40.00	0	85.0	54	121				
Tetrachloroethene	35.870	5.0	40.00	0	89.7	35	149				
Toluene	35.980	5.0	40.00	0	90.0	68	120				
trans-1,2-Dichloroethene	36.600	5.0	40.00	0	91.5	62	139				
Trichloroethene	36.700	5.0	40.00	0	91.8	63	134				
Trichlorofluoromethane	36.090	5.0	40.00	0	90.2	34	179				
Vinyl chloride	40.950	5.0	40.00	0	102	57	136				
Surr: 1,2-Dichloroethane-d4	48.460		50.00		96.9	63	139				
Surr: 4-Bromofluorobenzene	46.720		50.00		93.4	75	124				
Surr: Dibromofluoromethane	48.180		50.00		96.4	70	133				
Surr: Toluene-d8	45.200		50.00		90.4	80	123				

Sample ID: **Q130919MB2** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **PBS** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647902**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **Q130919MB2** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **PBS** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647902**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **Q130919MB2** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **PBS** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647902**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	1.080	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	43.520		50.00		87.0	63	139				
Surr: 4-Bromofluorobenzene	45.080		50.00		90.2	75	124				
Surr: Dibromofluoromethane	43.670		50.00		87.3	70	133				
Surr: Toluene-d8	44.240		50.00		88.5	80	123				

Sample ID: **Q130919MB3** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **PBS** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647903**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **Q130919MB3** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **PBS** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647903**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **Q130919MB3** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **PBS** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647903**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	45.310		50.00		90.6	63	139				
Surr: 4-Bromofluorobenzene	44.210		50.00		88.4	75	124				
Surr: Dibromofluoromethane	44.550		50.00		89.1	70	133				
Surr: Toluene-d8	45.320		50.00		90.6	80	123				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011008-005ADUP** SampType: **DUP** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647914**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0						0	0	20	
1,1,1-Trichloroethane	ND	5.0						0	0	20	
1,1,2,2-Tetrachloroethane	ND	5.0						0	0	20	
1,1,2-Trichloroethane	ND	5.0						0	0	20	
1,1-Dichloroethane	ND	5.0						0	0	20	
1,1-Dichloroethene	ND	5.0						0	0	20	
1,1-Dichloropropene	ND	5.0						0	0	20	
1,2,3-Trichlorobenzene	ND	5.0						0	0	20	
1,2,3-Trichloropropane	ND	5.0						0	0	20	
1,2,4-Trichlorobenzene	ND	5.0						0	0	20	
1,2,4-Trimethylbenzene	ND	5.0						0	0	20	
1,2-Dibromo-3-chloropropane	ND	10						0	0	20	
1,2-Dibromoethane	ND	5.0						0	0	20	
1,2-Dichlorobenzene	ND	5.0						0	0	20	
1,2-Dichloroethane	ND	5.0						0	0	20	
1,2-Dichloropropane	ND	5.0						0	0	20	
1,3,5-Trimethylbenzene	ND	5.0						0	0	20	
1,3-Dichlorobenzene	ND	5.0						0	0	20	
1,3-Dichloropropane	ND	5.0						0	0	20	
1,4-Dichlorobenzene	ND	5.0						0	0	20	
2,2-Dichloropropane	ND	5.0						0	0	20	
2-Chlorotoluene	ND	5.0						0	0	20	
4-Chlorotoluene	ND	5.0						0	0	20	
4-Isopropyltoluene	ND	5.0						0	0	20	
Benzene	ND	5.0						0	0	20	
Bromobenzene	ND	5.0						0	0	20	
Bromodichloromethane	ND	5.0						0	0	20	
Bromoform	ND	5.0						0	0	20	
Bromomethane	ND	5.0						0	0	20	
Carbon tetrachloride	ND	5.0						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011008-005ADUP** SampType: **DUP** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647914**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	5.0						0	0	20	
Chloroethane	ND	5.0						0	0	20	
Chloroform	ND	5.0						0	0	20	
Chloromethane	ND	5.0						0	0	20	
cis-1,2-Dichloroethene	ND	5.0						0	0	20	
cis-1,3-Dichloropropene	ND	5.0						0	0	20	
Dibromochloromethane	ND	5.0						0	0	20	
Dibromomethane	ND	5.0						0	0	20	
Dichlorodifluoromethane	ND	5.0						0	0	20	
Ethylbenzene	ND	5.0						0	0	20	
Hexachlorobutadiene	ND	5.0						0	0	20	
Isopropylbenzene	ND	5.0						0	0	20	
m,p-Xylene	ND	10						0	0	20	
Methylene chloride	ND	5.0						0	0	20	
MTBE	ND	5.0						0	0	20	
n-Butylbenzene	ND	5.0						0	0	20	
n-Propylbenzene	ND	5.0						0	0	20	
Naphthalene	ND	5.0						0	0	20	
o-Xylene	ND	5.0						0	0	20	
sec-Butylbenzene	ND	5.0						0	0	20	
Styrene	ND	5.0						0	0	20	
tert-Butylbenzene	ND	5.0						0	0	20	
Tetrachloroethene	ND	5.0						0	0	20	
Toluene	ND	5.0						0	0	20	
trans-1,2-Dichloroethene	ND	5.0						0	0	20	
Trichloroethene	ND	5.0						0	0	20	
Trichlorofluoromethane	ND	5.0						0	0	20	
Vinyl chloride	ND	5.0						0	0	20	
Surr: 1,2-Dichloroethane-d4	45.840		50.00		91.7	63	139		0		
Surr: 4-Bromofluorobenzene	47.590		50.00		95.2	75	124		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011008-005ADUP** SampType: **DUP** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647914**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	46.120		50.00		92.2	70	133		0		
Surr: Toluene-d8	49.260		50.00		98.5	80	123		0		

Sample ID: **N011009-003ADUP** SampType: **DUP** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647920**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0						0	0	20	
1,1,1-Trichloroethane	ND	5.0						0	0	20	
1,1,2,2-Tetrachloroethane	ND	5.0						0	0	20	
1,1,2-Trichloroethane	ND	5.0						0	0	20	
1,1-Dichloroethane	ND	5.0						0	0	20	
1,1-Dichloroethene	ND	5.0						0	0	20	
1,1-Dichloropropene	ND	5.0						0	0	20	
1,2,3-Trichlorobenzene	ND	5.0						0	0	20	
1,2,3-Trichloropropane	ND	5.0						0	0	20	
1,2,4-Trichlorobenzene	ND	5.0						0	0	20	
1,2,4-Trimethylbenzene	ND	5.0						0	0	20	
1,2-Dibromo-3-chloropropane	ND	10						0	0	20	
1,2-Dibromoethane	ND	5.0						0	0	20	
1,2-Dichlorobenzene	ND	5.0						0	0	20	
1,2-Dichloroethane	ND	5.0						0	0	20	
1,2-Dichloropropane	ND	5.0						0	0	20	
1,3,5-Trimethylbenzene	ND	5.0						0	0	20	
1,3-Dichlorobenzene	ND	5.0						0	0	20	
1,3-Dichloropropane	ND	5.0						0	0	20	
1,4-Dichlorobenzene	ND	5.0						0	0	20	
2,2-Dichloropropane	ND	5.0						0	0	20	
2-Chlorotoluene	ND	5.0						0	0	20	
4-Chlorotoluene	ND	5.0						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011009-003ADUP** SampType: **DUP** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647920**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Isopropyltoluene	ND	5.0						0	0	20	
Benzene	ND	5.0						0	0	20	
Bromobenzene	ND	5.0						0	0	20	
Bromodichloromethane	ND	5.0						0	0	20	
Bromoform	ND	5.0						0	0	20	
Bromomethane	ND	5.0						0	0	20	
Carbon tetrachloride	ND	5.0						0	0	20	
Chlorobenzene	ND	5.0						0	0	20	
Chloroethane	ND	5.0						0	0	20	
Chloroform	ND	5.0						0	0	20	
Chloromethane	ND	5.0						0	0	20	
cis-1,2-Dichloroethene	ND	5.0						0	0	20	
cis-1,3-Dichloropropene	ND	5.0						0	0	20	
Dibromochloromethane	ND	5.0						0	0	20	
Dibromomethane	ND	5.0						0	0	20	
Dichlorodifluoromethane	ND	5.0						0	0	20	
Ethylbenzene	ND	5.0						0	0	20	
Hexachlorobutadiene	ND	5.0						0	0	20	
Isopropylbenzene	ND	5.0						0	0	20	
m,p-Xylene	ND	10						0	0	20	
Methylene chloride	ND	5.0						0	0	20	
MTBE	ND	5.0						0	0	20	
n-Butylbenzene	ND	5.0						0	0	20	
n-Propylbenzene	ND	5.0						0	0	20	
Naphthalene	ND	5.0						0	0	20	
o-Xylene	ND	5.0						0	0	20	
sec-Butylbenzene	ND	5.0						0	0	20	
Styrene	ND	5.0						0	0	20	
tert-Butylbenzene	ND	5.0						0	0	20	
Tetrachloroethene	ND	5.0						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011009-003ADUP** SampType: **DUP** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647920**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	ND	5.0						0	0	20	
trans-1,2-Dichloroethene	ND	5.0						0	0	20	
Trichloroethene	ND	5.0						0	0	20	
Trichlorofluoromethane	ND	5.0						0	0	20	
Vinyl chloride	ND	5.0						0	0	20	
Surr: 1,2-Dichloroethane-d4	51.800		50.00		104	63	139		0		
Surr: 4-Bromofluorobenzene	46.420		50.00		92.8	75	124		0		
Surr: Dibromofluoromethane	17.390		50.00		34.8	70	133		0		S
Surr: Toluene-d8	47.490		50.00		95.0	80	123		0		

Sample ID: **N011008-015AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647924**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	32.080	5.0	40.00	0	80.2	58	149				
1,1,1-Trichloroethane	32.650	5.0	40.00	0	81.6	67	126				
1,1,2,2-Tetrachloroethane	28.740	5.0	40.00	0	71.8	18	193				
1,1,2-Trichloroethane	34.570	5.0	40.00	0	86.4	70	136				
1,1-Dichloroethane	34.190	5.0	40.00	0	85.5	65	134				
1,1-Dichloroethene	31.490	5.0	40.00	0	78.7	61	135				
1,1-Dichloropropene	31.830	5.0	40.00	0	79.6	68	125				
1,2,3-Trichlorobenzene	31.370	5.0	40.00	0	78.4	40	134				
1,2,3-Trichloropropane	28.830	5.0	40.00	0	72.1	38	167				
1,2,4-Trichlorobenzene	32.360	5.0	40.00	0	80.9	40	132				
1,2,4-Trimethylbenzene	31.270	5.0	40.00	0	78.2	58	123				
1,2-Dibromo-3-chloropropane	26.720	10	40.00	0	66.8	30	181				
1,2-Dibromoethane	34.830	5.0	40.00	0	87.1	67	139				
1,2-Dichlorobenzene	32.570	5.0	40.00	0	81.4	65	122				
1,2-Dichloroethane	35.560	5.0	40.00	0	88.9	63	149				
1,2-Dichloropropane	35.040	5.0	40.00	0	87.6	69	127				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011008-015AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647924**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	30.330	5.0	40.00	0	75.8	58	122				
1,3-Dichlorobenzene	32.070	5.0	40.00	0	80.2	64	120				
1,3-Dichloropropane	33.090	5.0	40.00	0	82.7	64	141				
1,4-Dichlorobenzene	33.060	5.0	40.00	0	82.6	62	122				
2,2-Dichloropropane	34.510	5.0	40.00	0	86.3	62	138				
2-Chlorotoluene	30.800	5.0	40.00	0	77.0	59	124				
4-Chlorotoluene	31.750	5.0	40.00	0	79.4	60	123				
4-Isopropyltoluene	29.740	5.0	40.00	0	74.4	50	124				
Benzene	34.080	5.0	40.00	0	85.2	72	122				
Bromobenzene	32.510	5.0	40.00	0	81.3	64	129				
Bromodichloromethane	33.770	5.0	40.00	0	84.4	67	142				
Bromoform	31.570	5.0	40.00	0	78.9	35	192				
Bromomethane	49.370	5.0	40.00	0	123	62	150				
Carbon tetrachloride	30.660	5.0	40.00	0	76.7	56	142				
Chlorobenzene	33.800	5.0	40.00	0	84.5	71	120				
Chloroethane	50.320	5.0	40.00	0	126	55	149				
Chloroform	33.660	5.0	40.00	0	84.2	70	135				
Chloromethane	66.650	5.0	40.00	0	167	37	151				S
cis-1,2-Dichloroethene	33.350	5.0	40.00	0	83.4	69	131				
cis-1,3-Dichloropropene	34.690	5.0	40.00	0	86.7	71	129				
Dibromochloromethane	31.720	5.0	40.00	0	79.3	53	161				
Dibromomethane	34.970	5.0	40.00	0	87.4	66	145				
Dichlorodifluoromethane	61.060	5.0	40.00	0	153	52	135				S
Ethylbenzene	32.580	5.0	40.00	0	81.4	65	120				
Hexachlorobutadiene	27.660	5.0	40.00	0	69.2	22	135				
Isopropylbenzene	29.670	5.0	40.00	0	74.2	60	121				
m,p-Xylene	65.980	10	80.00	0	82.5	65	120				
Methylene chloride	55.700	5.0	40.00	0	139	55	138				S
MTBE	32.470	5.0	40.00	0	81.2	64	149				
n-Butylbenzene	30.390	5.0	40.00	0	76.0	43	126				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **N011008-015AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90356**
Client ID: **ZZZZZZ** Batch ID: **Q13VS001** TestNo: **EPA 8260B** Analysis Date: **9/19/2013** SeqNo: **1647924**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	30.670	5.0	40.00	0	76.7	56	122				
Naphthalene	28.350	5.0	40.00	0	70.9	48	139				
o-Xylene	33.100	5.0	40.00	0	82.8	67	118				
sec-Butylbenzene	29.330	5.0	40.00	0	73.3	50	123				
Styrene	33.480	5.0	40.00	0	83.7	57	129				
tert-Butylbenzene	29.870	5.0	40.00	0	74.7	54	121				
Tetrachloroethene	31.170	5.0	40.00	0	77.9	35	149				
Toluene	33.790	5.0	40.00	0	84.5	68	120				
trans-1,2-Dichloroethene	32.900	5.0	40.00	0	82.2	62	139				
Trichloroethene	34.370	5.0	40.00	0	85.9	63	134				
Trichlorofluoromethane	32.160	5.0	40.00	0	80.4	34	179				
Vinyl chloride	48.260	5.0	40.00	0	121	57	136				
Surr: 1,2-Dichloroethane-d4	45.810		50.00		91.6	63	139				
Surr: 4-Bromofluorobenzene	43.540		50.00		87.1	75	124				
Surr: Dibromofluoromethane	45.560		50.00		91.1	70	133				
Surr: Toluene-d8	44.070		50.00		88.1	80	123				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **Q130920LCS** SampType: **LCS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90398**
Client ID: **LCSS** Batch ID: **Q13VS002** TestNo: **EPA 8260B** Analysis Date: **9/20/2013** SeqNo: **1648871**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	37.870	5.0	40.00	0	94.7	80	123				
1,1,1-Trichloroethane	37.780	5.0	40.00	0	94.4	71	127				
1,1,2,2-Tetrachloroethane	34.350	5.0	40.00	0	85.9	80	120				
1,1,2-Trichloroethane	36.290	5.0	40.00	0	90.7	80	120				
1,1-Dichloroethane	37.970	5.0	40.00	0	94.9	80	120				
1,1-Dichloroethene	36.290	5.0	40.00	0	90.7	80	121				
1,1-Dichloropropene	36.770	5.0	40.00	0	91.9	74	131				
1,2,3-Trichlorobenzene	39.610	5.0	40.00	0	99.0	64	137				
1,2,3-Trichloropropane	32.510	5.0	40.00	0	81.3	75	120				
1,2,4-Trichlorobenzene	40.820	5.0	40.00	0	102	75	128				
1,2,4-Trimethylbenzene	37.130	5.0	40.00	0	92.8	73	128				
1,2-Dibromo-3-chloropropane	30.500	10	40.00	0	76.2	53	143				
1,2-Dibromoethane	36.360	5.0	40.00	0	90.9	74	124				
1,2-Dichlorobenzene	37.410	5.0	40.00	0	93.5	80	120				
1,2-Dichloroethane	38.530	5.0	40.00	0	96.3	70	139				
1,2-Dichloropropane	38.550	5.0	40.00	0	96.4	80	120				
1,3,5-Trimethylbenzene	36.900	5.0	40.00	0	92.2	76	126				
1,3-Dichlorobenzene	38.190	5.0	40.00	0	95.5	80	120				
1,3-Dichloropropane	36.540	5.0	40.00	0	91.4	80	120				
1,4-Dichlorobenzene	38.560	5.0	40.00	0	96.4	80	120				
2,2-Dichloropropane	38.880	5.0	40.00	0	97.2	72	135				
2-Chlorotoluene	36.690	5.0	40.00	0	91.7	79	120				
4-Chlorotoluene	37.250	5.0	40.00	0	93.1	80	120				
4-Isopropyltoluene	37.250	5.0	40.00	0	93.1	76	126				
Benzene	38.070	5.0	40.00	0	95.2	80	120				
Bromobenzene	37.380	5.0	40.00	0	93.5	80	120				
Bromodichloromethane	38.430	5.0	40.00	0	96.1	79	131				
Bromoform	36.130	5.0	40.00	0	90.3	80	120				
Bromomethane	43.440	5.0	40.00	0	109	43	179				
Carbon tetrachloride	37.110	5.0	40.00	0	92.8	80	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **Q130920LCS** SampType: **LCS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90398**
Client ID: **LCSS** Batch ID: **Q13VS002** TestNo: **EPA 8260B** Analysis Date: **9/20/2013** SeqNo: **1648871**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	38.220	5.0	40.00	0	95.6	80	120				
Chloroethane	40.360	5.0	40.00	0	101	32	181				
Chloroform	37.340	5.0	40.00	0	93.4	77	129				
Chloromethane	41.270	5.0	40.00	0	103	80	120				
cis-1,2-Dichloroethene	36.800	5.0	40.00	0	92.0	80	120				
cis-1,3-Dichloropropene	38.490	5.0	40.00	0	96.2	80	120				
Dibromochloromethane	36.680	5.0	40.00	0	91.7	80	122				
Dibromomethane	36.770	5.0	40.00	0	91.9	80	120				
Dichlorodifluoromethane	42.460	5.0	40.00	0	106	64	135				
Ethylbenzene	37.230	5.0	40.00	0	93.1	80	120				
Hexachlorobutadiene	36.590	5.0	40.00	0	91.5	69	132				
Isopropylbenzene	35.670	5.0	40.00	0	89.2	79	121				
m,p-Xylene	74.560	10	80.00	0	93.2	80	121				
Methylene chloride	43.610	5.0	40.00	0	109	74	123				
MTBE	35.630	5.0	40.00	0	89.1	56	140				
n-Butylbenzene	38.310	5.0	40.00	0	95.8	72	131				
n-Propylbenzene	36.370	5.0	40.00	0	90.9	79	122				
Naphthalene	34.460	5.0	40.00	0	86.2	69	126				
o-Xylene	37.290	5.0	40.00	0	93.2	80	120				
sec-Butylbenzene	36.230	5.0	40.00	0	90.6	74	127				
Styrene	37.160	5.0	40.00	0	92.9	80	120				
tert-Butylbenzene	36.330	5.0	40.00	0	90.8	75	125				
Tetrachloroethene	37.100	5.0	40.00	0	92.8	80	120				
Toluene	37.260	5.0	40.00	0	93.2	80	120				
trans-1,2-Dichloroethene	37.000	5.0	40.00	0	92.5	80	125				
Trichloroethene	38.830	5.0	40.00	0	97.1	80	120				
Trichlorofluoromethane	37.350	5.0	40.00	0	93.4	67	152				
Vinyl chloride	39.530	5.0	40.00	0	98.8	69	135				
Surr: 1,2-Dichloroethane-d4	45.920		50.00		91.8	63	139				
Surr: 4-Bromofluorobenzene	45.890		50.00		91.8	75	124				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **Q130920LCS** SampType: **LCS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90398**
Client ID: **LCSS** Batch ID: **Q13VS002** TestNo: **EPA 8260B** Analysis Date: **9/20/2013** SeqNo: **1648871**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	47.740		50.00		95.5	70	133				
Surr: Toluene-d8	46.070		50.00		92.1	80	123				

Sample ID: **Q130920MB2** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90398**
Client ID: **PBS** Batch ID: **Q13VS002** TestNo: **EPA 8260B** Analysis Date: **9/20/2013** SeqNo: **1648872**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **Q130920MB2** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90398**
Client ID: **PBS** Batch ID: **Q13VS002** TestNo: **EPA 8260B** Analysis Date: **9/20/2013** SeqNo: **1648872**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **Q130920MB2** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90398**
Client ID: **PBS** Batch ID: **Q13VS002** TestNo: **EPA 8260B** Analysis Date: **9/20/2013** SeqNo: **1648872**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	40.310		50.00		80.6	63	139				
Surr: 4-Bromofluorobenzene	45.870		50.00		91.7	75	124				
Surr: Dibromofluoromethane	42.990		50.00		86.0	70	133				
Surr: Toluene-d8	48.830		50.00		97.7	80	123				

Sample ID: **Q130920MB3** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90398**
Client ID: **PBS** Batch ID: **Q13VS002** TestNo: **EPA 8260B** Analysis Date: **9/20/2013** SeqNo: **1648873**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **Q130920MB3** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90398**
Client ID: **PBS** Batch ID: **Q13VS002** TestNo: **EPA 8260B** Analysis Date: **9/20/2013** SeqNo: **1648873**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **Q130920MB3** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90398**
Client ID: **PBS** Batch ID: **Q13VS002** TestNo: **EPA 8260B** Analysis Date: **9/20/2013** SeqNo: **1648873**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	43.710		50.00		87.4	63	139				
Surr: 4-Bromofluorobenzene	44.620		50.00		89.2	75	124				
Surr: Dibromofluoromethane	43.230		50.00		86.5	70	133				
Surr: Toluene-d8	44.730		50.00		89.5	80	123				

Sample ID: **N011009-015AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90398**
Client ID: **ZZZZZZ** Batch ID: **Q13VS002** TestNo: **EPA 8260B** Analysis Date: **9/20/2013** SeqNo: **1648886**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	34.100	5.0	40.00	0	85.2	58	149				
1,1,1-Trichloroethane	34.200	5.0	40.00	0	85.5	67	126				
1,1,2,2-Tetrachloroethane	32.670	5.0	40.00	0	81.7	18	193				
1,1,2-Trichloroethane	33.780	5.0	40.00	0	84.4	70	136				
1,1-Dichloroethane	34.910	5.0	40.00	0	87.3	65	134				
1,1-Dichloroethene	33.810	5.0	40.00	0	84.5	61	135				
1,1-Dichloropropene	31.650	5.0	40.00	0	79.1	68	125				
1,2,3-Trichlorobenzene	32.150	5.0	40.00	0	80.4	40	134				
1,2,3-Trichloropropane	33.950	5.0	40.00	0	84.9	38	167				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011009-015AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90398**
Client ID: **ZZZZZZ** Batch ID: **Q13VS002** TestNo: **EPA 8260B** Analysis Date: **9/20/2013** SeqNo: **1648886**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	33.690	5.0	40.00	0	84.2	40	132				
1,2,4-Trimethylbenzene	34.800	5.0	40.00	0	87.0	58	123				
1,2-Dibromo-3-chloropropane	32.070	10	40.00	0	80.2	30	181				
1,2-Dibromoethane	35.180	5.0	40.00	0	88.0	67	139				
1,2-Dichlorobenzene	34.770	5.0	40.00	0	86.9	65	122				
1,2-Dichloroethane	37.290	5.0	40.00	0	93.2	63	149				
1,2-Dichloropropane	34.880	5.0	40.00	0	87.2	69	127				
1,3,5-Trimethylbenzene	33.640	5.0	40.00	0	84.1	58	122				
1,3-Dichlorobenzene	35.390	5.0	40.00	0	88.5	64	120				
1,3-Dichloropropane	34.840	5.0	40.00	0	87.1	64	141				
1,4-Dichlorobenzene	35.890	5.0	40.00	0	89.7	62	122				
2,2-Dichloropropane	34.310	5.0	40.00	0	85.8	62	138				
2-Chlorotoluene	34.220	5.0	40.00	0	85.6	59	124				
4-Chlorotoluene	34.380	5.0	40.00	0	86.0	60	123				
4-Isopropyltoluene	33.500	5.0	40.00	1.170	80.8	50	124				
Benzene	34.130	5.0	40.00	0	85.3	72	122				
Bromobenzene	36.610	5.0	40.00	0	91.5	64	129				
Bromodichloromethane	34.730	5.0	40.00	0	86.8	67	142				
Bromoform	35.160	5.0	40.00	0	87.9	35	192				
Bromomethane	54.160	5.0	40.00	0	135	62	150				
Carbon tetrachloride	31.670	5.0	40.00	0	79.2	56	142				
Chlorobenzene	35.520	5.0	40.00	0	88.8	71	120				
Chloroethane	56.870	5.0	40.00	0	142	55	149				
Chloroform	34.660	5.0	40.00	0	86.7	70	135				
Chloromethane	66.240	5.0	40.00	0	166	37	151				S
cis-1,2-Dichloroethene	34.100	5.0	40.00	0	85.2	69	131				
cis-1,3-Dichloropropene	34.400	5.0	40.00	0	86.0	71	129				
Dibromochloromethane	34.570	5.0	40.00	0	86.4	53	161				
Dibromomethane	35.800	5.0	40.00	0	89.5	66	145				
Dichlorodifluoromethane	64.120	5.0	40.00	0	160	52	135				S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **N011009-015AMS**	SampType: **MS**	TestCode: **8260SOIL**	Units: **µg/Kg**	Prep Date:	RunNo: **90398**
Client ID: **ZZZZZZ**	Batch ID: **Q13VS002**	TestNo: **EPA 8260B**		Analysis Date: **9/20/2013**	SeqNo: **1648886**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	34.080	5.0	40.00	0	85.2	65	120				
Hexachlorobutadiene	28.650	5.0	40.00	0	71.6	22	135				
Isopropylbenzene	33.050	5.0	40.00	0	82.6	60	121				
m,p-Xylene	68.800	10	80.00	0	86.0	65	120				
Methylene chloride	53.670	5.0	40.00	0	134	55	138				
MTBE	32.680	5.0	40.00	0	81.7	64	149				
n-Butylbenzene	32.560	5.0	40.00	0	81.4	43	126				
n-Propylbenzene	33.270	5.0	40.00	0	83.2	56	122				
Naphthalene	29.730	5.0	40.00	0	74.3	48	139				
o-Xylene	34.940	5.0	40.00	0	87.4	67	118				
sec-Butylbenzene	32.300	5.0	40.00	0	80.8	50	123				
Styrene	34.300	5.0	40.00	0	85.8	57	129				
tert-Butylbenzene	33.080	5.0	40.00	0	82.7	54	121				
Tetrachloroethene	33.310	5.0	40.00	0	83.3	35	149				
Toluene	34.740	5.0	40.00	0	86.9	68	120				
trans-1,2-Dichloroethene	33.320	5.0	40.00	0	83.3	62	139				
Trichloroethene	34.590	5.0	40.00	0	86.5	63	134				
Trichlorofluoromethane	33.750	5.0	40.00	0	84.4	34	179				
Vinyl chloride	50.470	5.0	40.00	0	126	57	136				
Surr: 1,2-Dichloroethane-d4	46.150		50.00		92.3	63	139				
Surr: 4-Bromofluorobenzene	44.380		50.00		88.8	75	124				
Surr: Dibromofluoromethane	47.440		50.00		94.9	70	133				
Surr: Toluene-d8	45.750		50.00		91.5	80	123				

Sample ID: **N011009-015AMSD**	SampType: **MSD**	TestCode: **8260SOIL**	Units: **µg/Kg**	Prep Date:	RunNo: **90398**
Client ID: **ZZZZZZ**	Batch ID: **Q13VS002**	TestNo: **EPA 8260B**		Analysis Date: **9/20/2013**	SeqNo: **1648887**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	36.530	5.0	40.00	0	91.3	58	149	34.10	6.88	20	
1,1,1-Trichloroethane	35.640	5.0	40.00	0	89.1	67	126	34.20	4.12	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011009-015AMSD** SampType: **MSD** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90398**
Client ID: **ZZZZZZ** Batch ID: **Q13VS002** TestNo: **EPA 8260B** Analysis Date: **9/20/2013** SeqNo: **1648887**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2,2-Tetrachloroethane	35.940	5.0	40.00	0	89.8	18	193	32.67	9.53	20	
1,1,2-Trichloroethane	38.020	5.0	40.00	0	95.1	70	136	33.78	11.8	20	
1,1-Dichloroethane	36.960	5.0	40.00	0	92.4	65	134	34.91	5.70	20	
1,1-Dichloroethene	34.400	5.0	40.00	0	86.0	61	135	33.81	1.73	20	
1,1-Dichloropropene	33.120	5.0	40.00	0	82.8	68	125	31.65	4.54	20	
1,2,3-Trichlorobenzene	34.940	5.0	40.00	0	87.4	40	134	32.15	8.32	20	
1,2,3-Trichloropropane	35.500	5.0	40.00	0	88.8	38	167	33.95	4.46	20	
1,2,4-Trichlorobenzene	36.010	5.0	40.00	0	90.0	40	132	33.69	6.66	20	
1,2,4-Trimethylbenzene	34.760	5.0	40.00	0	86.9	58	123	34.80	0.115	20	
1,2-Dibromo-3-chloropropane	37.220	10	40.00	0	93.0	30	181	32.07	14.9	20	
1,2-Dibromoethane	39.210	5.0	40.00	0	98.0	67	139	35.18	10.8	20	
1,2-Dichlorobenzene	36.610	5.0	40.00	0	91.5	65	122	34.77	5.16	20	
1,2-Dichloroethane	39.290	5.0	40.00	0	98.2	63	149	37.29	5.22	20	
1,2-Dichloropropane	35.930	5.0	40.00	0	89.8	69	127	34.88	2.97	20	
1,3,5-Trimethylbenzene	33.980	5.0	40.00	0	85.0	58	122	33.64	1.01	20	
1,3-Dichlorobenzene	36.660	5.0	40.00	0	91.7	64	120	35.39	3.53	20	
1,3-Dichloropropane	36.860	5.0	40.00	0	92.2	64	141	34.84	5.63	20	
1,4-Dichlorobenzene	37.750	5.0	40.00	0	94.4	62	122	35.89	5.05	20	
2,2-Dichloropropane	35.720	5.0	40.00	0	89.3	62	138	34.31	4.03	20	
2-Chlorotoluene	34.600	5.0	40.00	0	86.5	59	124	34.22	1.10	20	
4-Chlorotoluene	34.950	5.0	40.00	0	87.4	60	123	34.38	1.64	20	
4-Isopropyltoluene	33.840	5.0	40.00	1.170	81.7	50	124	33.50	1.01	20	
Benzene	35.920	5.0	40.00	0	89.8	72	122	34.13	5.11	20	
Bromobenzene	37.480	5.0	40.00	0	93.7	64	129	36.61	2.35	20	
Bromodichloromethane	36.900	5.0	40.00	0	92.2	67	142	34.73	6.06	20	
Bromoform	38.490	5.0	40.00	0	96.2	35	192	35.16	9.04	20	
Bromomethane	54.670	5.0	40.00	0	137	62	150	54.16	0.937	20	
Carbon tetrachloride	33.300	5.0	40.00	0	83.3	56	142	31.67	5.02	20	
Chlorobenzene	37.040	5.0	40.00	0	92.6	71	120	35.52	4.19	20	
Chloroethane	57.320	5.0	40.00	0	143	55	149	56.87	0.788	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011009-015AMSD** SampType: **MSD** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90398**
Client ID: **ZZZZZZ** Batch ID: **Q13VS002** TestNo: **EPA 8260B** Analysis Date: **9/20/2013** SeqNo: **1648887**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	36.570	5.0	40.00	0	91.4	70	135	34.66	5.36	20	
Chloromethane	70.790	5.0	40.00	0	177	37	151	66.24	6.64	20	S
cis-1,2-Dichloroethene	35.650	5.0	40.00	0	89.1	69	131	34.10	4.44	20	
cis-1,3-Dichloropropene	36.370	5.0	40.00	0	90.9	71	129	34.40	5.57	20	
Dibromochloromethane	36.130	5.0	40.00	0	90.3	53	161	34.57	4.41	20	
Dibromomethane	39.660	5.0	40.00	0	99.2	66	145	35.80	10.2	20	
Dichlorodifluoromethane	65.990	5.0	40.00	0	165	52	135	64.12	2.87	20	S
Ethylbenzene	35.370	5.0	40.00	0	88.4	65	120	34.08	3.71	20	
Hexachlorobutadiene	30.070	5.0	40.00	0	75.2	22	135	28.65	4.84	20	
Isopropylbenzene	33.870	5.0	40.00	0	84.7	60	121	33.05	2.45	20	
m,p-Xylene	72.040	10	80.00	0	90.1	65	120	68.80	4.60	20	
Methylene chloride	58.130	5.0	40.00	0	145	55	138	53.67	7.98	20	S
MTBE	36.800	5.0	40.00	0	92.0	64	149	32.68	11.9	20	
n-Butylbenzene	33.110	5.0	40.00	0	82.8	43	126	32.56	1.68	20	
n-Propylbenzene	33.660	5.0	40.00	0	84.2	56	122	33.27	1.17	20	
Naphthalene	35.630	5.0	40.00	0	89.1	48	139	29.73	18.1	20	
o-Xylene	36.390	5.0	40.00	0	91.0	67	118	34.94	4.07	20	
sec-Butylbenzene	32.280	5.0	40.00	0	80.7	50	123	32.30	0.0619	20	
Styrene	36.000	5.0	40.00	0	90.0	57	129	34.30	4.84	20	
tert-Butylbenzene	33.870	5.0	40.00	0	84.7	54	121	33.08	2.36	20	
Tetrachloroethene	34.780	5.0	40.00	0	87.0	35	149	33.31	4.32	20	
Toluene	36.610	5.0	40.00	0	91.5	68	120	34.74	5.24	20	
trans-1,2-Dichloroethene	35.070	5.0	40.00	0	87.7	62	139	33.32	5.12	20	
Trichloroethene	36.210	5.0	40.00	0	90.5	63	134	34.59	4.58	20	
Trichlorofluoromethane	36.170	5.0	40.00	0	90.4	34	179	33.75	6.92	20	
Vinyl chloride	52.550	5.0	40.00	0	131	57	136	50.47	4.04	20	
Surr: 1,2-Dichloroethane-d4	49.570		50.00		99.1	63	139		0		
Surr: 4-Bromofluorobenzene	45.390		50.00		90.8	75	124		0		
Surr: Dibromofluoromethane	49.960		50.00		99.9	70	133		0		
Surr: Toluene-d8	46.250		50.00		92.5	80	123		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011009-014AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90398**
Client ID: **ZZZZZZ** Batch ID: **Q13VS002** TestNo: **EPA 8260B** Analysis Date: **9/20/2013** SeqNo: **1648888**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	36.320	5.0	40.00	0	90.8	58	149				
1,1,1-Trichloroethane	35.530	5.0	40.00	0	88.8	67	126				
1,1,2,2-Tetrachloroethane	9.860	5.0	40.00	0	24.6	18	193				
1,1,2-Trichloroethane	37.840	5.0	40.00	0	94.6	70	136				
1,1-Dichloroethane	36.990	5.0	40.00	0	92.5	65	134				
1,1-Dichloroethene	34.440	5.0	40.00	0	86.1	61	135				
1,1-Dichloropropene	33.110	5.0	40.00	0	82.8	68	125				
1,2,3-Trichlorobenzene	35.770	5.0	40.00	0	89.4	40	134				
1,2,3-Trichloropropane	34.580	5.0	40.00	0	86.5	38	167				
1,2,4-Trichlorobenzene	35.400	5.0	40.00	0	88.5	40	132				
1,2,4-Trimethylbenzene	35.090	5.0	40.00	0	87.7	58	123				
1,2-Dibromo-3-chloropropane	33.800	10	40.00	0	84.5	30	181				
1,2-Dibromoethane	38.440	5.0	40.00	0	96.1	67	139				
1,2-Dichlorobenzene	36.910	5.0	40.00	0	92.3	65	122				
1,2-Dichloroethane	38.510	5.0	40.00	0	96.3	63	149				
1,2-Dichloropropane	36.870	5.0	40.00	0	92.2	69	127				
1,3,5-Trimethylbenzene	33.720	5.0	40.00	0	84.3	58	122				
1,3-Dichlorobenzene	36.540	5.0	40.00	0	91.4	64	120				
1,3-Dichloropropane	36.900	5.0	40.00	0	92.2	64	141				
1,4-Dichlorobenzene	38.380	5.0	40.00	0	96.0	62	122				
2,2-Dichloropropane	34.360	5.0	40.00	0	85.9	62	138				
2-Chlorotoluene	34.450	5.0	40.00	0	86.1	59	124				
4-Chlorotoluene	35.420	5.0	40.00	0	88.6	60	123				
4-Isopropyltoluene	33.080	5.0	40.00	0	82.7	50	124				
Benzene	36.290	5.0	40.00	0	90.7	72	122				
Bromobenzene	37.410	5.0	40.00	0	93.5	64	129				
Bromodichloromethane	36.330	5.0	40.00	0	90.8	67	142				
Bromoform	37.220	5.0	40.00	0	93.0	35	192				
Bromomethane	53.550	5.0	40.00	0	134	62	150				
Carbon tetrachloride	33.210	5.0	40.00	0	83.0	56	142				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: **8260SOIL**

Sample ID: **N011009-014AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90398**
Client ID: **ZZZZZZ** Batch ID: **Q13VS002** TestNo: **EPA 8260B** Analysis Date: **9/20/2013** SeqNo: **1648888**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	37.710	5.0	40.00	0	94.3	71	120				
Chloroethane	58.190	5.0	40.00	0	145	55	149				
Chloroform	37.020	5.0	40.00	0	92.6	70	135				
Chloromethane	69.870	5.0	40.00	0	175	37	151				S
cis-1,2-Dichloroethene	35.540	5.0	40.00	0	88.8	69	131				
cis-1,3-Dichloropropene	36.320	5.0	40.00	0	90.8	71	129				
Dibromochloromethane	37.040	5.0	40.00	0	92.6	53	161				
Dibromomethane	38.470	5.0	40.00	0	96.2	66	145				
Dichlorodifluoromethane	64.590	5.0	40.00	0	161	52	135				S
Ethylbenzene	35.580	5.0	40.00	0	89.0	65	120				
Hexachlorobutadiene	27.160	5.0	40.00	0	67.9	22	135				
Isopropylbenzene	33.380	5.0	40.00	0	83.4	60	121				
m,p-Xylene	72.250	10	80.00	0	90.3	65	120				
Methylene chloride	54.900	5.0	40.00	0	137	55	138				
MTBE	34.190	5.0	40.00	0	85.5	64	149				
n-Butylbenzene	32.680	5.0	40.00	0	81.7	43	126				
n-Propylbenzene	33.640	5.0	40.00	0	84.1	56	122				
Naphthalene	35.880	5.0	40.00	0	89.7	48	139				
o-Xylene	36.510	5.0	40.00	0	91.3	67	118				
sec-Butylbenzene	31.730	5.0	40.00	0	79.3	50	123				
Styrene	36.870	5.0	40.00	0	92.2	57	129				
tert-Butylbenzene	33.120	5.0	40.00	0	82.8	54	121				
Tetrachloroethene	34.070	5.0	40.00	0	85.2	35	149				
Toluene	36.420	5.0	40.00	0	91.1	68	120				
trans-1,2-Dichloroethene	35.110	5.0	40.00	0	87.8	62	139				
Trichloroethene	57.980	5.0	40.00	0	145	63	134				S
Trichlorofluoromethane	36.050	5.0	40.00	0	90.1	34	179				
Vinyl chloride	51.790	5.0	40.00	0	129	57	136				
Surr: 1,2-Dichloroethane-d4	47.130		50.00		94.3	63	139				
Surr: 4-Bromofluorobenzene	43.970		50.00		87.9	75	124				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **N011009-014AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90398**
Client ID: **ZZZZZZ** Batch ID: **Q13VS002** TestNo: **EPA 8260B** Analysis Date: **9/20/2013** SeqNo: **1648888**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	37.870		50.00		75.7	70	133				
Surr: Toluene-d8	44.650		50.00		89.3	80	123				

Sample ID: **N011009-024ADUP** SampType: **DUP** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90398**
Client ID: **ZZZZZZ** Batch ID: **Q13VS002** TestNo: **EPA 8260B** Analysis Date: **9/20/2013** SeqNo: **1648895**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0						0	0	20	
1,1,1-Trichloroethane	ND	5.0						0	0	20	
1,1,2,2-Tetrachloroethane	ND	5.0						0	0	20	
1,1,2-Trichloroethane	ND	5.0						0	0	20	
1,1-Dichloroethane	ND	5.0						0	0	20	
1,1-Dichloroethene	ND	5.0						0	0	20	
1,1-Dichloropropene	ND	5.0						0	0	20	
1,2,3-Trichlorobenzene	ND	5.0						0	0	20	
1,2,3-Trichloropropane	ND	5.0						0	0	20	
1,2,4-Trichlorobenzene	ND	5.0						0	0	20	
1,2,4-Trimethylbenzene	ND	5.0						0	0	20	
1,2-Dibromo-3-chloropropane	ND	10						0	0	20	
1,2-Dibromoethane	ND	5.0						0	0	20	
1,2-Dichlorobenzene	ND	5.0						0	0	20	
1,2-Dichloroethane	ND	5.0						0	0	20	
1,2-Dichloropropane	ND	5.0						0	0	20	
1,3,5-Trimethylbenzene	ND	5.0						0	0	20	
1,3-Dichlorobenzene	ND	5.0						0	0	20	
1,3-Dichloropropane	ND	5.0						0	0	20	
1,4-Dichlorobenzene	ND	5.0						0	0	20	
2,2-Dichloropropane	ND	5.0						0	0	20	
2-Chlorotoluene	ND	5.0						0	0	20	
4-Chlorotoluene	ND	5.0						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011009-024ADUP** SampType: **DUP** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90398**
Client ID: **ZZZZZZ** Batch ID: **Q13VS002** TestNo: **EPA 8260B** Analysis Date: **9/20/2013** SeqNo: **1648895**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Isopropyltoluene	ND	5.0						0	0	20	
Benzene	ND	5.0						0	0	20	
Bromobenzene	ND	5.0						0	0	20	
Bromodichloromethane	ND	5.0						0	0	20	
Bromoform	ND	5.0						0	0	20	
Bromomethane	ND	5.0						0	0	20	
Carbon tetrachloride	ND	5.0						0	0	20	
Chlorobenzene	ND	5.0						0	0	20	
Chloroethane	ND	5.0						0	0	20	
Chloroform	ND	5.0						0	0	20	
Chloromethane	ND	5.0						0	0	20	
cis-1,2-Dichloroethene	ND	5.0						0	0	20	
cis-1,3-Dichloropropene	ND	5.0						0	0	20	
Dibromochloromethane	ND	5.0						0	0	20	
Dibromomethane	ND	5.0						0	0	20	
Dichlorodifluoromethane	ND	5.0						0	0	20	
Ethylbenzene	ND	5.0						0	0	20	
Hexachlorobutadiene	ND	5.0						0	0	20	
Isopropylbenzene	ND	5.0						0	0	20	
m,p-Xylene	ND	10						0	0	20	
Methylene chloride	ND	5.0						0	0	20	
MTBE	ND	5.0						0	0	20	
n-Butylbenzene	ND	5.0						0	0	20	
n-Propylbenzene	ND	5.0						0	0	20	
Naphthalene	ND	5.0						0	0	20	
o-Xylene	ND	5.0						0	0	20	
sec-Butylbenzene	ND	5.0						0	0	20	
Styrene	ND	5.0						0	0	20	
tert-Butylbenzene	ND	5.0						0	0	20	
Tetrachloroethene	ND	5.0						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011009-024ADUP** SampType: **DUP** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90398**
Client ID: **ZZZZZZ** Batch ID: **Q13VS002** TestNo: **EPA 8260B** Analysis Date: **9/20/2013** SeqNo: **1648895**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	ND	5.0						0	0	20	
trans-1,2-Dichloroethene	ND	5.0						0	0	20	
Trichloroethene	ND	5.0						0	0	20	
Trichlorofluoromethane	ND	5.0						0	0	20	
Vinyl chloride	ND	5.0						0	0	20	
Surr: 1,2-Dichloroethane-d4	44.630		50.00		89.3	63	139		0		
Surr: 4-Bromofluorobenzene	39.590		50.00		79.2	75	124		0		
Surr: Dibromofluoromethane	45.950		50.00		91.9	70	133		0		
Surr: Toluene-d8	44.370		50.00		88.7	80	123		0		

Sample ID: **N011009-030ADUP** SampType: **DUP** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90398**
Client ID: **ZZZZZZ** Batch ID: **Q13VS002** TestNo: **EPA 8260B** Analysis Date: **9/20/2013** SeqNo: **1648896**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0						0	0	20	
1,1,1-Trichloroethane	ND	5.0						0	0	20	
1,1,2,2-Tetrachloroethane	ND	5.0						0	0	20	
1,1,2-Trichloroethane	ND	5.0						0	0	20	
1,1-Dichloroethane	ND	5.0						0	0	20	
1,1-Dichloroethene	ND	5.0						0	0	20	
1,1-Dichloropropene	ND	5.0						0	0	20	
1,2,3-Trichlorobenzene	ND	5.0						0	0	20	
1,2,3-Trichloropropane	ND	5.0						0	0	20	
1,2,4-Trichlorobenzene	ND	5.0						0	0	20	
1,2,4-Trimethylbenzene	ND	5.0						0	0	20	
1,2-Dibromo-3-chloropropane	ND	10						0	0	20	
1,2-Dibromoethane	ND	5.0						0	0	20	
1,2-Dichlorobenzene	ND	5.0						0	0	20	
1,2-Dichloroethane	ND	5.0						0	0	20	
1,2-Dichloropropane	ND	5.0						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011009-030ADUP** SampType: **DUP** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90398**
Client ID: **ZZZZZZ** Batch ID: **Q13VS002** TestNo: **EPA 8260B** Analysis Date: **9/20/2013** SeqNo: **1648896**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	ND	5.0						0	0	20	
1,3-Dichlorobenzene	ND	5.0						0	0	20	
1,3-Dichloropropane	ND	5.0						0	0	20	
1,4-Dichlorobenzene	ND	5.0						0	0	20	
2,2-Dichloropropane	ND	5.0						0	0	20	
2-Chlorotoluene	ND	5.0						0	0	20	
4-Chlorotoluene	ND	5.0						0	0	20	
4-Isopropyltoluene	ND	5.0						0	0	20	
Benzene	ND	5.0						0	0	20	
Bromobenzene	ND	5.0						0	0	20	
Bromodichloromethane	ND	5.0						0	0	20	
Bromoform	ND	5.0						0	0	20	
Bromomethane	ND	5.0						0	0	20	
Carbon tetrachloride	ND	5.0						0	0	20	
Chlorobenzene	ND	5.0						0	0	20	
Chloroethane	ND	5.0						0	0	20	
Chloroform	ND	5.0						0	0	20	
Chloromethane	ND	5.0						0	0	20	
cis-1,2-Dichloroethene	ND	5.0						0	0	20	
cis-1,3-Dichloropropene	ND	5.0						0	0	20	
Dibromochloromethane	ND	5.0						0	0	20	
Dibromomethane	ND	5.0						0	0	20	
Dichlorodifluoromethane	ND	5.0						0	0	20	
Ethylbenzene	ND	5.0						0	0	20	
Hexachlorobutadiene	ND	5.0						0	0	20	
Isopropylbenzene	ND	5.0						0	0	20	
m,p-Xylene	ND	10						0	0	20	
Methylene chloride	ND	5.0						0	0	20	
MTBE	ND	5.0						0	0	20	
n-Butylbenzene	ND	5.0						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011009-030ADUP** SampType: **DUP** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90398**
Client ID: **ZZZZZZ** Batch ID: **Q13VS002** TestNo: **EPA 8260B** Analysis Date: **9/20/2013** SeqNo: **1648896**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	ND	5.0						0	0	20	
Naphthalene	ND	5.0						0	0	20	
o-Xylene	ND	5.0						0	0	20	
sec-Butylbenzene	ND	5.0						0	0	20	
Styrene	ND	5.0						0	0	20	
tert-Butylbenzene	ND	5.0						0	0	20	
Tetrachloroethene	ND	5.0						0	0	20	
Toluene	ND	5.0						0	0	20	
trans-1,2-Dichloroethene	ND	5.0						0	0	20	
Trichloroethene	ND	5.0						0	0	20	
Trichlorofluoromethane	ND	5.0						0	0	20	
Vinyl chloride	ND	5.0						0	0	20	
Surr: 1,2-Dichloroethane-d4	50.340		50.00		101	63	139		0		
Surr: 4-Bromofluorobenzene	39.830		50.00		79.7	75	124		0		
Surr: Dibromofluoromethane	46.950		50.00		93.9	70	133		0		
Surr: Toluene-d8	41.770		50.00		83.5	80	123		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **Q130921LCS**	SampType: **LCS**	TestCode: **8260SOIL**	Units: **µg/Kg**	Prep Date:	RunNo: **90403**
Client ID: **LCSS**	Batch ID: **Q13VS003**	TestNo: **EPA 8260B**		Analysis Date: **9/21/2013**	SeqNo: **1649006**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	36.820	5.0	40.00	0	92.0	80	123				
1,1,1-Trichloroethane	35.290	5.0	40.00	0	88.2	71	127				
1,1,2,2-Tetrachloroethane	33.810	5.0	40.00	0	84.5	80	120				
1,1,2-Trichloroethane	36.960	5.0	40.00	0	92.4	80	120				
1,1-Dichloroethane	35.620	5.0	40.00	0	89.0	80	120				
1,1-Dichloroethene	35.250	5.0	40.00	0	88.1	80	121				
1,1-Dichloropropene	35.550	5.0	40.00	0	88.9	74	131				
1,2,3-Trichlorobenzene	38.900	5.0	40.00	0	97.3	64	137				
1,2,3-Trichloropropane	33.800	5.0	40.00	0	84.5	75	120				
1,2,4-Trichlorobenzene	40.390	5.0	40.00	0	101	75	128				
1,2,4-Trimethylbenzene	35.420	5.0	40.00	0	88.6	73	128				
1,2-Dibromo-3-chloropropane	34.630	10	40.00	0	86.6	53	143				
1,2-Dibromoethane	37.100	5.0	40.00	0	92.8	74	124				
1,2-Dichlorobenzene	36.260	5.0	40.00	0	90.7	80	120				
1,2-Dichloroethane	38.310	5.0	40.00	0	95.8	70	139				
1,2-Dichloropropane	36.890	5.0	40.00	0	92.2	80	120				
1,3,5-Trimethylbenzene	34.390	5.0	40.00	0	86.0	76	126				
1,3-Dichlorobenzene	37.360	5.0	40.00	0	93.4	80	120				
1,3-Dichloropropane	36.400	5.0	40.00	0	91.0	80	120				
1,4-Dichlorobenzene	37.960	5.0	40.00	0	94.9	80	120				
2,2-Dichloropropane	36.900	5.0	40.00	0	92.2	72	135				
2-Chlorotoluene	34.490	5.0	40.00	0	86.2	79	120				
4-Chlorotoluene	35.190	5.0	40.00	0	88.0	80	120				
4-Isopropyltoluene	35.030	5.0	40.00	0	87.6	76	126				
Benzene	36.650	5.0	40.00	0	91.6	80	120				
Bromobenzene	36.290	5.0	40.00	0	90.7	80	120				
Bromodichloromethane	36.520	5.0	40.00	0	91.3	79	131				
Bromoform	38.450	5.0	40.00	0	96.1	80	120				
Bromomethane	41.830	5.0	40.00	0	105	43	179				
Carbon tetrachloride	35.800	5.0	40.00	0	89.5	80	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **Q130921LCS** SampType: **LCS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90403**
Client ID: **LCSS** Batch ID: **Q13VS003** TestNo: **EPA 8260B** Analysis Date: **9/21/2013** SeqNo: **1649006**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	36.790	5.0	40.00	0	92.0	80	120				
Chloroethane	37.430	5.0	40.00	0	93.6	32	181				
Chloroform	35.520	5.0	40.00	0	88.8	77	129				
Chloromethane	42.540	5.0	40.00	0	106	80	120				
cis-1,2-Dichloroethene	35.550	5.0	40.00	0	88.9	80	120				
cis-1,3-Dichloropropene	36.900	5.0	40.00	0	92.2	80	120				
Dibromochloromethane	36.920	5.0	40.00	0	92.3	80	122				
Dibromomethane	37.790	5.0	40.00	0	94.5	80	120				
Dichlorodifluoromethane	40.760	5.0	40.00	0	102	64	135				
Ethylbenzene	35.460	5.0	40.00	0	88.6	80	120				
Hexachlorobutadiene	36.270	5.0	40.00	0	90.7	69	132				
Isopropylbenzene	33.660	5.0	40.00	0	84.2	79	121				
m,p-Xylene	71.500	10	80.00	0	89.4	80	121				
Methylene chloride	36.990	5.0	40.00	0	92.5	74	123				
MTBE	34.510	5.0	40.00	0	86.3	56	140				
n-Butylbenzene	36.040	5.0	40.00	0	90.1	72	131				
n-Propylbenzene	34.400	5.0	40.00	0	86.0	79	122				
Naphthalene	35.600	5.0	40.00	0	89.0	69	126				
o-Xylene	35.530	5.0	40.00	0	88.8	80	120				
sec-Butylbenzene	33.720	5.0	40.00	0	84.3	74	127				
Styrene	35.900	5.0	40.00	0	89.8	80	120				
tert-Butylbenzene	33.850	5.0	40.00	0	84.6	75	125				
Tetrachloroethene	36.230	5.0	40.00	0	90.6	80	120				
Toluene	36.150	5.0	40.00	0	90.4	80	120				
trans-1,2-Dichloroethene	35.330	5.0	40.00	0	88.3	80	125				
Trichloroethene	37.910	5.0	40.00	0	94.8	80	120				
Trichlorofluoromethane	35.860	5.0	40.00	0	89.7	67	152				
Vinyl chloride	38.420	5.0	40.00	0	96.0	69	135				
Surr: 1,2-Dichloroethane-d4	46.450		50.00		92.9	63	139				
Surr: 4-Bromofluorobenzene	45.170		50.00		90.3	75	124				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **Q130921LCS** SampType: **LCS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90403**
Client ID: **LCSS** Batch ID: **Q13VS003** TestNo: **EPA 8260B** Analysis Date: **9/21/2013** SeqNo: **1649006**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	46.340		50.00		92.7	70	133				
Surr: Toluene-d8	46.150		50.00		92.3	80	123				

Sample ID: **Q130921MB2** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90403**
Client ID: **PBS** Batch ID: **Q13VS003** TestNo: **EPA 8260B** Analysis Date: **9/21/2013** SeqNo: **1649008**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **Q130921MB2** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90403**
Client ID: **PBS** Batch ID: **Q13VS003** TestNo: **EPA 8260B** Analysis Date: **9/21/2013** SeqNo: **1649008**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	0.930	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **Q130921MB2** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90403**
Client ID: **PBS** Batch ID: **Q13VS003** TestNo: **EPA 8260B** Analysis Date: **9/21/2013** SeqNo: **1649008**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	40.990		50.00		82.0	63	139				
Surr: 4-Bromofluorobenzene	46.860		50.00		93.7	75	124				
Surr: Dibromofluoromethane	42.390		50.00		84.8	70	133				
Surr: Toluene-d8	50.140		50.00		100	80	123				

Sample ID: **Q130921MB3** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90403**
Client ID: **PBS** Batch ID: **Q13VS003** TestNo: **EPA 8260B** Analysis Date: **9/21/2013** SeqNo: **1649009**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **Q130921MB3** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90403**
Client ID: **PBS** Batch ID: **Q13VS003** TestNo: **EPA 8260B** Analysis Date: **9/21/2013** SeqNo: **1649009**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **Q130921MB3** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90403**
Client ID: **PBS** Batch ID: **Q13VS003** TestNo: **EPA 8260B** Analysis Date: **9/21/2013** SeqNo: **1649009**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	39.660		50.00		79.3	63	139				
Surr: 4-Bromofluorobenzene	45.820		50.00		91.6	75	124				
Surr: Dibromofluoromethane	42.390		50.00		84.8	70	133				
Surr: Toluene-d8	49.080		50.00		98.2	80	123				

Sample ID: **N011009-065ADUP** SampType: **DUP** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90403**
Client ID: **ZZZZZZ** Batch ID: **Q13VS003** TestNo: **EPA 8260B** Analysis Date: **9/21/2013** SeqNo: **1649029**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0						0	0	20	
1,1,1-Trichloroethane	ND	5.0						0	0	20	
1,1,2,2-Tetrachloroethane	ND	5.0						0	0	20	
1,1,2-Trichloroethane	ND	5.0						0	0	20	
1,1-Dichloroethane	ND	5.0						0	0	20	
1,1-Dichloroethene	ND	5.0						0	0	20	
1,1-Dichloropropene	ND	5.0						0	0	20	
1,2,3-Trichlorobenzene	ND	5.0						0	0	20	
1,2,3-Trichloropropane	ND	5.0						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011009-065ADUP** SampType: **DUP** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90403**
Client ID: **ZZZZZZ** Batch ID: **Q13VS003** TestNo: **EPA 8260B** Analysis Date: **9/21/2013** SeqNo: **1649029**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	5.0						0	0	20	
1,2,4-Trimethylbenzene	ND	5.0						0	0	20	
1,2-Dibromo-3-chloropropane	ND	10						0	0	20	
1,2-Dibromoethane	ND	5.0						0	0	20	
1,2-Dichlorobenzene	ND	5.0						0	0	20	
1,2-Dichloroethane	ND	5.0						0	0	20	
1,2-Dichloropropane	ND	5.0						0	0	20	
1,3,5-Trimethylbenzene	ND	5.0						0	0	20	
1,3-Dichlorobenzene	ND	5.0						0	0	20	
1,3-Dichloropropane	ND	5.0						0	0	20	
1,4-Dichlorobenzene	ND	5.0						0	0	20	
2,2-Dichloropropane	ND	5.0						0	0	20	
2-Chlorotoluene	ND	5.0						0	0	20	
4-Chlorotoluene	ND	5.0						0	0	20	
4-Isopropyltoluene	ND	5.0						0	0	20	
Benzene	ND	5.0						0	0	20	
Bromobenzene	ND	5.0						0	0	20	
Bromodichloromethane	ND	5.0						0	0	20	
Bromoform	ND	5.0						0	0	20	
Bromomethane	ND	5.0						0	0	20	
Carbon tetrachloride	ND	5.0						0	0	20	
Chlorobenzene	ND	5.0						0	0	20	
Chloroethane	ND	5.0						0	0	20	
Chloroform	ND	5.0						0	0	20	
Chloromethane	ND	5.0						0	0	20	
cis-1,2-Dichloroethene	ND	5.0						0	0	20	
cis-1,3-Dichloropropene	ND	5.0						0	0	20	
Dibromochloromethane	ND	5.0						0	0	20	
Dibromomethane	ND	5.0						0	0	20	
Dichlorodifluoromethane	ND	5.0						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **N011009-065ADUP** SampType: **DUP** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90403**
Client ID: **ZZZZZZ** Batch ID: **Q13VS003** TestNo: **EPA 8260B** Analysis Date: **9/21/2013** SeqNo: **1649029**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	ND	5.0						0	0	20	
Hexachlorobutadiene	ND	5.0						0	0	20	
Isopropylbenzene	ND	5.0						0	0	20	
m,p-Xylene	ND	10						0	0	20	
Methylene chloride	ND	5.0						0	0	20	
MTBE	ND	5.0						0	0	20	
n-Butylbenzene	ND	5.0						0	0	20	
n-Propylbenzene	ND	5.0						0	0	20	
Naphthalene	ND	5.0						0	0	20	
o-Xylene	ND	5.0						0	0	20	
sec-Butylbenzene	ND	5.0						0	0	20	
Styrene	ND	5.0						0	0	20	
tert-Butylbenzene	ND	5.0						0	0	20	
Tetrachloroethene	ND	5.0						0	0	20	
Toluene	ND	5.0						0	0	20	
trans-1,2-Dichloroethene	ND	5.0						0	0	20	
Trichloroethene	ND	5.0						0	0	20	
Trichlorofluoromethane	ND	5.0						0	0	20	
Vinyl chloride	ND	5.0						0	0	20	
Surr: 1,2-Dichloroethane-d4	42.750		50.00		85.5	63	139		0		
Surr: 4-Bromofluorobenzene	40.600		50.00		81.2	75	124		0		
Surr: Dibromofluoromethane	42.520		50.00		85.0	70	133		0		
Surr: Toluene-d8	43.940		50.00		87.9	80	123		0		

Sample ID: **N011054-001ADUP** SampType: **DUP** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90403**
Client ID: **ZZZZZZ** Batch ID: **Q13VS003** TestNo: **EPA 8260B** Analysis Date: **9/21/2013** SeqNo: **1649030**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0						0	0	20	
1,1,1-Trichloroethane	ND	5.0						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011054-001ADUP** SampType: **DUP** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90403**
Client ID: **ZZZZZZ** Batch ID: **Q13VS003** TestNo: **EPA 8260B** Analysis Date: **9/21/2013** SeqNo: **1649030**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2,2-Tetrachloroethane	ND	5.0						0	0	20	
1,1,2-Trichloroethane	ND	5.0						0	0	20	
1,1-Dichloroethane	ND	5.0						0	0	20	
1,1-Dichloroethene	ND	5.0						0	0	20	
1,1-Dichloropropene	ND	5.0						0	0	20	
1,2,3-Trichlorobenzene	ND	5.0						0	0	20	
1,2,3-Trichloropropane	ND	5.0						0	0	20	
1,2,4-Trichlorobenzene	ND	5.0						0	0	20	
1,2,4-Trimethylbenzene	ND	5.0						0	0	20	
1,2-Dibromo-3-chloropropane	ND	10						0	0	20	
1,2-Dibromoethane	ND	5.0						0	0	20	
1,2-Dichlorobenzene	ND	5.0						0	0	20	
1,2-Dichloroethane	ND	5.0						0	0	20	
1,2-Dichloropropane	ND	5.0						0	0	20	
1,3,5-Trimethylbenzene	ND	5.0						0	0	20	
1,3-Dichlorobenzene	ND	5.0						0	0	20	
1,3-Dichloropropane	ND	5.0						0	0	20	
1,4-Dichlorobenzene	ND	5.0						0	0	20	
2,2-Dichloropropane	ND	5.0						0	0	20	
2-Chlorotoluene	ND	5.0						0	0	20	
4-Chlorotoluene	ND	5.0						0	0	20	
4-Isopropyltoluene	ND	5.0						0	0	20	
Benzene	ND	5.0						0	0	20	
Bromobenzene	ND	5.0						0	0	20	
Bromodichloromethane	ND	5.0						0	0	20	
Bromoform	ND	5.0						0	0	20	
Bromomethane	ND	5.0						0	0	20	
Carbon tetrachloride	ND	5.0						0	0	20	
Chlorobenzene	ND	5.0						0	0	20	
Chloroethane	ND	5.0						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011054-001ADUP** SampType: **DUP** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90403**
Client ID: **ZZZZZZ** Batch ID: **Q13VS003** TestNo: **EPA 8260B** Analysis Date: **9/21/2013** SeqNo: **1649030**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	ND	5.0						0	0	20	
Chloromethane	ND	5.0						0	0	20	
cis-1,2-Dichloroethene	ND	5.0						0	0	20	
cis-1,3-Dichloropropene	ND	5.0						0	0	20	
Dibromochloromethane	ND	5.0						0	0	20	
Dibromomethane	ND	5.0						0	0	20	
Dichlorodifluoromethane	ND	5.0						0	0	20	
Ethylbenzene	ND	5.0						0	0	20	
Hexachlorobutadiene	ND	5.0						0	0	20	
Isopropylbenzene	ND	5.0						0	0	20	
m,p-Xylene	ND	10						0	0	20	
Methylene chloride	ND	5.0						0	0	20	
MTBE	ND	5.0						0	0	20	
n-Butylbenzene	ND	5.0						0	0	20	
n-Propylbenzene	ND	5.0						0	0	20	
Naphthalene	ND	5.0						0	0	20	
o-Xylene	ND	5.0						0	0	20	
sec-Butylbenzene	ND	5.0						0	0	20	
Styrene	ND	5.0						0	0	20	
tert-Butylbenzene	ND	5.0						0	0	20	
Tetrachloroethene	ND	5.0						0	0	20	
Toluene	ND	5.0						0	0	20	
trans-1,2-Dichloroethene	ND	5.0						0	0	20	
Trichloroethene	ND	5.0						0	0	20	
Trichlorofluoromethane	ND	5.0						0	0	20	
Vinyl chloride	ND	5.0						0	0	20	
Surr: 1,2-Dichloroethane-d4	54.400		50.00		109	63	139		0		
Surr: 4-Bromofluorobenzene	46.460		50.00		92.9	75	124		0		
Surr: Dibromofluoromethane	51.530		50.00		103	70	133		0		
Surr: Toluene-d8	48.090		50.00		96.2	80	123		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011009-079AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90403**
Client ID: **ZZZZZZ** Batch ID: **Q13VS003** TestNo: **EPA 8260B** Analysis Date: **9/21/2013** SeqNo: **1649033**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	36.310	5.0	40.00	0	90.8	58	149				
1,1,1-Trichloroethane	34.000	5.0	40.00	0	85.0	67	126				
1,1,2,2-Tetrachloroethane	33.010	5.0	40.00	0	82.5	18	193				
1,1,2-Trichloroethane	35.980	5.0	40.00	0	90.0	70	136				
1,1-Dichloroethane	34.670	5.0	40.00	0	86.7	65	134				
1,1-Dichloroethene	34.350	5.0	40.00	0	85.9	61	135				
1,1-Dichloropropene	31.860	5.0	40.00	0	79.6	68	125				
1,2,3-Trichlorobenzene	30.450	5.0	40.00	0	76.1	40	134				
1,2,3-Trichloropropane	35.110	5.0	40.00	0	87.8	38	167				
1,2,4-Trichlorobenzene	30.930	5.0	40.00	0	77.3	40	132				
1,2,4-Trimethylbenzene	33.250	5.0	40.00	0	83.1	58	123				
1,2-Dibromo-3-chloropropane	33.940	10	40.00	0	84.8	30	181				
1,2-Dibromoethane	35.680	5.0	40.00	0	89.2	67	139				
1,2-Dichlorobenzene	34.050	5.0	40.00	0	85.1	65	122				
1,2-Dichloroethane	37.520	5.0	40.00	0	93.8	63	149				
1,2-Dichloropropane	35.180	5.0	40.00	0	88.0	69	127				
1,3,5-Trimethylbenzene	32.190	5.0	40.00	0	80.5	58	122				
1,3-Dichlorobenzene	33.920	5.0	40.00	0	84.8	64	120				
1,3-Dichloropropane	36.350	5.0	40.00	0	90.9	64	141				
1,4-Dichlorobenzene	34.680	5.0	40.00	0	86.7	62	122				
2,2-Dichloropropane	30.580	5.0	40.00	0	76.5	62	138				
2-Chlorotoluene	32.430	5.0	40.00	0	81.1	59	124				
4-Chlorotoluene	32.830	5.0	40.00	0	82.1	60	123				
4-Isopropyltoluene	31.300	5.0	40.00	0	78.2	50	124				
Benzene	34.020	5.0	40.00	0	85.0	72	122				
Bromobenzene	35.420	5.0	40.00	0	88.6	64	129				
Bromodichloromethane	36.470	5.0	40.00	0	91.2	67	142				
Bromoform	36.950	5.0	40.00	0	92.4	35	192				
Bromomethane	45.790	5.0	40.00	0	114	62	150				
Carbon tetrachloride	32.980	5.0	40.00	0	82.5	56	142				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011009-079AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90403**
Client ID: **ZZZZZZ** Batch ID: **Q13VS003** TestNo: **EPA 8260B** Analysis Date: **9/21/2013** SeqNo: **1649033**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	34.510	5.0	40.00	0	86.3	71	120				
Chloroethane	39.420	5.0	40.00	0	98.6	55	149				
Chloroform	34.750	5.0	40.00	0	86.9	70	135				
Chloromethane	34.160	5.0	40.00	0	85.4	37	151				
cis-1,2-Dichloroethene	33.780	5.0	40.00	0	84.4	69	131				
cis-1,3-Dichloropropene	31.610	5.0	40.00	0	79.0	71	129				
Dibromochloromethane	37.560	5.0	40.00	0	93.9	53	161				
Dibromomethane	37.180	5.0	40.00	0	93.0	66	145				
Dichlorodifluoromethane	39.010	5.0	40.00	0	97.5	52	135				
Ethylbenzene	32.790	5.0	40.00	0	82.0	65	120				
Hexachlorobutadiene	27.310	5.0	40.00	0	68.3	22	135				
Isopropylbenzene	32.180	5.0	40.00	0	80.4	60	121				
m,p-Xylene	65.250	10	80.00	0	81.6	65	120				
Methylene chloride	38.940	5.0	40.00	0	97.4	55	138				
MTBE	35.590	5.0	40.00	0	89.0	64	149				
n-Butylbenzene	30.390	5.0	40.00	0	76.0	43	126				
n-Propylbenzene	31.950	5.0	40.00	0	79.9	56	122				
Naphthalene	28.480	5.0	40.00	0	71.2	48	139				
o-Xylene	33.280	5.0	40.00	0	83.2	67	118				
sec-Butylbenzene	30.920	5.0	40.00	0	77.3	50	123				
Styrene	31.870	5.0	40.00	0	79.7	57	129				
tert-Butylbenzene	32.130	5.0	40.00	0	80.3	54	121				
Tetrachloroethene	33.330	5.0	40.00	0	83.3	35	149				
Toluene	33.020	5.0	40.00	0	82.6	68	120				
trans-1,2-Dichloroethene	32.760	5.0	40.00	0	81.9	62	139				
Trichloroethene	36.380	5.0	40.00	0	91.0	63	134				
Trichlorofluoromethane	34.590	5.0	40.00	0	86.5	34	179				
Vinyl chloride	35.070	5.0	40.00	0	87.7	57	136				
Surr: 1,2-Dichloroethane-d4	49.620		50.00		99.2	63	139				
Surr: 4-Bromofluorobenzene	42.540		50.00		85.1	75	124				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011009-079AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90403**
Client ID: **ZZZZZZ** Batch ID: **Q13VS003** TestNo: **EPA 8260B** Analysis Date: **9/21/2013** SeqNo: **1649033**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	48.410		50.00		96.8	70	133				
Surr: Toluene-d8	44.110		50.00		88.2	80	123				

Sample ID: **N011009-079AMSD** SampType: **MSD** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90403**
Client ID: **ZZZZZZ** Batch ID: **Q13VS003** TestNo: **EPA 8260B** Analysis Date: **9/21/2013** SeqNo: **1649034**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	37.120	5.0	40.00	0	92.8	58	149	36.31	2.21	20	
1,1,1-Trichloroethane	35.710	5.0	40.00	0	89.3	67	126	34.00	4.91	20	
1,1,2,2-Tetrachloroethane	34.940	5.0	40.00	0	87.4	18	193	33.01	5.68	20	
1,1,2-Trichloroethane	37.500	5.0	40.00	0	93.8	70	136	35.98	4.14	20	
1,1-Dichloroethane	36.620	5.0	40.00	0	91.6	65	134	34.67	5.47	20	
1,1-Dichloroethene	36.620	5.0	40.00	0	91.6	61	135	34.35	6.40	20	
1,1-Dichloropropene	34.680	5.0	40.00	0	86.7	68	125	31.86	8.48	20	
1,2,3-Trichlorobenzene	32.550	5.0	40.00	0	81.4	40	134	30.45	6.67	20	
1,2,3-Trichloropropane	39.990	5.0	40.00	0	100	38	167	35.11	13.0	20	
1,2,4-Trichlorobenzene	32.200	5.0	40.00	0	80.5	40	132	30.93	4.02	20	
1,2,4-Trimethylbenzene	34.780	5.0	40.00	0	87.0	58	123	33.25	4.50	20	
1,2-Dibromo-3-chloropropane	34.840	10	40.00	0	87.1	30	181	33.94	2.62	20	
1,2-Dibromoethane	37.200	5.0	40.00	0	93.0	67	139	35.68	4.17	20	
1,2-Dichlorobenzene	36.550	5.0	40.00	0	91.4	65	122	34.05	7.08	20	
1,2-Dichloroethane	39.300	5.0	40.00	0	98.2	63	149	37.52	4.63	20	
1,2-Dichloropropane	38.020	5.0	40.00	0	95.1	69	127	35.18	7.76	20	
1,3,5-Trimethylbenzene	34.440	5.0	40.00	0	86.1	58	122	32.19	6.75	20	
1,3-Dichlorobenzene	35.470	5.0	40.00	0	88.7	64	120	33.92	4.47	20	
1,3-Dichloropropane	37.080	5.0	40.00	0	92.7	64	141	36.35	1.99	20	
1,4-Dichlorobenzene	36.020	5.0	40.00	0	90.1	62	122	34.68	3.79	20	
2,2-Dichloropropane	33.150	5.0	40.00	0	82.9	62	138	30.58	8.07	20	
2-Chlorotoluene	35.200	5.0	40.00	0	88.0	59	124	32.43	8.19	20	
4-Chlorotoluene	34.780	5.0	40.00	0	87.0	60	123	32.83	5.77	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011009-079AMSD** SampType: **MSD** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90403**
Client ID: **ZZZZZZ** Batch ID: **Q13VS003** TestNo: **EPA 8260B** Analysis Date: **9/21/2013** SeqNo: **1649034**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Isopropyltoluene	33.540	5.0	40.00	0	83.9	50	124	31.30	6.91	20	
Benzene	36.160	5.0	40.00	0	90.4	72	122	34.02	6.10	20	
Bromobenzene	37.460	5.0	40.00	0	93.6	64	129	35.42	5.60	20	
Bromodichloromethane	37.770	5.0	40.00	0	94.4	67	142	36.47	3.50	20	
Bromoform	36.930	5.0	40.00	0	92.3	35	192	36.95	0.0541	20	
Bromomethane	47.460	5.0	40.00	0	119	62	150	45.79	3.58	20	
Carbon tetrachloride	35.670	5.0	40.00	0	89.2	56	142	32.98	7.84	20	
Chlorobenzene	35.100	5.0	40.00	0	87.8	71	120	34.51	1.70	20	
Chloroethane	39.280	5.0	40.00	0	98.2	55	149	39.42	0.356	20	
Chloroform	37.280	5.0	40.00	0	93.2	70	135	34.75	7.02	20	
Chloromethane	34.350	5.0	40.00	0	85.9	37	151	34.16	0.555	20	
cis-1,2-Dichloroethene	35.780	5.0	40.00	0	89.4	69	131	33.78	5.75	20	
cis-1,3-Dichloropropene	33.520	5.0	40.00	0	83.8	71	129	31.61	5.87	20	
Dibromochloromethane	36.840	5.0	40.00	0	92.1	53	161	37.56	1.94	20	
Dibromomethane	39.380	5.0	40.00	0	98.4	66	145	37.18	5.75	20	
Dichlorodifluoromethane	42.540	5.0	40.00	0	106	52	135	39.01	8.66	20	
Ethylbenzene	33.470	5.0	40.00	0	83.7	65	120	32.79	2.05	20	
Hexachlorobutadiene	30.520	5.0	40.00	0	76.3	22	135	27.31	11.1	20	
Isopropylbenzene	34.770	5.0	40.00	0	86.9	60	121	32.18	7.74	20	
m,p-Xylene	66.960	10	80.00	0	83.7	65	120	65.25	2.59	20	
Methylene chloride	40.820	5.0	40.00	0	102	55	138	38.94	4.71	20	
MTBE	37.640	5.0	40.00	0	94.1	64	149	35.59	5.60	20	
n-Butylbenzene	31.830	5.0	40.00	0	79.6	43	126	30.39	4.63	20	
n-Propylbenzene	34.300	5.0	40.00	0	85.8	56	122	31.95	7.09	20	
Naphthalene	32.750	5.0	40.00	0	81.9	48	139	28.48	13.9	20	
o-Xylene	33.980	5.0	40.00	0	85.0	67	118	33.28	2.08	20	
sec-Butylbenzene	33.420	5.0	40.00	0	83.6	50	123	30.92	7.77	20	
Styrene	32.350	5.0	40.00	0	80.9	57	129	31.87	1.49	20	
tert-Butylbenzene	34.850	5.0	40.00	0	87.1	54	121	32.13	8.12	20	
Tetrachloroethene	34.010	5.0	40.00	0	85.0	35	149	33.33	2.02	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **N011009-079AMSD** SampType: **MSD** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90403**
Client ID: **ZZZZZZ** Batch ID: **Q13VS003** TestNo: **EPA 8260B** Analysis Date: **9/21/2013** SeqNo: **1649034**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	35.340	5.0	40.00	0	88.4	68	120	33.02	6.79	20	
trans-1,2-Dichloroethene	34.750	5.0	40.00	0	86.9	62	139	32.76	5.90	20	
Trichloroethene	38.470	5.0	40.00	0	96.2	63	134	36.38	5.58	20	
Trichlorofluoromethane	37.680	5.0	40.00	0	94.2	34	179	34.59	8.55	20	
Vinyl chloride	38.710	5.0	40.00	0	96.8	57	136	35.07	9.87	20	
Surr: 1,2-Dichloroethane-d4	50.190		50.00		100	63	139		0		
Surr: 4-Bromofluorobenzene	41.290		50.00		82.6	75	124		0		
Surr: Dibromofluoromethane	49.460		50.00		98.9	70	133		0		
Surr: Toluene-d8	45.000		50.00		90.0	80	123		0		

Sample ID: **N011054-002AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90403**
Client ID: **ZZZZZZ** Batch ID: **Q13VS003** TestNo: **EPA 8260B** Analysis Date: **9/21/2013** SeqNo: **1649036**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	40.330	5.0	40.00	0	101	58	149				
1,1,1-Trichloroethane	39.350	5.0	40.00	0	98.4	67	126				
1,1,2,2-Tetrachloroethane	36.770	5.0	40.00	0	91.9	18	193				
1,1,2-Trichloroethane	39.880	5.0	40.00	0	99.7	70	136				
1,1-Dichloroethane	40.300	5.0	40.00	0	101	65	134				
1,1-Dichloroethene	39.960	5.0	40.00	0	99.9	61	135				
1,1-Dichloropropene	36.830	5.0	40.00	0	92.1	68	125				
1,2,3-Trichlorobenzene	41.350	5.0	40.00	0	103	40	134				
1,2,3-Trichloropropane	36.550	5.0	40.00	0	91.4	38	167				
1,2,4-Trichlorobenzene	41.250	5.0	40.00	0	103	40	132				
1,2,4-Trimethylbenzene	37.070	5.0	40.00	0	92.7	58	123				
1,2-Dibromo-3-chloropropane	36.340	10	40.00	0	90.9	30	181				
1,2-Dibromoethane	40.580	5.0	40.00	0	101	67	139				
1,2-Dichlorobenzene	39.630	5.0	40.00	0	99.1	65	122				
1,2-Dichloroethane	41.420	5.0	40.00	0	104	63	149				
1,2-Dichloropropane	39.980	5.0	40.00	0	100	69	127				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N011054-002AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90403**
Client ID: **ZZZZZZ** Batch ID: **Q13VS003** TestNo: **EPA 8260B** Analysis Date: **9/21/2013** SeqNo: **1649036**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	36.610	5.0	40.00	0	91.5	58	122				
1,3-Dichlorobenzene	39.390	5.0	40.00	0	98.5	64	120				
1,3-Dichloropropane	38.700	5.0	40.00	0	96.8	64	141				
1,4-Dichlorobenzene	39.630	5.0	40.00	0	99.1	62	122				
2,2-Dichloropropane	39.540	5.0	40.00	0	98.8	62	138				
2-Chlorotoluene	37.300	5.0	40.00	0	93.3	59	124				
4-Chlorotoluene	37.370	5.0	40.00	0	93.4	60	123				
4-Isopropyltoluene	36.900	5.0	40.00	0	92.2	50	124				
Benzene	38.850	5.0	40.00	0	97.1	72	122				
Bromobenzene	40.340	5.0	40.00	0	101	64	129				
Bromodichloromethane	41.650	5.0	40.00	0	104	67	142				
Bromoform	41.110	5.0	40.00	0	103	35	192				
Bromomethane	53.990	5.0	40.00	0	135	62	150				
Carbon tetrachloride	37.910	5.0	40.00	0	94.8	56	142				
Chlorobenzene	39.240	5.0	40.00	0	98.1	71	120				
Chloroethane	43.070	5.0	40.00	0	108	55	149				
Chloroform	40.910	5.0	40.00	0	102	70	135				
Chloromethane	44.530	5.0	40.00	0	111	37	151				
cis-1,2-Dichloroethene	40.650	5.0	40.00	0	102	69	131				
cis-1,3-Dichloropropene	39.310	5.0	40.00	0	98.3	71	129				
Dibromochloromethane	41.200	5.0	40.00	0	103	53	161				
Dibromomethane	41.170	5.0	40.00	0	103	66	145				
Dichlorodifluoromethane	48.440	5.0	40.00	0	121	52	135				
Ethylbenzene	36.890	5.0	40.00	0	92.2	65	120				
Hexachlorobutadiene	38.450	5.0	40.00	0	96.1	22	135				
Isopropylbenzene	36.380	5.0	40.00	0	91.0	60	121				
m,p-Xylene	73.940	10	80.00	0	92.4	65	120				
Methylene chloride	44.420	5.0	40.00	0	111	55	138				
MTBE	40.180	5.0	40.00	0	100	64	149				
n-Butylbenzene	36.380	5.0	40.00	0	91.0	43	126				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **N011054-002AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **90403**
Client ID: **ZZZZZZ** Batch ID: **Q13VS003** TestNo: **EPA 8260B** Analysis Date: **9/21/2013** SeqNo: **1649036**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	36.260	5.0	40.00	0	90.7	56	122				
Naphthalene	38.380	5.0	40.00	0	96.0	48	139				
o-Xylene	37.710	5.0	40.00	0	94.3	67	118				
sec-Butylbenzene	35.820	5.0	40.00	0	89.6	50	123				
Styrene	37.810	5.0	40.00	0	94.5	57	129				
tert-Butylbenzene	36.750	5.0	40.00	0	91.9	54	121				
Tetrachloroethene	37.540	5.0	40.00	0	93.8	35	149				
Toluene	38.310	5.0	40.00	0	95.8	68	120				
trans-1,2-Dichloroethene	38.630	5.0	40.00	0	96.6	62	139				
Trichloroethene	39.700	5.0	40.00	0	99.2	63	134				
Trichlorofluoromethane	41.720	5.0	40.00	0	104	34	179				
Vinyl chloride	42.020	5.0	40.00	0	105	57	136				
Surr: 1,2-Dichloroethane-d4	54.470		50.00		109	63	139				
Surr: 4-Bromofluorobenzene	47.870		50.00		95.7	75	124				
Surr: Dibromofluoromethane	53.820		50.00		108	70	133				
Surr: Toluene-d8	49.050		50.00		98.1	80	123				

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_SIM

Sample ID: **LCS-43898** SampType: **LCS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90365**
Client ID: **LCSS** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647664**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	23.333	5.0	33.30	0	70.1	44	127				
Acenaphthene	23.667	5.0	33.30	0	71.1	50	125				
Acenaphthylene	23.333	5.0	33.30	0	70.1	52	125				
Anthracene	27.667	5.0	33.30	0	83.1	46	133				
Benzo(a)anthracene	29.333	5.0	33.30	0	88.1	63	141				
Benzo(a)pyrene	29.333	5.0	33.30	0	88.1	63	139				
Benzo(b)fluoranthene	32.333	5.0	33.30	0	97.1	63	151				
Benzo(g,h,i)perylene	29.000	5.0	33.30	0	87.1	59	148				
Benzo(k)fluoranthene	30.000	5.0	33.30	0	90.1	61	151				
Chrysene	28.667	5.0	33.30	0	86.1	68	139				
Dibenz(a,h)anthracene	30.000	5.0	33.30	0	90.1	59	146				
Fluoranthene	29.333	5.0	33.30	0	88.1	67	135				
Fluorene	24.333	5.0	33.30	0	73.1	50	131				
Indeno(1,2,3-cd)pyrene	30.000	5.0	33.30	0	90.1	59	142				
Naphthalene	22.333	5.0	33.30	0	67.1	45	125				
Phenanthrene	25.000	5.0	33.30	0	75.1	54	125				
Pyrene	28.333	5.0	33.30	0	85.1	66	132				
Surr: 1,2-Dichlorobenzene-d4	18.667		33.30		56.1	14	120				
Surr: 2-Fluorobiphenyl	21.000		33.30		63.1	28	130				
Surr: 4-Terphenyl-d14	28.667		33.30		86.1	19	165				
Surr: Nitrobenzene-d5	22.333		33.30		67.1	23	150				

Sample ID: **N011008-021A-MS** SampType: **MS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90365**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647665**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	84.109	5.0	132.9	0	63.3	44	127				
Acenaphthene	90.426	5.0	132.9	0	68.0	50	125				
Acenaphthylene	108.045	5.0	132.9	1.332	80.3	52	125				
Anthracene	164.894	5.0	132.9	2.332	122	46	133				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_SIM

Sample ID: **N011008-021A-MS** SampType: **MS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90365**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647665**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)anthracene	184.840	5.0	132.9	5.330	135	63	141				
Benzo(a)pyrene	177.194	5.0	132.9	9.993	126	63	139				
Benzo(b)fluoranthene	172.872	5.0	132.9	17.65	117	63	151				
Benzo(g,h,i)perylene	82.779	5.0	132.9	3.664	59.5	59	148				
Benzo(k)fluoranthene	134.973	5.0	132.9	4.997	97.8	61	151				
Chrysene	174.867	5.0	132.9	19.32	117	68	139				
Dibenz(a,h)anthracene	79.455	5.0	132.9	0	59.8	59	146				
Fluoranthene	251.995	5.0	132.9	14.99	178	67	135				S
Fluorene	120.346	5.0	132.9	0	90.5	50	131				
Indeno(1,2,3-cd)pyrene	92.753	5.0	132.9	1.999	68.3	59	142				
Naphthalene	80.785	5.0	132.9	0	60.8	45	125				
Phenanthrene	319.814	5.0	132.9	7.662	235	54	125				SE
Pyrene	299.535	5.0	132.9	21.65	209	66	132				SE
Surr: 1,2-Dichlorobenzene-d4	12.633		33.21		38.0	14	120				
Surr: 2-Fluorobiphenyl	17.620		33.21		53.1	28	130				
Surr: 4-Terphenyl-d14	24.269		33.21		73.1	19	165				
Surr: Nitrobenzene-d5	17.620		33.21		53.1	23	150				

Sample ID: **N011008-021A-MSD** SampType: **MSD** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90365**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647666**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	56.371	5.0	133.4	0	42.3	44	127	84.11	39.5	20	SR
Acenaphthene	67.712	5.0	133.4	0	50.8	50	125	90.43	28.7	20	R
Acenaphthylene	67.378	5.0	133.4	1.332	49.5	52	125	108.0	46.4	20	SR
Anthracene	99.733	5.0	133.4	2.332	73.0	46	133	164.9	49.2	20	R
Benzo(a)anthracene	122.748	5.0	133.4	5.330	88.0	63	141	184.8	40.4	20	R
Benzo(a)pyrene	138.759	5.0	133.4	9.993	96.5	63	139	177.2	24.3	20	R
Benzo(b)fluoranthene	132.088	5.0	133.4	17.65	85.8	63	151	172.9	26.7	20	R
Benzo(g,h,i)perylene	78.052	5.0	133.4	3.664	55.8	59	148	82.78	5.88	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **N011008-021A-MSD** SampType: **MSD** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90365**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647666**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	129.420	5.0	133.4	4.997	93.3	61	151	135.0	4.20	20	
Chrysene	115.077	5.0	133.4	19.32	71.8	68	139	174.9	41.2	20	R
Dibenz(a,h)anthracene	71.714	5.0	133.4	0	53.8	59	146	79.45	10.2	20	S
Fluoranthene	180.454	5.0	133.4	14.99	124	67	135	252.0	33.1	20	R
Fluorene	72.382	5.0	133.4	0	54.3	50	131	120.3	49.8	20	R
Indeno(1,2,3-cd)pyrene	85.057	5.0	133.4	1.999	62.3	59	142	92.75	8.66	20	
Naphthalene	48.699	5.0	133.4	0	36.5	45	125	80.78	49.6	20	SR
Phenanthrene	104.069	5.0	133.4	7.662	72.3	54	125	319.8	102	20	R
Pyrene	212.809	5.0	133.4	21.65	143	66	132	299.5	33.9	20	SR
Surr: 1,2-Dichlorobenzene-d4	6.671		33.32		20.0	14	120		0		
Surr: 2-Fluorobiphenyl	10.674		33.32		32.0	28	130		0		
Surr: 4-Terphenyl-d14	20.347		33.32		61.1	19	165		0		
Surr: Nitrobenzene-d5	9.673		33.32		29.0	23	150		0		

Sample ID: **MB1-43898** SampType: **MBLK** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90365**
Client ID: **PBS** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647667**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	5.0									
Acenaphthene	ND	5.0									
Acenaphthylene	ND	5.0									
Anthracene	ND	5.0									
Benzo(a)anthracene	ND	5.0									
Benzo(a)pyrene	ND	5.0									
Benzo(b)fluoranthene	ND	5.0									
Benzo(g,h,i)perylene	ND	5.0									
Benzo(k)fluoranthene	ND	5.0									
Chrysene	ND	5.0									
Dibenz(a,h)anthracene	ND	5.0									
Fluoranthene	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_SIM

Sample ID: **MB1-43898** SampType: **MBLK** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90365**
Client ID: **PBS** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647667**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	ND	5.0									
Indeno(1,2,3-cd)pyrene	ND	5.0									
Naphthalene	ND	5.0									
Phenanthrene	ND	5.0									
Pyrene	ND	5.0									
Surr: 1,2-Dichlorobenzene-d4	13.333		33.30		40.0	14	120				
Surr: 2-Fluorobiphenyl	16.667		33.30		50.1	28	130				
Surr: 4-Terphenyl-d14	25.333		33.30		76.1	19	165				
Surr: Nitrobenzene-d5	17.000		33.30		51.1	23	150				

Sample ID: **N011008-022A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90365**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647673**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	5.0						0	0	20	
Acenaphthene	3.329	5.0						3.322	0	20	
Acenaphthylene	10.985	5.0						23.26	71.7	20	R
Anthracene	19.640	5.0						134.9	149	20	R
Fluoranthene	74.900	5.0						480.1	146	20	R
Fluorene	3.329	5.0						22.26	0	20	
Naphthalene	ND	5.0						2.990	0	20	
Phenanthrene	73.569	5.0						297.3	121	20	R
Pyrene	93.542	5.0						503.3	137	20	R
Surr: 1,2-Dichlorobenzene-d4	13.316		33.26		40.0	14	120		0		
Surr: 2-Fluorobiphenyl	17.643		33.26		53.1	28	130		0		
Surr: Nitrobenzene-d5	19.308		33.26		58.1	23	150		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_SIM

Sample ID: **MB2-43898** SampType: **MBLK** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90365**
Client ID: **PBS** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/18/2013** SeqNo: **1647680**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	5.0									
Acenaphthene	ND	5.0									
Acenaphthylene	ND	5.0									
Anthracene	ND	5.0									
Benzo(a)anthracene	ND	5.0									
Benzo(a)pyrene	ND	5.0									
Benzo(b)fluoranthene	ND	5.0									
Benzo(g,h,i)perylene	ND	5.0									
Benzo(k)fluoranthene	ND	5.0									
Chrysene	ND	5.0									
Dibenz(a,h)anthracene	ND	5.0									
Fluoranthene	ND	5.0									
Fluorene	ND	5.0									
Indeno(1,2,3-cd)pyrene	ND	5.0									
Naphthalene	ND	5.0									
Phenanthrene	ND	5.0									
Pyrene	ND	5.0									
Surr: 1,2-Dichlorobenzene-d4	17.000		33.30		51.1	14	120				
Surr: 2-Fluorobiphenyl	19.667		33.30		59.1	28	130				
Surr: 4-Terphenyl-d14	26.667		33.30		80.1	19	165				
Surr: Nitrobenzene-d5	21.333		33.30		64.1	23	150				

Sample ID: **N011009-018A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90365**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1647686**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	5.0						0	0	20	
Acenaphthene	2.999	5.0						4.345	0	20	
Acenaphthylene	38.321	5.0						28.74	28.6	20	R
Anthracene	42.319	5.0						33.76	22.5	20	R

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_SIM

Sample ID: **N011009-018A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90365**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1647686**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	9.997	5.0						8.021	21.9	20	R
Naphthalene	4.332	5.0						3.342	0	20	
Phenanthrene	196.601	5.0						177.1	10.4	20	
Surr: 1,2-Dichlorobenzene-d4	16.328		33.29		49.0	14	120		0		
Surr: 2-Fluorobiphenyl	19.327		33.29		58.1	28	130		0		
Surr: Nitrobenzene-d5	22.659		33.29		68.1	23	150		0		

Sample ID: **N011009-017A-MS** SampType: **MS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90365**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1647692**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	108.478	5.0	133.5	0	81.3	44	127				
Acenaphthene	107.143	5.0	133.5	1.994	78.8	50	125				
Acenaphthylene	161.883	5.0	133.5	36.89	93.6	52	125				
Anthracene	164.219	5.0	133.5	35.56	96.4	46	133				
Fluorene	126.168	5.0	133.5	7.976	88.5	50	131				
Naphthalene	100.467	5.0	133.5	5.317	71.3	45	125				
Surr: 1,2-Dichlorobenzene-d4	16.021		133.5		12.0	14	120				S
Surr: 2-Fluorobiphenyl	22.029		33.34		66.1	28	130				
Surr: Nitrobenzene-d5	24.700		33.34		74.1	23	150				

Sample ID: **N011008-022A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90384**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/22/2013** SeqNo: **1648144**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)anthracene	46.605	50						272.8	0	20	
Benzo(a)pyrene	46.605	50						251.2	0	20	
Benzo(b)fluoranthene	39.947	50						361.5	0	20	
Benzo(g,h,i)perylene	33.289	50						27.24	0	20	
Benzo(k)fluoranthene	16.644	50						156.8	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **N011008-022A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90384**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/22/2013** SeqNo: **1648144**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	39.947	50						270.1	0	20	
Dibenz(a,h)anthracene	ND	50						9.967	0	20	
Indeno(1,2,3-cd)pyrene	23.302	50						29.57	0	20	
Surr: 4-Terphenyl-d14	29.960		33.26		90.1	19	165		0		

Sample ID: **N011009-018A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90392**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/22/2013** SeqNo: **1648506**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)anthracene	219.927	50						337.6	42.2	20	R
Chrysene	283.239	50						431.1	41.4	20	R
Surr: 4-Terphenyl-d14	26.658		33.29		80.1	19	165		0		

Sample ID: **N011009-017A-MS** SampType: **MS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90392**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/22/2013** SeqNo: **1648512**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)anthracene	327.103	50	133.5	192.8	101	63	141				
Chrysene	400.534	50	133.5	255.9	108	68	139				
Surr: 4-Terphenyl-d14	33.378		33.34		100	19	165				

Sample ID: **N011009-018A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90408**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/23/2013** SeqNo: **1649057**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	619.793	100						707.2	13.2	20	
Benzo(b)fluoranthene	493.169	100						929.5	61.3	20	R
Benzo(g,h,i)perylene	519.827	100						284.4	58.5	20	R
Benzo(k)fluoranthene	206.598	100						257.7	22.0	20	R

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **N011009-018A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90408**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/23/2013** SeqNo: **1649057**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibenz(a,h)anthracene	26.658	100						29.75	0	20	
Indeno(1,2,3-cd)pyrene	233.256	100						161.4	36.4	20	R

Sample ID: **N011009-017A-MS** SampType: **MS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/18/2013** RunNo: **90408**
Client ID: **ZZZZZZ** Batch ID: **43898** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/23/2013** SeqNo: **1649130**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	634.179	100	133.5	511.8	91.7	63	139				
Benzo(b)fluoranthene	587.450	100	133.5	458.6	96.5	63	151				
Benzo(g,h,i)perylene	567.423	100	133.5	332.3	176	59	148				S
Benzo(k)fluoranthene	280.374	100	133.5	162.8	88.1	61	151				
Dibenz(a,h)anthracene	120.160	100	133.5	19.94	75.1	59	146				
Indeno(1,2,3-cd)pyrene	320.427	100	133.5	159.5	121	59	142				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_SIM

Sample ID: **LCS-43910** SampType: **LCS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/19/2013** RunNo: **90377**
Client ID: **LCSS** Batch ID: **43910** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1648013**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	26.333	5.0	33.30	0	79.1	44	127				
Acenaphthene	26.000	5.0	33.30	0	78.1	50	125				
Acenaphthylene	25.333	5.0	33.30	0	76.1	52	125				
Anthracene	28.333	5.0	33.30	0	85.1	46	133				
Benzo(a)anthracene	29.333	5.0	33.30	0	88.1	63	141				
Benzo(a)pyrene	29.333	5.0	33.30	0	88.1	63	139				
Benzo(b)fluoranthene	31.667	5.0	33.30	0	95.1	63	151				
Benzo(g,h,i)perylene	27.000	5.0	33.30	0	81.1	59	148				
Benzo(k)fluoranthene	30.000	5.0	33.30	0	90.1	61	151				
Chrysene	29.000	5.0	33.30	0	87.1	68	139				
Dibenz(a,h)anthracene	28.667	5.0	33.30	0	86.1	59	146				
Fluoranthene	29.333	5.0	33.30	0	88.1	67	135				
Fluorene	26.333	5.0	33.30	0	79.1	50	131				
Indeno(1,2,3-cd)pyrene	28.667	5.0	33.30	0	86.1	59	142				
Naphthalene	25.000	5.0	33.30	0	75.1	45	125				
Phenanthrene	25.000	5.0	33.30	0	75.1	54	125				
Pyrene	28.333	5.0	33.30	0	85.1	66	132				
Surr: 1,2-Dichlorobenzene-d4	19.000		33.30		57.1	14	120				
Surr: 2-Fluorobiphenyl	21.333		33.30		64.1	28	130				
Surr: 4-Terphenyl-d14	27.333		33.30		82.1	19	165				
Surr: Nitrobenzene-d5	25.333		33.30		76.1	23	150				

Sample ID: **N011009-028A-MS** SampType: **MS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/19/2013** RunNo: **90377**
Client ID: **ZZZZZZ** Batch ID: **43910** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1648014**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	94.051	5.0	132.9	0	70.8	44	127				
Acenaphthene	94.051	5.0	132.9	1.338	69.8	50	125				
Acenaphthylene	92.722	5.0	132.9	1.338	68.8	52	125				
Anthracene	105.351	5.0	132.9	0	79.3	46	133				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_SIM

Sample ID: **N011009-028A-MS** SampType: **MS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/19/2013** RunNo: **90377**
Client ID: **ZZZZZZ** Batch ID: **43910** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1648014**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)anthracene	106.348	5.0	132.9	2.676	78.0	63	141				
Benzo(a)pyrene	105.018	5.0	132.9	3.344	76.5	63	139				
Benzo(b)fluoranthene	114.656	5.0	132.9	6.355	81.5	63	151				
Benzo(g,h,i)perylene	71.452	5.0	132.9	1.672	52.5	59	148				S
Benzo(k)fluoranthene	109.671	5.0	132.9	1.672	81.3	61	151				
Chrysene	102.692	5.0	132.9	4.013	74.2	68	139				
Dibenz(a,h)anthracene	81.422	5.0	132.9	0	61.3	59	146				
Fluoranthene	113.327	5.0	132.9	5.017	81.5	67	135				
Fluorene	96.710	5.0	132.9	0	72.8	50	131				
Indeno(1,2,3-cd)pyrene	81.422	5.0	132.9	0	61.3	59	142				
Naphthalene	87.404	5.0	132.9	2.341	64.0	45	125				
Phenanthrene	100.033	5.0	132.9	2.341	73.5	54	125				
Pyrene	109.006	5.0	132.9	5.686	77.7	66	132				
Surr: 1,2-Dichlorobenzene-d4	12.629		33.20		38.0	14	120				
Surr: 2-Fluorobiphenyl	18.611		33.20		56.1	28	130				
Surr: 4-Terphenyl-d14	20.273		33.20		61.1	19	165				
Surr: Nitrobenzene-d5	24.925		33.20		75.1	23	150				

Sample ID: **N011009-028A-MSD** SampType: **MSD** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/19/2013** RunNo: **90377**
Client ID: **ZZZZZZ** Batch ID: **43910** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1648015**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	104.348	5.0	133.7	0	78.0	44	127	94.05	10.4	20	
Acenaphthene	102.341	5.0	133.7	1.338	75.5	50	125	94.05	8.44	20	
Acenaphthylene	103.679	5.0	133.7	1.338	76.5	52	125	92.72	11.2	20	
Anthracene	111.371	5.0	133.7	0	83.3	46	133	105.4	5.56	20	
Benzo(a)anthracene	117.057	5.0	133.7	2.676	85.5	63	141	106.3	9.59	20	
Benzo(a)pyrene	116.054	5.0	133.7	3.344	84.3	63	139	105.0	9.98	20	
Benzo(b)fluoranthene	126.087	5.0	133.7	6.355	89.5	63	151	114.7	9.50	20	
Benzo(g,h,i)perylene	57.860	5.0	133.7	1.672	42.0	59	148	71.45	21.0	20	SR

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_SIM

Sample ID: **N011009-028A-MSD** SampType: **MSD** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/19/2013** RunNo: **90377**
Client ID: **ZZZZZZ** Batch ID: **43910** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1648015**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	127.425	5.0	133.7	1.672	94.0	61	151	109.7	15.0	20	
Chrysene	113.712	5.0	133.7	4.013	82.0	68	139	102.7	10.2	20	
Dibenz(a,h)anthracene	69.231	5.0	133.7	0	51.8	59	146	81.42	16.2	20	S
Fluoranthene	121.405	5.0	133.7	5.017	87.0	67	135	113.3	6.88	20	
Fluorene	106.355	5.0	133.7	0	79.5	50	131	96.71	9.50	20	
Indeno(1,2,3-cd)pyrene	69.565	5.0	133.7	0	52.0	59	142	81.42	15.7	20	S
Naphthalene	98.997	5.0	133.7	2.341	72.3	45	125	87.40	12.4	20	
Phenanthrene	107.358	5.0	133.7	2.341	78.5	54	125	100.0	7.06	20	
Pyrene	124.749	5.0	133.7	5.686	89.0	66	132	109.0	13.5	20	
Surr: 1,2-Dichlorobenzene-d4	16.388		33.41		49.0	14	120		0		
Surr: 2-Fluorobiphenyl	20.401		33.41		61.1	28	130		0		
Surr: 4-Terphenyl-d14	20.401		33.41		61.1	19	165		0		
Surr: Nitrobenzene-d5	25.753		33.41		77.1	23	150		0		

Sample ID: **MB1-43910** SampType: **MBLK** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/19/2013** RunNo: **90377**
Client ID: **PBS** Batch ID: **43910** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1648016**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	5.0									
Acenaphthene	ND	5.0									
Acenaphthylene	ND	5.0									
Anthracene	ND	5.0									
Benzo(a)anthracene	ND	5.0									
Benzo(a)pyrene	ND	5.0									
Benzo(b)fluoranthene	ND	5.0									
Benzo(g,h,i)perylene	ND	5.0									
Benzo(k)fluoranthene	ND	5.0									
Chrysene	ND	5.0									
Dibenz(a,h)anthracene	ND	5.0									
Fluoranthene	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **MB1-43910** SampType: **MBLK** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/19/2013** RunNo: **90377**
Client ID: **PBS** Batch ID: **43910** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/19/2013** SeqNo: **1648016**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	ND	5.0									
Indeno(1,2,3-cd)pyrene	ND	5.0									
Naphthalene	ND	5.0									
Phenanthrene	ND	5.0									
Pyrene	ND	5.0									
Surr: 1,2-Dichlorobenzene-d4	16.667		33.30		50.1	14	120				
Surr: 2-Fluorobiphenyl	19.333		33.30		58.1	28	130				
Surr: 4-Terphenyl-d14	27.667		33.30		83.1	19	165				
Surr: Nitrobenzene-d5	23.000		33.30		69.1	23	150				

Sample ID: **N011009-052A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/19/2013** RunNo: **90378**
Client ID: **ZZZZZZ** Batch ID: **43910** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648036**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	5.0						6.649	0	20	
Acenaphthene	2.326	5.0						6.981	0	20	
Acenaphthylene	52.492	5.0						27.59	62.2	20	R
Anthracene	43.522	5.0						30.25	36.0	20	R
Fluorene	7.973	5.0						9.309	15.5	20	
Naphthalene	5.980	5.0						7.314	20.1	20	R
Phenanthrene	262.458	5.0						203.1	25.5	20	R
Surr: 1,2-Dichlorobenzene-d4	13.621		33.19		41.0	14	120		0		
Surr: 2-Fluorobiphenyl	17.940		33.19		54.1	28	130		0		
Surr: Nitrobenzene-d5	15.947		33.19		48.0	23	150		0		

Sample ID: **MB2-43910** SampType: **MBLK** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/19/2013** RunNo: **90383**
Client ID: **PBS** Batch ID: **43910** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648121**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_SIM

Sample ID: **MB2-43910** SampType: **MBLK** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/19/2013** RunNo: **90383**
Client ID: **PBS** Batch ID: **43910** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648121**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	5.0									
Acenaphthylene	ND	5.0									
Anthracene	ND	5.0									
Benzo(a)anthracene	ND	5.0									
Benzo(a)pyrene	ND	5.0									
Benzo(b)fluoranthene	ND	5.0									
Benzo(g,h,i)perylene	ND	5.0									
Benzo(k)fluoranthene	ND	5.0									
Chrysene	ND	5.0									
Dibenz(a,h)anthracene	ND	5.0									
Fluoranthene	ND	5.0									
Fluorene	ND	5.0									
Indeno(1,2,3-cd)pyrene	ND	5.0									
Naphthalene	ND	5.0									
Phenanthrene	ND	5.0									
Pyrene	ND	5.0									
Surr: 1,2-Dichlorobenzene-d4	18.000		33.30		54.1	14	120				
Surr: 2-Fluorobiphenyl	17.667		33.30		53.1	28	130				
Surr: 4-Terphenyl-d14	27.667		33.30		83.1	19	165				
Surr: Nitrobenzene-d5	17.667		33.30		53.1	23	150				

Sample ID: **N011009-033A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/19/2013** RunNo: **90383**
Client ID: **ZZZZZZ** Batch ID: **43910** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648125**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	10						0	0	20	
Acenaphthene	ND	10						0	0	20	
Acenaphthylene	8.000	10						0	0	20	
Anthracene	10.667	10						0	0	20	
Benzo(a)anthracene	56.000	10						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_SIM

Sample ID: **N011009-033A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/19/2013** RunNo: **90383**
Client ID: **ZZZZZZ** Batch ID: **43910** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648125**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	78.667	10						0	0	20	
Fluoranthene	156.667	10						0	0	20	
Fluorene	2.667	10						0	0	20	
Naphthalene	ND	10						0	0	20	
Phenanthrene	64.000	10						0	0	20	
Pyrene	242.000	10						0	0	20	
Surr: 1,2-Dichlorobenzene-d4	18.000		33.30		54.1	14	120		0		
Surr: 2-Fluorobiphenyl	16.000		33.30		48.0	28	130		0		
Surr: 4-Terphenyl-d14	23.333		33.30		70.1	19	165		0		
Surr: Nitrobenzene-d5	18.667		33.30		56.1	23	150		0		

Sample ID: **N011009-033A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/19/2013** RunNo: **90402**
Client ID: **ZZZZZZ** Batch ID: **43910** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/22/2013** SeqNo: **1648972**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	153.333	50						46.74	107	20	R
Benzo(b)fluoranthene	173.333	50						73.46	80.9	20	R
Benzo(g,h,i)perylene	116.667	50						33.39	111	20	R
Benzo(k)fluoranthene	70.000	50						26.71	89.5	20	R
Dibenz(a,h)anthracene	16.667	50						0	0	20	
Indeno(1,2,3-cd)pyrene	70.000	50						23.37	99.9	20	R

Sample ID: **N011009-052A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/19/2013** RunNo: **90402**
Client ID: **ZZZZZZ** Batch ID: **43910** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/23/2013** SeqNo: **1648981**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)anthracene	249.169	50						169.5	38.0	20	R
Benzo(a)pyrene	833.887	50						541.9	42.4	20	R
Benzo(b)fluoranthene	607.973	50						382.3	45.6	20	R
Benzo(g,h,i)perylene	700.997	50						458.8	41.8	20	R

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_SIM

Sample ID: **N011009-052A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/19/2013** RunNo: **90402**
Client ID: **ZZZZZZ** Batch ID: **43910** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/23/2013** SeqNo: **1648981**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	242.525	50						162.9	39.3	20	R
Chrysene	328.904	50						216.1	41.4	20	R
Dibenz(a,h)anthracene	26.578	50						16.62	0	20	
Fluoranthene	906.977	50						678.2	28.9	20	R
Indeno(1,2,3-cd)pyrene	259.136	50						172.9	39.9	20	R
Pyrene	1973.422	50						1403	33.8	20	R
Surr: 4-Terphenyl-d14	33.223		33.19		100	19	165		0		

Sample ID: **N011009-052A-MS** SampType: **MS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/19/2013** RunNo: **90402**
Client ID: **ZZZZZZ** Batch ID: **43910** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/23/2013** SeqNo: **1648988**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	63.397	50	133.4	6.649	42.5	44	127				S
Acenaphthene	83.417	50	133.4	6.981	57.3	50	125				
Acenaphthylene	113.447	50	133.4	27.59	64.3	52	125				
Anthracene	116.783	50	133.4	30.25	64.8	46	133				
Benzo(a)anthracene	243.577	50	133.4	148.6	71.2	63	141				
Chrysene	286.954	50	133.4	189.2	73.3	68	139				
Fluoranthene	720.721	50	133.4	540.9	135	67	135				
Fluorene	83.417	50	133.4	9.309	55.5	50	131				
Naphthalene	73.407	50	133.4	7.314	49.5	45	125				
Phenanthrene	276.944	50	133.4	203.1	55.3	54	125				
Pyrene	1404.738	50	133.4	1019	289	66	132				S
Surr: 1,2-Dichlorobenzene-d4	20.020		33.33		60.1	14	120				
Surr: 2-Fluorobiphenyl	13.347		33.33		40.0	28	130				
Surr: 4-Terphenyl-d14	23.357		33.33		70.1	19	165				
Surr: Nitrobenzene-d5	13.347		33.33		40.0	23	150				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: **8270SOIL_SIM**

Sample ID: **N011009-052A-MS** SampType: **MS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/19/2013** RunNo: **90413**
Client ID: **ZZZZZZ** Batch ID: **43910** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/23/2013** SeqNo: **1649137**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	567.234	100	133.4	541.9	19.0	63	139				S
Benzo(b)fluoranthene	393.727	100	133.4	382.3	8.55	63	151				S
Benzo(g,h,i)perylene	700.701	100	133.4	458.8	181	59	148				S
Benzo(k)fluoranthene	220.220	100	133.4	162.9	43.0	61	151				S
Dibenz(a,h)anthracene	80.080	100	133.4	16.62	47.6	59	146				S
Indeno(1,2,3-cd)pyrene	280.280	100	133.4	172.9	80.5	59	142				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **LCS-43920** SampType: **LCS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/20/2013** RunNo: **90381**
Client ID: **LCSS** Batch ID: **43920** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/20/2013** SeqNo: **1648103**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	22.667	5.0	33.30	0	68.1	44	127				
Acenaphthene	26.333	5.0	33.30	0	79.1	50	125				
Acenaphthylene	25.000	5.0	33.30	0	75.1	52	125				
Anthracene	30.333	5.0	33.30	0	91.1	46	133				
Benzo(a)anthracene	29.333	5.0	33.30	0	88.1	63	141				
Benzo(a)pyrene	30.333	5.0	33.30	0	91.1	63	139				
Benzo(b)fluoranthene	30.000	5.0	33.30	0	90.1	63	151				
Benzo(g,h,i)perylene	28.667	5.0	33.30	0	86.1	59	148				
Benzo(k)fluoranthene	34.000	5.0	33.30	0	102	61	151				
Chrysene	30.667	5.0	33.30	0	92.1	68	139				
Dibenz(a,h)anthracene	30.667	5.0	33.30	0	92.1	59	146				
Fluoranthene	31.000	5.0	33.30	0	93.1	67	135				
Fluorene	26.333	5.0	33.30	0	79.1	50	131				
Indeno(1,2,3-cd)pyrene	30.333	5.0	33.30	0	91.1	59	142				
Naphthalene	22.333	5.0	33.30	0	67.1	45	125				
Phenanthrene	25.000	5.0	33.30	0	75.1	54	125				
Pyrene	30.333	5.0	33.30	0	91.1	66	132				
Surr: 1,2-Dichlorobenzene-d4	17.667		33.30		53.1	14	120				
Surr: 2-Fluorobiphenyl	20.000		33.30		60.1	28	130				
Surr: 4-Terphenyl-d14	28.667		33.30		86.1	19	165				
Surr: Nitrobenzene-d5	18.333		33.30		55.1	23	150				

Sample ID: **MB1-43920** SampType: **MBLK** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/20/2013** RunNo: **90381**
Client ID: **PBS** Batch ID: **43920** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648104**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	5.0									
Acenaphthene	ND	5.0									
Acenaphthylene	ND	5.0									
Anthracene	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **MB1-43920** SampType: **MBLK** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/20/2013** RunNo: **90381**
Client ID: **PBS** Batch ID: **43920** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648104**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)anthracene	ND	5.0									
Benzo(a)pyrene	ND	5.0									
Benzo(b)fluoranthene	ND	5.0									
Benzo(g,h,i)perylene	ND	5.0									
Benzo(k)fluoranthene	ND	5.0									
Chrysene	ND	5.0									
Dibenz(a,h)anthracene	ND	5.0									
Fluoranthene	ND	5.0									
Fluorene	ND	5.0									
Indeno(1,2,3-cd)pyrene	ND	5.0									
Naphthalene	ND	5.0									
Phenanthrene	ND	5.0									
Pyrene	ND	5.0									
Surr: 1,2-Dichlorobenzene-d4	14.667		33.30		44.0	14	120				
Surr: 2-Fluorobiphenyl	15.000		33.30		45.0	28	130				
Surr: 4-Terphenyl-d14	25.000		33.30		75.1	19	165				
Surr: Nitrobenzene-d5	15.000		33.30		45.0	23	150				

Sample ID: **MB2-43920** SampType: **MBLK** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/20/2013** RunNo: **90381**
Client ID: **PBS** Batch ID: **43920** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648105**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	5.0									
Acenaphthene	ND	5.0									
Acenaphthylene	ND	5.0									
Anthracene	ND	5.0									
Benzo(a)anthracene	ND	5.0									
Benzo(a)pyrene	ND	5.0									
Benzo(b)fluoranthene	ND	5.0									
Benzo(g,h,i)perylene	ND	5.0									

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_SIM

Sample ID: **MB2-43920** SampType: **MBLK** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/20/2013** RunNo: **90381**
Client ID: **PBS** Batch ID: **43920** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648105**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	ND	5.0									
Chrysene	ND	5.0									
Dibenz(a,h)anthracene	ND	5.0									
Fluoranthene	ND	5.0									
Fluorene	ND	5.0									
Indeno(1,2,3-cd)pyrene	ND	5.0									
Naphthalene	ND	5.0									
Phenanthrene	ND	5.0									
Pyrene	ND	5.0									
Surr: 1,2-Dichlorobenzene-d4	12.000		33.30		36.0	14	120				
Surr: 2-Fluorobiphenyl	12.667		33.30		38.0	28	130				
Surr: 4-Terphenyl-d14	26.000		33.30		78.1	19	165				
Surr: Nitrobenzene-d5	12.333		33.30		37.0	23	150				

Sample ID: **N011009-066A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/20/2013** RunNo: **90381**
Client ID: **ZZZZZZ** Batch ID: **43920** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648108**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	5.0						2.992	0	20	
Acenaphthene	ND	5.0						0	0	20	
Acenaphthylene	1.332	5.0						2.992	0	20	
Anthracene	1.665	5.0						2.992	0	20	
Benzo(a)anthracene	8.325	5.0						9.309	11.2	20	
Chrysene	13.986	5.0						21.94	44.3	20	R
Fluoranthene	14.652	5.0						13.30	9.69	20	
Fluorene	ND	5.0						1.662	0	20	
Naphthalene	ND	5.0						2.327	0	20	
Phenanthrene	8.991	5.0						11.30	22.8	20	R
Pyrene	16.317	5.0						17.29	5.77	20	
Surr: 1,2-Dichlorobenzene-d4	11.655		33.27		35.0	14	120		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **N011009-066A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/20/2013** RunNo: **90381**
Client ID: **ZZZZZZ** Batch ID: **43920** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648108**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	11.988		33.27		36.0	28	130		0		
Surr: 4-Terphenyl-d14	34.299		33.27		103	19	165		0		
Surr: Nitrobenzene-d5	12.321		33.27		37.0	23	150		0		

Sample ID: **N011009-083A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/20/2013** RunNo: **90385**
Client ID: **ZZZZZZ** Batch ID: **43920** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648152**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	10						0	0	20	
Acenaphthene	ND	10						0	0	20	
Acenaphthylene	ND	10						0	0	20	
Anthracene	2.673	10						5.344	0	20	
Fluoranthene	26.729	10						49.43	59.6	20	R
Fluorene	ND	10						0	0	20	
Naphthalene	ND	10						0	0	20	
Phenanthrene	9.355	10						15.36	0	20	
Pyrene	50.117	10						50.77	1.29	20	
Surr: 1,2-Dichlorobenzene-d4	17.374		33.38		52.1	14	120		0		
Surr: 2-Fluorobiphenyl	16.037		33.38		48.0	28	130		0		
Surr: Nitrobenzene-d5	17.374		33.38		52.1	23	150		0		

Sample ID: **N011009-065A-MS** SampType: **MS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/20/2013** RunNo: **90385**
Client ID: **ZZZZZZ** Batch ID: **43920** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648153**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	81.469	10	133.5	0	61.0	44	127				
Acenaphthene	86.144	10	133.5	0	64.5	50	125				
Acenaphthylene	86.144	10	133.5	1.336	63.5	52	125				
Anthracene	98.164	10	133.5	0	73.5	46	133				
Fluoranthene	100.835	10	133.5	33.41	50.5	67	135				S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_SIM

Sample ID: **N011009-065A-MS** SampType: **MS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/20/2013** RunNo: **90385**
Client ID: **ZZZZZZ** Batch ID: **43920** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648153**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	88.147	10	133.5	1.336	65.0	50	131				
Naphthalene	76.127	10	133.5	0	57.0	45	125				
Phenanthrene	95.492	10	133.5	23.39	54.0	54	125				
Pyrene	96.828	10	133.5	32.41	48.2	66	132				S
Surr: 1,2-Dichlorobenzene-d4	14.691		33.36		44.0	14	120				
Surr: 2-Fluorobiphenyl	14.691		33.36		44.0	28	130				
Surr: Nitrobenzene-d5	15.359		33.36		46.0	23	150				

Sample ID: **N011009-065A-MSD** SampType: **MSD** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/20/2013** RunNo: **90385**
Client ID: **ZZZZZZ** Batch ID: **43920** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/21/2013** SeqNo: **1648154**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	86.869	10	133.6	0	65.0	44	127	81.47	6.42	20	
Acenaphthene	94.888	10	133.6	0	71.0	50	125	86.14	9.66	20	
Acenaphthylene	93.552	10	133.6	1.336	69.0	52	125	86.14	8.25	20	
Anthracene	109.589	10	133.6	0	82.0	46	133	98.16	11.0	20	
Fluoranthene	108.253	10	133.6	33.41	56.0	67	135	100.8	7.10	20	S
Fluorene	98.229	10	133.6	1.336	72.5	50	131	88.15	10.8	20	
Naphthalene	79.519	10	133.6	0	59.5	45	125	76.13	4.36	20	
Phenanthrene	108.253	10	133.6	23.39	63.5	54	125	95.49	12.5	20	
Pyrene	101.570	10	133.6	32.41	51.8	66	132	96.83	4.78	20	S
Surr: 1,2-Dichlorobenzene-d4	15.369		33.38		46.0	14	120		0		
Surr: 2-Fluorobiphenyl	17.374		33.38		52.1	28	130		0		
Surr: Nitrobenzene-d5	17.374		33.38		52.1	23	150		0		

Sample ID: **N011009-083A-MS** SampType: **MS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/20/2013** RunNo: **90393**
Client ID: **ZZZZZZ** Batch ID: **43920** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/22/2013** SeqNo: **1648518**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	10	133.3	0	0	44	127				S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_SIM

Sample ID: **N011009-083A-MS** SampType: **MS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/20/2013** RunNo: **90393**
Client ID: **ZZZZZZ** Batch ID: **43920** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/22/2013** SeqNo: **1648518**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	10	133.3	0	0	50	125				S
Acenaphthylene	ND	10	133.3	0	0	52	125				S
Anthracene	ND	10	133.3	5.344	-4.01	46	133				S
Benzo(a)anthracene	10.663	10	133.3	37.41	-20.1	63	141				S
Chrysene	11.996	10	133.3	39.41	-20.6	68	139				S
Fluoranthene	16.661	10	133.3	49.43	-24.6	67	135				S
Fluorene	ND	10	133.3	0	0	50	131				S
Naphthalene	ND	10	133.3	0	0	45	125				S
Phenanthrene	5.998	10	133.3	15.36	-7.03	54	125				S
Pyrene	17.328	10	133.3	50.77	-25.1	66	132				S
Surr: 1,2-Dichlorobenzene-d4	15.995		33.29		48.0	14	120				
Surr: 2-Fluorobiphenyl	13.995		33.29		42.0	28	130				
Surr: 4-Terphenyl-d14	27.991		33.29		84.1	19	165				
Surr: Nitrobenzene-d5	16.661		33.29		50.1	23	150				

Sample ID: **N011009-083A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/20/2013** RunNo: **90407**
Client ID: **ZZZZZZ** Batch ID: **43920** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/23/2013** SeqNo: **1649053**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)anthracene	16.706	50						43.42	0	20	
Benzo(a)pyrene	43.435	50						36.74	0	20	
Benzo(b)fluoranthene	60.140	50						43.42	32.3	20	R
Benzo(g,h,i)perylene	ND	50						0	0	20	
Benzo(k)fluoranthene	23.388	50						26.72	0	20	
Chrysene	23.388	50						43.42	0	20	
Dibenz(a,h)anthracene	ND	50						0	0	20	
Indeno(1,2,3-cd)pyrene	16.706	50						0	0	20	
Surr: 4-Terphenyl-d14	26.729		33.38		80.1	19	165		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **N011009-066A-DUP** SampType: **DUP** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/20/2013** RunNo: **90409**
Client ID: **ZZZZZZ** Batch ID: **43920** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/23/2013** SeqNo: **1649063**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	13.320	50						16.62	0	20	
Benzo(b)fluoranthene	23.310	50						26.60	0	20	
Benzo(g,h,i)perylene	ND	50						16.62	0	20	
Benzo(k)fluoranthene	ND	50						0	0	20	
Dibenz(a,h)anthracene	ND	50						0	0	20	
Indeno(1,2,3-cd)pyrene	ND	50						0	0	20	

Sample ID: **N011009-083A-MS** SampType: **MS** TestCode: **8270SOIL_SI** Units: **µg/Kg** Prep Date: **9/20/2013** RunNo: **90407**
Client ID: **ZZZZZZ** Batch ID: **43920** TestNo: **EPA 8270CSI EPA 3550B** Analysis Date: **9/23/2013** SeqNo: **1649504**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)anthracene	ND	100	133.3	43.42	-32.6	63	141				S
Benzo(a)pyrene	ND	100	133.3	36.74	-27.6	63	139				S
Benzo(b)fluoranthene	ND	100	133.3	43.42	-32.6	63	151				S
Benzo(g,h,i)perylene	ND	100	133.3	0	0	59	148				S
Benzo(k)fluoranthene	ND	100	133.3	26.72	-20.1	61	151				S
Chrysene	ND	100	133.3	43.42	-32.6	68	139				S
Dibenz(a,h)anthracene	ND	100	133.3	0	0	59	146				S
Indeno(1,2,3-cd)pyrene	ND	100	133.3	0	0	59	142				S
Surr: 4-Terphenyl-d14	26.658		33.29		80.1	19	165				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CHAIN OF CUSTODY RECORD

Page 1 of 10

Advanced Technology Laboratories, Inc.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel:(702) 307-2659•Fax:(702) 307-2691

FOR LABORATORY USE ONLY:

P.O.#

Logged By: MSC Date: 9/13/13

Method of Transport
Client ☐
ATL INC ☐
FEDEX ☐
Other:

3.C, 5.4

Sample Condition Upon Receipt
1. CHILLED ICE in #2 Y☐ N☐
2. HEADSPACE (VOA) Y☐ N☐
3. CONTAINER INTACT Y☐ N☐
4. SEALED Y☐ N☐
5. # OF SPLS MATCH COC Y☐ N☐
6. PRESERVED Y☐ N☐

Client: Geocon
Attn: R.S.Ivo
Address: 3160 Gold Valley Dr #800
City Rancho Cordova State CA Zip Code 95742
TEL:(916) 852-9118
FAX:(916) 852-9132

Project Name: 800 Cedar St
Project #: E8560-02-55
Sampler: I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
(Printed Name) M. Obrien
(Signature)

Relinquished by: (Signature and Printed name) Date: 9/12/13 Time: 1600 Received by: (Signature and Printed name) GSO Date: 9/12/13 Time: 1600
Relinquished by: (Signature and Printed name) Date: Time: Received by: (Signature and Printed name) Date: 13SEPT13 Time: 1000
Relinquished by: (Signature and Printed name) Date: Time: Received by: (Signature and Printed name) Date: Time:

I hereby authorize ATL INC to perform the work indicated below:
Project Mgr/Submitter:
M. Obrien 9/12/13
Print Name Date
Signature

Send Report To:
Attn:
Co:
Address:
City State Zip

Bill To:
Attn:
Co:
Address:
City State Zip

Special Instructions/Comments:
Hold all Sample until Authorization is given

Sample/Records-Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
- Sample : $ 2.00 / sample / mo (after 45 days)
- Records : $ 1.00 / ATL workorder / mo (after 1 year)

QA/QC
RTNE ☐
CT ☒
RWQCB ☐
LEVEL IV____
OTHER____

LAB USE ONLY: Batch #:

ITEM	Lab No.	Sample I.D. / Location	Date	Time	8260B (VOC)	8260B (BTEX),(MTBE)	8015B (GRO)	8015B (DRO),(Motor Oil/ORO)	RCRA8 (6010B/7000)	Lead (6010)	CAM 17 (7420)	CR VI (7196)	PAH (8310)	Pesticides, PCBs (8081, 8082)	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	N011009-1	A1-0	9/11/13	955				X			X				X					1	P T	C	Hold
	-2	4	↓	957	X		X	X			X			X	↓					↓		↓	↓
	-3	↓ 7.5		959	X		X	X		X													
	-	A2-0		1015						X			X										
	-	4		1017							X		X										
	-	↓ 7.5		1019							X	X	X	X									
	-	A3-0		1025				X			X			X									
	-	4		1027	X		X	X		X													
	-	↓ 7.5		1029				X			X												
	-10	A4-0	↓	1035						X			X		↓					↓		↓	↓

•TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: ☐ A= Overnight ≤ 24 hr ☐ B= Emergency Next workday ☐ C= Critical 2 Workdays ☐ D= Urgent 3 Workdays ☐ E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedllar G=Glass P=Plastic M=Metal

Preservatives:
H=Hcl N=HNO_3 S=H_2SO_4 C=4°C
Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter

CHAIN OF CUSTODY RECORD

Page 2 of 10

Advanced Technology Laboratories, Inc.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel:(702) 307-2659•Fax:(702) 307-2691

FOR LABORATORY USE ONLY:

P.O.#
Logged By: Date:

Method of Transport
Client ☐
ATL INC ☐
FEDEX ☐
Other:

Sample Condition Upon Receipt

3.4, 5.4
1. CHILLED Y☑ N☐
IR2
2. HEADSPACE (VOA) Y☐ N☐
3. CONTAINER INTACT Y☐ N☐
4. SEALED Y☐ N☐
5. # OF SPLS MATCH COC Y☐ N☐
6. PRESERVED Y☐ N☐

Client: Geocon
Attn: R. S. Tru
Address: 3160 Gold Valley Dr #800
City Rancho Cordova State CA Zip Code 95742
TEL:(916) 852-9118
FAX:(916) 852-9132

Project Name: 800 Cedar St
Project #: E8560-02-55
Sampler: I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. (Printed Name) M. OBrien (Signature)

Relinquished by: (Signature and Printed name) Date: 9/12/13 Time: 1600 Received by: (Signature and Printed name) GSO Date: 9/12/13 Time: 1600
Relinquished by: (Signature and Printed name) Date: Time: Received by: (Signature and Printed name) Date: 13SEPT13 Time: 1000
Relinquished by: (Signature and Printed name) Date: Time: Received by: (Signature and Printed name) Date: Time:

I hereby authorize ATL INC to perform the work indicated below:
Project Mgr/Submitter:
M. OBrien 9/12/13
Print Name Date
Signature

Send Report To:
Attn:
Co:
Address:
City State Zip

Bill To:
Attn:
Co:
Address:
City State Zip

Special Instructions/Comments:
See page 1

Sample/Records-Archival & Disposal
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Storage Fees (applies when storage is requested):
- Sample : $ 2.00 / sample / mo (after 45 days)
- Records : $ 1.00 / ATL workorder / mo (after 1 year)

QA/QC
RTNE ☐
CT ☒
RWQCB ☐
LEVEL IV
OTHER

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample I.D. / Location	Date	Time	8260B (VOC)	8260B (BTEX),(MTBE)	8015B (GRO)	8015B (DRO),(Motor Oil/ORO)	RCRA8 (6010B/7000)	Lead (6010)	CAM17 (7420)	CrVI (7196)	PAH (8310)	Pesticides PCBs (8081)(8082)					SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	N011009-11	A4-4	9/11/13	1037						X			X						X					1	P T	C	Hold
	-	↓ 7.5		1039						X			X														
	-	B1-0		1055				X			X																
	-	5		1057	X		X	X			X																
	-	10		1059	X		X	X			X																
	-	↓ 15.5		1101	X		X	X		X				X													
	-	B2-0		1125						X			X														
	-	5		1127						X			X														
	-	10		1129						X			X														
	- 20	↓ 15.5	↓	1131						X		X	X						↓						↓	↓	↓

•TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: ☐ A= Overnight ≤ 24 hr ☐ B= Emergency Next workday ☐ C= Critical 2 Workdays ☐ D= Urgent 3 Workdays ☐ E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedllar G=Glass P=Plastic M=Metal

Preservatives:
H=Hcl N=HNO3 S=H2SO4 C=4°C
Z=Zn(AC)2 O=NaOH T=Na2S2O3

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter

CHAIN OF CUSTODY RECORD

Page 3 of 10

Advanced Technology Laboratories, Inc.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel:(702) 307-2659•Fax:(702) 307-2691

FOR LABORATORY USE ONLY:

P.O.#:

Logged By: Date:

Method of Transport
- Client ☐
- ATL INC ☐
- FEDEX ☐
- Other:

Sample Condition Upon Receipt

36,39
IR2

1. CHILLED Y☑ N☐
2. HEADSPACE (VOA) Y☐ N☐
3. CONTAINER INTACT Y☐ N☐
4. SEALED Y☐ N☐
5. # OF SPLS MATCH COC Y☐ N☐
6. PRESERVED Y☐ N☐

Client: Geocon

Attn: R.S. Iva

Address: 3160 Gold Valley Dr #800

City Rancho Cordova State CA Zip Code 95742

TEL:(916) 852-9118

FAX:(916) 852-9132

Project Name: 800 Cedar St

Project #: E8560-02-55

Sampler: I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. (Printed Name) M. OBrien (Signature)

Relinquished by: (Signature and Printed name) Date: 9/12/13 Time: 1600 Received by: (Signature and Printed name) GoTrac Date: 9/12/13 Time: 1600

Relinquished by: (Signature and Printed name) Date: Time: Received by: (Signature and Printed name) Date: 13SEPT13 Time: 1000

Relinquished by: (Signature and Printed name) Date: Time: Received by: (Signature and Printed name) Date: Time:

I hereby authorize ATL INC to perform the work indicated below:
Project Mgr/Submitter:
M. OBrien 9/12/13
Print Name Date
Signature

Send Report To:
Attn:
Co:
Address:
City State Zip

Bill To:
Attn:
Co:
Address:
City State Zip

Special Instructions/Comments:
See page 1

Sample/Records-Archival & Disposal
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Storage Fees (applies when storage is requested):
- Sample : $ 2.00 / sample / mo (after 45 days)
- Records : $ 1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample I.D. / Location	Date	Time	8260B(VOC)	8260B (BTEX),(MTBE)	8015B(GRO)	8015B(DRO),(Motor Oil/ORO)	RCRA8 (6010B/7000)	Lead (6010)	CAM17 (7420)	CR VI (7196)	PAH (8310)	Pesticides, PCBs (8081, 8082)					SOIL	WATER	GROUND WATER	WASTEWATER			TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	N011009-21	B3-0	9/11/13	1210				X			X								X							1	P T	C	Hold
	-22	5		1212				X		X																			
	-	10		1214	X		X	X			X			X															
	-	15.5		1216	X		X	X		X																			
	-	B4-0		1240						X			X																
	-	5		1242						X			X	X															
	-	10		1244						X			X																
	-	15.5		1246							X		X																
	-	B5-0		1310				X			X																		
	-30	5		1312	X		X	X			X	X																	

QA/QC
- RTNE ☐
- CT ☒
- RWQCB ☐
- LEVEL IV
- OTHER

•TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: ☐ A= Overnight ≤ 24 hr ☐ B= Emergency Next workday ☐ C= Critical 2 Workdays ☐ D= Urgent 3 Workdays ☐ E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedllar G=Glass P=Plastic M=Metal

Preservatives:
H=Hcl N=HNO3 S=H2SO4 C=4°C
Z=Zn(AC)2 O=NaOH T=Na2S2O3

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter

CHAIN OF CUSTODY RECORD

Page 4 of 10

Advanced Technology Laboratories, Inc.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel:(702) 307-2659•Fax:(702) 307-2691

FOR LABORATORY USE ONLY:

P.O.#

Logged By: Date:

Method of Transport
Client ☐
ATL INC ☐
FEDEX ☐
Other:

Sample Condition Upon Receipt
1. CHILLED 3.6, 5.4 1.22 Y☑ N☐
2. HEADSPACE (VOA) Y☐ N☐
3. CONTAINER INTACT Y☐ N☐
4. SEALED Y☐ N☐
5. # OF SPLS MATCH COC Y☐ N☐
6. PRESERVED Y☐ N☐

Client: Geocon
Attn: R. Silva
Address: 3160 Gold Valley Dr #800
City Rancho Cordova State CA Zip Code 95742
TEL:(916) 852-9118
FAX:(916) 852-9132
Project Name: 800 Cedar St
Project #: E8560-02-55
Sampler: (Printed Name) M. OBrien (Signature)
I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Relinquished by: (Signature and Printed name) Date: 9/12/13 Time: 1600 Received by: (Signature and Printed name) OnTrac Date: 9/12/13 Time: 1600
Relinquished by: (Signature and Printed name) Date: Time: Received by: (Signature and Printed name) Date: 13SEP13 Time: 1000
Relinquished by: (Signature and Printed name) Date: Time: Received by: (Signature and Printed name) Date: Time:

I hereby authorize ATL INC to perform the work indicated below:
Project Mgr/Submitter:
M. OBrien 9/12/13
Print Name Date
Signature

Send Report To:
Attn:
Co:
Address:
City State Zip

Bill To:
Attn:
Co:
Address:
City State Zip

Special Instructions/Comments:
See page 1

Sample/Records-Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
- Sample : $ 2.00 / sample / mo (after 45 days)
- Records : $ 1.00 / ATL workorder / mo (after 1 year)

QA / QC
RTNE ☐
CT ☒
RWQCB ☐
LEVEL IV
OTHER

Circle or Add Analysis(es) Requested — SPECIFY APPROPRIATE MATRIX

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample I.D. / Location	Date	Time	8260B(VOC)	8260B (BTEX),(MTBE)	8015M(GRO)	8015M(DRO),(Motor Oil/ORO)	RCRA8 (6010B/7000)	Lead (6010)	CAM17 (7420)	CrVI (7196)	PAH (8310)	Pesticides, PCBs (8081, 8082)	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	N011009-31	B5-10	9/11/13	1314	X		X	X		X					X					1	PT	C	Hold
	-	13.5		1316	X		X	X		X													
	-	B6-0		1340						X			X										
	-	5		1342							X		X										
	-	10		1344						X			X	X									
	-	15.5		1346							X		X										
	-	B7-0	9/12/13	800				X			X												
	-	5		802				X		X													
	-	10		804	X		X	X		X													
	-40	15.5		806	X		X	X		X													

•TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: ☐ A= Overnight ≤ 24 hr ☐ B= Emergency Next workday ☐ C= Critical 2 Workdays ☐ D= Urgent 3 Workdays ☐ E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedllar G=Glass P=Plastic M=Metal

Preservatives:
H=Hcl N=HNO_3 S=H_2SO_4 C=4°C
Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter

CHAIN OF CUSTODY RECORD

Page 5 of 10

Advanced Technology Laboratories, Inc.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel:(702) 307-2659•Fax:(702) 307-2691

FOR LABORATORY USE ONLY:

P.O.#
Logged By: Date:

Method of Transport
Client ☐
ATL INC ☐
FEDEX ☐
Other:

Sample Condition Upon Receipt
1. CHILLED 36,5.4 1R2 Y☑ N☐
2. HEADSPACE (VOA) Y☐ N☐
3. CONTAINER INTACT Y☐ N☐
4. SEALED Y☐ N☐
5. # OF SPLS MATCH COC Y☐ N☐
6. PRESERVED Y☐ N☐

Client: Geocon
Attn: R.Silva
Address: 3160 Gold Valley Dr #800
City Rancho Cordova State CA Zip Code 95742
TEL:(916) 852-9118
FAX:(916) 852-9132
Project Name: 800 Cedar St
Project #: E8560-02-55
Sampler: I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
(Printed Name) M.OBrien
(Signature)

Relinquished by: (Signature and Printed name) Date: 9/12/13 Time: 1600 Received by: (Signature and Printed name) OnTrac Date: 9/12/13 Time: 1600
Relinquished by: (Signature and Printed name) Date: Time: Received by: (Signature and Printed name) Date: 13SEPT13 Time: 1000
Relinquished by: (Signature and Printed name) Date: Time: Received by: (Signature and Printed name) Date: Time:

I hereby authorize ATL INC to perform the work indicated below:
Project Mgr/Submitter:
M.OBrien 9/12/13
Print Name Date
Signature

Send Report To:
Attn:
Co:
Address:
City State Zip

Bill To:
Attn:
Co:
Address:
City State Zip

Special Instructions/Comments:
See page 1

Sample/Records-Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
- Sample : $ 2.00 / sample / mo (after 45 days)
- Records : $ 1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

QA/QC
RTNE ☐
CT ☒
RWQCB ☐
LEVEL IV
OTHER

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample I.D. / Location	Date	Time	8260B VOC	8260B (BTEX),(MTBE)	8015B (GRO)	8015B (DRO),(Motor Oil/ORO)	RCRA8 (6010B/7000)	Lead (6010)	CAM 17 (7420)	CrVI (7196)	PAH (8310)	Pesticides, PCBs (8081,8082)					SOIL	WATER	GROUND WATER	WASTEWATER			TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	N011009-41	B8-0	9/12/13	940							X		X						X							1	PT	C	Hold
	-	5		842						X			X																
	-	10		844						X			X																
	-	15.5		846						X			X																
	-	D1-0		920						X			X	X															
	-	4		922	X	X				X			X																
	-	7.5		924	X	X					X	X	X																
	-	D2-0		935				X			X																		
	-	4		937				X			X			X															
	-50	7.5		939				X		X																			

•TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: ☐ A= Overnight ≤ 24 hr ☐ B= Emergency Next workday ☐ C= Critical 2 Workdays ☐ D= Urgent 3 Workdays ☐ E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedllar G=Glass P=Plastic M=Metal

Preservatives:
H=Hcl N=HNO3 S=H2SO4 C=4°C
Z=Zn(AC)2 O=NaOH T=Na2S2O3

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter

CHAIN OF CUSTODY RECORD

Page 6 of 10

Advanced Technology Laboratories, Inc.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel:(702) 307-2659•Fax:(702) 307-2691

FOR LABORATORY USE ONLY:

P.O.#

Logged By: Date:

Method of Transport
- Client ☐
- ATL INC ☐
- FEDEX ☐
- Other:

Sample Condition Upon Receipt

1. CHILLED 3.6, 3.4	Y☑	N☐	4. SEALED	Y☐	N☐
2. HEADSPACE (VOA) 1.2	Y☐	N☐	5. # OF SPLS MATCH COC	Y☐	N☐
3. CONTAINER INTACT	Y☐	N☐	6. PRESERVED	Y☐	N☐

Client: Geocon
Attn: R.S.Ivz
Address: 3160 Gold Valley Dr #800
City Rancho Cordova State CA Zip Code 95742
TEL:(916) 852-9118
FAX:(916) 852-9132

Project Name: 800 Cedar St
Project #: E8560-02-55
Sampler: I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
(Printed Name) M. O'B.
(Signature)

Relinquished by: (Signature and Printed name)	Date: 9/12/13	Time: 1600	Received by: (Signature and Printed name) OnTrac	Date: 9/12/13	Time: 1600
Relinquished by: (Signature and Printed name)	Date:	Time:	Received by: (Signature and Printed name)	Date: 13SEPT13	Time: 1000
Relinquished by: (Signature and Printed name)	Date:	Time:	Received by: (Signature and Printed name)	Date:	Time:

I hereby authorize ATL INC to perform the work indicated below:
Project Mgr/Submitter:
M. O'Brien 9/12/13
Print Name Date
Signature

Send Report To:
Attn:
Co:
Address:
City State Zip

Bill To:
Attn:
Co:
Address:
City State Zip

Special Instructions/Comments:

Sample/Records-Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
- Sample : $ 2.00 / sample / mo (after 45 days)
- Records : $ 1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested — SPECIFY APPROPRIATE MATRIX

LAB USE ONLY: Batch #:

ITEM	Lab No.	Sample I.D. / Location	Date	Time	8260B (VOC)	8260B (BTEX),(MTBE)	8015B (GRO)	8015B (DRO),(Motor Oil/ORO)	RCRA8 (6010B/7000)	Lead (6010)	CAM 17 (7420)	Cr VI (7196)	PAH (8310)	Pesticides PCBs (8081, 8082)					SOIL	WATER	GROUND WATER	WASTEWATER		TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	N011009_51	D3-0	9/12/13	945						X			X						X						1	P T	C	Hold
	-(	↓ 4		947	X		X			X			X															
	-	↓ 7.5		949	X		X			X			X															
	-	D4-0		955				X			X																	
	-	↓ 4		957				X		X																		
	-	↓ 7.5		954				X		X				X														
	-	E1-0		1010						X			X	X														
	-	↓ 3		1012	X		X			X			X															
	-	↓ 6		1014	X		X			X			X															
	-60	E2-0	↓	1020															X						↓	↓	↓	↓

QA / QC
- RTNE ☐
- CT ☒
- RWQCB ☐
- LEVEL IV
- OTHER

•TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: ☐ A= Overnight ≤ 24 hr ☐ B= Emergency Next workday ☐ C= Critical 2 Workdays ☐ D= Urgent 3 Workdays ☐ E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedllar G=Glass P=Plastic M=Metal

Preservatives:
H=Hcl N=HNO3 S=H2SO4 C=4°C
Z=Zn(AC)2 O=NaOH T=Na2S2O3

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter

CHAIN OF CUSTODY RECORD

Page 7 of 10

Advanced Technology Laboratories, Inc.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel:(702) 307-2659•Fax:(702) 307-2691

FOR LABORATORY USE ONLY:

P.O.#

Logged By: Date:

Method of Transport
- Client ☐
- ATL INC ☐
- FEDEX ☐
- Other:

Sample Condition Upon Receipt

1. CHILLED 36,5.4 122	Y☒ N☐		4. SEALED	Y☐ N☐	
2. HEADSPACE (VOA)	Y☐ N☐		5. # OF SPLS MATCH COC	Y☐ N☐	
3. CONTAINER INTACT	Y☐ N☐		6. PRESERVED	Y☐ N☐	

Client: Geocon

Attn: R. Silva

Address: 3160 Gold Valley Dr #800

City Rancho Cordova State CA Zip Code 95742

TEL:(916) 852-9118

FAX:(916) 852-9132

Project Name: 800 Cedar St

Project #: E 8560-02-55

Sampler: *I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.* (Printed Name) M. OBrien (Signature)

Relinquished by: (Signature and Printed name) Date: 9/12/13 Time: 1600 Received by: (Signature and Printed name) OnTrac Date: 9/12/13 Time: 1600

Relinquished by: (Signature and Printed name) Date: Time: Received by: (Signature and Printed name) Date: 13SEPT13 Time: 1000

Relinquished by: (Signature and Printed name) Date: Time: Received by: (Signature and Printed name) Date: Time:

I hereby authorize ATL INC to perform the work indicated below:
Project Mgr/Submitter:
M. OBrien 9/12/13
Print Name Date
Signature

Send Report To:
Attn:
Co:
Address:
City State Zip

Bill To:
Attn:
Co:
Address:
City State Zip

Special Instructions/Comments:
See page 1

Sample/Records-Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
- Sample : $ 2.00 / sample / mo (after 45 days)
- Records : $ 1.00 / ATL workorder / mo (after 1 year)

QA / QC
- RTNE ☐
- CT ☒
- RWQCB ☐
- LEVEL IV
- OTHER

Circle or Add Analysis(es) Requested — SPECIFY APPROPRIATE MATRIX

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample I.D. / Location	Date	Time	8260B (VOC)	8260B (BTEX),(MTBE)	8015B (GRO)	8015B (DRO),(Motor Oil/ORO)	RCRA8 (6010B/7000)	Lead (6010)	CAM17 (2420)	Cr-VI (7196)	PAH (8310)	Pesticides, PCBs (8081, 8082)					SOIL	WATER	GROUND WATER	WASTEWATER			TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	N011009-61	E2-3	9/12/13	1022				X		X				X					X							1	PT	C	Hold
	-	6		1024				X			X																		
	-	E3-0		1035				~~X~~		X			X																
	-	3		1037	X		X	~~X~~		X			X																
	-	6		1039	X		X	~~X~~			X		X																
	-	E1-0		1110						X			X																
	-	3		1112						X			X																
	-	6		1114						X			X	X															
	-	C2-0		1120				X		X																			
	-70	3		1122	X		X	X			X																		

•TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: ☐ A= Overnight ≤ 24 hr ☐ B= Emergency Next workday ☐ C= Critical 2 Workdays ☐ D= Urgent 3 Workdays ☐ E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedllar G=Glass P=Plastic M=Metal

Preservatives:
H=Hcl N=HNO_3 S=H_2SO_4 C=4°C
Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter

CHAIN OF CUSTODY RECORD

Page 8 of 10

Advanced Technology Laboratories, Inc.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel:(702) 307-2659•Fax:(702) 307-2691

FOR LABORATORY USE ONLY:

P.O.#

Logged By: Date:

Method of Transport
Client ☐
ATL INC ☐
FEDEX ☐
Other:

Sample Condition Upon Receipt
1. CHILLED 3.6 5.4 Y☒ N☐
2. HEADSPACE (VOA) 1R2 Y☐ N☐
3. CONTAINER INTACT Y☐ N☐
4. SEALED Y☐ N☐
5. # OF SPLS MATCH COC Y☐ N☐
6. PRESERVED Y☐ N☐

Client: Geocon
Attn: R. Silva
Address: 3160 Gold Valley Dr #800
City Rancho Cordova State CA Zip Code 95742
TEL:(916) 852-9118
FAX:(916) 852-9132
Project Name: 800 Cedar st
Project #: E8560-02-55
Sampler: I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. (Printed Name) M. OBrien (Signature)

Relinquished by: (Signature and Printed name)	Date: 9/12/13	Time: 1600	Received by: (Signature and Printed name) EnTrac	Date: 9/12/13	Time: 1600
Relinquished by: (Signature and Printed name)	Date:	Time:	Received by: (Signature and Printed name)	Date: 13SEPT13	Time: 1000
Relinquished by: (Signature and Printed name)	Date:	Time:	Received by: (Signature and Printed name)	Date:	Time:

I hereby authorize ATL INC to perform the work indicated below:
Project Mgr/Submitter:
M-OBrien 9/12/13
Print Name Date
Signature

Send Report To:
Attn:
Co:
Address:
City State Zip

Bill To:
Attn:
Co:
Address:
City State Zip

Special Instructions/Comments:
See page 1

Sample/Records-Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
- Sample : $ 2.00 / sample / mo (after 45 days)
- Records : $ 1.00 / ATL workorder / mo (after 1 year)

QA/QC
RTNE ☐
CT ☒
RWQCB ☐
LEVEL IV
OTHER

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample I.D. / Location	Date	Time	8260B (VOC)	8260B (BTEX),(MTBE)	8015B (GRO)	8015B (DRO),(Motor Oil/ORO)	RCRA8 (6010B/7000)	Lead (6010)	CAM17 (7420)	Cr VI (7196)	PAH (8310)	Pesticides PCBs (8081/8082)					SOIL	WATER	GROUND WATER	WASTEWATER		TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	N011009-71	C2-6	9/12/13	1124	X		X	X		X		X		X					X						1	P.T	C	Hold
	-	C3-0		1140						X			X															
	-	3		1142						X			X															
	-	6		1144							X		X															
	-	C4-0		1155				X			X			X														
	-	3		1157	X		X	X		X																		
	-77	6		1159	X		X	X		X																		

•TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: ☐ A= Overnight ≤ 24 hr ☐ B= Emergency Next workday ☐ C= Critical 2 Workdays ☐ D= Urgent 3 Workdays ☐ E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedllar G=Glass P=Plastic M=Metal

Preservatives:
H=Hcl N=HNO_3 S=H_2SO_4 C=4°C
Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter

CHAIN OF CUSTODY RECORD

Pg 9 of 10

Advanced Technology Laboratories
3151 W. Post Road
Las Vegas, NV 89118
(702) 307-2659 • Fax (702) 307-2691

FOR LABORATORY USE ONLY:

P.O.#: ______
Logged By: ______ Date: ______

Method of Transport
Client ☐
ATL ☐
CA OverN ☐
FEDEX ☐
Other: ______

Sample Condition Upon Receipt
1. CHILLED 3.6 / 5.4 Y☐ N☐
2. HEADSPACE (VOA) 1R2 Y☐ N☐
3. CONTAINER INTACT Y☐ N☐
4. SEALED Y☐ N☐
5. # OF SPLS MATCH COC Y☐ N☐
6. PRESERVED Y☐ N☐

Client: GEOCON
Attn: R. Silva
Address: 3160 Gold Valley Dr. # 800
City: Rancho Cordova State: CA Zip Code: 95742
TEL: (916) 852-9118
FAX: (916) 852-9132

Project Name: 800 Cedar ST
Project #: E8560-02-55
Sampler: I attest to the validity and authenticity of this sample, I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
(Printed Name) D. WATTS
(Signature) Watts

Relinquished by: (Signature and Printed Name)		Date: 9/12/13	Time: 1230	Received by: (Signature and Printed Name)		Date: 9/12/13	Time: 1230
Relinquished by: (Signature and Printed Name)		Date: 9/12/13	Time: 1600	Received by: (Signature and Printed Name)	OnTrac	Date:	Time:
Relinquished by: (Signature and Printed Name)		Date:	Time:	Received by: (Signature and Printed Name)		Date: 13SEPT13	Time: 1000

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
M. Ybarra 9/12/13
Print Name Date
Signature

Send Report To:
Attn: ______
Co: ______
Address ______
City ______ State ______ Zip ______

Bill To:
Attn: ______
Co: ______
Address ______
City ______ State ______ Zip ______

Special Instructions/Comments:
See page 1

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
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- Records : $1.00 / ATL workorder / mo (after 1 year)

QA/QC
RTNE ☐
CT ☒
SWRCB ☐ Logcode ______
OTHER ______

Circle or Add Analysis(es) Requested / SPECIFY APPROPRIATE MATRIX

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample I.D. / Location	Date	Time	8260B (VOC)	8260B (BTEX), (MTBE)	8015B (GRO)	8015B (DRO), (Motor Oil/ORO)	RCRA8 (6010B/7000)	Lead (6010)	CAM17 (7420)	Cr VI (7196)	PAH (8310)	Pesticides, PCBs (8081, 8082)	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	N011009-78	D5-0	9/12/13	1124						X			X		X					1	SS T	C	Hld
	-	D5-3		1137	X		X				X		X	X									REF 3.5'
	-	D6-0		1059				X			X			X									
	-	D6-3		1111				X			X	X											REF 3.5'
	-	D7-0		1031						X			X										
	-	D7-3		1044						X			X										REF 3.5'
	-	D8-0		0941				X		X													
	-	D8-3		1001	X		X	X			X												REF 3.5'
	-	E4-0		1141				X			X												
	-87	E4-3		1147				X		X													

• TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: ☐ A= Overnight ≤ 24 hr ☐ B= Emergency Next workday ☐ C= Critical 2 Workdays ☐ D= Urgent 3 Workdays ☐ E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
H=Hcl N=HNO_3 S=H_2SO_4 C=4°C
Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

CHAIN OF CUSTODY RECORD

Pg 10 of 10

Advanced Technology Laboratories
3151 W. Post Road
Las Vegas, NV 89118
(702) 307-2659 • Fax (702) 307-2691

FOR LABORATORY USE ONLY:

P.O.#:
Logged By: Date:

Method of Transport
Client ☐
ATL ☐
CA OverN ☐
FEDEX ☐
Other:

Sample Condition Upon Receipt
1. CHILLED 36,5.4 R2 Y ☑ N ☐
2. HEADSPACE (VOA) Y ☐ N ☐
3. CONTAINER INTACT Y ☐ N ☐
4. SEALED Y ☐ N ☐
5. # OF SPLS MATCH COC Y ☐ N ☐
6. PRESERVED Y ☐ N ☐

Client: Geocon
Attn: R. Silva
Address: 3160 Gold Valley Dr #800
City Rancho Cordova State CA Zip Code 95742
TEL: (916) 852-9118
FAX: (916) 852-9132

Project Name: 800 Cedar St
Project #: E8560-02-55
Sampler: *I attest to the validity and authenticity of this sample, I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.*
(Printed Name) D. WATTS
(Signature)

Relinquished by: (Signature and Printed Name) Date: 9/12/13 Time: 1230 Received by: (Signature and Printed Name) Date: 9/12/13 Time: 1230
Relinquished by: (Signature and Printed Name) Date: 9/12/13 Time: 1600 Received by: (Signature and Printed Name) GelTrac Date: 9/12/13 Time: 1600
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: 13SEPT13 Time: 1000

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
M. O'Brien 9/12/13
Print Name Date
Signature

Send Report To:
Attn:
Co:
Address
City State Zip

Bill To:
Attn:
Co:
Address
City State Zip

Special Instructions/Comments:
See Page 1

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample I.D. / Location	Date	Time	8260B (VOC)	8260B (BTEX), (MTBE)	8015B (GRO)	8015B (DRO), (Motor Oil/ORO)	RCRA8 (6010B/7000)	Lead (6010)	CAM17 (7420)	CrVI (7196)	PAH (8310)	Pesticides, PCBs (8081, 8082)					SOIL	WATER	GROUND WATER	WASTEWATER				TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	N011009-88	E4-6	9/12/13	1154				X		X				X					X								1	SS T	C	Hold
	-	NI-0		1200																										
	-	NI-1		1201																										
	-	NI-2		1209																										
	-92	NI-3		1211																										
		A																												

Q A / Q C
RTNE ☐
CT ☒
SWRCB ☐
Logcode
OTHER

- TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: ☐ A= Overnight ≤ 24 hr ☐ B= Emergency Next workday ☐ C= Critical 2 Workdays ☐ D= Urgent 3 Workdays ☐ E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
H=Hcl N=HNO₃ S=H₂SO₄ C=4°C
Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

CHAIN OF CUSTODY RECORD

Page 1 of 10

FOR LABORATORY USE ONLY:

Advanced Technology Laboratories, Inc.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel:(702) 307-2659•Fax:(702) 307-2691

P.O.#
Logged By: Date:

Method of Transport
Client ☐
ATL INC ☐
FEDEX ☐
Other:

3.6, 5.4

Sample Condition Upon Receipt
1. CHILLED ICE IR 1,2 Y☐ N☐
2. HEADSPACE (VOA) Y☐ N☐
3. CONTAINER INTACT Y☐ N☐
4. SEALED Y☐ N☐
5. # OF SPLS MATCH COC Y☐ N☐
6. PRESERVED Y☐ N☐

Client: Geocon
Attn: R. Silva
Address: 3160 Gold Valley Dr #800
City Rancho Cordova State CA Zip Code 95742
TEL:(916) 852-9118
FAX:(916) 852-9132

Project Name: 800 Cedar St
Project #: E8560-02-55
Sampler: I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
(Printed Name) M. Barey
(Signature)

Relinquished by: (Signature and Printed name)		Date: 9/12/13	Time: 1600	Received by: (Signature and Printed name) GSP		Date: 9/12/13	Time: 1600
Relinquished by: (Signature and Printed name)		Date:	Time:	Received by: (Signature and Printed name)		Date: 13SEPT13	Time: 1000
Relinquished by: (Signature and Printed name)		Date:	Time:	Received by: (Signature and Printed name)		Date:	Time:

I hereby authorize ATL INC to perform the work indicated below:
Project Mgr/Submitter:
M. O'Brien 9/12/13
Print Name Date
Signature

Send Report To:
Attn:
Co:
Address:
City State Zip

Bill To:
Attn:
Co:
Address:
City State Zip

Special Instructions/Comments:
Hold all Sample until
Authorization is given

Sample/Records-Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
- Sample : $ 2.00 / sample / mo (after 45 days)
- Records : $ 1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample Description: Sample I.D. / Location	Date	Time	8260B (VOC)	8260B (BTEX),(MTBE)	8015B (GRO)	8015B (DRO),(Motor Oil/ORO)	RCRA8 (6010B/7000)	Lead (6010)	CAM 17 (7420)	CR VI (7196)	PAH (8310)	Pesticides, PCBs	(8081, 8082)				SOIL	WATER	GROUND WATER	WASTEWATER			TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	N011009	A1-0	9/11/13	955				X			X								X							1	PT	C	Hold
		↓ 4	↓	957	X		X	X			X			X					↓							↓	↓	↓	↓
		↓ 7.5		959	X		X	X		X																			
		A2-0		1015						X			X																
		↓ 4		1017							X		X																
		↓ 7.5		1019							X	X	X	X															
		A3-0		1025				X			X			X															
		↓ 4		1027	X		X	X		X																			
		↓ 7.5		1029	X		X	X			X																		
		A4-0	↓	1035						X			X						↓										

Q A / Q C
RTNE ☐
CT ☒
RWQCB ☐
LEVEL IV
OTHER

•TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: ☐ A= Overnight ≤ 24 hr ☐ B= Emergency Next workday ☐ C= Critical 2 Workdays ☐ D= Urgent 3 Workdays ☐ E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedllar G=Glass P=Plastic M=Metal

Preservatives:
H=Hcl N=HNO3 S=H2SO4 C=4°C
Z=Zn(AC)2 O=NaOH T=Na2S2O3

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter

CHAIN OF CUSTODY RECORD

Page 2 of 10

Advanced Technology Laboratories, Inc.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel:(702) 307-2659•Fax:(702) 307-2691

FOR LABORATORY USE ONLY:

P.O.#

Logged By: Date:

Method of Transport
Client ☐
ATL INC ☐
FEDEX ☐
Other:

Sample Condition Upon Receipt
3.4, 5.4
1. CHILLED Y☑ N☐
IR2
2. HEADSPACE (VOA) Y☐ N☐
3. CONTAINER INTACT Y☐ N☐
4. SEALED Y☐ N☐
5. # OF SPLS MATCH COC Y☐ N☐
6. PRESERVED Y☐ N☐

Client: Geocon
Attn: R. S. Ivn
Address: 3160 Gold Valley Dr #800
City Rancho Cordova State CA Zip Code 95742
TEL:(916) 852-9118
FAX:(916) 852-9132

Project Name: 800 Cedar St
Project #: E8560-02-55
Sampler: I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
(Printed Name) M. OBries
(Signature)

Relinquished by: (Signature and Printed name) Date: 9/12/13 Time: 1600 Received by: (Signature and Printed name) GSO Date: 9/12/13 Time: 1600
Relinquished by: (Signature and Printed name) Date: Time: Received by: (Signature and Printed name) Date: 13SEPT13 Time: 1000
Relinquished by: (Signature and Printed name) Date: Time: Received by: (Signature and Printed name) Date: Time:

I hereby authorize ATL INC to perform the work indicated below:
Project Mgr/Submitter:
M. OBrien 9/12/13
Print Name Date
Signature

Send Report To:
Attn:
Co:
Address:
City State Zip

Bill To:
Attn:
Co:
Address:
City State Zip

Special Instructions/Comments:
See page 1

Sample/Records-Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
- Sample : $ 2.00 / sample / mo (after 45 days)
- Records : $ 1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY: Batch #:

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

ITEM	Lab No.	Sample I.D. / Location	Date	Time	8260B (VOC)	8260B (BTEX),(MTBE)	8015M (GRO)	8015M (DRO),(Motor Oil/ORO)	RCRA8 (6010B/7000)	Lead (6010)	CAM17 (7420)	CR VI (7196)	PAH (8310)	Pesticides, PCBs (8081)(8082)					SOIL	WATER	GROUND WATER	WASTEWATER			TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
		A4-4	9/11/13	1037						X			X						X							1	P T	C	Hold
		↓ 7.5		1039						X			X																
		B1-0		1055				X			X																		
		5		1057	X		X	X			X																		
		10		1059	X		X	X			X																		
		↓ 15.5		1101	X		X	X		X				X															
		B2-0		1125						X			X																
		5		1127						X			X																
		10		1129						X			X																
		↓ 15.5	↓	1131						X		X	X						↓							↓	↓	↓	↓

QA / QC
RTNE ☐
CT ☒
RWQCB ☐
LEVEL IV
OTHER

•TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: ☐ A= Overnight ≤ 24 hr ☐ B= Emergency Next workday ☐ C= Critical 2 Workdays ☐ D= Urgent 3 Workdays ☐ E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedllar G=Glass P=Plastic M=Metal

Preservatives:
H=Hcl N=HNO3 S=H2SO4 C=4°C
Z=Zn(AC)2 O=NaOH T=Na2S2O3

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter

CHAIN OF CUSTODY RECORD

Page 5 of 10

Advanced Technology Laboratories, Inc.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel:(702) 307-2659•Fax:(702) 307-2691

FOR LABORATORY USE ONLY:

P.O.#

Logged By: Date:

Method of Transport
Client ☐
ATL INC ☐
FEDEX ☐
Other:

Sample Condition Upon Receipt
1. CHILLED 34,39 Y☑ N☐
2. HEADSPACE (VOA) 122 Y☐ N☐
3. CONTAINER INTACT Y☐ N☐
4. SEALED Y☐ N☐
5. # OF SPLS MATCH COC Y☐ N☐
6. PRESERVED Y☐ N☐

Client: Geocon
Attn: R.S. Iva
Address: 3160 Gold Valley Dr # 800
City Rancho Cordova State CA Zip Code 95742
TEL:(916) 852-9118
FAX:(916) 852-9132

Project Name: 800 Cedar St
Project #: E8560-02-55
Sampler: I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. (Printed Name) M. Obrien (Signature)

Relinquished by: (Signature and Printed name) Date: 9/12/13 Time: 1600 Received by: (Signature and Printed name) On Trac Date: 9/12/13 Time: 1600
Relinquished by: (Signature and Printed name) Date: Time: Received by: (Signature and Printed name) Date: 13SEPT13 Time: 1000
Relinquished by: (Signature and Printed name) Date: Time: Received by: (Signature and Printed name) Date: Time:

I hereby authorize ATL INC to perform the work indicated below:
Project Mgr/Submitter:
M. OBrien 9/12/13
Print Name Date
Signature

Send Report To:
Attn:
Co:
Address:
City State Zip

Bill To:
Attn:
Co:
Address:
City State Zip

Special Instructions/Comments:
See page 1

Sample/Records-Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
- Sample : $ 2.00 / sample / mo (after 45 days)
- Records : $ 1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY: Batch #:

Circle or Add Analysis(es) Requested

ITEM	Lab No.	Sample I.D. / Location	Date	Time	8260B(VOC)	8260B (BTEX),(MTBE)	8015M(GRO)	8015M(DRO),(Motor Oil/ORO)	RCRA8 (6010B/7000)	Lead (6010)	CAM17 (7420)	CR VI (7196)	PAH (8310)	Pesticides, PCBs (8081, 8082)					SOIL	WATER	GROUND WATER	WASTEWATER	TAT	#	Type	PRESERVATION	REMARKS
		B3-0	9/11/13	1210				X			X								X					1	PT	C	Hold
		5		1212				X		X																	
		10		1214	X		X	X			X			X													
		15.5		1216	X		X	X		X																	
		B4-0		1240						X			X														
		5		1242						X			X	X													
		10		1244						X			X														
		15.5		1246							X		X														
		B5-0		1310				X			X																
		5	↓	1312	X		X	X			X	X							↓					↓	↓	↓	↓

SPECIFY APPROPRIATE MATRIX
Container(s)

Q A / Q C
RTNE ☐
CT ☒
RWQCB ☐
LEVEL IV
OTHER

•TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: ☐ A= Overnight ≤ 24 hr ☐ B= Emergency Next workday ☐ C= Critical 2 Workdays ☐ D= Urgent 3 Workdays ☐ E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedllar G=Glass P=Plastic M=Metal

Preservatives:
H=Hcl N=HNO3 S=H2SO4 C=4°C
Z=Zn(AC)2 O=NaOH T=Na2S2O3

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter

CHAIN OF CUSTODY RECORD

Page 7 of 10

Advanced Technology Laboratories, Inc.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel:(702) 307-2659•Fax:(702) 307-2691

FOR LABORATORY USE ONLY:

P.O.#

Logged By: Date:

Method of Transport
Client ☐
ATL INC ☐
FEDEX ☐
Other:

Sample Condition Upon Receipt 34, 5.4 1122
1. CHILLED Y☑ N☐
2. HEADSPACE (VOA) Y☐ N☐
3. CONTAINER INTACT Y☐ N☐
4. SEALED Y☐ N☐
5. # OF SPLS MATCH COC Y☐ N☐
6. PRESERVED Y☐ N☐

Client: Geocon
Attn: R. Silva
Address: 3160 Gold Valley Dr #800
City Rancho Cordova State CA Zip Code 95742
TEL:(916) 852-9118
FAX:(916) 852-9132
Project Name: 800 Cedar St
Project #: E8560-02-55
Sampler: I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. (Printed Name) M. OBrien (Signature)

Relinquished by: (Signature and Printed name) Date: 9/12/13 Time: 1600 Received by: (Signature and Printed name) On Trac Date: 9/12/13 Time: 1600
Relinquished by: (Signature and Printed name) Date: Time: Received by: (Signature and Printed name) Date: 13SEP13 Time: 1000
Relinquished by: (Signature and Printed name) Date: Time: Received by: (Signature and Printed name) Date: Time:

I hereby authorize ATL INC to perform the work indicated below:
Project Mgr/Submitter:
M. OBrien 9/12/13
Print Name Date
Signature

Send Report To:
Attn:
Co:
Address:
City State Zip

Bill To:
Attn:
Co:
Address:
City State Zip

Special Instructions/Comments: See page 1

Sample/Records-Archival & Disposal
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Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

Q A / Q C
RTNE ☐
CT ☒
RWQCB ☐
LEVEL IV
OTHER

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample I.D. / Location	Date	Time	8260B(VOC)	8260B (BTEX),(MTBE)	8015B(GRO)	8015B(DRO),(Motor Oil/ORO)	RCRA8 (6010B/7000)	Lead (6010)	CAM17 (7420)	CR VI (7196)	PAH (8310)	Pesticides, PCBs (8081, 8082)					SOIL	WATER	GROUND WATER	WASTEWATER			TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
		B5-10	9/11/13	1314	X		X	X		X									X							1	P.T	C	Hold
		↓ 135	↓	1316	X		X	X		X									↓							↓	↓	↓	↓
		B6-0	↓	1340						X			X						↓							↓	↓	↓	↓
		↓ 5	↓	1342							X		X						↓							↓	↓	↓	↓
		↓ 10	↓	1344						X			X	X					↓							↓	↓	↓	↓
		↓ 15.5	↓	1346							X		X						↓							↓	↓	↓	↓
		B7-0	9/12/13	800				X			X								↓							↓	↓	↓	↓
		↓ 5	↓	802				X		X									↓							↓	↓	↓	↓
		↓ 10	↓	804	X		X	X		X									↓							↓	↓	↓	↓
		↓ 15.5	↓	806	X		X	X		X									↓							↓	↓	↓	↓

•TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: ☐ A= Overnight ≤ 24 hr ☐ B= Emergency Next workday ☐ C= Critical 2 Workdays ☐ D= Urgent 3 Workdays ☐ E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedllar G=Glass P=Plastic M=Metal

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H=Hcl N=HNO3 S=H2SO4 C=4°C
Z=Zn(AC)2 O=NaOH T=Na2S2O3

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter

CHAIN OF CUSTODY RECORD

Page 7 of 10

Advanced Technology Laboratories, Inc.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel:(702) 307-2659•Fax:(702) 307-2691

FOR LABORATORY USE ONLY:

P.O.#
Logged By: Date:

Method of Transport
Client ☐
ATL INC ☐
FEDEX ☐
Other:

Sample Condition Upon Receipt
1. CHILLED 36,5.4 IR2 Y☑ N☐
2. HEADSPACE (VOA) Y☐ N☐
3. CONTAINER INTACT Y☐ N☐
4. SEALED Y☐ N☐
5. # OF SPLS MATCH COC Y☐ N☐
6. PRESERVED Y☐ N☐

Client: Geocon
Attn: R. Silva
Address: 3160 Gold Valley Dr #800
City Rancho Cordova State CA Zip Code 95742
TEL:(916) 852-9118
FAX:(916) 852-9132
Project Name: 800 Cedar St
Project #: E8560-02-55
Sampler: I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. (Printed Name) M. Obrien (Signature)

Relinquished by: (Signature and Printed name) Date: 9/12/13 Time: 1600 Received by: (Signature and Printed name) OnTrac Date: 9/12/13 Time: 1600
Relinquished by: (Signature and Printed name) Date: Time: Received by: (Signature and Printed name) Date: 13SEPT13 Time: 1000
Relinquished by: (Signature and Printed name) Date: Time: Received by: (Signature and Printed name) Date: Time:

I hereby authorize ATL INC to perform the work indicated below:
Project Mgr/Submitter:
M. OBrien 9/12/13
Print Name Date
Signature

Send Report To:
Attn:
Co:
Address:
City State Zip

Bill To:
Attn:
Co:
Address:
City State Zip

Special Instructions/Comments:
See page 1

Sample/Records-Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
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- Sample : $ 2.00 / sample / mo (after 45 days)
- Records : $ 1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested — SPECIFY APPROPRIATE MATRIX

QA/QC
RTNE ☐
CT ☒
RWQCB ☐
LEVEL IV
OTHER

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample I.D. / Location	Date	Time	8260B(VOC)	8260B (BTEX),(MTBE)	8015B(GRO)	8015B(DRO),(Motor Oil/ORO)	RCRA8 (6010B/7000)	Lead (6010)	CAM 17 (7420)	CrVI (7196)	PAH (8310)	Pesticides, PCBs (8081, 8082)				SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
		B8-0	9/12/13	940							X		X	X	ms			X					1	PT	C	Hold
		5		842						X			X													
		10		844						X			X													
		15.5		846						X			X													
		D1-0		920						X			X	X												
		4		922	X		X			X			X													
		7.5		924	X		X				X	X	X													
		D2-0		935				X			X															
		4		937				X			X			X												
		7.5		939				X		X																

•TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: ☐ A= Overnight ≤ 24 hr ☐ B= Emergency Next workday ☐ C= Critical 2 Workdays ☐ D= Urgent 3 Workdays ☐ E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedllar G=Glass P=Plastic M=Metal

Preservatives:
H=Hcl N=HNO_3 S=H_2SO_4 C=4°C
Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter

CHAIN OF CUSTODY RECORD

Page 6 of 10

Advanced Technology Laboratories, Inc.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel:(702) 307-2659•Fax:(702) 307-2691

FOR LABORATORY USE ONLY:

P.O.#
Logged By: Date:

Method of Transport
Client ☐
ATL INC ☐
FEDEX ☐
Other:

Sample Condition Upon Receipt 36 15.1 IR2

1. CHILLED	Y ☑	N ☐	4. SEALED	Y ☐	N ☐
2. HEADSPACE (VOA)	Y ☐	N ☐	5. # OF SPLS MATCH COC	Y ☐	N ☐
3. CONTAINER INTACT	Y ☐	N ☐	6. PRESERVED	Y ☐	N ☐

Client: Geocon
Attn: R.S.lva
Address: 3160 Gold Valley Dr #800
City Rancho Cordova State CA Zip Code 95742
TEL:(916) 852-9118
FAX:(916) 852-9182
Project Name: 800 Cedar St
Project #: E8560-02-55
Sampler: I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. (Printed Name) M. O'Brien (Signature)

Relinquished by: (Signature and Printed name)	Date: 9/12/13	Time: 1600	Received by: (Signature and Printed name) OnTrac	Date: 9/12/13	Time: 1600
Relinquished by: (Signature and Printed name)	Date:	Time:	Received by: (Signature and Printed name)	Date: 13SEPT13	Time: 1000
Relinquished by: (Signature and Printed name)	Date:	Time:	Received by: (Signature and Printed name)	Date:	Time:

I hereby authorize ATL INC to perform the work indicated below:
Project Mgr/Submitter:
M. O'Brien 9/12/13
Print Name Date
Signature

Send Report To:
Attn:
Co:
Address:
City State Zip

Bill To:
Attn:
Co:
Address:
City State Zip

Special Instructions/Comments:

Sample/Records-Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
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- Records : $ 1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY: Batch #:

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

QA/QC: RTNE ☐ CT ☒ RWQCB ☐ LEVEL IV ___ OTHER ___

ITEM	Lab No.	Sample I.D. / Location	Date	Time	8260B(VOC)	8260B (BTEX),(MTBE)	8015B(GRO)	8015B(DRO),(Motor Oil/ORO)	RCRA8 (6010B/7000)	Lead (6010)	CAM 17 (7420)	Cr VI (7196)	PAH (8310)	Pesticides, PCBs (8081, 8082)					SOIL	WATER	GROUND WATER	WASTEWATER				TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
		D3-0	9/12/13	945						X			X						X								1	P T	C	Hold
		↓ 4		947	X		X			X			X																	
		↓ 7.5		949	X		X			X			X																	
		D4-0		955				X			X																			
		↓ 4		957				X		X																				
		↓ 7.5		954				X		X				X																
		E1-0		1010						X			X	X																
		↓ 3		1012	X		X			X			X																	
		↓ 6		1014	X		X			X			X																	
		E2-0	↓	1020				X		X	8b								↓								↓	↓	↓	↓

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Preservatives:
H=Hcl N=HNO3 S=H2SO4 C=4°C
Z=Zn(AC)2 O=NaOH T=Na2S2O3

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CHAIN OF CUSTODY RECORD

Page 1 of 10

Advanced Technology Laboratories, Inc.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel:(702) 307-2659•Fax:(702) 307-2691

FOR LABORATORY USE ONLY:

P.O.#:

Logged By: Date:

Method of Transport
Client ☐
ATL INC ☐
FEDEX ☐
Other:

Sample Condition Upon Receipt
36,54
122
1. CHILLED Y☒ N☐
2. HEADSPACE (VOA) Y☐ N☐
3. CONTAINER INTACT Y☐ N☐
4. SEALED Y☐ N☐
5. # OF SPLS MATCH COC Y☐ N☐
6. PRESERVED Y☐ N☐

Client: Geocon
Attn: R.S. Lua
Address: 3160 Gold Valley Dr #800
City Rancho Cordova State CA Zip Code 95742
TEL:(916) 852-9118
FAX:(916) 852-9132
Project Name: 800 Cedar St
Project #: E8560-02-55
Sampler: I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. (Printed Name) M. OBrien (Signature)

Relinquished by: (Signature and Printed name) Date: 9/12/13 Time: 1600 Received by: (Signature and Printed name) OnTrac Date: 9/12/13 Time: 1600
Relinquished by: (Signature and Printed name) Date: Time: Received by: (Signature and Printed name) Date: 13SEPT13 Time: 1000
Relinquished by: (Signature and Printed name) Date: Time: Received by: (Signature and Printed name) Date: Time:

I hereby authorize ATL INC to perform the work indicated below:
Project Mgr/Submitter:
M. OBrien 9/12/13
Print Name Date
Signature

Send Report To:
Attn:
Co:
Address:
City State Zip

Bill To:
Attn:
Co:
Address:
City State Zip

Special Instructions/Comments:
See page 1

Sample/Records-Archival & Disposal
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Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample I.D. / Location	Date	Time	8260B (VOC)	8260B (BTEX),(MTBE)	8015B (GRO)	8015B (DRO),(Motor Oil/ORO)	RCRA8 (6010B/7000)	Lead (6010)	CAM17 (7420)	Cr-VI (7196)	PAH (8310)	Pesticides, PCBs (8081, 8082)	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
		E2-3	9/12/13	1022				X		X				X	X					1	PT	C	Hold
		↓ 6		1024				X			X												
		E3-0		1035						X			X										
		3		1037	X		X	~~X~~		X			X										
		↓ 6		1039	X		X	~~X~~			X		X										
		E1-0		1110						X			X										
		3		1112						X			X	X									
		↓ 6		1114						X			X	X									
		C2-0		1120				X		X													
		↓ 3	↓	1122	X		X	X			X				↓							↓	↓

Add
delete

QA/QC
RTNE ☐
CT ☒
RWQCB ☐
LEVEL IV
OTHER

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H=Hcl N=HNO3 S=H2SO4 C=4°C
Z=Zn(AC)2 O=NaOH T=Na2S2O3

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CHAIN OF CUSTODY RECORD

Page 8 of 10

Advanced Technology Laboratories, Inc.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel:(702) 307-2659•Fax:(702) 307-2691

FOR LABORATORY USE ONLY:

P.O.#

Logged By: Date:

Method of Transport
Client ☐
ATL INC ☐
FEDEX ☐
Other:

Sample Condition Upon Receipt
1. CHILLED 3.6,5.4 Y☒ N☐
2. HEADSPACE (VOA) 1R2 Y☐ N☐
3. CONTAINER INTACT Y☐ N☐
4. SEALED Y☐ N☐
5. # OF SPLS MATCH COC Y☐ N☐
6. PRESERVED Y☐ N☐

Client: Geocon
Attn: R. Silva
Address: 3160 Gold Valley Dr #800
City Rancho Cordova State CA Zip Code 95742
TEL:(916) 852-9118
FAX:(916) 852-9132
Project Name: 800 Cedar st
Project #: E8560-02-55
Sampler: I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. (Printed Name) M.Obgen (Signature)

Relinquished by: (Signature and Printed name) Date: 9/12/13 Time: 1600 Received by: (Signature and Printed name) OnTrac Date: 9/12/13 Time: 1600
Relinquished by: (Signature and Printed name) Date: Time: Received by: (Signature and Printed name) Date: 13SEPT13 Time: 1000
Relinquished by: (Signature and Printed name) Date: Time: Received by: (Signature and Printed name) Date: Time:

I hereby authorize ATL INC to perform the work indicated below:
Project Mgr/Submitter:
M-Obren 9/12/13
Print Name Date
Signature

Send Report To:
Attn:
Co:
Address:
City State Zip

Bill To:
Attn:
Co:
Address:
City State Zip

Special Instructions/Comments:
See page 1

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LAB USE ONLY: Batch #:

Circle or Add Analysis(es) Requested

QA / QC
RTNE ☐
CT ☒
RWQCB ☐
LEVEL IV
OTHER

ITEM	Lab No.	Sample I.D. / Location	Date	Time	8260B(VOC)	8260B (BTEX),(MTBE)	8015M(GRO)	8015M(DRO),(Motor Oil/ORO)	RCRA8 (6010B/7000)	Lead (6010)	CAM17 (7420)	CrVI (7196)	PAH (8310)	Pesticides, PCBs (8081/8082)					SOIL	WATER	GROUND WATER	WASTEWATER			TAT	#	Type	PRESERVATION	REMARKS
		C2-6	9/12/13	1124	X		X	X		X		X		X					X							1	P.T	C	Hold
		C3-0		1140						X			X																
		3		1142						X			X																
		6		1144							X		X																
		C4-0		1155				X			X			X															
		3		1157	X		X	X		X																			
		6		1159	X		X	X		X																			

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Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

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CHAIN OF CUSTODY RECORD

Pg 9 of 10

Advanced Technology Laboratories
3151 W. Post Road
Las Vegas, NV 89118
(702) 307-2659 • Fax (702) 307-2691

FOR LABORATORY USE ONLY:

P.O.#: ______

Logged By: ______ Date: ______

Method of Transport
Client ☐
ATL ☐
CA OverN ☐
FEDEX ☐
Other: ______

Sample Condition Upon Receipt
1. CHILLED 3.6 / 5.4 Y☐ N☐ 4. SEALED Y☐ N☐
2. HEADSPACE (VOA) 1R2 Y☐ N☐ 5. # OF SPLS MATCH COC Y☐ N☐
3. CONTAINER INTACT Y☐ N☐ 6. PRESERVED Y☐ N☐

Client: GEOCON
Attn: R. Silva
Address: 3160 Gold Valley Dr. # 800
City Rancho Cordova State CA Zip Code 95742
TEL: (916) 852-9118
FAX: (916) 852-9132

Project Name: 800 Cedar ST Project #: E8560-02-55
Sampler: I attest to the validity and authenticity of this sample, I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. (Printed Name) D. WATTS (Signature) Watt

Relinquished by: (Signature and Printed Name) Date: 9/12/13 Time: 1230 Received by: (Signature and Printed Name) Date: 9/12/13 Time: 1230
Relinquished by: (Signature and Printed Name) Date: 9/12/13 Time: 1600 Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: 13 SEPT 13 Time: 1000

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
N. Ozaeta 9/12/13
Print Name Date
Signature

Send Report To:
Attn: ______
Co: ______
Address ______
City ______ State ____ Zip ____

Bill To:
Attn: ______
Co: ______
Address ______
City ______ State ____ Zip ____

Special Instructions/Comments: See page 1

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Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

QA / QC
RTNE ☐
CT ☒
SWRCB ☐ Logcode ____
OTHER ____

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample I.D. / Location	Date	Time	8260B (VOC)	8260B (BTEX), (MTBE)	8015M (GRO)	8015M (DRO), (Motor Oil/ORO)	RCRA8 (6010B/7000)	Lead (6010)	CAM17 (7420)	Cr VI (7196)	PAH (8310)	Pesticides, PCBs (8081, 8082)	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
		B5-0	9/12/13	1124						X			X		X					1	SS T	C	Hld
		B5-3		1137	X		X				X		X	X									REF 3.5'
		B6-0		1059				X			X			X									
		B6-3		1111				X			X	X											REF 3.5'
		B7-0		1031						X			X										
		B7-3		1044						X			X										REF 3.5'
		B8-0		0941				X		X													
		B8-3		1001	X		X	X			X												REF 3.5'
		E4-0		1141				X			X												
		E4-3		1147				X		X													

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CHAIN OF CUSTODY RECORD

Pg 10 of 10

Advanced Technology Laboratories

3151 W. Post Road
Las Vegas, NV 89118
(702) 307-2659 • Fax (702) 307-2691

FOR LABORATORY USE ONLY:

P.O.#:

Logged By: Date:

Method of Transport
Client ☐
ATL ☐
CA OverN ☐
FEDEX ☐
Other:

Sample Condition Upon Receipt
1. CHILLED 3.6, 5.4 R2 Y ☒ N ☐
2. HEADSPACE (VOA) Y ☐ N ☐
3. CONTAINER INTACT Y ☐ N ☐
4. SEALED Y ☐ N ☐
5. # OF SPLS MATCH COC Y ☐ N ☐
6. PRESERVED Y ☐ N ☐

Client: Geocon
Attn: R. Silva
Address: 3160 Gold Valley Dr #800
City Rancho Cordova State CA Zip Code 95742
TEL: (916) 852-9118
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(Printed Name) D. WATTS
(Signature)

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Project Mgr /Submitter:
M. O'Brien 9/12/13
Print Name Date
Signature

Send Report To:
Attn:
Co:
Address
City State Zip

Bill To:
Attn:
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Address
City State Zip

Special Instructions/Comments:
See Page 1

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Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

Q A / Q C
RTNE ☐
CT ☒
SWRCB ☐
Logcode
OTHER

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample I.D. / Location	Date	Time	8260B (VOC)	8260B (BTEX), (MTBE)	8015M (GRO)	8015M (DRO), (Motor Oil/ORO)	RCRA8 (6010B/7000)	Lead (6010)	CAM17 (7420)	CrVI (7196)	PAH (8310)	Pesticides, PCBs (8081, 8082)	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
		E4-6	9/12/13	1154				X		X				X	X					1	SS T	C	Hold
		NI-0	↓	1200											↓							↓	↓
		NI-1	↓	1201											↓							↓	↓
		NI-2	↓	1209											↓							↓	↓
		NI-3	↓	1211											↓							↓	↓
		A																					

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Preservatives: H=Hcl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

Advanced Technology Laboratories, Inc.

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 9/13/2013 Workorder: N011009

Rep sample Temp (Deg C): 3.6/5.4 IR Gun ID: 2

Temp Blank: ☐ Yes ☑ No

Carrier name: GSO

Last 4 digits of Tracking No.: 8221/8222 Packing Material Used: None

Cooling process: ☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☑	No ☐	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☐	No ☐	NA ☑
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments:

Checklist Completed By: MBC mbc 9/16/2013

Reviewed By: JGArellano

PLEASE PRESS FIRMLY

1 FROM
DATE 9/12/13 [redacted]
COMPANY GEOCON
ADDRESS 3160 GOLD VALLEY DRIVE
ADDRESS
STE/ROOM #300
CITY RANCHO CORDOVA
ZIP CODE 95742
SENDERS NAME Mike O'Brien
PHONE NUMBER (916) 852-9118

2 TO
COMPANY Advanced Technology Labs
NAME Receiving
PHONE NUMBER
ADDRESS 3151 West Post Road
ADDRESS
STE/ROOM
CITY Las Vegas, NV
ZIP CODE 89118

3 YOUR INTERNAL BILLING REFERENCE WILL APPEAR ON YOUR INVOICE

SPECIAL INSTRUCTIONS

GSO
GOLDEN STATE OVERNIGHT
1-800-322-5555
WWW.GSO.COM

SHIPPING AIR BILL

4 PACKAGE INFORMATION
☐ LETTER (MAX 8 OZ)
☒ PACKAGE (WT) 40 lbs
☐ DECLARED VALUE $
☐ COD AMOUNT $
(CASH NOT ACCEPTED)

PACKAGE LABEL

5 DELIVERY SERVICE
☒ PRIORITY OVERNIGHT BY 10:30 AM
☐ EARLY PRIORITY BY 8:00 AM
☐ SATURDAY DELIVERY
*DELIVERY TIMES MAY BE LATER IN SOME AREAS • CONSULT YOUR SERVICE GUIDE OR CALL GOLDEN STATE OVERNIGHT.

6 RELEASE SIGNATURE
SIGN TO AUTHORIZE DELIVERY WITHOUT OBTAINING SIGNATURE

7

8 PICK UP INFORMATION
TIME
DRIVER #
ROUTE #

106938221
PEEL OFF HERE

106938221

9 GSO TRACKING NUMBER

LVS

GSO
GOLDEN STATE OVERNIGHT
1-800-322-5555
www.gso.com

CPS

LAS VEGAS
89118
54 lb 3

16011371
1309120856

D89103B

CSL-06

PLEASE PRESS FIRMLY

1 FROM

DATE 9/12/13 [redacted]
COMPANY GEOCON
ADDRESS 3160 GOLD VALLEY DRIVE
ADDRESS
STE/ROOM [illegible]
CITY RANCHO CORDOVA
ZIP CODE 95742
SENDERS NAME Mike O'Brien
PHONE NUMBER (916) 852-9118

2 TO

COMPANY Advanced Technology Labs
NAME Receiving
PHONE NUMBER
ADDRESS 3151 West Post Road
ADDRESS
STE/ROOM
CITY Las Vegas, NV
ZIP CODE 89118

3 YOUR INTERNAL BILLING REFERENCE WILL APPEAR ON YOUR INVOICE

SPECIAL INSTRUCTIONS

GSO

1-800-322-5555

WWW.GSO.COM

SHIPPING AIR BILL

PACKAGE LABEL

4 PACKAGE INFORMATION
☐ LETTER (MAX 8 OZ)
☐ PACKAGE (WT) 40 lbs
☐ DECLARED VALUE $
☐ COD AMOUNT $
(CASH NOT ACCEPTED)

5 DELIVERY SERVICE
☒ PRIORITY OVERNIGHT BY 10:30 AM
☐ EARLY PRIORITY BY 8:00 AM
☐ SATURDAY DELIVERY

*DELIVERY TIMES MAY BE LATER IN SOME AREAS • CONSULT YOUR SERVICE GUIDE OR CALL GOLDEN STATE OVERNIGHT

6 RELEASE SIGNATURE
SIGN TO AUTHORIZE DELIVERY WITHOUT OBTAINING SIGNATURE

7

8 PICK UP INFORMATION
TIME
DRIVER #
ROUTE #

106938222

PEEL OFF HERE

106938222

9 GSO TRACKING NUMBER

ATLInc Reports

From: Luann Beadle <beadle@geoconinc.com>
Sent: Monday, September 16, 2013 2:32 PM
To: Advanced Technology Labs, Inc.
Subject: Caltrans TO-55 Cedar St
Attachments: MX-5111N_20130916_142847.pdf

Hi Marlon and Glen,

Attached is a scan of the COC's for this project. I noted necessary changes in red ink and initialed nearby. Please proceed with the analyses as shown here. The TAT is still standard. If you could, please send results to Rick Day as well. I may be on vacation when they come in, as noted below.

Thank you for your patience. I appreciate it.

Sincerely,
Luann

I will be on vacation September 23rd through 27th . If you need assistance during that time, please contact Rick Day at (925) 961-5270.

Luann Beadle | Senior Staff Scientist
Geocon Consultants, Inc.
6671 Brisa Street, Livermore, CA 94550
Office: 925.371.5900, ext. 403 Direct: 925.961.5272 Mobile: 925.395.1669
beadle@geoconinc.com

October 09, 2013

Rebecca Silva
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
TEL: (916) 852-9118
FAX: (916) 852-9132

CA-ELAP No.: 2676
NV Cert. No.: NV-009222007A

Workorder No.: N011009

RE: 800 Cedar St, E8560-02-55

Attention: Rebecca Silva

Enclosed are the results for sample(s) received on September 13, 2013 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

Jose Tenorio Jr.
Laboratory Director

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A1-0
Lab Order:	N011009	**Collection Date:**	9/11/2013 9:55:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-001		

ICP METALS BY STLC

WET/ EPA 6010B

RunID: ICP2_131004A QC Batch: R90596 PrepDate: Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	2.7	0.050		mg/L	5	10/4/2013 09:50 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *09-Oct-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A2-0
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:15:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-004		

ICP METALS BY STLC

WET/ EPA 6010B

RunID: ICP2_131004A QC Batch: R90596 PrepDate: Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	2.8	0.050		mg/L	5	10/4/2013 09:54 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *09-Oct-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A2-4
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:17:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-005		

ICP METALS BY STLC — **WET/ EPA 6010B**

RunID: ICP2_131004A QC Batch: R90596 PrepDate: Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chromium	0.12	0.050		mg/L	5	10/4/2013 09:58 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A2-7.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:19:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-006		

ICP METALS BY STLC

WET/ EPA 6010B

RunID: ICP2_131004A QC Batch: R90596 PrepDate: Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chromium	0.21	0.050		mg/L	5	10/4/2013 10:03 PM
Lead	6.3	0.050		mg/L	5	10/4/2013 10:03 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Geocon Consultants, Inc.

Lab Order: N011009

Project: 800 Cedar St, E8560-02-55

Lab ID: N011009-007

Client Sample ID: A3-0

Collection Date: 9/11/2013 10:25:00 AM

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
			WET/ EPA 6010B			
RunID: ICP2_131004A	QC Batch: R90596			PrepDate:		Analyst: **CEI**
Lead	3.5	0.050		mg/L	5	10/4/2013 10:08 PM

ANALYTICAL RESULTS

Print Date: *09-Oct-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A3-7.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:29:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-009		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
			WET/ EPA 6010B			
RunID: ICP2_131004A	QC Batch: R90596			PrepDate:		Analyst: **CEI**
Chromium	0.29	0.050		mg/L	5	10/4/2013 10:12 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A4-0
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:35:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-010		

ICP METALS BY STLC

WET/ EPA 6010B

RunID: ICP2_131004A QC Batch: R90596 PrepDate: Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	2.1	0.050		mg/L	5	10/4/2013 10:17 PM

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B1-15.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 11:01:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-016		

ICP METALS BY STLC

WET/ EPA 6010B

RunID: ICP2_131004A QC Batch: R90596 PrepDate: Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	1.4	0.050		mg/L	5	10/4/2013 10:21 PM

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B2-0
Lab Order:	N011009	**Collection Date:**	9/11/2013 11:25:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-017		

ICP METALS BY STLC

WET/ EPA 6010B

RunID: ICP2_131004A QC Batch: R90596 PrepDate: Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	1.5	0.050		mg/L	5	10/4/2013 10:42 PM

ANALYTICAL RESULTS

Print Date: *09-Oct-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B3-0
Lab Order:	N011009	**Collection Date:**	9/11/2013 12:10:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-021		

ICP METALS BY STLC

WET/ EPA 6010B

RunID: ICP2_131004A QC Batch: R90596 PrepDate: Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	3.8	0.050		mg/L	5	10/4/2013 10:47 PM

Qualifiers:				
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B3-5
Lab Order:	N011009	**Collection Date:**	9/11/2013 12:12:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-022		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
				WET/ EPA 6010B		
RunID: ICP2_131004A	QC Batch: R90596			PrepDate:		Analyst: **CEI**
Lead	0.81	0.050		mg/L	5	10/4/2013 10:51 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *09-Oct-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B5-5
Lab Order:	N011009	**Collection Date:**	9/11/2013 1:12:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-030		

ICP METALS BY STLC

WET/ EPA 6010B

RunID: ICP2_131004A QC Batch: R90596 PrepDate: Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Arsenic	0.13	0.050		mg/L	5	10/4/2013 10:55 PM
Lead	8.6	0.050		mg/L	5	10/4/2013 10:55 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *09-Oct-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B6-5
Lab Order:	N011009	**Collection Date:**	9/11/2013 1:42:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-034		

ICP METALS BY STLC

WET/ EPA 6010B

RunID: ICP2_131004A QC Batch: R90596 PrepDate: Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	4.2	0.050		mg/L	5	10/4/2013 11:01 PM

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B7-5
Lab Order:	N011009	**Collection Date:**	9/12/2013 8:02:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-038		

ICP METALS BY STLC

WET/ EPA 6010B

RunID: ICP2_131004A QC Batch: R90596 PrepDate: Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	21	0.050		mg/L	5	10/4/2013 11:05 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B7-10
Lab Order:	N011009	**Collection Date:**	9/12/2013 8:04:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-039		

ICP METALS BY STLC

WET/ EPA 6010B

RunID: ICP2_131004A QC Batch: R90596 PrepDate: Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	7.6	0.050		mg/L	5	10/4/2013 11:10 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B8-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 8:40:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-041		

Analyses	**Result**	**PQL**	**Qual**	**Units**	**DF**	**Date Analyzed**
ICP METALS BY STLC						
				WET/ EPA 6010B		
RunID: ICP2_131004A	QC Batch: R90596			PrepDate:		Analyst: **CEI**
Lead	19	0.050		mg/L	5	10/4/2013 11:16 PM

ANALYTICAL RESULTS

Print Date: *09-Oct-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B8-5
Lab Order:	N011009	**Collection Date:**	9/12/2013 8:42:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-042		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
						WET/ EPA 6010B
RunID: ICP2_131004A	QC Batch: R90596			PrepDate:		Analyst: **CEI**
Lead	6.5	0.050		mg/L	5	10/4/2013 11:21 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B8-15.5
Lab Order:	N011009	**Collection Date:**	9/12/2013 8:46:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-044		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
			WET/ EPA 6010B			
RunID: ICP2_131004A	QC Batch: R90596			PrepDate:		Analyst: **CEI**
Lead	4.0	0.050		mg/L	5	10/4/2013 11:52 PM

Qualifiers:				
B	Analyte detected in the associated Method Blank		E	Value above quantitation range
H	Holding times for preparation or analysis exceeded		ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference			Results are wet unless otherwise specified
DO	Surrogate Diluted Out			

ANALYTICAL RESULTS

Print Date: *09-Oct-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D1-7.5
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:24:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-047		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
			WET/ EPA 6010B			
RunID: ICP2_131004A	QC Batch: R90596			PrepDate:		Analyst: **CEI**
Lead	5.1	0.050		mg/L	5	10/5/2013 12:16 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D3-4
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:47:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-052		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
		WET/ EPA 6010B				
RunID: ICP2_131004A	QC Batch: R90596			PrepDate:		Analyst: **CEI**
Lead	5.6	0.050		mg/L	5	10/5/2013 12:30 AM

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *09-Oct-13*

CLIENT: Geocon Consultants, Inc.
Lab Order: N011009
Project: 800 Cedar St, E8560-02-55
Lab ID: N011009-058

Client Sample ID: E1-3
Collection Date: 9/12/2013 10:12:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
			WET/ EPA 6010B			
RunID: ICP2_131004A	QC Batch: R90596			PrepDate:		Analyst: **CEI**
Lead	1.7	0.050		mg/L	5	10/5/2013 12:35 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E3-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:37:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-064		

ICP METALS BY STLC

WET/ EPA 6010B

RunID: ICP2_131004A QC Batch: R90596 PrepDate: Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	1.5	0.050		mg/L	5	10/5/2013 12:40 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E3-6
Lab Order:	N011009	**Collection Date:**	9/12/2013 10:39:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-065		

ICP METALS BY STLC

WET/ EPA 6010B

RunID: ICP2_131004A QC Batch: R90596 PrepDate: Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	3.1	0.050		mg/L	5	10/5/2013 12:44 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Geocon Consultants, Inc.
Lab Order: N011009
Project: 800 Cedar St, E8560-02-55
Lab ID: N011009-073

Client Sample ID: C3-3
Collection Date: 9/12/2013 11:42:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
			WET/ EPA 6010B			
RunID: ICP2_131004A	QC Batch: R90596			PrepDate:		Analyst: **CEI**
Lead	0.63	0.050		mg/L	5	10/5/2013 12:48 AM

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out
E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	C3-6
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:44:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-074		

ICP METALS BY STLC

WET/ EPA 6010B

RunID: ICP2_131004A QC Batch: R90596 PrepDate: Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chromium	0.15	0.050		mg/L	5	10/5/2013 12:53 AM
Lead	4.1	0.050		mg/L	5	10/5/2013 12:53 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D6-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:11:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-081		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
			WET/ EPA 6010B			
RunID: ICP2_131004A	QC Batch: R90596			PrepDate:		Analyst: **CEI**
Lead	5.0	0.050		mg/L	5	10/5/2013 12:57 AM

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E4-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:41:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-086		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
LEAD BY TCLP EXTRACTION						
	EPA 3010A			**EPA 1311/ 6010B**		
RunID: ICP2_131008A	QC Batch: 44019			PrepDate: 10/3/2013		Analyst: **CEI**
Lead	ND	0.25		mg/L	1	10/8/2013 10:15 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *09-Oct-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E4-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:47:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-087		

ICP METALS BY STLC

WET/ EPA 6010B

RunID: ICP2_131004A QC Batch: R90596 PrepDate: Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Lead	3.1	0.050		mg/L	5	10/5/2013 01:01 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *09-Oct-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	E4-6
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:54:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-088		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
				WET/ EPA 6010B		
RunID: ICP2_131004A	QC Batch: R90596			PrepDate:		Analyst: **CEI**
Lead	2.8	0.050		mg/L	5	10/5/2013 01:06 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *09-Oct-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	N1-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 12:00:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-089		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
MERCURY BY COLD VAPOR TECHNIQUE						
	EPA 7471			**EPA 7471A**		
RunID: AA1_131007A	QC Batch: 44053			PrepDate: 10/7/2013		Analyst: **LCC**
Mercury	ND	0.10		mg/Kg	1	10/7/2013
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_131004B	QC Batch: 44016			PrepDate: 10/3/2013		Analyst: **CEI**
Antimony	ND	2.0		mg/Kg	1	10/4/2013 01:36 PM
Arsenic	4.5	1.0		mg/Kg	1	10/4/2013 01:36 PM
Barium	270	1.0		mg/Kg	1	10/4/2013 01:36 PM
Beryllium	ND	1.0		mg/Kg	1	10/4/2013 01:36 PM
Cadmium	ND	1.0		mg/Kg	1	10/4/2013 01:36 PM
Chromium	35	1.0		mg/Kg	1	10/4/2013 01:36 PM
Cobalt	12	1.0		mg/Kg	1	10/4/2013 01:36 PM
Copper	44	2.0		mg/Kg	1	10/4/2013 01:36 PM
Lead	12	1.0		mg/Kg	1	10/4/2013 01:36 PM
Molybdenum	ND	1.0		mg/Kg	1	10/4/2013 01:36 PM
Nickel	38	1.0		mg/Kg	1	10/4/2013 01:36 PM
Selenium	2.8	1.0		mg/Kg	1	10/4/2013 01:36 PM
Silver	ND	1.0		mg/Kg	1	10/4/2013 01:36 PM
Thallium	ND	1.0		mg/Kg	1	10/4/2013 01:36 PM
Vanadium	46	1.0		mg/Kg	1	10/4/2013 01:36 PM
Zinc	84	1.0		mg/Kg	1	10/4/2013 01:36 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *09-Oct-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	N1-1
Lab Order:	N011009	**Collection Date:**	9/12/2013 12:01:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-090		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM						
EPA 3060A / **EPA 7196A**						
RunID: WETCHEM_131009B; QC Batch: 44020; PrepDate: 10/3/2013; Analyst: **QBM**						
Chromium, Hexavalent	ND	1.0		mg/Kg	1	10/9/2013
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471 / **EPA 7471A**						
RunID: AA1_131007A; QC Batch: 44053; PrepDate: 10/7/2013; Analyst: **LCC**						
Mercury	ND	0.10		mg/Kg	1	10/7/2013
ICP METALS						
EPA 3050B / **EPA 6010B**						
RunID: ICP2_131004B; QC Batch: 44016; PrepDate: 10/3/2013; Analyst: **CEI**						
Antimony	ND	2.0		mg/Kg	1	10/4/2013 01:43 PM
Arsenic	5.0	1.0		mg/Kg	1	10/4/2013 01:43 PM
Barium	250	1.0		mg/Kg	1	10/4/2013 01:43 PM
Beryllium	ND	1.0		mg/Kg	1	10/4/2013 01:43 PM
Cadmium	ND	1.0		mg/Kg	1	10/4/2013 01:43 PM
Chromium	37	1.0		mg/Kg	1	10/4/2013 01:43 PM
Cobalt	8.5	1.0		mg/Kg	1	10/4/2013 01:43 PM
Copper	39	2.0		mg/Kg	1	10/4/2013 01:43 PM
Lead	12	1.0		mg/Kg	1	10/4/2013 01:43 PM
Molybdenum	ND	1.0		mg/Kg	1	10/4/2013 01:43 PM
Nickel	31	1.0		mg/Kg	1	10/4/2013 01:43 PM
Selenium	3.2	1.0		mg/Kg	1	10/4/2013 01:43 PM
Silver	ND	1.0		mg/Kg	1	10/4/2013 01:43 PM
Thallium	ND	1.0		mg/Kg	1	10/4/2013 01:43 PM
Vanadium	50	1.0		mg/Kg	1	10/4/2013 01:43 PM
Zinc	75	1.0		mg/Kg	1	10/4/2013 01:43 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	N1-2
Lab Order:	N011009	**Collection Date:**	9/12/2013 12:09:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-091		

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_131007A QC Batch: 44053 PrepDate: 10/7/2013 Analyst: **LCC**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	ND	0.10		mg/Kg	1	10/7/2013

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_131004B QC Batch: 44016 PrepDate: 10/3/2013 Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	10/4/2013 01:57 PM
Arsenic	4.1	1.0		mg/Kg	1	10/4/2013 01:57 PM
Barium	300	1.0		mg/Kg	1	10/4/2013 01:57 PM
Beryllium	ND	1.0		mg/Kg	1	10/4/2013 01:57 PM
Cadmium	ND	1.0		mg/Kg	1	10/4/2013 01:57 PM
Chromium	34	1.0		mg/Kg	1	10/4/2013 01:57 PM
Cobalt	11	1.0		mg/Kg	1	10/4/2013 01:57 PM
Copper	43	2.0		mg/Kg	1	10/4/2013 01:57 PM
Lead	12	1.0		mg/Kg	1	10/4/2013 01:57 PM
Molybdenum	ND	1.0		mg/Kg	1	10/4/2013 01:57 PM
Nickel	36	1.0		mg/Kg	1	10/4/2013 01:57 PM
Selenium	2.8	1.0		mg/Kg	1	10/4/2013 01:57 PM
Silver	ND	1.0		mg/Kg	1	10/4/2013 01:57 PM
Thallium	ND	1.0		mg/Kg	1	10/4/2013 01:57 PM
Vanadium	43	1.0		mg/Kg	1	10/4/2013 01:57 PM
Zinc	82	1.0		mg/Kg	1	10/4/2013 01:57 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	N1-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 12:11:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-092		

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471 **EPA 7471A**

RunID: AA1_131007A QC Batch: 44053 PrepDate: 10/7/2013 Analyst: **LCC**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Mercury	ND	0.10		mg/Kg	1	10/7/2013

ICP METALS

EPA 3050B **EPA 6010B**

RunID: ICP2_131004B QC Batch: 44016 PrepDate: 10/3/2013 Analyst: **CEI**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Antimony	ND	2.0		mg/Kg	1	10/4/2013 02:05 PM
Arsenic	4.2	1.0		mg/Kg	1	10/4/2013 02:05 PM
Barium	300	1.0		mg/Kg	1	10/4/2013 02:05 PM
Beryllium	ND	1.0		mg/Kg	1	10/4/2013 02:05 PM
Cadmium	ND	1.0		mg/Kg	1	10/4/2013 02:05 PM
Chromium	34	1.0		mg/Kg	1	10/4/2013 02:05 PM
Cobalt	12	1.0		mg/Kg	1	10/4/2013 02:05 PM
Copper	40	2.0		mg/Kg	1	10/4/2013 02:05 PM
Lead	12	1.0		mg/Kg	1	10/4/2013 02:05 PM
Molybdenum	ND	1.0		mg/Kg	1	10/4/2013 02:05 PM
Nickel	36	1.0		mg/Kg	1	10/4/2013 02:05 PM
Selenium	2.5	1.0		mg/Kg	1	10/4/2013 02:05 PM
Silver	ND	1.0		mg/Kg	1	10/4/2013 02:05 PM
Thallium	ND	1.0		mg/Kg	1	10/4/2013 02:05 PM
Vanadium	43	1.0		mg/Kg	1	10/4/2013 02:05 PM
Zinc	80	1.0		mg/Kg	1	10/4/2013 02:05 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_ST

Sample ID: **MB1-R90596** SampType: **MBLK** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **PBS** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654913**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.010									
Chromium	0.000252	0.010									
Lead	ND	0.010									

Sample ID: **MB1-43998** SampType: **MBLK** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **PBS** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654914**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.010									
Chromium	0.000602	0.010									
Lead	ND	0.010									

Sample ID: **MB2-43998** SampType: **MBLK** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **PBS** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654915**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.003	0.010									
Chromium	0.000612	0.010									
Lead	ND	0.010									

Sample ID: **LCS1-R90596** SampType: **LCS** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **LCSS** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654916**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.487	0.010	0.5000	0	97.3	85	115				
Chromium	0.490	0.010	0.5000	0	98.1	85	115				
Lead	0.490	0.010	0.5000	0	98.0	85	115				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_ST

Sample ID: **N011008-003A-DUP** SampType: **DUP** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **ZZZZZZ** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654918**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.140	0.050						0.1567	11.6	20	
Chromium	0.499	0.050						0.5266	5.33	20	
Lead	26.080	0.050						30.14	14.4	20	

Sample ID: **N011008-003A-MS** SampType: **MS** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **ZZZZZZ** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654920**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.824	0.050	2.500	0.1567	107	75	125				
Chromium	2.859	0.050	2.500	0.5266	93.3	75	125				
Lead	32.151	0.050	2.500	30.14	80.5	75	125				

Sample ID: **N011008-003A-MSD** SampType: **MSD** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **ZZZZZZ** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654921**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.779	0.050	2.500	0.1567	105	75	125	2.824	1.61	20	
Chromium	2.847	0.050	2.500	0.5266	92.8	75	125	2.859	0.420	20	
Lead	31.908	0.050	2.500	30.14	70.8	75	125	32.15	0.759	20	S

Sample ID: **N011009-016A-DUP** SampType: **DUP** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **ZZZZZZ** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654934**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.176	0.050						0.1524	14.6	20	
Chromium	0.163	0.050						0.1714	5.04	20	
Lead	1.365	0.050						1.441	5.44	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_ST

Sample ID: **N011009-016A-MS** SampType: **MS** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **ZZZZZZ** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654937**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.949	0.050	2.500	0.1524	112	75	125				
Chromium	2.685	0.050	2.500	0.1714	101	75	125				
Lead	3.983	0.050	2.500	1.441	102	75	125				

Sample ID: **MB2-R90596** SampType: **MBLK** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **PBS** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654949**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.010									
Chromium	ND	0.010									
Lead	ND	0.010									

Sample ID: **MB1-43999** SampType: **MBLK** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **PBS** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654950**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.010									
Chromium	0.000597	0.010									
Lead	ND	0.010									

Sample ID: **MB2-43999** SampType: **MBLK** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **PBS** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654951**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.010									
Chromium	0.000528	0.010									
Lead	ND	0.010									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_ST

Sample ID: **LCS1-R90596** SampType: **LCS** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **LCSS** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654952**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.486	0.010	0.5000	0	97.2	85	115				
Chromium	0.493	0.010	0.5000	0	98.6	85	115				
Lead	0.492	0.010	0.5000	0	98.4	85	115				

Sample ID: **N011009-044A-DUP** SampType: **DUP** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **ZZZZZZ** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/4/2013** SeqNo: **1654954**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.236	0.050						0.2537	7.44	20	
Chromium	0.263	0.050						0.2266	15.0	20	
Lead	4.263	0.050						3.958	7.43	20	

Sample ID: **N011009-044A-MS** SampType: **MS** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **ZZZZZZ** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/5/2013** SeqNo: **1654956**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.794	0.050	2.500	0.2537	102	75	125				
Chromium	2.497	0.050	2.500	0.2266	90.8	75	125				
Lead	6.184	0.050	2.500	3.958	89.1	75	125				

Sample ID: **N011009-044A-MSD** SampType: **MSD** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **ZZZZZZ** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/5/2013** SeqNo: **1654957**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.812	0.050	2.500	0.2537	102	75	125	2.794	0.644	20	
Chromium	2.509	0.050	2.500	0.2266	91.3	75	125	2.497	0.469	20	
Lead	6.183	0.050	2.500	3.958	89.0	75	125	6.184	0.0287	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_ST

Sample ID: **N011009-088A-DUP** SampType: **DUP** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **ZZZZZZ** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/5/2013** SeqNo: **1654970**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.163	0.050						0.1885	14.3	20	
Chromium	0.199	0.050						0.2224	11.3	20	
Lead	2.113	0.050						2.815	28.5	20	R

Sample ID: **N011009-088A-MS** SampType: **MS** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **90596**
Client ID: **ZZZZZZ** Batch ID: **R90596** TestNo: **WET/ EPA 60** Analysis Date: **10/5/2013** SeqNo: **1654975**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.678	0.050	2.500	0.1885	99.6	75	125				
Chromium	2.452	0.050	2.500	0.2224	89.2	75	125				
Lead	5.002	0.050	2.500	2.815	87.5	75	125				

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_TCPB

Sample ID: **MB-44019** SampType: **MBLK** TestCode: **6010_TCPB** Units: **mg/L** Prep Date: **10/3/2013** RunNo: **90641**
Client ID: **PBS** Batch ID: **44019** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **10/8/2013** SeqNo: **1656406**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **MB-44004_TC** SampType: **MBLK** TestCode: **6010_TCPB** Units: **mg/L** Prep Date: **10/3/2013** RunNo: **90641**
Client ID: **PBS** Batch ID: **44019** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **10/8/2013** SeqNo: **1656407**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-44019** SampType: **LCS** TestCode: **6010_TCPB** Units: **mg/L** Prep Date: **10/3/2013** RunNo: **90641**
Client ID: **LCSS** Batch ID: **44019** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **10/8/2013** SeqNo: **1656408**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.522	0.25	0.5000	0	104	85	115				

Sample ID: **N011009-086A-DUP** SampType: **DUP** TestCode: **6010_TCPB** Units: **mg/L** Prep Date: **10/3/2013** RunNo: **90641**
Client ID: **ZZZZZZ** Batch ID: **44019** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **10/8/2013** SeqNo: **1656410**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.016	0.25						0.01915	0	20	

Sample ID: **N011148-001C-MS** SampType: **MS** TestCode: **6010_TCPB** Units: **mg/L** Prep Date: **10/3/2013** RunNo: **90641**
Client ID: **ZZZZZZ** Batch ID: **44019** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **10/8/2013** SeqNo: **1656414**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.518	0.25	0.5000	0.007662	102	75	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: **6010_TCPB**

Sample ID: **N011148-001C-MSD** SampType: **MSD** TestCode: **6010_TCPB** Units: **mg/L** Prep Date: **10/3/2013** RunNo: **90641**
Client ID: **ZZZZZZ** Batch ID: **44019** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **10/8/2013** SeqNo: **1656415**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.531	0.25	0.5000	0.007662	105	75	125	0.5184	2.39	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB-44016** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **10/3/2013** RunNo: **90599**
Client ID: **PBS** Batch ID: **44016** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **10/4/2013** SeqNo: **1655128**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.295	2.0									
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Cobalt	ND	1.0									
Copper	ND	2.0									
Lead	ND	1.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	ND	1.0									

Sample ID: **LCS-44016** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **10/3/2013** RunNo: **90599**
Client ID: **LCSS** Batch ID: **44016** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **10/4/2013** SeqNo: **1655129**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	23.613	2.0	25.00	0	94.5	80	120				
Arsenic	23.472	1.0	25.00	0	93.9	80	120				
Barium	24.809	1.0	25.00	0	99.2	80	120				
Beryllium	23.470	1.0	25.00	0	93.9	80	120				
Cadmium	24.022	1.0	25.00	0	96.1	80	120				
Chromium	24.515	1.0	25.00	0	98.1	80	120				
Cobalt	25.743	1.0	25.00	0	103	80	120				
Copper	24.475	2.0	25.00	0	97.9	80	120				
Lead	24.772	1.0	25.00	0	99.1	80	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **LCS-44016** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **10/3/2013** RunNo: **90599**
Client ID: **LCSS** Batch ID: **44016** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **10/4/2013** SeqNo: **1655129**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	24.559	1.0	25.00	0	98.2	80	120				
Nickel	25.157	1.0	25.00	0	101	80	120				
Selenium	20.708	1.0	25.00	0	82.8	80	120				
Silver	22.588	1.0	25.00	0	90.4	80	120				
Thallium	23.610	1.0	25.00	0	94.4	80	120				
Vanadium	24.659	1.0	25.00	0	98.6	80	120				
Zinc	24.640	1.0	25.00	0	98.6	80	120				

Sample ID: **N011009-090A-DUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **10/3/2013** RunNo: **90599**
Client ID: **ZZZZZZ** Batch ID: **44016** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **10/4/2013** SeqNo: **1655132**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0						0	0	20	
Arsenic	4.796	1.0						4.990	3.98	20	
Barium	282.838	1.0						251.6	11.7	20	
Beryllium	0.511	1.0						0.5310	0	20	
Cadmium	ND	1.0						0	0	20	
Chromium	33.966	1.0						37.25	9.23	20	
Cobalt	10.016	1.0						8.489	16.5	20	
Copper	38.279	2.0						39.46	3.04	20	
Lead	12.324	1.0						12.31	0.125	20	
Molybdenum	ND	1.0						0	0	20	
Nickel	29.594	1.0						31.11	4.98	20	
Selenium	2.683	1.0						3.215	18.0	20	
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	46.977	1.0						50.30	6.84	20	
Zinc	74.191	1.0						75.03	1.12	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **N011147-001B-MS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **10/3/2013** RunNo: **90599**
Client ID: **ZZZZZZ** Batch ID: **44016** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **10/4/2013** SeqNo: **1655142**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	16.303	2.0	24.99	0	65.2	75	125				S
Arsenic	27.612	1.0	24.99	2.769	99.4	75	125				
Barium	109.546	1.0	24.99	76.34	133	75	125				S
Beryllium	23.616	1.0	24.99	0	94.5	75	125				
Cadmium	22.033	1.0	24.99	0	88.2	75	125				
Chromium	29.499	1.0	24.99	5.687	95.3	75	125				
Cobalt	24.972	1.0	24.99	1.217	95.1	75	125				
Copper	50.023	2.0	24.99	21.61	114	75	125				
Lead	29.212	1.0	24.99	5.890	93.3	75	125				
Molybdenum	25.196	1.0	24.99	1.960	93.0	75	125				
Nickel	27.858	1.0	24.99	4.299	94.3	75	125				
Selenium	22.056	1.0	24.99	0	88.3	75	125				
Silver	23.601	1.0	24.99	0.2915	93.3	75	125				
Thallium	20.540	1.0	24.99	0	82.2	75	125				
Vanadium	33.327	1.0	24.99	8.344	100	75	125				
Zinc	113.269	1.0	24.99	83.47	119	75	125				

Sample ID: **N011147-001B-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **10/3/2013** RunNo: **90599**
Client ID: **ZZZZZZ** Batch ID: **44016** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **10/4/2013** SeqNo: **1655143**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	1.660	0.20	2.488	0	66.7	75	125	16.30	163	20	BSR
Arsenic	2.713	0.10	2.488	2.769	-2.25	75	125	27.61	164	20	SR
Barium	10.531	0.10	2.488	76.34	-2650	75	125	109.5	165	20	SR
Beryllium	2.338	0.10	2.488	0	94.0	75	125	23.62	164	20	R
Cadmium	2.179	0.10	2.488	0	87.6	75	125	22.03	164	20	R
Chromium	2.878	0.10	2.488	5.687	-113	75	125	29.50	164	20	SR
Cobalt	2.489	0.10	2.488	1.217	51.1	75	125	24.97	164	20	SR
Copper	4.755	0.20	2.488	21.61	-678	75	125	50.02	165	20	SR
Lead	2.857	0.10	2.488	5.890	-122	75	125	29.21	164	20	SR

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Sample ID: **N011147-001B-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **10/3/2013** RunNo: **90599**

Client ID: **ZZZZZZ** Batch ID: **44016** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **10/4/2013** SeqNo: **1655143**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	2.501	0.10	2.488	1.960	21.7	75	125	25.20	164	20	SR
Nickel	2.726	0.10	2.488	4.299	-63.2	75	125	27.86	164	20	SR
Selenium	2.156	0.10	2.488	0	86.7	75	125	22.06	164	20	R
Silver	2.369	0.10	2.488	0.2915	83.5	75	125	23.60	164	20	R
Thallium	2.034	0.10	2.488	0	81.8	75	125	20.54	164	20	R
Vanadium	3.277	0.10	2.488	8.344	-204	75	125	33.33	164	20	SR
Zinc	12.346	0.10	2.488	83.47	-2860	75	125	113.3	161	20	SR

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 7196_S

Sample ID: **MB-44020** SampType: **MBLK** TestCode: **7196_S** Units: **mg/Kg** Prep Date: **10/3/2013** RunNo: **90659**
Client ID: **PBS** Batch ID: **44020** TestNo: **EPA 7196A** **EPA 3060A** Analysis Date: **10/9/2013** SeqNo: **1657053**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	ND	1.0									

Sample ID: **LCS-44020** SampType: **LCS** TestCode: **7196_S** Units: **mg/Kg** Prep Date: **10/3/2013** RunNo: **90659**
Client ID: **LCSS** Batch ID: **44020** TestNo: **EPA 7196A** **EPA 3060A** Analysis Date: **10/9/2013** SeqNo: **1657054**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	4.041	1.0	4.000	0	101	80	120				

Sample ID: **N011009-090A-DUP** SampType: **DUP** TestCode: **7196_S** Units: **mg/Kg** Prep Date: **10/3/2013** RunNo: **90659**
Client ID: **ZZZZZZ** Batch ID: **44020** TestNo: **EPA 7196A** **EPA 3060A** Analysis Date: **10/9/2013** SeqNo: **1657056**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	ND	1.0						0	0	20	

Sample ID: **N011009-090A-MS** SampType: **MS** TestCode: **7196_S** Units: **mg/Kg** Prep Date: **10/3/2013** RunNo: **90659**
Client ID: **ZZZZZZ** Batch ID: **44020** TestNo: **EPA 7196A** **EPA 3060A** Analysis Date: **10/9/2013** SeqNo: **1657057**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	9.079	1.0	20.00	0	45.4	80	120				S

Sample ID: **N011009-090A-MSD** SampType: **MSD** TestCode: **7196_S** Units: **mg/Kg** Prep Date: **10/3/2013** RunNo: **90659**
Client ID: **ZZZZZZ** Batch ID: **44020** TestNo: **EPA 7196A** **EPA 3060A** Analysis Date: **10/9/2013** SeqNo: **1657058**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	7.306	1.0	20.00	0	36.5	80	120	9.079	21.6	20	SR

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 7196_S

Sample ID: **N011009-090A-MS_I** SampType: **MS** TestCode: **7196_S** Units: **mg/Kg** Prep Date: **10/3/2013** RunNo: **90659**
Client ID: **ZZZZZZ** Batch ID: **44020** TestNo: **EPA 7196A** **EPA 3060A** Analysis Date: **10/9/2013** SeqNo: **1657059**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	635.414	20	675.7	0	94.0	80	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: **LCS-44053** SampType: **LCS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **10/7/2013** RunNo: **90609**
Client ID: **LCSS** Batch ID: **44053** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **10/7/2013** SeqNo: **1655284**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.488	0.10	0.4167	0	117	80	120				

Sample ID: **MB-44053** SampType: **MBLK** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **10/7/2013** RunNo: **90609**
Client ID: **PBS** Batch ID: **44053** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **10/7/2013** SeqNo: **1655285**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **N011009-089A-DUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **10/7/2013** RunNo: **90609**
Client ID: **ZZZZZZ** Batch ID: **44053** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **10/7/2013** SeqNo: **1655287**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.049	0.10						0.05051	0	20	

Sample ID: **N011009-089A-MS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **10/7/2013** RunNo: **90609**
Client ID: **ZZZZZZ** Batch ID: **44053** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **10/7/2013** SeqNo: **1655288**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.546	0.10	0.4167	0.05051	119	75	125				

Sample ID: **N011009-089A-MSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **10/7/2013** RunNo: **90609**
Client ID: **ZZZZZZ** Batch ID: **44053** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **10/7/2013** SeqNo: **1655289**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.545	0.10	0.4167	0.05051	119	75	125	0.5458	0.0895	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Nancy Sibucao

From: Luann Beadle [beadle@geoconinc.com]
Sent: Tuesday, October 01, 2013 1:51 PM
To: Advanced Technology Labs, Inc.
Subject: Lab Order N011009 TO-55 Cedar St

Hi ATL,

Please run WET analyses for the following samples, as indicated:

N011009-030A	B5-5	Arsenic
N011009-005A	A2-4	Chromium
N011009-009A	A3-7.5	Chromium
N011008-020A	G3-4	Chromium
N011009-006A	A2-7.5	Chromium
N011009-074A	C3-6	Chromium
N011009-010A	A4-0	Lead
N011009-073A	C3-3	Lead
N011009-001A	A1-0	Lead
N011009-007A	A3-0	Lead
N011009-021A	B3-0	Lead
N011009-058A	E1-3	Lead
N011009-064A	E3-3	Lead
N011009-074A	C3-6	Lead
N011009-017A	B2-0	Lead
N011009-016A	B1-15.5	Lead
N011009-004A	A2-0	Lead
N011009-052A	D3-4	Lead
N011009-044A	B8-15.5	Lead
N011009-065A	E3-6	Lead
N011009-088A	E4-6	Lead
N011009-	E4-3	Lead

087A		
N011009-047A	D1-7.5	Lead
N011009-006A	A2-7.5	Lead
N011009-081A	D6-3	Lead
N011009-039A	B7-10	Lead
N011008-024A	G4-8	Lead
N011009-038A	B7-5	Lead
N011009-022A	B3-5	Lead
N011009-030A	B5-5	Lead
N011009-042A	B8-5	Lead
N011009-041A	B8-0	Lead
N011009-034A	B6-5	Lead
N011008-003A	H1-4	Lead

And TCLP on:

N011009-086A	E4-0	Lead

Regular TAT please.

Thank you,
Luann

Luann Beadle | Senior Staff Scientist
Geocon Consultants, Inc.
6671 Brisa Street, Livermore, CA 94550
Office: 925.371.5900, ext. 403 Direct: 925.961.5272 Mobile: 925.395.1669
beadle@geoconinc.com

Glen S. Gesmundo

From: Luann Beadle [beadle@geoconinc.com]
Sent: Wednesday, October 02, 2013 11:56 AM
To: glen@atl-labs.com
Subject: Lab Order N01109

Hi Glen,

Please run samples N1-0, N1-1, N1-2, and N1-3 for CAM 17 metals and sample N1-1 for Hexavalent Chromium (7196) on a regular TAT.

Thank you,

Luann

Luann Beadle | Senior Staff Scientist
Geocon Consultants, Inc.
6671 Brisa Street, Livermore, CA 94550
Office: 925.371.5900, ext. 403 Direct: 925.961.5272 Mobile: 925.395.1669
beadle@geoconinc.com

November 01, 2013

Rebecca Silva
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
TEL: (916) 852-9118
FAX: (916) 852-9132

CA-ELAP No.:2676
NV Cert. No.:NV-009222007A

Workorder No.: N011009

RE: 800 Cedar St, E8560-02-55

Attention: Rebecca Silva

Enclosed are the results for sample(s) received on September 13, 2013 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

for Nancy

Jose Tenorio Jr.
Laboratory Director

CLIENT:	Geocon Consultants, Inc.
Project:	800 Cedar St, E8560-02-55
Lab Order:	N011009

CASE NARRATIVE

Analytical Comments for EPA 1311/6010B:

RPD for sample duplicate N011008-003 is outside criteria ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *01-Nov-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	A2-7.5
Lab Order:	N011009	**Collection Date:**	9/11/2013 10:19:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-006		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
LEAD BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: ICP2_131031B	QC Batch: 44210			PrepDate: 10/29/2013		Analyst: **JAA**
Lead	ND	0.25		mg/L	1	10/31/2013 12:05 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B5-5
Lab Order:	N011009	**Collection Date:**	9/11/2013 1:12:00 PM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-030		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
LEAD BY TCLP EXTRACTION						
EPA 3010A			**EPA 1311/ 6010B**			
RunID: ICP2_131031B	QC Batch: 44210				PrepDate: 10/29/2013	Analyst: **JAA**
Lead	ND	0.25		mg/L	1	10/31/2013 12:10 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B7-5
Lab Order:	N011009	**Collection Date:**	9/12/2013 8:02:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-038		

Analyses	**Result**	**PQL**	**Qual**	**Units**	**DF**	**Date Analyzed**
LEAD BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: ICP2_131031B	QC Batch: 44210			PrepDate: 10/29/2013		Analyst: **JAA**
Lead	ND	0.25		mg/L	1	10/31/2013 12:14 PM

ANALYTICAL RESULTS

Print Date: *01-Nov-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B7-10
Lab Order:	N011009	**Collection Date:**	9/12/2013 8:04:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-039		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
LEAD BY TCLP EXTRACTION						
	EPA 3010A			**EPA 1311/ 6010B**		
RunID: ICP2_131031B	QC Batch: 44210			PrepDate: 10/29/2013		Analyst: **JAA**
Lead	ND	0.25		mg/L	1	10/31/2013 12:18 PM

Qualifiers:				
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *01-Nov-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B8-0
Lab Order:	N011009	**Collection Date:**	9/12/2013 8:40:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-041		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
LEAD BY TCLP EXTRACTION						
EPA 3010A		**EPA 1311/ 6010B**				
RunID: ICP2_131031B	QC Batch: 44210			PrepDate: 10/29/2013		Analyst: **JAA**
Lead	ND	0.25		mg/L	1	10/31/2013 12:40 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B8-5
Lab Order:	N011009	**Collection Date:**	9/12/2013 8:42:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-042		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
LEAD BY TCLP EXTRACTION						
EPA 3010A			**EPA 1311/ 6010B**			
RunID: ICP2_131031B	QC Batch: 44210			PrepDate:	10/29/2013	Analyst: **JAA**
Lead	ND	0.25		mg/L	1	10/31/2013 12:45 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *01-Nov-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D1-7.5
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:24:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-047		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
LEAD BY TCLP EXTRACTION						
EPA 3010A		**EPA 1311/ 6010B**				
RunID: ICP2_131031B	QC Batch: 44210			PrepDate: 10/29/2013		Analyst: **JAA**
Lead	ND	0.25		mg/L	1	10/31/2013 12:49 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *01-Nov-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D3-4
Lab Order:	N011009	**Collection Date:**	9/12/2013 9:47:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-052		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
LEAD BY TCLP EXTRACTION						
	EPA 3010A			**EPA 1311/ 6010B**		
RunID: ICP2_131031B	QC Batch: 44210			PrepDate: 10/29/2013		Analyst: **JAA**
Lead	ND	0.25		mg/L	1	10/31/2013 12:53 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Print Date: *01-Nov-13*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	D6-3
Lab Order:	N011009	**Collection Date:**	9/12/2013 11:11:00 AM
Project:	800 Cedar St, E8560-02-55	**Matrix:**	SOIL
Lab ID:	N011009-081		

Analyses	**Result**	**PQL**	**Qual**	**Units**	**DF**	**Date Analyzed**
LEAD BY TCLP EXTRACTION						
EPA 3010A **EPA 1311/ 6010B**						
RunID: ICP2_131031B QC Batch: 44210 PrepDate: 10/29/2013 Analyst: **JAA**						
Lead	ND	0.25		mg/L	1	10/31/2013 12:58 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_TCPB

Sample ID: **MB-44210** SampType: **MBLK** TestCode: **6010_TCPB** Units: **mg/L** Prep Date: **10/29/2013** RunNo: **90984**
Client ID: **PBS** Batch ID: **44210** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **10/31/2013** SeqNo: **1673429**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **MB1-44202 TCLP** SampType: **MBLK** TestCode: **6010_TCPB** Units: **mg/L** Prep Date: **10/29/2013** RunNo: **90984**
Client ID: **PBS** Batch ID: **44210** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **10/31/2013** SeqNo: **1673430**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **MB2-44202 TCLP** SampType: **MBLK** TestCode: **6010_TCPB** Units: **mg/L** Prep Date: **10/29/2013** RunNo: **90984**
Client ID: **PBS** Batch ID: **44210** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **10/31/2013** SeqNo: **1673431**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-44210** SampType: **LCS** TestCode: **6010_TCPB** Units: **mg/L** Prep Date: **10/29/2013** RunNo: **90984**
Client ID: **LCSS** Batch ID: **44210** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **10/31/2013** SeqNo: **1673432**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.531	0.25	0.5000	0	106	85	115				

Sample ID: **N011008-003A-DUP** SampType: **DUP** TestCode: **6010_TCPB** Units: **mg/L** Prep Date: **10/29/2013** RunNo: **90984**
Client ID: **ZZZZZZ** Batch ID: **44210** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **10/31/2013** SeqNo: **1673438**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.515	0.25						0.6632	25.2	20	R

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: N011009
Project: 800 Cedar St, E8560-02-55

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_TCPB

Sample ID: **N011008-003A-MS** SampType: **MS** TestCode: **6010_TCPB** Units: **mg/L** Prep Date: **10/29/2013** RunNo: **90984**
Client ID: **ZZZZZZ** Batch ID: **44210** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **10/31/2013** SeqNo: **1673443**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.083	0.25	0.5000	0.6632	84.0	75	125				

Sample ID: **N011008-003A-MSD** SampType: **MSD** TestCode: **6010_TCPB** Units: **mg/L** Prep Date: **10/29/2013** RunNo: **90984**
Client ID: **ZZZZZZ** Batch ID: **44210** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **10/31/2013** SeqNo: **1673444**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.123	0.25	0.5000	0.6632	92.0	75	125	1.083	3.65	20	

Sample ID: **N011009-081A-DUP** SampType: **DUP** TestCode: **6010_TCPB** Units: **mg/L** Prep Date: **10/29/2013** RunNo: **90984**
Client ID: **ZZZZZZ** Batch ID: **44210** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **10/31/2013** SeqNo: **1673459**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0.03518	0	20	

Sample ID: **N011009-081A-MS** SampType: **MS** TestCode: **6010_TCPB** Units: **mg/L** Prep Date: **10/29/2013** RunNo: **90984**
Client ID: **ZZZZZZ** Batch ID: **44210** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **10/31/2013** SeqNo: **1673460**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.541	0.25	0.5000	0.03518	101	75	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Nancy Sibucao

From: Luann Beadle [beadle@geoconinc.com]
Sent: Friday, October 25, 2013 7:45 AM
To: Advanced Technology Labs, Inc.
Subject: TO-55 Cedar St Lab Orders N1011008 and N011009

Hi ATL,

Please run TCLP lead on the following samples from these two lab orders:

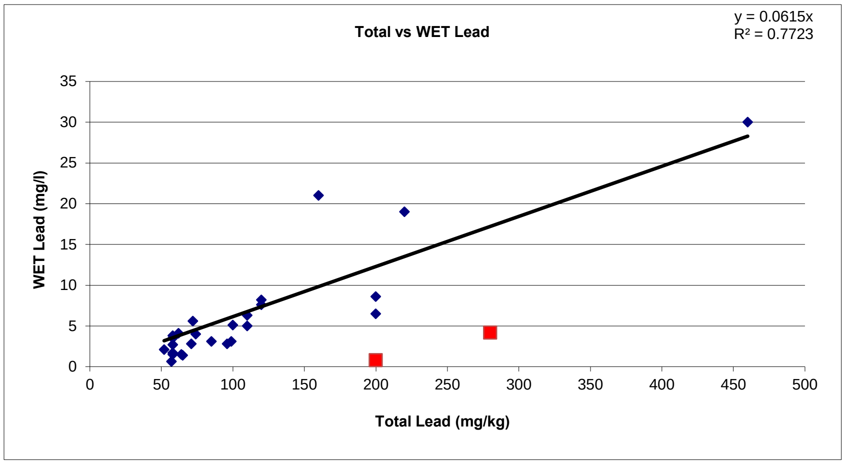
D6-3
D1-7.5
D3-4
A2-7.5
B8-5
B7-10
G4-8
B5-5
B8-0
B7-5
H1-4

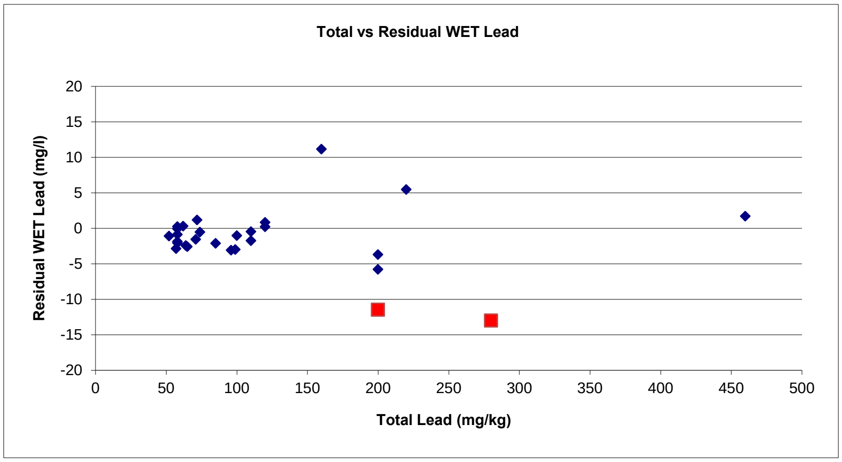
Regular TAT please.
Thanks,
Luann

Luann Beadle | Senior Staff Scientist
Geocon Consultants, Inc.
6671 Brisa Street, Livermore, CA 94550
Office: 925.371.5900, ext. 403 Direct: 925.961.5272 Mobile: 925.395.1669
beadle@geoconinc.com

APPENDIX B

Sample ID	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	Residual WET Lead (mg/l)	Squared Residual WET Lead (mg/l)
A3-0	0 to 0.5	58	3.5	-0.07	0.00
B7-10	10 to 10.5	120	7.6	0.22	0.05
B3-0	0 to 0.5	58	3.8	0.23	0.05
C3-6	6 to 6.5	62	4.1	0.29	0.08
A2-7.5	7.5 to 8	110	6.3	-0.47	0.22
B8-15.5	15.5 to 16	74	4.0	-0.55	0.31
G4-8	8 to 8.5	120	8.2	0.82	0.67
A1-0	0 to 0.5	58	2.7	-0.87	0.75
D1-7.5	7.5 to 8	100	5.1	-1.05	1.11
A4-0	0 to 0.5	52	2.1	-1.10	1.21
D3-4	3 to 3.5	72	5.6	1.17	1.37
A2-0	0 to 0.5	71	2.8	-1.57	2.46
H1-4	4 to 4.5	460	30	1.70	2.89
D6-3	3 to 3.5	110	5.0	-1.77	3.12
E1-3	3 to 3.5	58	1.7	-1.87	3.49
E3-3	3 to 3.5	58	1.5	-2.07	4.28
E3-6	6 to 6.5	85	3.1	-2.13	4.53
B2-0	0 to 0.5	64	1.5	-2.44	5.94
B1-15.5	15.5 to 16	65	1.4	-2.60	6.75
C3-3	3 to 3.5	57	0.63	-2.88	8.28
E4-3	3 to 3.5	99	3.1	-2.99	8.94
E4-6	6 to 6.5	96	2.8	-3.11	9.65
B5-5	5 to 5.5	200	8.6	-3.70	13.72
B8-0	0 to 0.5	220	19	5.47	29.87
B8-5	5 to 5.5	200	6.5	-5.80	33.69
B7-5	5 to 5.5	160	21	11.16	124.47
Not Used					
B3-5	5 to 5.5	200	0.81	-11.49	132.12
B6-5	5 to 5.5	280	4.2	-13.03	169.68





Total Pb - with Statistical Outlier

Number of Valid Observations	119
Number of Distinct Observations	64
Minimum	1.1
Maximum	1,900
Mean	57.2
Median	22
SD	181.5
Variance	32926
Coefficient of Variation	3.173
Skewness	9.15
Mean of log data	3.009
SD of log data	1.344
90% Standard Bootstrap UCL	**78.1**
95% Standard Bootstrap UCL	**79.0**

Pb without Statistical Outlier

Number of Valid Observations	118
Number of Distinct Observations	63
Minimum	1.1
Maximum	460
Mean	41.6
Median	22
SD	62.74
Variance	3936
Coefficient of Variation	1.509
Skewness	3.74
Mean of log data	2.971
SD of log data	1.282
90% Standard Bootstrap UCL	**48.8**
95% Standard Bootstrap UCL	**51.0**

As

Number of Valid Observations	48
Number of Distinct Observations	32
Minimum	0.5
Maximum	56
Mean	6.88
Median	4.8
SD	8.197
Variance	67.2
Coefficient of Variation	1.191
Skewness	4.772
Mean of log data	1.523
SD of log data	0.97
95% Standard Bootstrap UCL	**8.86**

Co

Number of Valid Observations	48
Number of Distinct Observations	25
Minimum	7.1
Maximum	24
Mean	11.2
Median	10
SD	3.47
Variance	12.04
Coefficient of Variation	0.31
Skewness	1.72
Mean of log data	2.378
SD of log data	0.269
95% Standard Bootstrap UCL	**12.0**

TPHd

Number of Valid Observations	71
Number of Distinct Observations	50
Minimum	3.3
Maximum	900
Mean	46.8
Median	30
SD	106.8
Variance	11407
Coefficient of Variation	2.282
Skewness	7.485
Mean of log data	3.165
SD of log data	1.084
95% Standard Bootstrap UCL	**66.9**

TPHmo

Number of Valid Observations	71
Number of Distinct Observations	44
Minimum	7
Maximum	2000
Mean	121.7
Median	72
SD	239.1
Variance	57155
Coefficient of Variation	1.965
Skewness	7.116
Mean of log data	4.182
SD of log data	1.064
95% Standard Bootstrap UCL	**168**

Dieldrin

Number of Valid Observations	28
Number of Distinct Observations	5
Minimum	1
Maximum	4.9
Mean	1.43
Median	1
SD	1.116
Variance	1.246
Coefficient of Variation	0.783
Skewness	2.508
Mean of log data	0.193
SD of log data	0.491
95% Standard Bootstrap UCL	**1.75**

Benzo(a)anthracene

Number of Valid Observations	71
Number of Distinct Observations	35
Minimum	2.5
Maximum	5300
Mean	125
Median	25
SD	627.5
Variance	393793
Coefficient of Variation	5.03
Skewness	8.242
Mean of log data	3.038
SD of log data	1.587
95% Standard Bootstrap UCL	**247**

Benzo(a)pyrene

Number of Valid Observations	71
Number of Distinct Observations	32
Minimum	2.5
Maximum	7400
Mean	187
Median	25
SD	877.9
Variance	770645
Coefficient of Variation	4.693
Skewness	8.151
Mean of log data	3.503
SD of log data	1.62
95% Standard Bootstrap UCL	**359**

Benzo(b)fluoranthene

Number of Valid Observations	71
Number of Distinct Observations	30
Minimum	2.5
Maximum	11000
Mean	238
Median	25
SD	1301
Variance	1691543
Coefficient of Variation	5.468
Skewness	8.326
Mean of log data	3.607
SD of log data	1.601
95% Standard Bootstrap UCL	**490**

Benzo(k)fluoranthene

Number of Valid Observations	71
Number of Distinct Observations	20
Minimum	2.5
Maximum	4000
Mean	98.8
Median	25
SD	471.7
Variance	222532
Coefficient of Variation	4.773
Skewness	8.31
Mean of log data	3.166
SD of log data	1.462
95% Standard Bootstrap UCL	**192**

Chrysene

Number of Valid Observations	71
Number of Distinct Observations	37
Minimum	2.5
Maximum	6200
Mean	149
Median	25
SD	734.2
Variance	539031
Coefficient of Variation	4.923
Skewness	8.226
Mean of log data	3.248
SD of log data	1.594
95% Standard Bootstrap UCL	**292**

Indeno(1,2,3-cd)pyrene	
Number of Valid Observations	71
Number of Distinct Observations	17
Minimum	2.5
Maximum	3600
Mean	91.2
Median	25
SD	424.8
Variance	180458
Coefficient of Variation	4.657
Skewness	8.28
Mean of log data	3.065
SD of log data	1.506
95% Standard Bootstrap UCL	**175**

Antimony - Outlier Test

	Outlier Tests for Selected Variables
User Selected Options	
From File	Sheet1.wst
Full Precision	OFF
Test for Suspected Outliers with Dixon test	1
Test for Suspected Outliers with Rosner test	1

Rosner's Outlier Test for Sb

Mean	1.625
Standard Deviation	4.33
Number of data	48
Number of suspected outliers	1

#	Mean	sd	Potential outlier	Obs. Number	Test value	Critical value (5%)	Critical value (1%)
1	1.625	4.285	31	15	6.856	3.11	3.46

For 5% Significance Level, there is 1 Potential Outlier
Therefore, Observation 31 is a Potential Statistical Outlier

For 1% Significance Level, there is 1 Potential Outlier
Therefore, Observation 31 is a Potential Statistical Outlier

Lead - Outlier Test

```
                                              Outlier Tests for Selected Variables
User Selected Options
From File                                     Sheet1.wst
Full Precision                                OFF
Test for Suspected Outliers with Dixon test          1
Test for Suspected Outliers with Rosner test         1


Rosner's Outlier Test for Pb


Mean                                      57.19
Standard Deviation                        181.5
Number of data                              119
Number of suspected outliers                  1

                                   Potential  Obs.     Test      Critical     Critical
#          Mean       sd           outlier    Number   value     value (5%)   value (1%)
        1     57.19      180.7        1900        86      10.2       3.433        3.803

For 5% Significance Level, there is 1 Potential Outlier
Therefore, Observation 1900 is a Potential Statistical Outlier

For 1% Significance Level, there is 1 Potential Outlier
Therefore, Observation 1900 is a Potential Statistical Outlier
```

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
COLLEEN CHAWLA, Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
LOCAL OVERSIGHT PROGRAM (LOP)
FOR HAZARDOUS MATERIALS RELEASES
1131 HARBOR BAY PARKWAY, SUITE 250
ALAMEDA, CA 94502
(510) 567-6700
FAX (510) 337-9335

November 13, 2018

Mr. Kevin Brown
Urban Designs, LLC
1201 Pine Street, #151
Oakland, CA 94612
(Sent via electronic mail to: KB@hollidaydevelopment.com)

Subject: Conditional Approval of Additional Site Investigation Activities for Site Cleanup Program Case No. RO0003269 and GeoTracker Global ID T10000011072, The Phoenix, located at 801 Pine Street, Oakland, CA 94601, APN: 6-47-1.

Dear Mr. Brown:

Alameda County Department of Environmental Health (ACDEH) staff has reviewed the email to ACDEH, dated Friday, November 9, 2018, presenting results of field investigation activities conducted in October 2018 and recommendations for additional subsurface investigation activities at the subject site to evaluate vapor intrusion to onsite receptors as well as offsite receptors (east of Pine Street) and north of existing soil gas wells SG10 and SG11 in the vicinity of proposed Parcel 3. On Wednesday November 7, 2018 ACDEH met with you and your environmental consultants to discuss the results of soil gas and grab groundwater investigations; including the advancement of five soil gas wells (SG10 through SG14), two grab groundwater samples (GW10 and GW11) and sampling of existing soil gas wells SG2, SG4, SG5, and SG6. Results of the October 2018 investigation indicate tetrachloroethylene (PCE) concentrations in soil gas have not been delineated offsite to the east in addition to the north and northeast of proposed Parcels 2 and 3. Trichloroethylene (TCE) concentrations in soil gas have not been delineated offsite east of proposed Parcel 2.

ACDEH understands the scope of work for the additional subsurface investigation activities will include the following:

1. Installation of **soil gas well SG15 to** evaluate potential offsite migration and delineation of TCE concentrations east of existing soil gas wells SG10 and SG14. The soil gas well will be advanced and sampled using previously ACDEH-approved methods outlined in the *Limited Subsurface Investigation Work Plan* (the Work Plan), dated March 23, 2018 and the *Limited Subsurface Investigation Work Plan Addendum* (the Addendum), dated May 15, 2018, submitted by P&D and approved by ACDEH on May 22, 2018.

2. Installation of **soil gas wells SG16 through SG20** to evaluate potential offsite migration east of Parcel 2 and 3 and delineation of soil gas north and northeast of SG10 and SG11. The soil gas well will be advanced and sampled using previously ACDEH-approved methods outlined in the *Limited Subsurface Investigation Work Plan* (the Work Plan), dated March 23, 2018 and the *Limited Subsurface Investigation Work Plan Addendum* (the Addendum), dated May 15, 2018, submitted by P&D and approved by ACDEH on May 22, 2018.

Based on our review, ACDEH conditionally approves the scope of work mentioned above and requests that you perform the proposed work. Please provide 72-hour advance written notification to this office (e-mail preferred to: andrew.york@acgov.org) prior to the start of field activities. In order to facilitate the proposed site redevelopment schedule for Parcel 1 (proposed permanent supportive housing), ACDEH requests that the reporting of all subsurface activities conducted at the site be used to complete the conceptual site model and included in the in Corrective Action Plan for the site.

ACDEH notes that although you are in the process of completing the additional data gap sampling discussed above to provide a complete assessment of the extent of volatile organic compounds (VOCs) in soil vapor, ACDEH agrees that the site can be redeveloped provided corrective actions are implemented at the site that will be protective of environmental risks to future building residents and workers. These measures may include excavation of lead-impacted soil and/or offsite disposal at a permitted landfill or onsite consolidation and capping to prevent direct contact exposure, and installation of vapor mitigation engineering controls underlying the structures and hardscape to reduce the inhalation risk of exposure to VOCs.

ACDEH understands that the project is scheduled to be reviewed and approved by the City of Oakland Planning Commission on December 19, 2018 and Holliday Development will be submitting a funding application to the Alameda County Housing and Community Development agency for Proposition A1 funds. That funding program requires the project to have local approvals and environmental clearances by the end of 2018.

Based on our November 7th meeting with you, ACDEH understands that Holliday anticipates completion of the data gap investigation field activities and submittal of a corrective action plan to ACDEH before the end of 2018. ACDEH is committed to working with you on this important project and will expedite review of submittals to the extent practicable during the upcoming holiday season.

Thank you for your cooperation. ACDEH looks forward to working with you in developing a corrective action plan that will provide long-term protection for potential environmental risk. If you have any questions, please call me at (510) 639-1276 or send me an email message at andrew.york@acgov.org

Sincerely,

Drew J. York
Senior Hazardous Materials Specialist

Dilan Roe, PE, C73703
Chief - Land Water Division

cc: David Schenker, Holliday Development (*Sent via E-mail to:* david@hollidaydevelopment.com)
Jamie Hiteshew, Holliday Development (*Sent via E-mail to:* jamie@hollidaydevelopment.com)
Paul H. King, P&D Environmental, Inc. (*Sent via E-mail to:* pdking0000@aol.com)
Tom Graf, Graf Con (*Sent via E-mail to:* tom@grafcon.com)
Mike Rivera, City of Oakland Bureau of Planning (*Sent via E-mail to:* mrivera@oaklandnet.com*)*
Tim Lowe, City of Oakland Building Department (*Sent via E-mail to* TLow@oaklandnet.com*)*
James Yoo, Alameda County Public Works (*Sent via E-mail to* jamesy@acpwa.org*)*
Dilan Roe, ACDEH, Chief Land, and Water Division (*Sent via E-mail to:* dilan.roe@acgov.org)
Paresh Khatri, ACDEH (*Sent via E-mail to:* paresh.khatri@acgov.org)
Drew York, ACDEH (*Sent via E-mail to:* andrew.york@acgov.org)
Electronic File, GeoTracker

URBAN DESIGNS, LLC

1201 Pine Street, Unit 151 • Oakland, CA 94607-1461

December 1, 2017

Mr. Andrew York
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

SUBJECT: SOIL AND GROUNDWATER MANAGEMENT PLAN CERTIFICATION
County File # RO 3269
The Phoenix
800 Cedar St.
Oakland, CA 94607

Dear Mr. York:

You will find attached one copy of the following document prepared by P&D Environmental, Inc. for the subject site:

- Soil and Groundwater Management Plan dated December 1, 2017.

I have read and acknowledge the content, recommendations and/or conclusions contained in the attached document or report submitted on my behalf to ACDEH's FTP server and the SWRCB's GeoTracker website.

Should you have any questions, please do not hesitate to contact me at (510) 588-5134.

Sincerely,

Urban Designs, LLC

Rick Holliday
Manager

Attachment

0772.L2

SOIL AND GROUNDWATER MANAGEMENT PLAN

County File # RO 3269

Urban Designs, LLC

The Phoenix

800 Cedar Street

Oakland, CA

Prepared For:

Mr. Kevin Brown

Urban Designs, LLC

1201 Pine Street #151

Oakland, CA 94607

Prepared By:

P&D Environmental, Inc.

55 Santa Clara Avenue, Suite 240

Oakland, CA 94610

PROFESSIONAL GEOLOGIST
PAUL H. KING
No. 5901
STATE OF CALIFORNIA

Paul H. King

Paul H. King
Professional Geologist

December 1, 2017

Project # 0772

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Appendices

1.0 INTRODUCTION

This Construction Soil and Groundwater Management Plan (SGMP) has been prepared by P&D Environmental, Inc. of Oakland, California (P&D) on behalf of Urban Designs, LLC (Urban Designs) for earthwork activities associated with the redevelopment project of 800 Cedar Street in Oakland, California (***Figure 1***) with Alameda County Assessor Parcel Number (APN) 006-047-1 (the Site) for what is identified on the Alameda County parcel viewer page as 800 Cedar Street. Cedar Street no longer exists, and the site is bounded on the east by Pine Street. The Site is currently vacant with a concrete surface covering almost all of the property. The redevelopment project ("Project") consists of (1) demolition of the existing concrete cover; (2) grading and soil excavation for utilities, elevator shafts, and foundations; and (3) construction of multi-story, mixed-use residential buildings and landscaped areas.

1.1 Lead Regulatory Oversight Agency for Environmental Site Cleanup

Soil and groundwater at the Site has been impacted from historical land use practices on-Site and potentially off-Site. Alameda County Department of Environmental Health's (ACDEH) Local Oversight Program for Hazardous Materials Releases (LOP) is the lead regulatory oversight agency for the environmental investigation and cleanup actions at the Site under Site Cleanup Program Case (SCP) No. RO0003269. A separate LOP Case No. RO0000417 was historically associated with a former Underground Storage Tank (UST) release that was located on a portion of the former Phoenix Iron Works that is no longer a portion of the existing property.

Due to the presence soil and groundwater contamination at the Site corrective actions are necessary to safely prepare the Site for development. Corrective actions include: (1) on-Site consolidation of lead-contaminated soil; (2) capping lead impacted soil on-Site beneath building foundations, hardscape and/or clean fill; (3) installation of a vapor mitigation barriers; and (4) installation of trench plugs in utility trenches where required to mitigate vapor migration.

A Site map showing the historical locations of USTs is attached as ***Figure 2***. No ground floor plan is presently available for the project. A complete record of environmental Site investigations at the Site may be obtained in the case files for RO0003269 (i.e., available regulatory directives and correspondence, reports, analytical data, etc.) through review of both the State Water Resources Control Board's GeoTracker database, and the ACDEH website at http://www.acgov.org/aceh/index.htm.

1.2 SGMP Purpose & Objectives

This SGMP is designed to provide Urban Designs and the construction team with guidance for the proper handling and management of contaminated soil and groundwater during redevelopment activities.

The goals of this SGMP are to provide detailed information regarding known environmental conditions at the Site and establish a decision-making structure to assist the construction team in the identification and management of contaminated media, when and if they are encountered. The objectives of this SGMP are as follows:

- Communicate information to Site construction workers about Site environmental conditions;
- Present protocols for appropriate community protection;
- Present guidelines for health and safety precautions for on-Site workers who may access soil or groundwater that could contain residual chemicals of concern;
- Present notification and reporting requirements;
- Present protocols for management of known contaminated soil or extracted groundwater generated during Site redevelopment activities; and
- Present contingency procedures in the event that localized areas of unanticipated chemically-affected soil or other subsurface features of environmental concern are encountered during earthwork or excavation activities;

2.0 RESPONSIBILITY FOR SGMP IMPLEMENTATION

Representatives for the property Owner will oversee implementation of the SGMP at the Site. A copy of this SGMP will be maintained at the Site at all times. The Owner and General Contractor(s) will make all third-party subcontractors working at the Site aware of the requirements of the SGMP, and provide an electronic copy and hard-copy to all subcontractors that are performing activities covered by this SGMP and who may encounter suspect subsurface conditions during execution of their work.

The project Environmental Consultant will be present to assist the Owner and contractors with the implementation of this SGMP when ground-disturbing activities are being conducted in areas where contamination is known or suspected or when unknown conditions are encountered.

2.1 Activities Covered by the SGMP

The following activities constitute the work covered under this SGMP.

- **Subsurface Construction or Repair** – any activity occurring beneath the grade level of existing or future ground surface;
- **Utility Line Work** – any subterranean inspection, excavation, or repair of electrical, telephone, water, sanitary sewer or storm drains occurring within or outside of existing vaults (conducted prior to excavation); and

- **Other** – other subgrade activities not expressly listed a love (e.g., deep landscaping work, sub-slab work, etc.)

2.2 Project Construction Team Contact Information

Prior to the initiation of construction activities that are covered under this SGMP, the Owner will confirm the Owner's project representative and project Environmental Consultant listed below. Regular and 24-hour emergency contact information for these individuals will be confirmed and updated as necessary. A project contact sheet will be provided to the General Contractor and posted in an accessible and suitable location at the Site.

Project Role	Company Name	Name	Contact Information
Owner Representative	Urban Designs, LLC	David Schenker	(510) 588-5134; david@hollidaydevelopment.com
General Contractor	Cannon Constructors North, Inc.	Larry Pace	(415) 546-5500; LPace@cannongroup.com
Environmental Consultant	P&D Environmental, Inc.	Paul King	(510) 658-6916; paul.king@pdenviro.com

2.3 Worker Health and Safety

In addition to following the SGMP, each Contractor and subcontractor is responsible for the safety of its employee and Site visitors including but not limited to adherence to a health and safety plan and use of property-trained personnel:

- **Preparation of a Site-Specific Health and Safety Plan (HASP)**. A HASP will be prepared for the project in accordance with California Occupational Safety and Health Administration (CAL-OSHA) Construction Safety Orders within Title 8 of the California Code of Regulations (CCR). The General Contractor is responsible for notifying subcontractors and visitors of pertinent environmental conditions to ensure adequate protection for workers and visitors while on Site. Subcontractors may either adopt the General Contractor's HASP or prepare their own HASP. In the event that unanticipated conditions occur at the Site, the HASP will be modified accordingly.

- **Use of Properly-Trained Personnel**. Each contractor engaged in contact and management of contaminated soil or groundwater will use properly trained personnel in accordance CCR, Title 29, Part 1910.120 Hazardous Waste Operations and Emergency Response (HAZWOPER) standards.

2.4 Community Protection During Site Redevelopment

Land use in the vicinity of the Site is mixed commercial and residential. A map of the land use in the immediate vicinity of the Site is presented on ***Figure 1***. During the development of the Site, the Owner and contractors will implement measures to control potential risks to the surrounding community from fugitive dust emissions. These activities will be implemented when there is the potential for exposed soil to affect the nearby community. It is anticipated that following placement of hardscapes and building pads, air monitoring will not be required as there will not be exposed soil surfaces.

2.5 Agreement and Acknowledgement Statement

Prior to commencement of any Site activities that disturb the ground surface, the General Contractor and subcontractors of the Owner will read this plan and sign the Agreement and Acknowledgement Statement (***Appendix A***) to certify that they have read, understood and agreed to abide by its provisions.

3.0 AGENCY NOTIFICATION & REPORTING REQUIREMENTS

The Owner will notify the ACDEH and other agencies as applicable during Site development activities in accordance with the protocols described below.

3.1 ACDEH Notification

The Owner will notify the ACDEH and the ACDEH Certified Unified Program Agency (CUPA) during Site redevelopment activities in accordance with the protocols below.

3.1.1 Twenty-four (24) Hour Notification

The ACDEH will be notified within 24 hours of discovery if any of the following potentially hazardous conditions are encountered:

- Releases spills or releases of hazardous substances or petroleum hydrocarbons to soil or water that are considered, based on best professional judgment and/or physical evidence (including but not limited to olfactory, visual, field instrument, and lab data), to be an immediate threat to human health and the environment; and/or

- Discovery of unknown conditions (underground storage tanks, sumps, vaults, piping, etc.) or newly found contamination.

In the event of the discovery of USTs, vaults, hoists, & pipelines, the ACDEH CUPA must also be notified within 24 hours of the discovery.

3.1.2 Seventy-two (72) Hour Notification

The ACDEH will be notified 72 hours in advance of ground disturbing activities in areas of known contamination or suspected contamination.

3.1.3 ACDEH and CUPA Contact Information

The primary points of contact for the ACDEH LOP and CUPA are provided below. All agency notifications must be made by phone and email. An ACDEH contact sheet will be provided to the General Contractor and posted in an accessible and suitable location at the Site.

Drew York, ACDEH Case Worker	(510) 639-1276; Andrew.York@acgov.org
Paresh Khatri, ACDEH Program Manager	(510) 777-2478; paresh.khatri@acgov.org
ACDEH CUPA	(510) 567-6700 dehalamedacers@acgov.org

3.2 Other Agency Notification

In addition to the ACDEH notification requirements discussed above, other agency notifications may be required. Contact information for other agency notifications that may be required is provided below. Prior to the initiation of construction activities that are covered under this SGMP, the Owner will confirm the contact information listed below. An agency contact sheet will be provided to the General Contractor and posted in an accessible and suitable location at the Site.

Conditions Posing an Immediate Threat. For life-threatening or serous hazardous materials incidents, the following number will be contacted immediately upon discovery.	
Local police, fire and rescue services	911
Releases to Water. For spills or releases of hazardous substances or petroleum hydrocarbons to surface water, the following agencies will be contacted immediately upon discovery.	
National Spill Response Center	(800) 424-8802
United States Coast Guard – San Francisco Sector (if spill is going to reach navigable waters)	(415) 399-3547
California Office of Emergency Services	(800) 852-7550; (916) 845-8911
California Regional Water Quality Control Board – San Francisco Bay Region	(510) 622-2300
Local Emergency Response Agency	911
VOC-Impacted Soil. If VOC-impacted soil is discovered during Site grading activities, the following agency will be notified.	

Bay Area Air Quality Management District (BAAQMD)	(415) 749-4900
Dust Complaints. For dust complaints during ground disturbing activities, the following agencies will be notified.	
City of Oakland Building Department	(510) 238-3381
BAAQMD	800-334-ODOR (6367)

3.3 LMC Record Keeping & Reporting Requirements

All groundwater removal and soil excavation, disposal and import activities will be documented in daily field reports by the Contractor and/or Environmental Consultant and will kept at the Site and made available to ACDEH upon request. Documentation will include at a minimum the following, as applicable:

- **Groundwater** – volume of groundwater that is removed, characterization, treatment, and destination (transported to temporary holding tanks, used as dust suppression, and/or disposed of off-Site);
- **Underground Structures** – type, contents, characterization, and destination (abandoned in place or disposed of off-Site);
- **Impacted Soil** – origin, volume, characterization, and destination (transported to temporary soil locations within the Site, disposed of off-Site, and/or re-used on Site);
- **Imported Soil** – origin, volume, characterization, and destination (location on-Site);
- **Off-Site Disposal Records** – date, time, trucking company, driver and vehicles used for the trip, equipment decontamination and tarping, waste/material type, volume, copies of bills-of-lading, and hazardous waste manifests; and
- **Dust Complaint Logs** – time, name and contact information, complaint description, earthwork activities associated with complaint, and measures taken to mitigate dust;
- **Analytical Reports** – copies of waste characterization laboratory analytical results.

Following completion of the work covered by this SGMP, the Environmental Consultant will prepare a report for submittal to ACDEH that documents compliance with this SGMP including soil and/or groundwater sampling, removal and management of unknown structures, chemical analysis and proper disposal of contaminated materials and soil import. The report will include at a minimum the information described in Section 3.3 above.

4.0 ENVIRONMENTAL SITE CONDITIONS

Soil and groundwater has been impacted at the Site from historical Site use and potentially from off-Site sources. A summary of known environmental conditions in soil and groundwater is provided below. Tabulated results of analytical data with figures showing the sample collection locations are provided in ***Appendix B***. ***Figures 4 through 7*** of this SGMP show the locations of contaminants historically detected at the Site at concentrations exceeding regulatory agency screening levels. All historical borehole locations are shown in attached ***Figure 3***; historical locations of petroleum and PAHs detected in soil at concentrations exceeding Tier 1 screening levels are shown in attached ***Figure 4***; historical locations of lead detected in soil at concentrations exceeding Tier 1 screening levels are shown in attached ***Figure 5***; historical locations of Total Petroleum Hydrocarbons (TPH) and Volatile Organic Compounds (VOCs) detected in groundwater at concentrations exceeding Tier 1 screening levels are shown in attached ***Figure 6***; historical locations of metals detected in groundwater at concentrations exceeding Tier 1 screening levels are shown in attached ***Figure 7***; and the historical locations of VOCs detected in soil gas at concentrations exceeding Tier 1 screening levels are shown in attached ***Figure 8***.

4.1 Soil

The concrete cover at the Site is underlain by fine to medium sand and silty sand, with poorly graded sand encountered on the eastern portion of the Site and silty sand predominantly encountered in the western portion of the Site. Where both lithologies are encountered, the poorly graded sand overlies the silty sand. Known soil contamination includes the following:

- **Petroleum Impacts.** Elevated concentrations of petroleum-related compounds, detected as Total Recoverable Petroleum Hydrocarbons (TRPH), Total Petroleum Hydrocarbons as Diesel (TPH-D), and Total Petroleum Hydrocarbons as Motor Oil (TPH-MO) have been detected at concentrations exceeding Tier 1 soil screening levels at only a limited number of locations on the western side of the property at depths of 1.5 feet bgs or less (see ***Figure 4***). TRPH, TPH-D and TPH-MO have also been detected in soil at concentrations exceeding Tier 1 soil screening levels at locations to the west of the current property boundary (see ***Figure 4***). Petroleum related Volatile Organic Compounds (VOCs) such as Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) have only been detected in soil at very low concentrations in soil (below Tier 1 soil screening level concentrations) during historical removal activities of a former gasoline and two former solvent Underground Storage Tanks (USTs). Polyaromatic Hydrocarbons (PAHs) have only been detected on-Site in soil at two locations in the western portion of the Site at a depth of 0.5 feet bgs at concentrations exceeding Tier 1 soil screening levels, at one location to the west of the existing property (see ***Figure 4***).

- **Lead Impacts.** Lead is encountered at concentrations exceeding the Tier 1 soil screening level at a limited number of locations at the Site at a depth of 0.5 to 1.0 feet bgs. Additionally, lead exceeding the Tier 1 soil screening level is encountered on the western edge of the property at one location at a depth of 3.0 feet bgs and at a second location at a depth of 7.0 feet bgs (see ***Figure 5***). During earthwork activities soil excavated to achieve Site grades and construct building foundations that contains lead concentrations exceeding Tier 1 soil screening levels will be consolidated on Site with on-Site burial beneath building foundations, hardscape, or clean fill material.

4.2 Groundwater

Unconfined groundwater has been encountered at depths of approximately 9 to 10 feet bgs. Petroleum hydrocarbons (TPH-D, TPH-MO and TPH Bunker Oil (TPH-BO)) and volatile organic compounds (benzene, trichloroethylene (TCE), and chloroform) are present in groundwater at concentrations exceeding Tier 1 groundwater screening levels beneath the eastern and southern portions of the Site (see ***Figure 6***). Additionally, dissolved metals (barium, beryllium, chromium, lead, and nickel) have also historically been detected at concentrations exceeding Tier 1 groundwater screening levels beneath the eastern and southern portions of the Site (see ***Figure 7***).

4.3 Discovery of Unexpected Conditions

Due to historical Site use as a commercial iron foundry, redevelopment activities may reveal unexpected conditions such as previously unidentified areas of contamination or underground structures such as USTs, vaults, hoists, sumps, maintenance pits, pipelines, etc. In the event that unexpected conditions are discovered during Site development that indicate the presence of contamination, the contractor is to stop work at the location of the discovery and notify the general contractor or the property owner of the discovered conditions. The area where the conditions have been discovered will be cordoned off and identified with caution tape and workers will be directed to not enter the area until the area has been evaluated by the general contractor or the owner and authorization has been provided by the general contractor or owner to resume work in the are identified with caution tape. Work may continue in the vicinity of the area identified with caution tape outside the area identified with caution tape.

See also section 6.3 below for procedures associated with discovery of unexpected conditions.

5.0 PRE-FIELD ACTIVITIES

The pre-field activities include a description of planning and organizational aspects of soil excavation required for excavation to begin.

5.1 Site Security and Access

During remedial activities, the Site will be secured to provide protection and safety to on-Site personnel and equipment, and to prevent unauthorized access to areas of remedial activity. A 6-foot high chain link fence exists around the perimeter of the Site and encloses the staging area and the work zones (*i.e.*, any exclusion, decontamination, and support zones). During non-working hours, the fencing will be fully closed and locked. During remedial activities, access will be restricted to authorized personnel only.

5.2 Traffic Control

Caution will be exercised during entrance and exiting of the work area to ensure safe and uninterrupted traffic flow. Entrance into and departure from the Site by trucks will be facilitated by a flagman, or comparable contractor personnel, as necessary. Once trucks have left the Site, they will follow specific haul routes to disposal facilities as described in the Transportation Plan, Section 5.3.5.

5.3 Excavation Permit

All necessary permits for removal activities, transportation, and/or air quality will be obtained prior to remediation. The permits will be kept on-Site and made available for inspection during working hours.

The procedures proposed for remediation activities will comply with federal, State and local rules and regulations, regardless of whether permit documents are required.

5.4 Notifications and Utility Clearance

The general contractor or owner will notify the Bay Area Air Quality Management District (BAAQMD) of excavation activities at least five days prior to implementation. In addition, the general contractor or owner will also notify ACDEH of the soil excavation activities at least 72 hours prior to commencing work. The proposed excavation areas will be marked in white paint prior to contacting Underground Service Alert (USA) at least 48 hours prior to excavating, as required by law. A private utility locating service will be contracted prior to conducting the field activities to mark and/or clear proposed excavation locations relative to the presence and/or marked locations of potential subsurface utilities.

6.0 SOIL MANAGEMENT

Redevelopment activities include grading of the Site. Site grading will include removing the top concrete cover of Site material (pavement, fill material) and excavating soil in conjunction with installation of utility trenches, elevator shafts, and building foundations. Lead-impacted soil will be excavated under the observation of the Environmental Consultant in the areas shown on ***Figure 5*** prior to completing general grading activities during Site redevelopment. Any excess soil generated during grading may be temporarily stockpiled on-Site and either re-distributed for re-compaction on-Site as part of Site grading activities, or transported off-Site for disposal.

All soil management and handling activities will be conducted in accordance with applicable federal, state, and local regulations. During implementation of the project other data may be collected for profiling purposes and to further refine the quantities and classification of potential waste materials that may be generated.

6.1 Excavation of TPH- and PAH-Contaminated Soil

TPH- and PAH-impacted soil at the Site exceeds residential human health risk-based screening levels at a limited number of locations (see ***Figure 4***). Excavation of TPH- and PAH-impacted soil will be conducted in the following general sequence:

- Develop staging areas, access paths for equipment, work zones, and decontamination areas for use during handling of contaminated soil to reduce the potential of tracking waste off-Site;
- Identify locations of perimeter air monitoring stations, as necessary, and begin monitoring to comply with BAAQMD regulations, the HASP, and the protocols in Section 10.0 of this SGMP;
- Excavate and stockpile soil for characterization or direct load onto trucks for appropriate off-Site disposal.
- Environmental consultant will collect discrete confirmation soil samples from locations where TPH- and PAH-impacted soil has been removed in accordance with the Site Remedial Action Plan to confirm that impacted soil has been removed. Areas where impacted soil has been excavated will not be filled without written authorization from the general contractor or owner.

6.2 Excavation of Lead-Contaminated Soil

Lead-impacted soil at the Site exceeds residential human health risk-based screening levels at a limited number of locations (see ***Figure 5***). Excavation of lead-impacted soil will be conducted in the following general sequence:

- Develop staging areas, access paths for equipment, work zones, and decontamination areas for use during handling of contaminated soil to reduce the potential of tracking waste off-Site;
- Identify locations of perimeter air monitoring stations, as necessary, and begin monitoring to comply with BAAQMD regulations, the HASP, and the protocols in Section 10.0 of this SGMP;
- Remove lead-impacted soil that requires consolidation to locations that have been designated for on-Site consolidation.

- The environmental consultant will collect discrete confirmation soil samples from locations where lead-impacted soil has been removed in accordance with the Site Remedial Action Plan to confirm that lead-impacted soil has been removed. Areas where lead-impacted soil have been excavated will not be filled without written authorization from the general contractor or owner.

6.3 Contingency Measures for Previously Unidentified Suspect Soils

The following contingency measures will be implemented in the event that previously unidentified suspected chemically-affected soil is identified during Site excavation. All contingency measures will be conducted by HAZWOPER-trained environmental professionals in accordance with the HASP.

Additionally, as a precaution, the Environmental Consultant will be present during excavation and grading activities in areas of historical underground storage tanks, subsurface anomaly detections, and deeper soil contamination (as shown on ***Figures 2 and 5***) in the event that unexpected contamination or subsurface structures are encountered.

6.3.1 Identification of Contaminated Soil

The Contractor will be instructed to report indicators of contaminated soil, in particular, petroleum hydrocarbons. The three primary physical indicators of petroleum-related contamination in soil include staining, sheen, and petroleum-like odor, as described below:

- **Staining:** Generally, soil that is impacted with petroleum hydrocarbons exhibits gray, black or green staining, although other contaminants and natural conditions may also cause staining.

- **Sheen:** Sheen is another indication of petroleum contamination. Soil exhibiting sheen may appear shiny and reflective. Sheens from heavily impacted soil may appear iridescent with rainbow-like colors.

- **Odor:** Soil impacted with petroleum products, volatile organics, and other types of contamination may release vapors when exposed to the atmosphere. These vapors can be interpreted as an odor. Odor can be subjective, and inhalation of vapors from impacted soil is harmful to human health. Therefore, odor is considered a qualitative field indicator and should not be used for continuous screening of soil.

If soil exhibiting evidence of contamination is encountered during excavation, the Contractor will cease excavation activities in the area and notify the general contractor, the property owner, or the Environmental Consultant within 24 hours. The Contractor will not conduct any work in the area of concern or replace any known or suspected contaminated soil in the excavation area without prior approval by either the general contractor or the property owner. The general contractor or the property owner will not provide authorization for work within the suspected contaminated area without authorization from the ACDEH.

6.3.2 Preliminary Assessment

Preliminary assessment of the previously unidentified suspect soil will include confirmation that access control measures installed by the General Contractor are adequate to provide necessary protection to on-Site workers and the public during the evaluation phase. Confirmation will consist of visual assessment of the installed barriers as well as monitoring of the air outside the control area.

Air sampling will be conducted around the perimeter of the secured area using a combination photoionization detector (PID) meter to measure volatile organic compounds (VOCs) in the breathing zone and a lower explosive limit (LEL)/oxygen (O_2) meter to measure concentrations of combustible gases and available oxygen. If the air sampling suggests that the control measures are improperly positioned to provide necessary protection to on-Site workers, the barriers will be relocated as necessary.

The Environmental Consultant will conduct a preliminary assessment to determine if the previously unidentified suspect soil is considered a significant risk to human health or the environment. If field observations suggest that the suspect conditions are *de minimis* and: (1) do not present a threat to human health or the environment; or (2) would generally not be subject of an enforcement action if brought to the attention of appropriate governmental agencies; then the Environmental Consultant will terminate the contingency plan process and release the suspect areas to the General Contractor.

6.3.3 Evaluation of Previously Unidentified Suspect Soil

If conditions in the suspect area are not considered *de minimis*, the Environmental Consultant will notify the ACDEH on behalf of the Owner within 24-hours of discovery and evaluate the nature and extent of the potentially chemically-affected soil in accordance with the protocols below.

- **In-Situ Soil Samples.** An in-situ soil sample will be collected from the same location and depth as the previously unidentified suspect soil and at 1-foot below this depth. Additional samples will also be collected at the same depths at a minimum of four step-out locations to assess soil conditions around the suspect sample location. The four step-out locations will be located approximately 5 feet to the north, south, east, and west of the suspect sample location. The dimensions of the area of evaluation can be adjusted to a larger dimension vertically and horizontally based on the size of the impacted area. Each sample will be collected as a relatively undisturbed sample using a stainless steel tube and observed for evidence of odors and staining and screened for VOCs using a PID. If any of the in-situ soil samples show evidence of odors and staining or VOCs are detected above 10 parts per million by volume (ppmv) then environmental sample(s) will be retained for analyses.

- **Stockpiled Soil Samples.** If previously unidentified suspect soil is stockpiled on-Site, discrete samples will be obtained for off-Site disposal using stainless steel tubes at a frequency and for analytes specified by the disposal facility. For re-use at the Site soil samples will be collected at a frequency and for analysis as specified in the Department of Toxic Substances Control (DTSC) *Information Advisory – Clean Imported Fill Material* (2001). .
- **Laboratory Analysis.** Following soil sample collection, the containers will be labeled for identification and immediately placed in a chilled, thermally insulated cooler containing ice. The cooler containing the samples will then be delivered under chain-of-custody protocol to a state-certified laboratory. Any sample compositing will be performed at the laboratory. Laboratory analysis will be performed in accordance with requirements set forth by the disposal facility. For consideration for re-use of the soil at the Site, the following laboratory analysis:
    - TPH-G using EPA Method 5030B in conjunction with modified EPA Method 8015B.
    - TPH-D and TPH-MO using EPA Method 3550 in conjunction with modified EPA Method 8015B.
    - VOCs (including MTBE, benzene, toluene, ethylbenzene, and xylenes (MBTEX), and fuel oxygenates and lead scavengers, and naphthalene) using EPA Method 8260B.
    - SVOCs (including PAHs) using EPA Method 8270C.
    - Organochlorine Pesticides by EPA Method 8081.
    - PCBs by EPA Method 8082.
    - CAM 17 metals using EPA Method 6020.
    - If necessary, extractable metals tests (i.e., leaching test including waste extraction test [WET] and/or toxicity characteristic leaching procedure [TCLP] procedures) will be conducted on the samples with elevated total metals concentrations to establish if the soils are hazardous based on their leaching characteristics.

After the evaluation is complete, the Environmental Consultant will provide the Owner, General Contractor and the ACDEH with conclusions regarding potential risks of the suspect material to human health and the environment as well as recommendations for proper management of the affected soil. All soil removal and soil re-use work will be approved by the ACDEH prior to implementation. If VOC-affected soil is encountered, notification will be provided to BAAQMD as required in the guidelines and notification requirements set by Regulation 8, Rule 40 of the BAAQMD Rules and Regulations for aeration of contaminated soil.

6.4 Reuse of Concrete & Soil Importation

Reuse of crushed concrete or use of imported fill material will be characterized and approved by ACDEH prior to being placed at the Site in accordance with the DTSC *Information Advisory – Clean Imported Fill Material* (2001) and the New Jersey Department of Environmental Protection *Guidance for Characterization of Concrete and Clean Material Certification for Recycling* (updated January 12, 2010). Discrete samples will be collected from the import source for characterization and specific laboratory analyses will be based on the fill source characteristics. The analytical results of the import soil samples will be compared to applicable screening criteria to evaluate whether the material is suitable for import to the Site.

7.0 CONTINGENCY MEAUSURES FOR DISCOVERY OF UNEXPECTED UNDERGROUND STRUCTURES

If any previously unidentified or unknown underground structures including tanks, vaults, sumps, containment structures, separators, or piping that has previously contained or has the potential to contain hazardous materials is encountered during Site grading activities, the contractor will provide notification to the general contractor or owner so that the general contractor, owner, or Environmental Consultant can provide notification to the ACDEH and CUPA within 24-hours of the discovery and consulted on appropriate next steps. USTs may be identified during grading and Site excavation activities by the presence of vent pipes that extend above the ground surface, product distribution piping that leads to the UST, fill pipes, backfill materials, or the underground structure itself. Other buried structures may not have features that extend above ground surface, and could be discovered only after contact with construction equipment.

The removal or burying of any of these structures without prior acknowledgement and approval form ACDEH is prohibited. Discovered structures will be assessed as follows:

- The structure will be inspected to assess whether it contains any indication of chemical residuals or free-phase liquids other than water. This assessment will be conducted by the Environmental Consultant, and will be based on visual evidence and the results of vapor monitoring using a PID. Under no circumstances will any personnel enter an unknown subsurface structure at any time. If chemicals are not indicated within the structure by the above-referenced means and with ACDEH approval the structure may be removed or abandoned in place in a safe manner by the contractor;

- If liquids or solids are present within the structure, measures will be taken to contain the liquids to avoid spills to the subsurface. Samples will be collected and submitted to a California-certified laboratory for analysis. Liquids or solids may be temporarily drummed, or liquids may be collected by vacuum truck, while analysis is pending. Based on analytical results, the liquids or solids will be disposed of under the direction of the Environmental Consultant in accordance with all applicable environmental laws and disposal requirements;

- If contaminated liquid or solids are present in the structure, the structure will be inspected for physical integrity following removal of the contaminated media. The Environmental Consultant will document the results of this inspection, including an estimation of the volume and former use of the structure.

- If the physical inspection of the structure suggests that chemicals may have been released to the underlying soils additional environmental investigations of the underlying soils will be conducted to assess whether a release sufficient to warrant removal has occurred.

- If, based on the opinion of the Environmental Consultant and ACDEH, it is assessed that the structure is intact, that subsurface releases of the chemicals to the underlying soils likely did not occur, and no free-phase liquids or chemical residues remain inside, removal of the structure may not be required for environmental reasons.

- Otherwise, with ACDEH approval, the structure will be excavated and disposed of at the direction of the Environmental Professional. Once the structure is removed, soils adjacent to and beneath the structure will be assessed for contamination through visual observation and organic vapor analysis and the results documented. If soils are determined to be "contaminated" with VOCs in the context of BAAQMD Rule 8-40, the appropriate response will be determined in consultation with ACDEH.

ACDEH may require further response actions based on the discovery of hazardous materials that pose an unreasonable risk to human health and safety or the environment.

8.0 GROUNDWATER MANAGEMENT

Groundwater at the Site is typically encountered at depths 9 to 10 feet bgs. As the excavation is at most approximately 6 feet (for elevator pits), construction dewatering is not anticipated. If dewatering of an excavation will be necessary during construction activities, a wastewater discharge permit will be obtained from the East Bay Municipal Utility District (EBMUD) for discharging water encountered during construction activities to the sanitary sewer system. Alternatively, water removed from the ground will be containerized and evaluated for alternate disposal methods that will be approved by the ACDEH prior to implementation.

If dewatering effluent is to be discharged to the storm drain, a National Pollutant Discharge Elimination System (NPDES) permit from the Regional Water Quality Control Board. Permits will be obtained from the City of Oakland Public Works Department and/or the East Bay Municipal Utility District (EBMUD) if dewatering effluent is discharged to the City of Oakland sanitary sewer system.

Chemical testing will be performed in accordance with the receiving facility's requirements prior to discharge. If concentrations exceed the limits established for the discharge point, the dewatering effluent will either will be (1) transported off-Site for disposal at a licensed disposal facility or (2) treated and discharged following sampling and analysis to confirm the success of treatment.

9.0 WASTE MANAGEMENT

9.1 Soil Characterization Prior to Off-Site Disposal

Soil that has been pre-characterized by in-situ soil testing and is intended for off-Site disposal can be loaded directly into trucks for transport to the receiving facility once the appropriate off-Site disposal location acceptance approval has been provided. Some soil may need to be placed in temporary on-Site stockpiles because: (1) they require further characterization prior to off-Site disposal; (2) short-term storage is necessary until haul trucks are available to transport the soil off-Site for disposal; or (3) the need for processing or sorting prior to landfilling. If soil is not adequately characterized to directly load and haul then it may be necessary to stockpile and sample. Stockpiled soil will be characterized as required by the receiving facility.

Soil considered for re-use at the Site will be tested in accordance with methods described in section 6.3.3 of this SGMP. In the event very elevated data are found in a four-point composite sample, the Environmental Consultant may elect, in consultation with the Owner, to have the four individual subsamples analyzed for that specific compound in an attempt to isolate the soils containing the highest concentrations for disposal evaluation.

9.2 Soil Stockpile Management

Soil that is placed in temporary stockpiles will be well maintained at all times to prevent run-on/runoff and fugitive dust emissions. All stockpiled soil will be placed on impermeable plastic sheeting (minimum 6-mil-thick) with a berm around the perimeter of the stockpile. The plastic sheeting and berm will prevent the runoff of soil and potential contaminants to surrounding areas. The berm will be constructed with hay bales, dimensional lumber, or other equivalent methods. The bottom plastic sheeting will be lapped over the berm materials, and the soil stockpile will be covered with plastic sheeting to prevent erosion or leaching of contaminants to underlying soil and prevent exposure to precipitation and wind. Plastic sheeting that covers the soil stockpile will be secured using sand bags or equivalent. Following removal, the soil stockpile area will be restored to a pre-stockpile condition. Residual plastic or debris will also be disposed of following stockpile removal.

9.3 Decontamination Procedures

In order to prevent residual contamination from leaving the Site by construction equipment and personnel during remedial excavation activities, the following decontamination procedures will be followed:

- Prior to loading excavated materials into trucks, plastic sheeting will be placed on the ground such that any spilled material will be prevented from contacting the ground surface. Upon completion of loading, any debris will be placed in the transportation vessel and the plastic sheeting will be reused, or disposed of.

- To minimize the spread of contaminated soil, equipment will be cleaned prior to movement out of active work zones. The equipment wheels/tires will be cleaned over plastic sheeting by means of shovels and stiff-bristled brooms or brushes or by power washing until they are fully cleaned. Upon completion of cleaning, any debris will be placed in the appropriate transportation vessel, fluids will be containerized, and the plastic sheeting will be folded and disposed of. The rinsate water will be distributed over contaminated soil (to be exported) for dust control purposes. Equipment exiting the Site will be inspected and logged for compliance with the Site decontamination requirements.

- Personal protective equipment, such as disposable coveralls, will be removed and discarded in the contamination reduction zone. In order to decontaminate reusable items such as work boots, a two-stage decontamination process will be used. This process will include washing in a detergent solution with a stiff-bristled brush and rinsing in clean water. The rinsate water will be distributed over contaminated soil (to be exported) for dust control purposes.

9.4 Off-Site Soil Disposal & Transportation Plan

Following acceptance of the excavated soil at an appropriate-licensed disposal facility, the soil will be loaded in licensed haul trucks (such as end-dumps or transfers) and transported off the Site following appropriate California and Federal waste manifesting procedures. The appropriate waste manifest documentation will be provided to truck drivers hauling the affected soil off-Site.

Transportation equipment will be chosen to safely transport the expected volumes of soil, taking into consideration the types of roads to be traveled and their loading capacity. Routine truck maintenance and repairs will be performed at the contractor's premises prior to picking up loads of waste material from the Site.

As each truck is filled, an inspection will be made to verify that the waste soil is securely covered, to the extent practicable, and that the tires of the haul trucks are reasonably free of accumulated soil prior to leaving the Site. During loading, dust and odor emissions will be monitored and mitigated as necessary. During transportation, the hauling trucks will be equipped to fully cover all soil and debris, such as with a heavy tarpaulin. A street sweeper will be made available, as needed, to keep the loading area clean. The soil will be wetted, as necessary, to reduce the potential for dust generation during loading and transportation activities.

A detailed log of the loads hauled from the Site will be maintained. The log will include, at a minimum, the date and the time trucks were loaded and off-loaded, the destination, size (volume and weight) of the load, description of contents, name and signature of the hauler, and name and signature of the contractor's representative. The waste will be off-loaded for treatment or disposal in a manner consistent with current Federal, State, and local regulations. Shipments of hazardous waste will be tracked with the appropriate hazardous waste manifests.

9.4.1 Off-Site Disposal Facilities

If soil is classified as hazardous waste by State and Federal standards, it will be disposed of at a licensed and approved hazardous waste disposal facility.

If soil is classified as non-hazardous waste by State and Federal standards, it will likely be disposed of at a Class II licensed landfill facility such as:

- Waste Management's Altamont Landfill in Livermore, California;
- Republic Services' Vasco Road Landfill in Livermore or Keller Canyon Landfill in Pittsburg, California;
- Waste Connections' Potrero Hills Landfill in Suisun City, California: or
- Republic Services' Forward Landfill in Manteca, California.

9.4.2 Transportation Plan

All transportation activities will be performed in strict compliance with all regulations and ordinances. Hauling contractor(s) used to transport non-hazardous or hazardous waste will be fully licensed and permitted by the State of California. For hazardous waste haulers, the selected transportation company will be certified by the State of California as a hazardous waste hauler, and appropriately permitted to haul contaminated waste material. All Department of Transportation (DOT) and California Highway Patrol (CHP) safety regulations will be strictly followed by both hazardous and non-hazardous waste haulers.

Transportation routes will be developed to minimize transporting the affected soil through residential areas. The affected soil will be transported via surface streets to the closest suitable freeway, which is Interstate 880. The proposed routes for transportation to and on Interstate 880 will be established upon selection of the appropriate landfill(s).

9.5 Wastewater and Groundwater Management Protocols

Wastewater generated during Site redevelopment, such as decontamination liquids, will be temporarily stored on-Site. Decontamination water will be profiled and transported to an appropriate disposal or recycling facility, or will be distributed over contaminated soil (to be exported) for dust control purposes.

If a saturated zone is encountered during earthwork activities that produces accumulated water, the water will be temporarily containerized on-Site.. Holding tanks will be staged on the existing hardscape (i.e. concrete or asphalt) where feasible.

Collected wastewater and groundwater will be transferred into a vacuum truck, pumper truck, totes, 55-gallon steel drums, or other appropriate vessel for off-Site transportation and disposal.

9.6 Spill Response Plan

In the event of a spill, the Contractor will be responsible and prepared to respond in a safe and efficient manner, specific to the particular spill situation. Standards will be set and consistent procedures will be used for handling of spills, whether they are on-Site spills or spills occurring during transportation. Haulers will have an Emergency Spill Contingency Plan (ESCP) to ensure that all drivers and dispatchers know their responsibilities in the unlikely event that an accidental spill occurs while transporting contaminated material off-Site. The drivers and dispatchers will be required to know the procedures for emergency spill response. The ESCP will meet or exceed all Federal, State, and County regulations currently in effect. The provisions of the ESCP will be strictly adhered to, in order to ensure continued protection of the public safety and the environment. The HASP will address the handling of on-Site spills.

10.0 Dust and Odor Emissions

During excavation activities, depending on soil and weather conditions, there is potential to generate airborne dust and fugitive emissions. Standard dust and fugitive emissions control measures will be followed during the ground disturbing activities to comply with OSHA and BAAQMD rules and accomplish the following goals:

- Reduce the potential for health impacts to workers;
- Reduce the potential for health impacts to facility neighbors;
- Prevent violations of ambient air quality standards;
- Minimize nuisance dust complaints from facility neighbors; and
- Minimize the migration of contaminants adhered to fugitive dust particles outside the Site.

10.1 Erosion, Dust, and Odor Control Measures

Once the pre-construction ground surface is stripped from the Site, the exposed soil will become susceptible to erosion by wind and water. Therefore, erosion control measures and dust control measures will be in place before construction begins. Emission (dust) control measures will at a minimum comply with those established by OSHA and the BAAQMD for construction-related activities. Dust control measures will be based on "Best Management Practices" and will be used throughout all phases of construction.

10.1.1 Construction Mitigation Measures

The following basic construction mitigation measures will be implemented in accordance with recommendations for all proposed projects in the BAAQMD California Environmental Quality Act Air Quality Guidelines (BAAQMD, 2017):

- All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) will be watered two times per day;
- All haul trucks transporting soil, sand, or other loose material off-Site will be covered;
- All visible mud or dirt track-out onto adjacent public roads will be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited;
- All vehicle speeds on unpaved roads will be limited to 15 miles per hour (mph);
- All roadways, driveways, and sidewalks to be paved will be completed as soon as possible. Building pads will be laid as soon as possible after grading unless seeding or soil binders are used;
- Idling times will be minimized either by shutting equipment off when not in use or by reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure CCR Title 13, Section 2485). Clear signage will be provided for construction workers at all access points;
- All construction equipment will be maintained and properly tuned in accordance with manufacturer‘s specifications. All equipment will be checked by a certified mechanic and determined to be running in proper condition prior to operation; and
- A publicly visible sign with the telephone number and person to contact at the Lead Agency regarding dust complaints will be posted. This person will respond and take corrective action within 48 hours. The BAAQMD’s phone number will also be visible to ensure compliance with applicable regulations.

Dust level monitoring of air will be conducted to evaluate the potential exposure to Site personnel and to off-Site downwind receptors. The presence of airborne dust will be evaluated through the use of real time personal sampling equipment and perimeter air sampling. If the difference between the upwind and downwind dust monitoring levels exceeds 50 micrograms per cubic meter ($\mu g/m^3$), additional dust control methods (i.e., applying additional water to disturbed areas) will be implemented.

10.1.2 Dust Suppression Measures

If dust is excessive, some or all of the following mitigation procedures may be implemented:

- Active areas adjacent to residences may need to be kept damp at all times.
- Apply water or (non-toxic) soil stabilizers to unpaved access roads, parking areas, and staging areas.
- Sweep (with water sweepers) paved access roads, parking areas, and staging areas.
- Cover or otherwise stabilize exposed soil stockpiles.
- Suspend construction activities that cause visible dust plumes and odors to extend beyond the limits of the Site.

10.1.3 Odor and Vapor Suppression Measures

By controlling the dust as described above, the emission of odor and vapors will be reduced to levels that likely will not pose a risk to the health of the public and Site workers. The water spray used to control dust will also significantly reduce the emissions of any potential volatiles that may be present in the soil. The selective loading and transportation of impacted soils could minimize the use of soil stockpiling, further reducing potential emissions of volatiles. Any active stockpile of contaminated soil or exposed excavation left overnight at the Site will be properly covered with plastic so emissions of volatiles will be minimized.

If odor is excessive and vapor emissions are detected, some or all of the following mitigation procedures may be implemented:

- Use of chemical suppressants mixed with water and applied using various applications such as spray or mist;
- Use of plastic sheeting to cover the sidewalls of open excavations during non-active remedial activities will minimize the migration of VOCs and odors;
- Alternative work sequencing, such that excavation of soil with potential odor during mid- day or afternoon (during hot weather) is avoided;
- Any highly odorous soil could be segregated and placed inside a roll-off bin equipped with a lid. This will minimize the amount of highly odorous soil during loading; and
- Balancing the excavation with transportation so that the need for large stockpiles is reduced.

Other emissions include exhaust from remediation equipment. The equipment proposed for the Site redevelopment will be maintained properly so that exhaust emissions will be within acceptable standards.

10.2 Air Monitoring

To the extent feasible, the presence of airborne contaminants will be evaluated through the use of portable monitoring equipment. Information gathered will be used to ensure the adequacy of the levels of protection being employed at the Site, and may be used as the basis for upgrading or downgrading levels of personal protection, at the discretion of the Site Safety Officer. In addition, this sampling equipment will be utilized to monitor the potential for the migration of contaminants off-Site (i.e. fence line monitoring). Such monitoring will incorporate off-Site receptor type, wind direction, work tasks being performed, etc.

The following air sampling equipment will be utilized for Site monitoring:

- Personal sampling pumps with appropriate sample collection media; and
- Dust monitors.

The above instruments will serve as the primary instruments for personal exposure monitoring. They will be utilized to fully characterize potential employee exposure and the need for equipment upgrades/downgrades.

10.2.1 Integrated Industrial Hygiene Sampling

Integrated Industrial Hygiene (IH) sampling for airborne contaminants and dust will be conducted during the excavation process and/or loading operation. This IH sampling will be performed to properly characterize potential employee exposures and/or to establish baseline levels. Sampling may include personnel monitoring and fence line sampling. The duration of such monitoring will be determined based upon analytical results, regulatory requirements, etc.

10.2.2 Real-Time Air Monitoring During Excavation of Contaminated Soil

Dust monitoring will also be conducted to characterize the potential for exposure to Site personnel during excavation of contaminated soil using a direct-reading dust monitor. Continuous monitoring will also be performed during operations that have not previously been characterized. After initial Site screening, monitoring will be conducted periodically or anytime Site conditions might be altered (i.e. weather, drilling, excavation, spills, etc.).

Results of monitoring information will be recorded, and will include time, date, location operations, and any other conditions that may contribute to potential exposures. Maintenance and calibration information will be maintained and made available upon request. The monitoring equipment will be calibrated in accordance with the manufacturer's specifications, and the records of such maintained with the project HASP.

Real-time air monitoring for respirable dust will be performed during the first three days of excavation of contaminated soil. The objective of the perimeter air-monitoring program is to protect the health and safety of the nearby community and to document the effectiveness of the dust control measures.

The Site Health and Safety Officer will determine the air monitoring locations based on Site operations and the location of areas that could be adversely impacted by air emissions. In general, real-time monitoring will be conducted downwind and around the perimeter of relevant activities. Monitoring locations will be documented on a monitoring log, along with any concentrations detected.

The dust standard will be based on the PM10 ambient air quality standards adopted by BAAQMD, which specifies a ceiling level of no more than 50 micrograms per cubic meter ($\mu g/m^3$) difference between upwind and downwind sampling locations. The ceiling level of 50 $\mu g/m^3$ represents the Bay Area 24-hour time-weighted average standard for 10 micron diameter particulate matter (the PM10 24-hour standard).

The perimeter of the work area will be monitored while excavation of contaminated soil is being conducted. If any readings exceed action levels, work will be stopped, engineering controls will be implemented and the work and monitoring schedule will be adjusted until background level concentrations are achieved.

Real-time dust monitors will be used to measure mass concentrations of airborne dust and provide respirable dust, expressed as concentration of particulates smaller than 10 microns (PM10) correlated measurements. A handheld respirable air monitor (mini-RAM) will be used to provide real-time data on total dust levels as PM10. Real-time worker dust monitoring will be performed continuously during work activities where soil disturbance is anticipated, downwind of active excavations. Measurements of real-time and time-weighted averages (TWA) of airborne particulate concentrations will be recorded using a Monitoring Instruments for the Environment, Inc. (MIE) RAM, model PDR-1000 (miniRAM) or equivalent equipment. The miniRAM measures the concentration of airborne particulate matter using a high sensitivity nephelometer (photometer) using a light scatter sensor. The sensitivity of the miniRAM is reported to range from 0.001 milligrams per cubic meter (mg/m3) to 400 mg/m3. The miniRAM will be calibrated daily in the supplied calibration pouch.

Real-time monitoring will consist of the following activities:

- Determine the predominant wind direction;
- Place one instrument upwind of Site operations for ambient sampling;
- Place one or more instrument(s) downwind of Site operations, at the Site Perimeter;
- Position the instrument probe near the normal breathing zone and monitor for approximately five minutes after instrument readings have stabilized; and

- Record the following observations and readings in real-time:
    - Location;
    - Time;
    - Site activity;
    - Readings;
    - Visual observations of dust;
    - Site conditions, including current weather conditions; and
    - Odors and/or other miscellaneous observations.

11.0 STORM WATER MANAGEMENT

Other environmental controls may be required in the event that anticipated conditions at the Site change. In the event that remediation activities occur during the rainy season, then water management procedures will be implemented in addition to probable modifications of other plans, such as the HASP. The following procedures will be implemented at the Site during the rainy season:

- The weather forecast will be monitored. During the days heavy rain is forecasted, remediation activities may be stopped;

- The boundary of the remediation area will be properly bermed to prevent storm water from entering or leaving the remediation area;

- Storm water entering the remediation area from non-impacted areas and storm water originating within the excavated area will be pumped to settlement tanks and treated prior to discharge under permit;

- The excavation will be conducted in small sections so that the exposed excavated area can be covered immediately if heavy rains occur;

- Procedures will be used to prevent wet soil from sticking to the tires of trucks used to haul soil off Site. These procedures may include plastic sheeting at the loading area, a tire wash at Site egress paths, and/or a stabilized gravel construction entrance; and

- Plastic sheeting will be used extensively to cover the area of excavation during non-working hours.

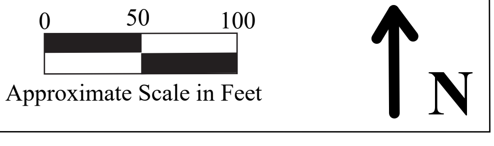
In general, the excavation will be kept as dry as possible in order to minimize the waste generated and the backfilling (as necessary) of the excavation. Storm water best management practices (BMPs) will be followed in accordance with the contractors Storm Water Pollution Prevention Plan (SWPPP) to be prepared for the Site. The BMPs for the Site development activities should include: use of fiber rolls; inlet protection; stabilized construction entrance; landscape and paving; street cleaning and catch basin cleaning.

FIGURES

Figure 1
Site Aerial Photograph
Phoenix Iron Works
800 Pine Street
Oakland, California

Basemap from: Northgate Environmental Management, Inc., Phase II Investigation Report, November 9, 2011, and Google Earth March 2017

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610



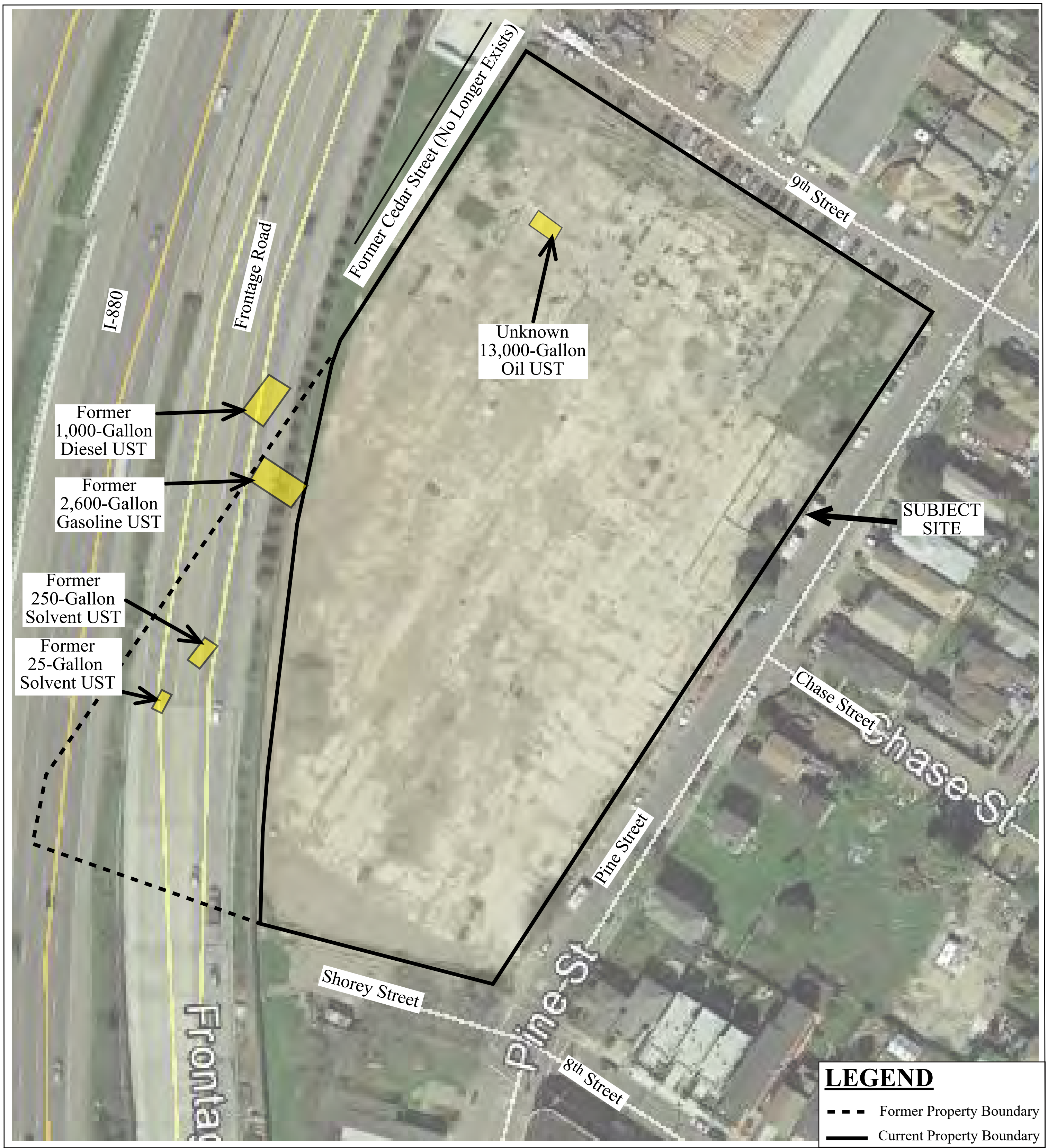


Figure 2
Site Aerial Photograph Showing Former UST Locations
Phoenix Iron Works
800 Pine Street
Oakland, California

Basemap from: Northgate Environmental Management, Inc., Phase II Investigation Report, November 9, 2011, and Google Earth March 2017

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

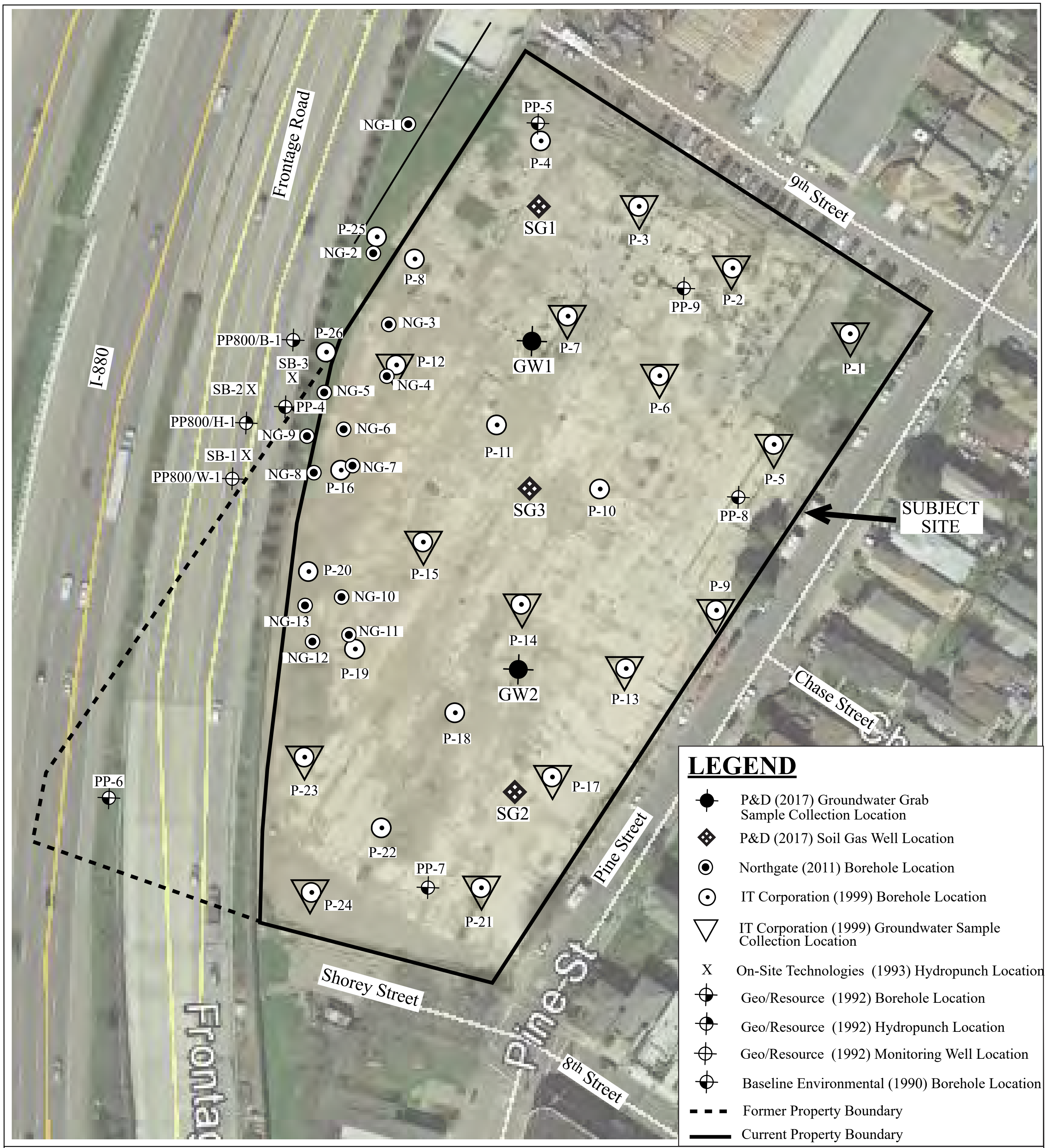


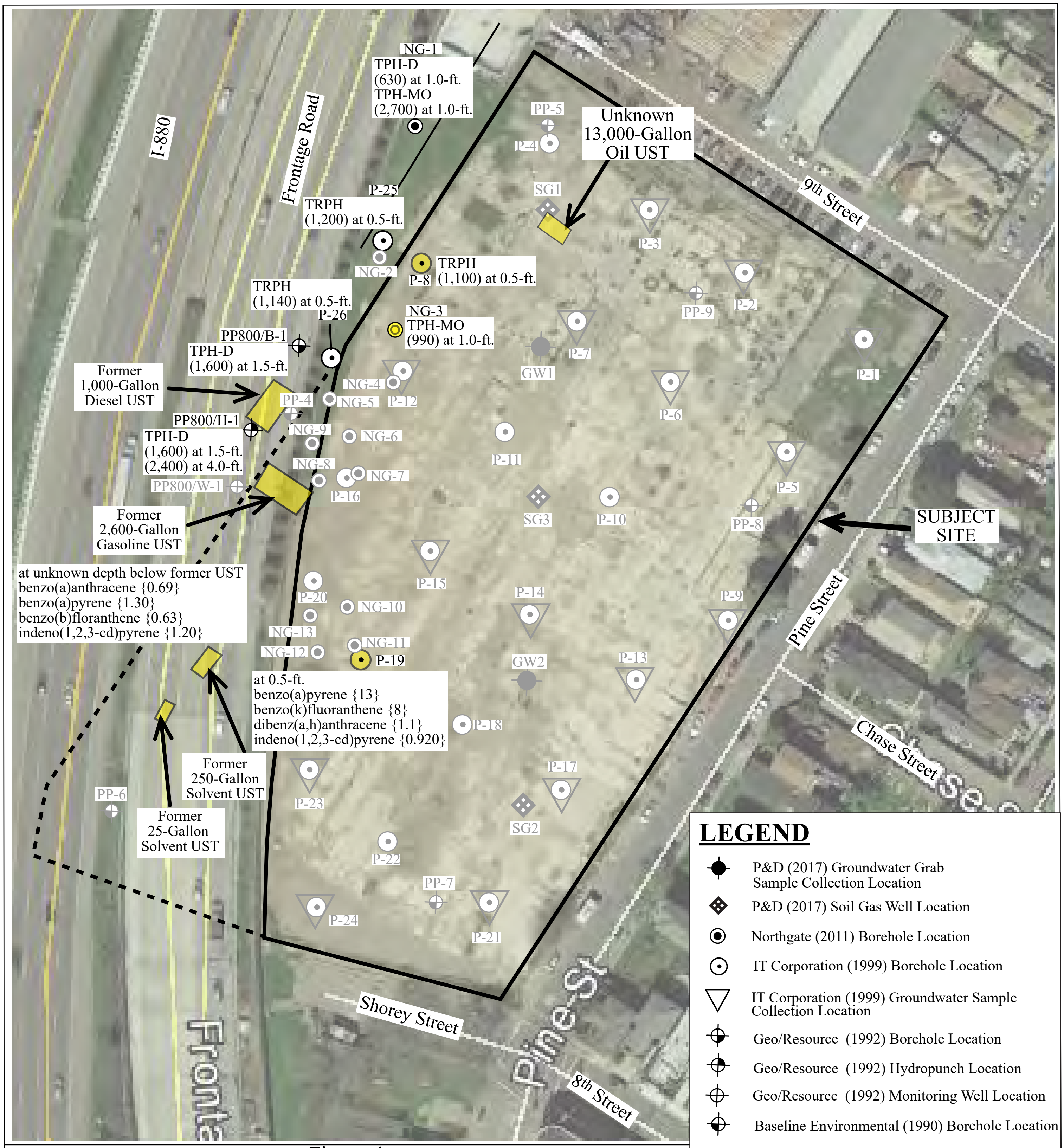
Figure 3
Site Aerial Photograph Showing Historical Sample Collection Locations
Phoenix Iron Works
800 Pine Street
Oakland, California

Basemap from: IT Corporation Site Investigation Report, Volume 1 of 2, March 8, 2000, Northgate Environmental Management, Inc., Phase II Investigation Report, November 9, 2011, and Google Earth March 2017

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 50 100
Approximate Scale in Feet

N



LEGEND

- P&D (2017) Groundwater Grab Sample Collection Location
- P&D (2017) Soil Gas Well Location
- Northgate (2011) Borehole Location
- IT Corporation (1999) Borehole Location
- IT Corporation (1999) Groundwater Sample Collection Location
- Geo/Resource (1992) Borehole Location
- Geo/Resource (1992) Hydropunch Location
- Geo/Resource (1992) Monitoring Well Location
- Baseline Environmental (1990) Borehole Location
- Former Property Boundary
- Current Property Boundary

(1,200) TPH-D/TRPH/TPH-MO Soil Concentration (mg/kg)

{13} PAH Soil Concentration (mg/kg)

Note: Only TPH and PAH Concentrations That Exceed Tier 1 Soil ESL Values Are Shown.

Figure 4
Site Aerial Photograph Showing Historical Petroleum and PAH Concentrations in Soil Exceeding Tier 1 Screening Levels
Phoenix Iron Works
800 Pine Street
Oakland, California

Basemap from: IT Corporation Site Investigation Report, Volume 1 of 2, March 8, 2000, Northgate Environmental Management, Inc., Phase II Investigation Report, November 9, 2011, and Google Earth March 2017

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 50 100
Approximate Scale in Feet

N

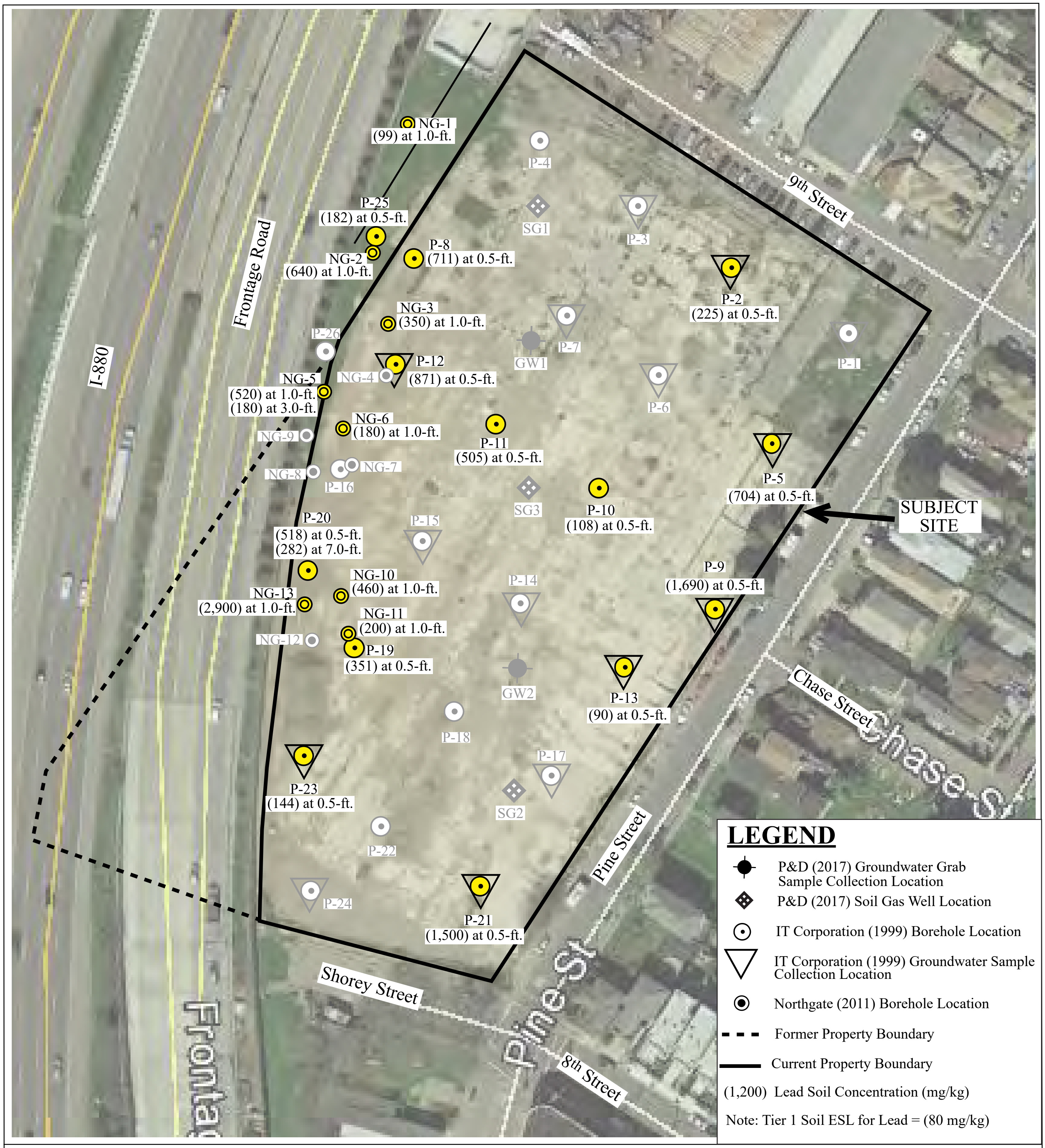


Figure 5
Site Aerial Photograph Showing Historical Lead Concentrations in Soil Exceeding Tier 1 Screening Levels
Phoenix Iron Works
800 Pine Street
Oakland, California

Basemap from: IT Corporation Site Investigation Report, Volume 1 of 2, March 8, 2000, Northgate Environmental Management, Inc., Phase II Investigation Report, November 9, 2011, and Google Earth March 2017

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55 Santa Clara Ave., Suite 240
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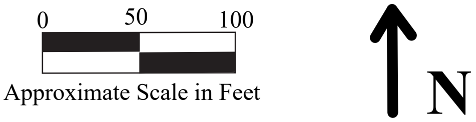


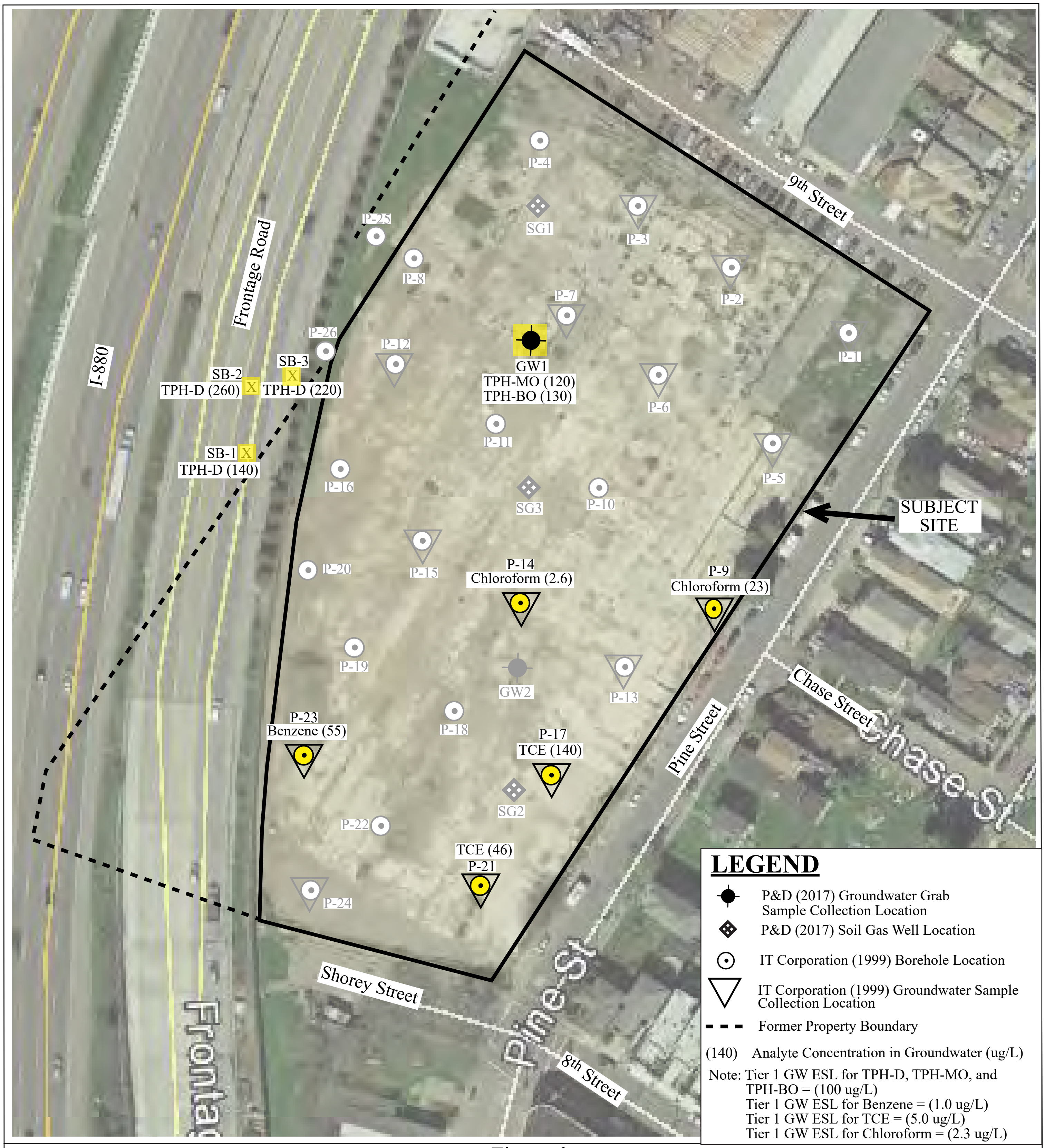


Figure 6
Site Aerial Photograph Showing Historical TPH and
VOC Concentrations in Groundwater Exceeding Tier 1 Screening Levels
Phoenix Iron Works
800 Pine Street
Oakland, California

Basemap from: IT Corporation Site Investigation Report, Volume 1 of 2, March 8, 2000, Northgate Environmental Management, Inc., Phase II Investigation Report, November 9, 2011, and Google Earth March 2017

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

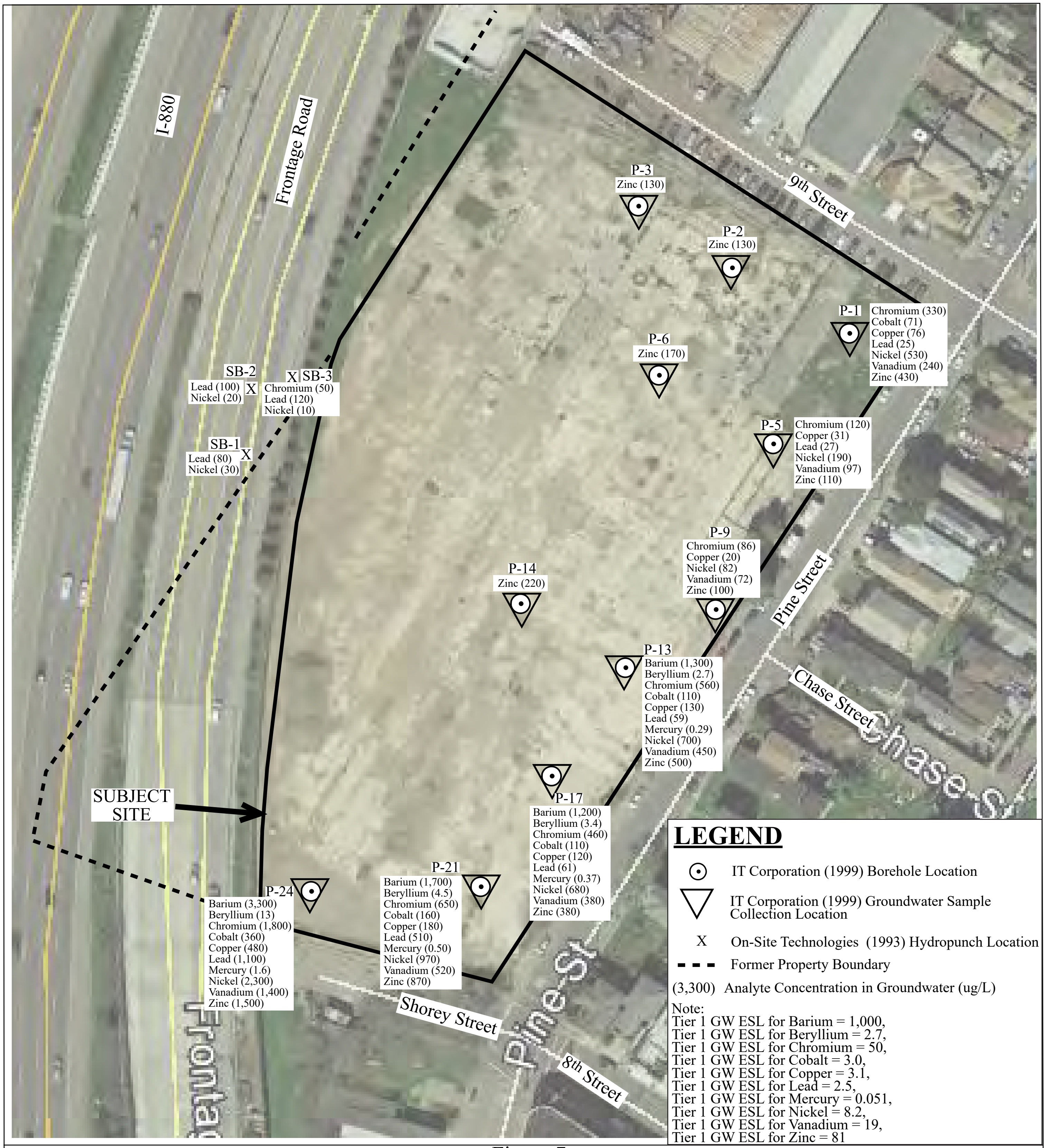
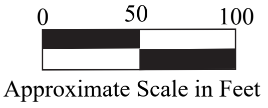
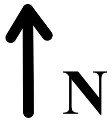


Figure 7
Site Aerial Photograph Showing Historical Metals Concentrations in Groundwater Exceeding
Tier 1 Screening Levels
Phoenix Iron Works
800 Pine Street
Oakland, California

Basemap from: IT Corporation Site Investigation Report, Volume 1 of 2, March 8, 2000, Northgate Environmental Management, Inc., Phase II Investigation Report, November 9, 2011, and Google Earth March 2017

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610





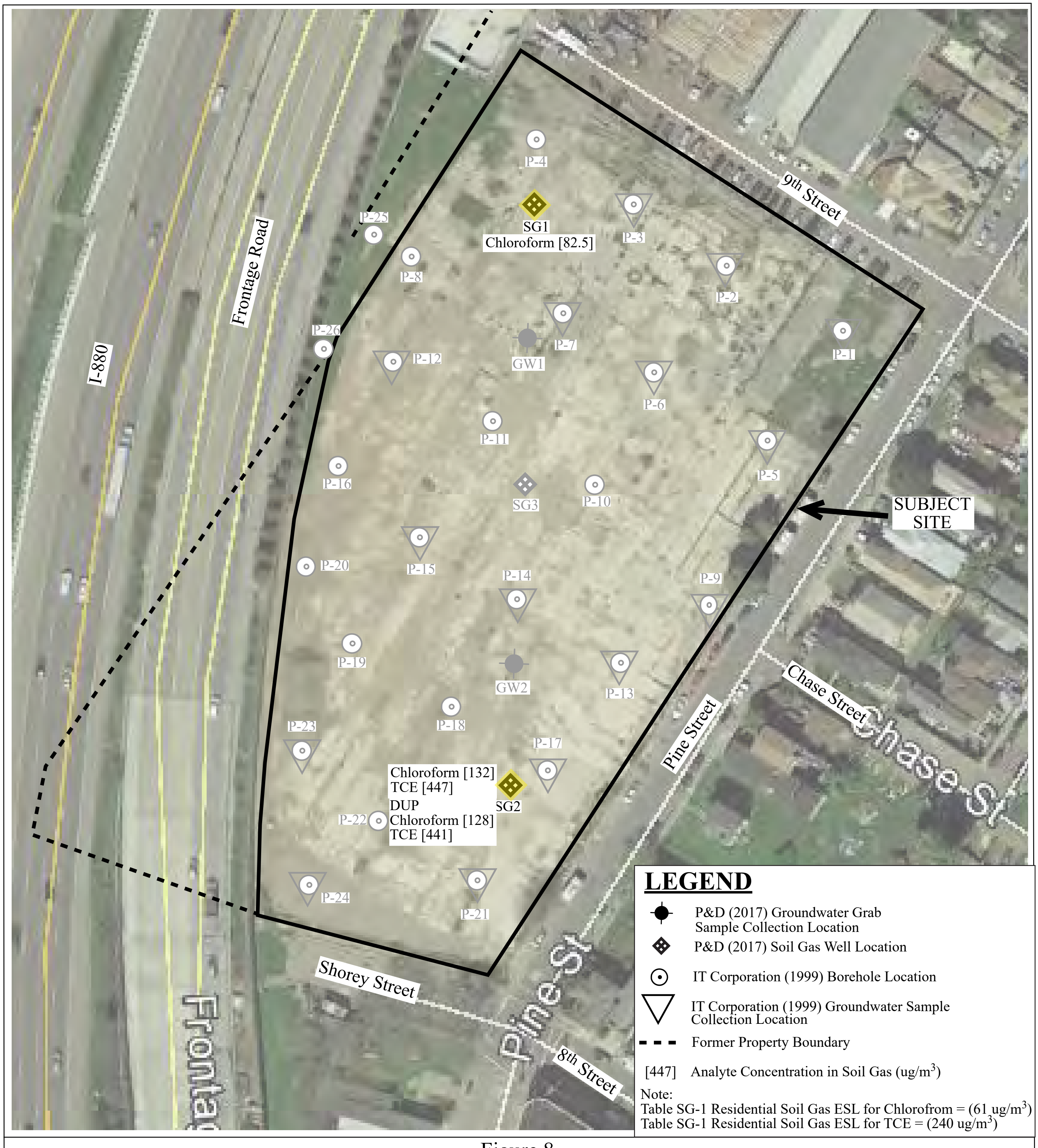


Figure 8

Site Aerial Photograph Showing Historical VOC Concentrations in Soil Gas Exceeding Tier 1 Screening Levels

Phoenix Iron Works

800 Pine Street

Oakland, California

Basemap from: IT Corporation Site Investigation Report, Volume 1 of 2, March 8, 2000, Northgate Environmental Management, Inc., Phase II Investigation Report, November 9, 2011, and Google Earth March 2017

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 50 100
Approximate Scale in Feet

N

APPENDIX A

Agreement and Acknowledgement Statement

APPENDIX A

AGREEMENT AND ACKNOWLEDGMENT STATEMENT
Multifamily Housing
800 Pine Street
Oakland, California

Soil Management Plan Agreement

All project personnel and subcontractors are required to sign the following agreement prior to conducting work at the site.

1. I have read and fully understand the plan and my individual responsibilities.
2. I agree to abide by the provisions of the plan.

Name	Signature
Company	Date
Name	Signature
Company	Date
Name	Signature
Company	Date
Name	Signature
Company	Date

(Add additional sheets if necessary)

APPENDIX B

Historical Site Investigation Sample Results Summary Tables and Figures Showing Sample Collection Locations

- **B1 - Tables 1 Through 3 and Figure 2 from Site Investigation Report - Area 4 Prepared by Geo/Resource Consultants, Inc. Dated August 1992**

- **B2 - Tables 5.3.1.c, 5.1.a, 5.1.c, and 5.1.d, and Figures 5.1 and 5.2.3 from Preliminary Endangerment Assessment - Volume 1 Prepared by On-Site Technologies, Inc. Dated November 1993**

- **B3 - Tables 2 Through 6 and Figures 2 Through 8 from Site Investigation Report Prepared by IT Corporation Dated March 8, 2000**

- **B4 - Table 1 Through 3 and Figures 2 Through 4 from Phase II Soil Investigation Report Prepared by Northgate Environmental Management, Inc. Dated November 9, 2011**

- **B5 - Table 1 Through 2B and Figure 2 from Limited Subsurface Investigation Report Prepared by P&D Environmental, Inc. Dated September 5, 2017**

B1-Tables 1 Through 3 and Figure 2 from Site Investigation Report - Area 4 Prepared by Geo/Resource Consultants, Inc. Dated August 1992 (4 pp)

TABLE 1
AREA 4
DOT - CYPRESS
SUMMARY OF ANALYTICAL RESULTS - SOIL
GENERAL

UNITS EPA No.	TRPH mg/kg 418.1	TPH-G mg/kg 8015m	TPH-D mg/kg 8015m
PHOENIX PROPERTIES, 524			
-Boring			
PP524/B-1-2	7	-	-
PP524/B-1-6	31	-	-
PP524/B-2-6	6	-	-
PP524/B-2-15	10	-	-
PP524/B-3-1.5	8	-	-
PP524/B-3-6	14	-	-
PP524/B-4-1.5	210(10)	-	-
PP524/B-4-6	1,200(150)	-	-
PP524/B-5-1.5	250	-	-
PP524/B-5-6	31	-	-
PHOENIX PROPERTIES, 800			
-Boring			
PP800/B-1-1.5	-	-	1,600
PP800/B-1-4	-	-	ND
PP800/B-1-7.5	-	-	ND
-Hydropunch			
PP800/H-1-1.5	-	10	1,600
PP800/H-1-4	-	17	2,400
PP800/H-1-7.5	-	ND	ND
-Well			
PP800/W-1-1.5	-	ND(25)	ND
PP800/W-1-6	-	ND	ND
PP800/W-1-8	-	ND	ND
Detection Limit	5.0	5.0	5

NOTES: ND = Not Detected at Detection Limit on Laboratory Data Sheets
- = Not analyzed
( ) = Detection Limit
TRPH = Total Recoverable Petroleum Hydrocarbons
TPH-G = Total Petroleum Hydrocarbons as Gasoline
TPH-D = Total Petroleum Hydrocarbons as Diesel
Laboratory Analyses performed by CKY

TABLE 2
AREA 4

DOT - CYPRESS
SUMMARY OF ANALYTICAL RESULTS - SOIL
METALS

UNITS EPD No.	ANTIMONY mg/kg 6010	ARSENIC mg/kg 6010	BARIUM mg/kg 6010	BERYLLIUM mg/kg 6010	CADMIUM mg/kg 6010	CHROMIUM TOTAL mg/kg 6010	COBALT mg/kg 6010	COPPER mg/kg 6010	LEAD mg/kg 6010	MERCURY mg/kg 6010	MOLYBDENUM mg/kg 6010	NICKEL mg/kg 6010	SELENIUM mg/kg 6010	SILVER mg/kg 6010	THALLIUM mg/kg 6010	VANADIUM mg/kg 6010	ZINC mg/kg 6010
PHOENIX PROPERTIES, 524 -Boring																	
PP524/B-1-2	ND	ND	30	ND	2	27	3.3	5.7	9.5	ND	ND	14	ND	ND	ND	21	15
PP524/B-1-6	5.6	21	67	0.81	5.2	57	2.9	8.4	N25	0.09	ND	27	ND	ND	ND	47	21
PP524/B-2-1.5	6.5	ND	47	ND	2.1	28	4.5	8.5	13	ND	ND	15	ND	ND	ND	21	17
PP524/B-2-6	ND	12	68	0.64	4	44	7.4	14	17	ND	ND	40	ND	ND	ND	35	29
PP524/B-3-1.5	6	ND	51	0.51	2.8	29	4.9	11	18	ND	ND	18	ND	ND	ND	23	23
PP524/B-3-6	6.1	10	73	0.65	4.8	52	5.4	11	18	ND	0.70	42	ND	ND	16	41	31
PP524/B-4-1.5	7.9	19	160	0.55	9.7	120	7.3	120	1,100**	0.24	2.8	30	ND	ND	ND	32	500
PP524/B-4-6	55	22	970	0.55	30	150	11	250*	3,500**	0.66	5.6	57	ND	ND	ND	37	2,300
WET	-	-	-	-	-	-	-	1.3(0.01)mg/l	-	-	-	-	-	-	-	-	-
PP524/B-5-1.5	12	15	540	0.55	12	75	9	130	23,000**	1	1.7	40	ND	ND	ND	29	1,400
PP524/B-5-6	6	12	51	0.55	4.3	36	5.9	9.3	20	ND	ND	33	ND	ND	13	29	26
PHOENIX PROPERTIES, 766 -Boring																	
PP766/B-1-1	8.4	35	280	0.56	12	39	10	89	3,600**	0.33	1.1	30	ND	ND	ND	26	500
PP766/B-1-3	ND	ND	47	0.51	2.6	29	5.1	6.5	11	ND	0.80	18	ND	ND	ND	22	18
PP766/B-2-1	ND	ND	50	ND	2.5	30	4.9	6.4	12	ND	ND	15	ND	ND	16	22	16
PP766/B-2-3	5.8	ND	50	0.50	2.4	29	5.4	7	11	ND	ND	19	ND	ND	ND	21	17
PP766/B-3-1	5.3	10	150	0.5	2.6	29	5.5	24	160*	0.18	0.60	21	ND	ND	ND	23	160
WET	-	-	-	-	-	-	-	-	8(0.10)mg/l	-	-	-	-	-	-	-	-
PP766/B-3-3	ND	ND	46	ND	2.4	27	4.5	6.8	10	ND	ND	18	ND	ND	ND	22	16
PP766/B-4-1	ND	10	170	0.50	2.8	30	5.5	23	170*	0.28	0.80	19	ND	ND	ND	22	110
WET	-	-	-	-	-	-	-	-	13(0.10)mg/l	-	-	-	-	-	-	-	-
PP766/B-4-3	5.1	ND	45	ND	2.8	27	5.3	9.5	9	0.07	ND	16	ND	ND	11	22	18
PP766/B-5-1	ND	ND	200	0.55	4.9	28	5.1	30	390*	0.58	1.2	19	ND	ND	ND	27	170
WET	-	-	-	-	-	-	-	-	31(0.10)mg/l	-	-	-	-	-	-	-	-
PP766/B-5-3	ND	ND	72	ND	2.9	27	4.6	18	110*	0.07	0.60	17	ND	ND	ND	24	67
PP766/B-6-1	ND	ND	41	ND	2.3	28	4.9	9.9	24	0.07	0.50	16	ND	ND	11	22	25
PP766/B-6-3	ND	ND	57	ND	1.8	27	4	8.1	15	ND	0.70	17	ND	ND	10	21	20
TTLC(mg/kg)	500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
STLC(mg/L)	15	5.0	100	0.75	1.0	560	80	25	5.0	0.2	350	20	1.0	5	7.0	24	250
Detection Limit	**5.0**	**10**	**2.5**	**0.50**	**0.50**	**0.50**	**1.0**	**0.50**	**5.0**	**0.05**	**0.50**	**2.5**	**10**	**0.50**	**10**	**1.0**	**0.50**

NOTES:
ND = Not Detected at Detection Limit on Laboratory Data Sheets
( ) = Detection Limit
- = Not Analyzed
TTLC = Total Threshold Lomit Concentration (mg/kg)
STLC = Soluble Threshold Limit Concentration (mg/l)
* = Concentration values 10x greater than STLC values, according to CCR Title 22
** = Concentration values greater than TTLC values, according to CCR Title 22
Laboratory Analyses performed by CKY

TABLE 3

AREA 4

DOT - CYPRESS

SUMMARY OF ANALYTICAL RESULTS - GROUNDWATER

	EPA No.	PP800/H-1	PP800/W-1	DETECTION LIMIT
TPH-G (mg/L)	**8015m**	ND	ND(1.0)	0.1
TPH-D (mg/L)	**8015m**	ND	ND	1.0

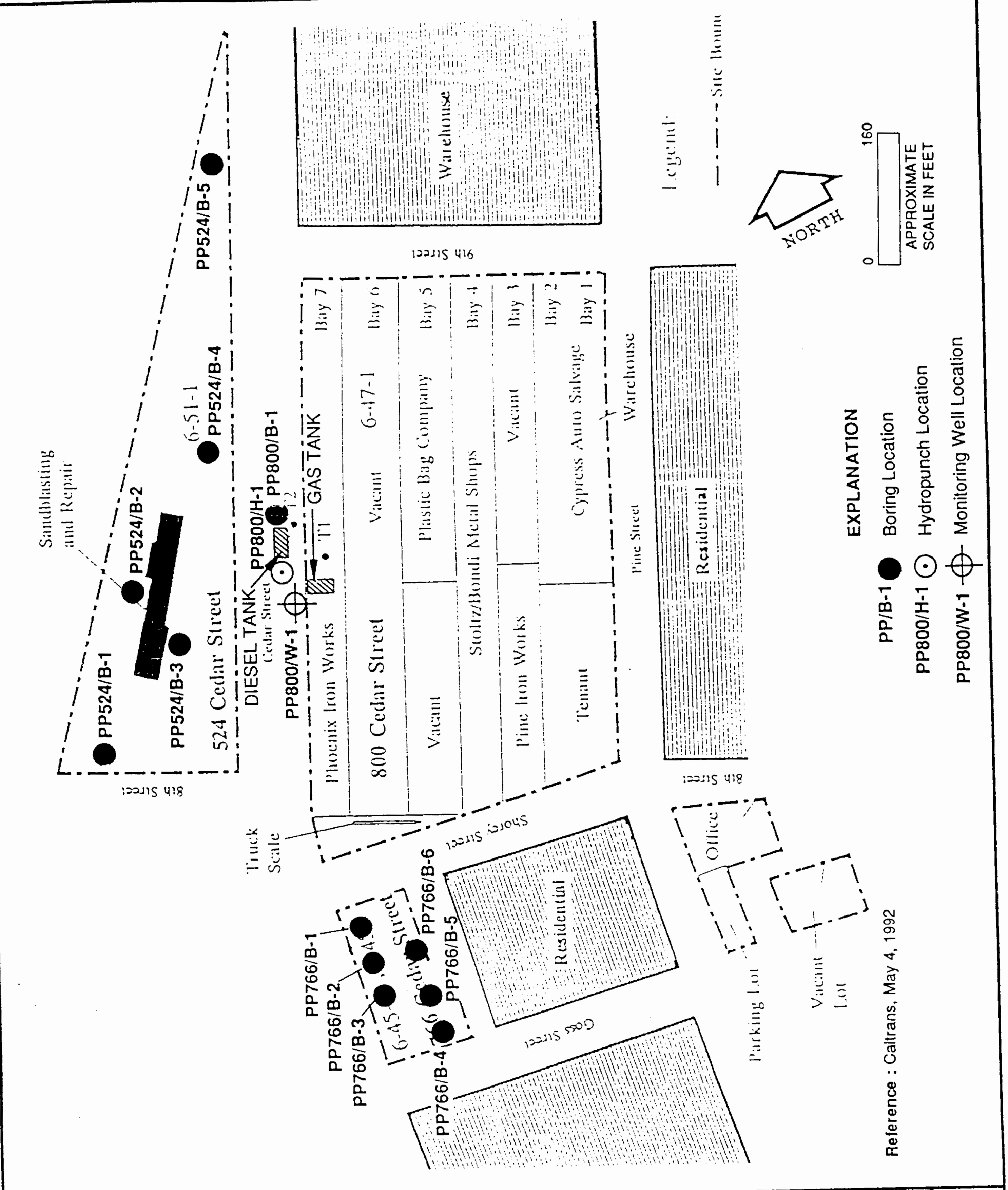
NOTES: ND = Not Detected at Detection Limit on Laboratory Data Sheets

- = Not analyzed

TPH-G = Total Petroleum Hydrocarbons as Gasoline

TPH-D = Total Petroleum Hydrocarbons as Diesel

Laboratory Analyses performed by CKY



Geo/ Resource Consultants, Inc.

GEOLOGISTS / ENGINEERS / ENVIRONMENTAL SCIENTISTS
505 BEACH STREET, SAN FRANCISCO, CALIFORNIA 94133

Job No. 1689-019-00 Appr. _______ Date 7/20/92

SITE PLAN - AREA 4
PHOENIX PROPERTIES - PARCEL No.17
D.O.T. - INTERSTATE 880
CYPRESS STRUCTURE RECONSTRUCTION
OAKLAND, CALIFORNIA

FIGURE
2

B2-Tables 5.1.a, 5.1.b, 5.1.c, 5.1.d, 5.3.1.c, and 5.3.1.d, and Figures 5.1 and 5.2.3 from Preliminary Endangerment Assessment - Volume 1 Prepared by On-Site Technologies, Inc. Dated November 1993 (8 pp)

TABLE 5.1.a

Preliminary Endangerment Assessment

Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

Soil Analytical Results - Organics
Baseline Environmental Consultant's - First Phase Site Investigation

Boring	Sample Depth	TPH-D	TPH-G	Benzene	Toluene	EthylBenzene	Total Xylenes
	(FBGS)	(mg/kg)	(mg/kg)	(μg/kg)	(μg/kg)	(μg/kg)	(μg/kg)
PP-4	4.5-5.0	ND	ND	ND	ND	ND	ND
PP-5	5.0-5.5	ND	ND	ND	ND	ND	ND
PP-6	5.0-5.5	ND	ND	ND	ND	ND	ND
PP-7	5.5-6.0	ND	ND	ND	ND	ND	ND
PP-9	4.5-5.0	ND	ND	ND	ND	ND	ND
REPORTING LIMIT		2.5	5.0	5.0	5.0	5.0	5.0

(FBGS)	Feet below ground surface
TPH-D	Total petroleum hydrocarbons as diesel
TPH-G	Total petroleum hydrocarbons as gasoline
mg/kg	milligrams/kilogram
μg/kg	micrograms/kilogram
ND	Not detected in excess of Reporting Limit

TABLE 5.1.b

Preliminary Endangerment Assessment
Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

Soil Analytical Results - Metals
Baseline Environmental Consultant's - First Phase Site Investigation

Boring	PP-5 2.0-2.5 FT	PP-6 2.0-2.5 FT	PP-7 2.0-2.5 FT	PP-8 2.0-2.5 FT	PP-9 1.5-2.0 FT	Report Limit
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/k
Analyte						
Antimony	1	1	ND	1	2	1
Arsenic	4	4	3	5	ND	3
Barium	47	59	46	45	49	4
Beryllium	0.2	0.3	0.2	0.2	0.2	0.1
Cadmium	ND	0.2	ND	ND	0.2	0.2
Total Chromium	30	34	28	31	31	6
Cobalt	3.8	4.8	4.0	3.7	4.4	0.5
Copper	6	10	6	7	7	1
Lead	14	52 (2.26)	10	13	13	3
Mercury	ND	ND	ND	ND	ND	0.2
Molybdenum	0.7	0.8	0.7	0.7	0.8	0.5
Nickel	18	19	15	14	18	2
Selenium	3	2	ND	3	4	2
Silver	ND	ND	ND	ND	ND	0.5
Thallium	8	8	7	8	3	2
Vanadium	19	21	17	21	20	4
Zinc	18	56	15	19	19	2

mg/kg	milligrams/kilogram
ND	Not detected in excess of Reporting Limit
(2.26)	Soluble concentration in mg/l

TABLE 5.1.c

Preliminary Endangerment Assessment

Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

Soil Analytical Results - 601/8010 & 8270
Baseline Environmental Consultant's - First Phase Site Investigation

Boring	Sample Depth	EPA 601/8010	EPA 8270
	(FBGS)	(ug/kg)	(mg/kg)
PP-5	5.0-5.5	ND	ND
PP-6	5.0-5.5	ND	ND
PP-7	5.5-6.0	ND	ND
PP-8	4.5-5.0	ND	ND
PP-9	4.5-5.0	ND	ND
REPORTING LIMIT		5.0	0.5

(FBGS)	Feet below ground surface
mg/kg	milligrams/kilogram
ug/kg	micrograms/kilogram
ND	Not detected in excess of Reporting Limit

TABLE 5.1.d

Preliminary Endangerment Assessment
Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

Soil and Ground Water Analytical Results - Organics
Geo/Resource Consultant's - First Phase Site Investigation

Boring	Sample Depth	TRPH	TPH-G	TPH-D
	(FBGS)	(mg/kg)	(mg/kg)	(mg/kg)
PP800/B-1	1.5	NA	NA	ND
	4.0	NA	ND	ND
	7.5	NA	ND	ND
PP800/H-1	1.5	NA	10	1,600
	4.0	NA	17	2,400
	7.5	NA	ND	ND
PP800/W-1	1.5	NA	ND	ND
	6.0	NA	ND	ND
	8.0	NA	ND	ND
PP800/W-1 (Ground Water Sample)			ND	ND
REPORTING LIMITS		5.0 (1.0)	5.0 (1.0)	5.0

(FBGS)	Feet below ground surface
TRPH	Total recoverable petroleum hydrocarbons
TPH-G	Total petroleum hydrocarbons as gasoline
TPH-D	Total petroleum hydrocarbons as diesel
mg/kg	milligrams/kilogram
NA	Not analyzed
ND	Not detected in excess of Reporting Limit
(1.0)	Reporting limit for ground water analyses

TABLE 5.3.1.c

Preliminary Endangerment Assessment

Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

Soil Analytical Results - Metals/Organics

ANALYTE		Cd	Cr	Pb	Ni	Zn	TPH-G	TPH-D	VOC	SV
CONCENTRATION		mg/kg							µg/kg	mg/
DETECTION LIMIT	**SAMPLE DEPTH**	0.05	0.50	0.50	0.50	0.50	1.0	1.0	VARIOUS	VARIO
SAMPLE ID										
SB1A	3.0	ND	24	2.7	18	14	ND	ND	ND	ND
SBIB	5.5							ND		
SBIC	7.0							ND		
SB1D	9.0							ND	ND	
SBIE	11.0							ND		
SB2A	3.5	ND	21	2.5	18	13	ND	ND	ND	ND
SB2B	5.5							ND		
SB2C	7.5							ND		
SB2D	9.5							ND	ND	
SB3A	3.0	ND	21	6.3	16	16	ND	ND	ND	ND
SB3B	5.5							ND		
SB3C	7.0							ND		
SB3D	9.5							ND	ND	

Cd	Cadmium
Cr	Total chromium
Pb	Lead
Ni	Nickel
Zn	Zinc
TPH-D	Total petroleum hydrocarbons as diesel
TPH-G	Total petroleum hydrocarbons as gasoline
mg/kg	Milligrams per kilogram
ND	Not detected in excess of detection limit
VOC	Volatile organic compounds
SVO	Semivolatile organic compounds

TABLE 5.3.1.d

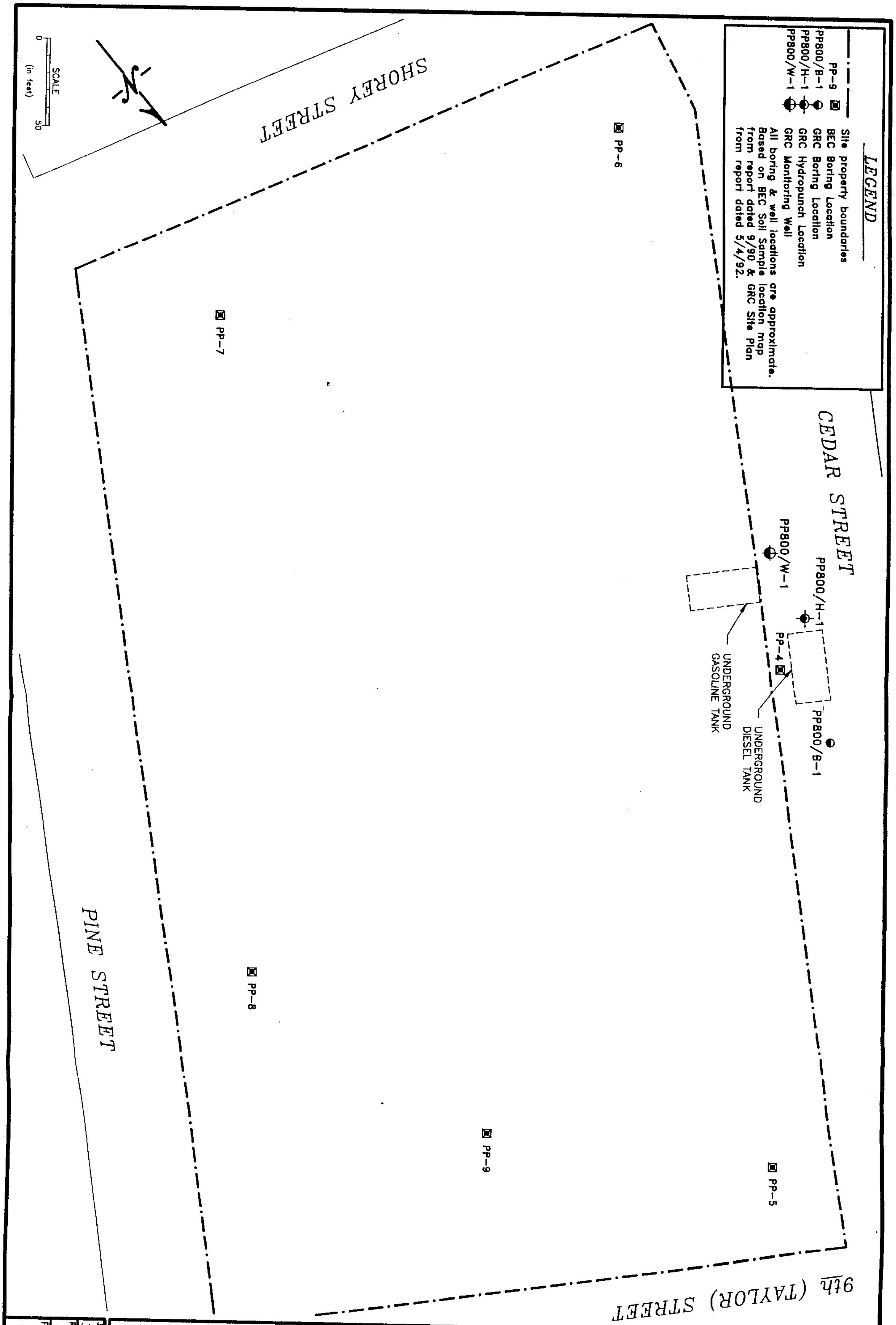
Preliminary Endangerment Assessment

Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

Ground Water Analytical Results - Metals/Organics

ANALYTE	**Cd**	**Cr**	**Pb**	**Ni**	**Zn**	**TPH-D**	**VOC**	**SVO**
CONCENTRATION	mg/l	mg/l	mg/l	mg/l	mg/l	μg/l	μg/l	mg/l
DETECTION LIMIT	0.001	0.01	0.01	0.02	0.005	50	VARIOUS	VARIOUS
SAMPLE ID								
HPSB1	ND	0.04	0.08	0.03	0.04	140	ND	ND
HPSB2	ND	0.04	0.10	0.02	0.02	260	ND	ND
HPSB3	ND	0.05	0.12	0.01	0.02	220	ND	ND

Cd	Cadmium
Cr	Total chromium
Pb	Lead
Ni	Nickel
Zn	Zinc
TPH-D	Total petroleum hydrocarbons as diesel
mg/l	Milligrams per kilogram
μg/l	micrograms per kilogram
ND	Not detected in excess of detection limit
VOC	Volatile organic compounds
SVO	Semivolatile organic compounds



Job No. 357-7.1
Rev. Date 4/93
Figure 5.1

Soil Boring, HydroPunch & Monitoring Well Locations by BEC & GRC
PHOENIX 800 PROPERTY (APN 6-47-1)
800 CEDAR STREET, OAKLAND, CALIFORNIA

OST ON-SITE TECHNOLOGIES

Drawn by: S.B.CAPP
Drawn on: 2/3/93
Cad file 357-7-5

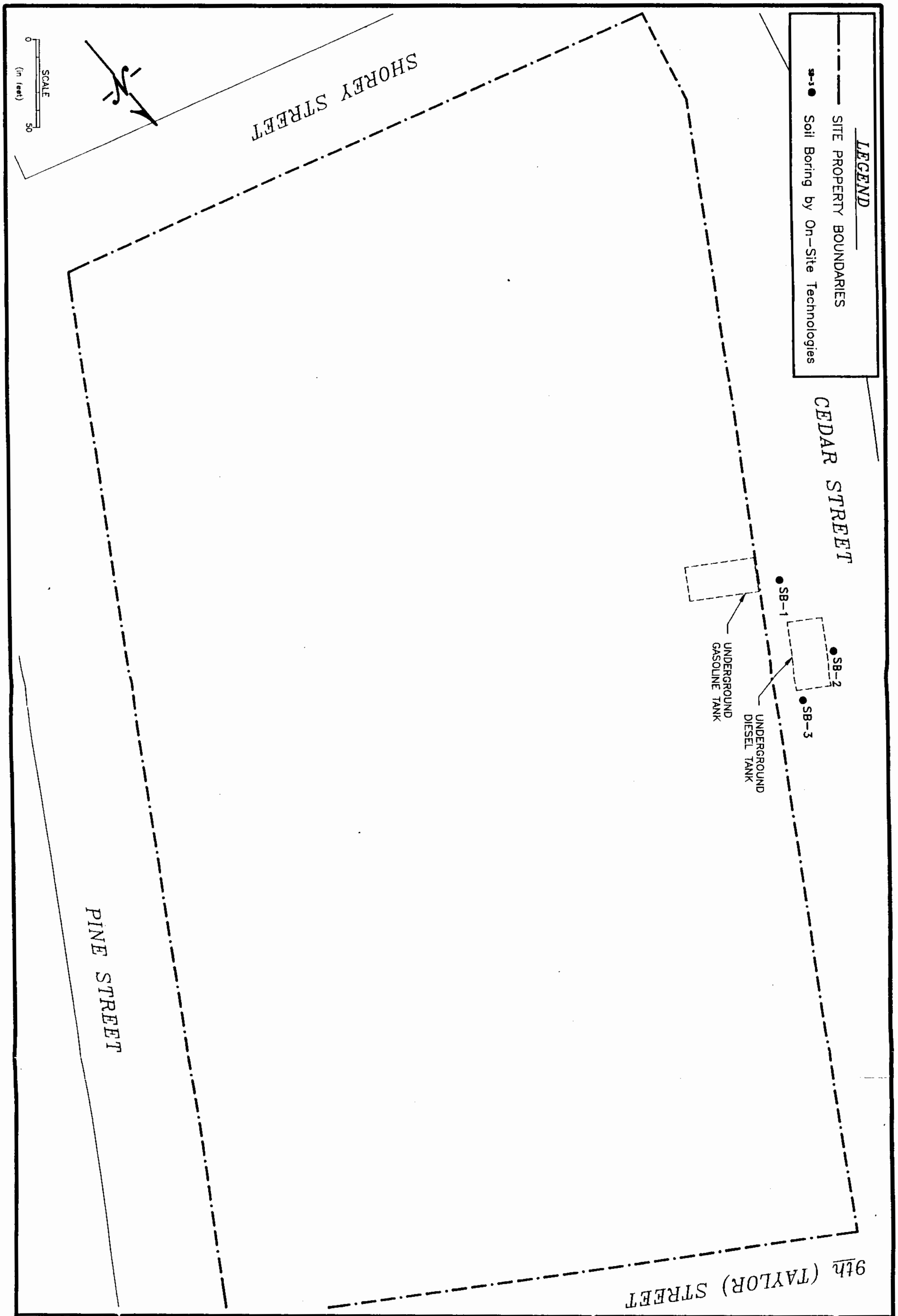


Figure	Rev. Date	Job No.
5.2.3	4/93	357-7.1

Soil Boring Locations by O.S.T.
PHOENIX 800 PROPERTY (APN 6-47-1)
800 CEDAR STREET, OAKLAND, CALIFORNIA

ON-SITE TECHNOLOGIES

Drawn by:	Drawn on:	Cad File
F.B.CAPP	2/3/93	357-7-5

B3-Tables 2 Through 6 and Figures 2 Through 8 from Site Investigation Report - Area 4 Prepared by IT Corporation Dated March 8, 2000 (14 pp)

TABLE 2

ORGANIC RESULTS - SOIL

Caltrans - Phoenix Iron Works (Phoenix 800) Investigation

Boring Number	Sample Depth (m)	Sample Depth (ft)	DHS-LUFT TPHg	DHS-LUFT TPHd	1664 TRPH	8260 VOCs	8270 SVOCs
P-1	0.15	0.5	ND	ND	100	ND	ND
	0.9	3	ND	ND	60	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	120	ND	ND
P-2	0.15	0.5	ND	ND	ND	ND	ND
	0.9	3	ND	ND	ND	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	ND	ND
P-3	0.15	0.5	ND	ND	ND	ND	ND
	0.9	3	ND	ND	ND	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	ND	ND
P-4	0.15	0.5	ND	ND	ND	trichloroethene - 0.012	ND
	0.9	3	ND	ND	ND	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	trichloroethene - 0.0068	ND
P-5	0.15	0.5	ND	ND	ND	ND	ND
	0.9	3	ND	ND	140	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	120	ND	ND
P-6	0.9	3	ND	ND	ND	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	ND	ND
P-7	0.15	0.5	ND	ND	ND	ND	ND
	0.9	3	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	ND	ND
P-8	0.15	0.5	ND	ND	1,100	ND	ND
	0.9	3	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	ND	ND
P-9	0.15	0.5	ND	ND	ND	ND	ND
	0.9	3	ND	ND	60	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	ND	ND
P-10	0.15	0.5	ND	ND	180	tetrachloroethene - 0.010	ND
	0.9	3	ND	ND	80	ND	ND
	2.1	7	ND	ND	120	ND	ND
	3.1	10	ND	ND	240	ND	ND
P-11	0.15	0.5	ND	ND	160	ND	ND
	0.9	3	ND	ND	60	ND	ND
	3.1	10	ND	ND	80	ND	ND
P-12	0.15	0.5	ND	ND	ND	trichloroethene - 0.026	ND
	0.9	3	ND	ND	ND	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	ND	ND
P-13	0.15	0.5	ND	ND	60	tetrachloroethene - 0.015	ND
	0.9	3	ND	ND	80	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	60	ND	ND
P-14	0.15	0.5	ND	ND	ND	ND	ND
	0.9	3	ND	ND	ND	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	ND	ND
P-15	0.15	0.5	ND	ND	ND	ND	ND
	0.9	3	ND	ND	ND	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	ND	ND

TABLE 2

ORGANIC RESULTS - SOIL

Caltrans - Phoenix Iron Works (Phoenix 800) Investigation

Boring Number	Sample Depth (m)	Sample Depth (ft)	DHS-LUFT TPHg	DHS-LUFT TPHd	1664 TRPH	8260 VOCs	8270 SVOCs
P-16	0.15	0.5	ND	ND	100	ND	anthracene - 0.780 benzo(a)anthracene - 0.340 benzo(b)fluoranthene - 0.520 benzo(k)fluoranthene - 0.520 benzo(g,h,I)perylene - 0.430 benzo(a)pyrene - 0.500 chrysene - 0.440 fluoranthene - 0.910 pyrene - 0.960
	0.9	3	ND	ND	120	ND	ND
	2.1	7	ND	ND	ND	ND	ND
P-17	0.15	0.5	ND	ND	180	ND	ND
	0.9	3	ND	ND	ND	ND	ND
	2.1	7	ND	ND	60	trichloroethene - 0.015	ND
	3.1	10	ND	ND	ND	trichloroethene - 0.028	ND
P-18	0.15	0.5	ND	ND	ND	ND	ND
	0.9	3	ND	ND	320	ND	ND
	2.1	7	ND	ND	ND	ND	ND
P-19	0.15	0.5	ND	ND	80	ND	benzo(k)fluoranthene - 8 benzo(g,h,I)perylene - 2 benzo(a)pyrene - 13 di-n-octyl phthalate - 1.4 dibenz(a,h)anthracene - 1.1 indeno(1,2,3-cd)pyrene - 0.920
	0.9	3	ND	ND	100	ND	ND
	2.1	7	ND	ND	100	ND	ND
	3.1	10	ND	ND	60	ND	ND
P-20	0.15	0.5	ND	ND	140	ND	ND
	0.9	3	ND	ND	80	ND	ND
	2.1	7	ND	ND	120	ND	ND
	3.1	10	ND	ND	160	ND	ND
P-21	0.15	0.5	ND	ND	260	trichloroethene - 0.023	ND
	0.9	3	ND	ND	ND	ND	ND
	2.1	7	ND	ND	ND	trichloroethene - 0.0042	ND
	3.1	10	ND	ND	ND	trichloroethene - 0.0057	ND
P-22	0.15	0.5	ND	ND	80	ND	ND
	0.9	3	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	ND	ND
P-23	0.15	0.5	ND	ND	ND	ND	ND
	0.9	3	ND	ND	100	ND	ND
	3.1	10	ND	ND	100	ND	ND
P-24	0.9	3	ND	ND	ND	styrene - 0.0037	ND
	2.1	7	ND	ND	60	ND	ND
	3.1	10	ND	ND	ND	ND	ND
P-25	0.15	0.5	ND	ND	1,200	ND	ND
	0.9	3	ND	ND	ND	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	ND	ND
P-26	0.15	0.5	ND	ND	1,140	ND	ND
	0.9	3	ND	ND	ND	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	ND	ND
Reporting Limits			1.0	1.0	50	0.002 to 0.0071	0.33 to 1.6

Notes:

1. Analyses conducted in general accordance with the U.S. Environmental Protection Agency Method listed. DHS-LUFT = Department of Health Services Leaking Underground Tank Manual method.
2. Sample depths reported in approximate meters (m) / feet (ft) below the ground surface.
3. Concentrations reported in milligrams per kilogram.
4. ND = not detected in concentrations exceeding the listed reporting limit.
5. VOCs = volatile organic compounds. SVOCs = semivolatile organic compounds. TPHg = total petroleum hydrocarbons as gasoline. TPHd = total petroleum hydrocarbons as diesel. TRPH = total recoverable petroleum hydrocarbons.
6. Soil samples labeled as follows: boring no.-depth-sample tube no. with 1 being from the bottom. Ex.: P1-0.5': boring P-1, 0.5-foot depth.

TABLE 3

INORGANIC RESULTS - SOIL

Caltrans - Phoenix Iron Works (Phoenix 800) Investigation

Boring Number	Sample Depth (m)	Sample Depth (ft)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
P-1	0.15	0.5	ND	ND	78	ND	ND	28	4.2	17	13	ND	ND	20	ND	ND	ND	21	40
	0.9	3	ND	ND	46	ND	ND	32	ND	16	3.2	ND	ND	23	ND	ND	ND	25	27
	2.1	7	ND	ND	115	ND	ND	60	5.8	35	2.6	0.028	ND	53	ND	ND	ND	38	43
	3.1	10	ND	ND	97	ND	ND	55	9.2	103	2.9	ND	ND	63	ND	ND	ND	38	78
P-2	0.15	0.5	ND	ND	88	ND	ND	34	ND	19	**225**	0.450	ND	22	ND	ND	ND	23	79
	0.9	3	ND	ND	56	ND	ND	30	ND	12	1.5	0.011	ND	21	ND	ND	ND	22	21
	2.1	7	ND	ND	67	ND	ND	53	6.1	13	1.8	ND	ND	46	ND	ND	ND	28	29
	3.1	10	ND	ND	84	ND	1.1	45	8.6	16	2.4	0.014	ND	54	ND	ND	ND	33	34
P-3	0.15	0.5	ND	ND	80	0.46	ND	27	ND	24	5.9	0.021	ND	16	ND	ND	ND	21	29
	0.9	3	ND	ND	46	ND	ND	33	ND	12	2.0	0.011	ND	20	ND	ND	ND	26	21
	2.1	7	ND	ND	67	ND	ND	43	5.1	15	1.9	ND	ND	38	ND	ND	ND	28	27
	3.1	10	ND	ND	78	0.32	ND	46	8.2	12	2.8	ND	ND	66	ND	ND	ND	34	35
P-4	0.15	0.5	ND	ND	61	ND	ND	31	ND	18	2.3	0.014	ND	18	ND	ND	ND	20	27
	0.9	3	ND	ND	51	ND	ND	35	ND	13	1.7	ND	ND	22	ND	ND	ND	23	21
	2.1	7	ND	ND	72	ND	ND	46	6.7	12	2.2	0.013	ND	45	ND	ND	ND	28	27
	3.1	10	ND	ND	84	ND	ND	81	ND	18	2.2	ND	ND	54	ND	ND	ND	34	34
P-5	0.15	0.5	ND	ND	380	0.43	1.4	34	7.7	65	**704**	0.566	ND	33	ND	ND	ND	33	831
	0.9	3	ND	ND	53	ND	ND	32	ND	20	3.5	ND	ND	23	ND	ND	ND	25	24
	2.1	7	ND	ND	44	ND	ND	36	5.8	15	1.6	0.022	ND	32	ND	ND	ND	25	23
	3.1	10	ND	ND	64	ND	ND	38	6.1	25	2.2	ND	ND	41	ND	ND	ND	26	32
P-6	0.9	3	ND	ND	36	ND	ND	32	ND	12	1.8	0.012	ND	24	ND	ND	ND	22	462
	2.1	7	ND	ND	61	ND	ND	44	7.6	12	2.5	ND	ND	54	ND	ND	ND	32	33
	3.1	10	ND	ND	64	ND	ND	52	7.1	16	2.3	ND	ND	55	ND	ND	ND	ND	36
P-7	0.15	0.5	ND	ND	108	ND	ND	37	5.9	40	6.2	0.018	ND	28	ND	ND	ND	28	49
	0.9	3	ND	ND	46	ND	ND	32	ND	12	2.7	0.011	ND	20	ND	ND	ND	23	20
	3.1	10	ND	ND	66	ND	ND	48	6.6	14	1.9	0.011	ND	53	ND	ND	ND	28	34
P-8	0.15	0.5	ND	ND	172	ND	ND	31	5.7	38	**711**	0.24	ND	30	ND	ND	ND	22	194
	0.9	3	ND	ND	57	ND	ND	39	ND	7.1	2.5	ND	ND	21	ND	ND	ND	25	57
	3.1	10	ND	ND	57	ND	ND	34	6.0	8.3	1.8	ND	ND	42	ND	ND	ND	26	24
P-9	0.15	0.5	ND	ND	236	0.41	ND	29	5.5	161	***1,690***	1.1	ND	19	ND	ND	ND	27	254
	0.9	3	ND	ND	46	ND	ND	27	ND	15	1.9	ND	ND	19	ND	ND	ND	21	23
	2.1	7	ND	ND	69	0.32	ND	38	7.0	31	3.0	0.023	ND	48	ND	ND	ND	35	35
	3.1	10	ND	ND	67	ND	ND	37	6.8	43	2.0	ND	ND	46	ND	ND	ND	26	42
P-10	0.15	0.5	ND	ND	108	ND	ND	27	ND	17	108	0.263	ND	20	ND	ND	ND	23	100
	0.9	3	ND	ND	42	ND	ND	27	ND	5.5	8.5	ND	ND	19	ND	ND	ND	21	14
	2.1	7	ND	ND	79	ND	ND	36	7.0	9.8	2.0	ND	ND	47	ND	ND	ND	29	26
	3.1	10	ND	ND	71	ND	ND	39	6.0	9.9	1.5	ND	ND	45	ND	ND	ND	26	25
P-11	0.15	0.5	ND	ND	207	ND	0.91	27	5.6	36	**505**	0.665	ND	28	ND	ND	ND	21	510
	0.9	3	ND	ND	56	ND	ND	30	ND	5.4	1.2	ND	ND	22	ND	ND	ND	22	17
	3.1	10	ND	ND	68	ND	ND	39	5.8	8.4	1.4	ND	ND	48	ND	ND	ND	27	24
P-12	0.15	0.5	ND	ND	334	ND	0.95	25	5.0	33	**871**	0.17	ND	23	ND	ND	ND	23	822
	0.9	3	ND	ND	46	ND	ND	27	ND	5.2	1.7	ND	ND	18	ND	ND	ND	21	16
	2.1	7	ND	ND	54	ND	ND	33	6.7	11	2.0	ND	ND	38	ND	ND	ND	26	25
	3.1	10	ND	ND	72	ND	ND	28	6.4	8.3	2.4	ND	ND	43	ND	ND	ND	26	23
P-13	0.15	0.5	ND	ND	204	ND	ND	ND	ND	31	**90**	0.090	ND	17	ND	ND	ND	19	65
	0.9	3	ND	ND	51	ND	ND	32	ND	32	2.0	ND	ND	17	ND	ND	ND	20	31
	2.1	7	ND	ND	97	0.37	ND	60	9.7	69	2.9	ND	ND	60	ND	ND	ND	40	58
	3.1	10	ND	ND	67	ND	ND	67	6.1	28	1.9	0.012	ND	46	ND	ND	ND	28	34
P-14	0.15	0.5	ND	ND	66	ND	ND	38	ND	21	9.9	0.035	ND	21	ND	ND	ND	23	48
	0.9	3	ND	ND	36	ND	ND	33	ND	13	2.9	0.012	ND	19	ND	ND	ND	22	24
	2.1	7	ND	ND	72	ND	ND	47	7.6	11	2.3	ND	ND	54	ND	ND	ND	32	33
	3.1	10	ND	ND	74	ND	ND	50	8.2	29	3.3	ND	ND	61	ND	ND	ND	34	46
P-15	0.15	0.5	ND	ND	134	ND	ND	26	ND	11	27	0.088	ND	19	ND	ND	ND	20	38
	0.9	3	ND	ND	54	ND	ND	30	ND	7.9	1.5	ND	ND	22	ND	ND	ND	24	20
	2.1	7	ND	ND	27	ND	ND	27	ND	5.1	1.2	0.017	ND	19	ND	ND	ND	18	14
	3.1	10	ND	ND	58	ND	ND	30	5.1	6.8	1.6	ND	ND	36	ND	ND	ND	20	21

TABLE 3

INORGANIC RESULTS - SOIL

Caltrans - Phoenix Iron Works (Phoenix 800) Investigation

Boring Number	Sample Depth (m)	Sample Depth (ft)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
P-16	0.15	0.5	ND	ND	107	ND	ND	28	ND	32	**53**	0.078	ND	21	ND	ND	ND	22	43
	0.9	3	ND	ND	51	ND	ND	30	ND	4.8	1.0	ND	ND	18	ND	ND	ND	20	27
	2.1	7	ND	ND	59	ND	ND	32	5.5	7.3	1.4	ND	ND	38	ND	ND	ND	24	23
P-17	0.15	0.5	ND	ND	74	ND	ND	35	ND	16	2.1	0.034	ND	19	ND	ND	ND	21	38
	0.9	3	ND	ND	44	ND	ND	32	ND	13	1.6	ND	ND	20	ND	ND	ND	23	22
	2.1	7	ND	ND	85	ND	ND	47	7.3	28	2.6	0.032	ND	55	ND	ND	ND	33	39
	3.1	10	ND	ND	80	ND	ND	53	7.5	28	2.0	0.10	ND	54	ND	ND	ND	30	47
P-18	0.15	0.5	ND	ND	56	ND	ND	21	ND	6.6	11	ND	ND	16	ND	ND	ND	18	48
	0.9	3	ND	ND	51	ND	ND	27	ND	5.6	1.7	ND	ND	18	ND	ND	ND	23	18
	2.1	7	ND	ND	77	0.39	ND	44	ND	11	2.1	ND	ND	41	ND	ND	ND	34	29
P-19	0.15	0.5	ND	ND	158	ND	ND	21	ND	29	**351**	0.24	ND	16	ND	ND	ND	20	203
	0.9	3	ND	ND	50	ND	ND	26	ND	8.6	1.7	0.024	ND	18	ND	ND	ND	24	20
	2.1	7	ND	ND	59	0.30	ND	35	6.2	7.5	2.1	ND	ND	36	ND	ND	ND	27	26
	3.1	10	ND	ND	58	ND	ND	31	6.3	20	3.5	ND	ND	39	ND	ND	ND	28	42
P-20	0.15	0.5	ND	ND	238	ND	ND	25	6.0	44	**518**	0.28	ND	32	ND	ND	ND	24	274
	0.9	3	ND	ND	54	ND	ND	35	5.1	8.2	2.4	ND	ND	22	ND	ND	ND	28	23
	2.1	7	ND	ND	168	0.44	ND	37	7.8	52	**282**	0.16	ND	31	ND	ND	ND	36	168
	3.1	10	ND	ND	77	0.30	ND	31	6.0	7.5	2.2	ND	ND	38	ND	ND	ND	27	28
P-21	0.15	0.5	ND	ND	313	ND	4.2	23	6.0	75	***1,500***	0.20	ND	28	ND	ND	ND	20	1,690
	0.9	3	ND	ND	55	ND	ND	30	7.2	15	6.8	0.011	ND	23	ND	ND	ND	23	22
	2.1	7	ND	ND	91	0.42	ND	57	12	54	3.8	ND	ND	64	ND	ND	ND	44	54
	3.1	10	ND	ND	64	ND	ND	38	6.0	11	2.1	ND	ND	42	ND	ND	ND	26	26
P-22	0.15	0.5	ND	ND	60	ND	ND	25	ND	5.3	1.6	0.017	ND	17	ND	ND	ND	20	29
	0.9	3	ND	ND	29	ND	ND	25	ND	5.6	1.4	ND	ND	16	ND	ND	ND	20	15
	3.1	10	ND	ND	47	ND	ND	33	ND	6.0	1.4	ND	ND	33	ND	ND	ND	20	22
P-23	0.15	0.5	ND	ND	154	ND	ND	30	ND	15	**144**	0.20	ND	20	ND	ND	ND	23	61
	0.9	3	ND	ND	47	ND	ND	22	ND	4.8	1.4	ND	ND	18	ND	ND	ND	21	15
	3.1	10	ND	ND	59	ND	ND	30	ND	6.7	1.5	ND	ND	35	ND	ND	ND	22	22
P-24	0.9	3	ND	ND	54	ND	ND	38	5.6	46	10	0.15	ND	27	ND	ND	ND	25	41
	2.1	7	ND	ND	28	ND	ND	33	ND	12	1.1	0.14	ND	22	ND	ND	ND	18	26
	3.1	10	ND	ND	82	ND	ND	46	10	43	5.5	ND	ND	54	ND	ND	ND	31	62
P-25	0.15	0.5	ND	ND	123	ND	ND	42	7.4	76	**182**	0.216	ND	40	ND	ND	ND	35	196
	0.9	3	ND	ND	47	ND	ND	29	ND	7.3	ND	ND	ND	18	ND	ND	ND	20	18
	2.1	7	ND	ND	56	ND	ND	37	6.0	28	2.0	0.010	ND	42	ND	ND	ND	25	34
	3.1	10	ND	ND	69	ND	ND	48	6.8	29	1.8	ND	ND	57	ND	ND	ND	30	44
P-26	0.15	0.5	ND	ND	289	ND	ND	28	5.9	39	70	0.073	ND	29	ND	ND	ND	36	81
	0.9	3	ND	ND	92	ND	ND	24	ND	11	19	0.092	ND	16	ND	ND	ND	20	50
	2.1	7	ND	ND	86	ND	ND	44	5.7	16	2.2	0.043	ND	43	ND	ND	ND	28	34
	3.1	10	ND	ND	83	0.32	ND	49	5.5	10	2.4	ND	ND	52	ND	ND	ND	35	30
TTLC			500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
10X STLC			150	50	1,000	7.5	10	5,600	800	250	50	2	3,500	200	10	50	70	240	2,500
PRG			67	19	12,000	1.8	24	170,000	22	5,000	840	45	830	400	830	830	27	1,200	50,000
Reporting Limit			6.0	10	2.0	0.30	0.50	1.0	5.0	2.0	1.0	0.010	5.0	4.0	10	1.0	10	5.0	1.5

Notes:

1. Metals analyses conducted in general accordance with U.S. Environmental Protection Agency (EPA) Methods 6010 and 7471.
2. Sample depths reported in approximate meters (m) / feet (ft) below the ground surface.
3. Concentrations reported in milligrams per kilogram.
4. ND = not detected in concentrations exceeding the listed reporting limit.
5. Soil samples labeled as follows: boring no.-depth. Ex.: P1-0.5': boring P-1, 0.5-foot depth.
6. TTLC = Total Threshold Limit Concentration.
7. 10X STLC = 10 times the Soluble Threshold Limit Concentration. Values listed in milligrams per liter.
8. PRG = preliminary remediation goal established for the Cypress area of investigation by the Office of Scientific Affairs. PRG for chromium is for trivalent chromium.
9. Bold results equal or exceed 10X STLC values. Bold and italics results equal or exceed the TTLC. Underlined results equal or exceed the PRG.

TABLE 4

SOLUBLE METAL RESULTS - SOIL

Caltrans - Phoenix Iron Works (Phoenix 800) Investigation

Boring	Sample Depth			Lead	
Number	meters	feet	Total	WET	TCLP
P-2	0.15	0.5	225	**11**	**17**
P-5	0.15	0.5	704		0.42
P-8	0.15	0.5	711		**60**
P-9	0.15	0.5	**1,690**		1.2
P-10	0.15	0.5	108	**14**	
P-11	0.15	0.5	505		0.57
P-12	0.15	0.5	871		0.12
P-13	0.15	0.5	90	**6.2**	
P-16	0.15	0.5	53	0.26	
P-19	0.15	0.5	351	**33**	0.066
P-20	0.15	0.5	518		0.16
	2.1	7	282	0.077	0.063
P-21	0.15	0.5	**1,500**		3.1
P-23	0.15	0.5	144	**10**	
P-25	0.15	0.5	182	**35**	
P-26	0.15	0.5	70	**10**	
TTLC			1,000		
STLC				5.0	
TCLP					5.0
Reporting Limit			1.0	0.050	0.050

Notes:

1. TTLC = total threshold limit concentration. STLC = soluble threshold limit concentration. WET = waste extraction test. TCLP = toxicity characteristic leaching procedure.
2. Sample depths reported in approximate meters (m) / feet (ft) below the ground surface.
3. WET conducted in general accordance with California Title 22 procedures. TCLP extraction and metal analyses conducted in general accordance with U.S. Environmental Protection Agency methods.
4. Total metal results reported in milligrams per kilogram. WET and TCLP results reported in milligrams per liter.
5. ND = not detected in concentrations exceeding the listed reporting limit.
6. Soil samples labeled as follows: boring no.-depth. Ex.: P1-0.3 - boring P-1, 0.3-meter depth.
7. Bold values exceed the TTLC, STLC, or TCLP.

TABLE 5

ORGANIC RESULTS - WATER

Caltrans - Phoenix Iron Works (Phoenix 800) Investigation

Boring Number	Sample Type	DHS-LUFT TPHg	DHS-LUFT TPHd	1664 TRPH	8260 VOCs	8270 SVOCs
P-1	GW	ND	ND	ND	ND	ND
P-2	GW	ND	ND	ND	styrene - 0.0028	ND
P-3	GW	ND	ND	ND	ND	ND
P-5	GW	ND	ND	ND	ND	ND
P-6	GW	ND	ND	ND	ND	ND
P-7	GW	ND	ND	ND	ND	ND
P-9	GW	ND	ND	ND	chloroform - 0.023	ND
P-12	GW	ND	ND	ND	ND	ND
P-13	GW	ND	ND	ND	2-hexanone - 0.370	ND
P-14	GW	ND	ND	ND	vinyl acetate - 0.0055 chloroform - 0.0026	ND
P-15	GW	ND	ND	ND	ND	ND
P-17	GW	ND	ND	ND	carbon disulfide - 0.0037 trichloroethene - 0.140	ND
P-21	GW	ND	ND	ND	trichloroethene - 0.046	ND
P-23	GW	ND	ND	ND	carbon disulfide - 0.0022 benzene - 0.055 toluene - 0.0055	ND
P-24	GW	ND	ND	ND	carbon disulfide - 0.0070 trichloroethene - 0.0023	ND
P-10	ER	ND	ND	ND	ND	ND
Reporting Limits		0.05	0.05	5.0	0.002 to 0.0071	0.01 to 0.05

Notes:

1. Analyses conducted in general accordance with the U.S. Environmental Protection Agency Method listed. DHS-LUFT = Department of Health Services Leaking Underground Tank Manual method.
2. Sample types: GW = groundwater grab sample. ER = equipment rinse sample.
3. Concentrations reported in milligrams per liter (mg/l).
4. ND = not detected in concentrations exceeding the listed reporting limit.
5. VOCs = volatile organic compounds. SVOCs = semivolatile organic compounds.
   TPHg = total petroleum hydrocarbons as gasoline. TPHd = total petroleum hydrocarbons as diesel.
   TRPH = total recoverable petroleum hydrocarbons.
6. Groundwater samples labeled as follows: boring no.-GW. Ex.: P-1-GW for the groundwater sample collected from boring P-1.

TABLE 6

INORGANIC RESULTS - WATER

Caltrans - Phoenix Iron Works (Phoenix 800) Investigation

Boring Number	Sample Type	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	TDS
P-1	GW	ND	ND	0.92	ND	ND	**0.33**	0.071	0.076	**0.025**	ND	ND	**0.53**	ND	ND	ND	0.24	0.43	**809**
P-2	GW	ND	ND	0.16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13	393
P-3	GW	ND	ND	0.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13	**961**
P-5	GW	ND	ND	0.35	ND	ND	**0.12**	ND	0.031	**0.027**	ND	ND	**0.19**	ND	ND	ND	0.097	0.11	**926**
P-6	GW	ND	ND	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.17	**531**
P-7	GW	ND	ND	0.030	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.049	**898**
P-9	GW	ND	ND	0.28	ND	ND	**0.086**	ND	0.020	ND	ND	ND	0.082	ND	ND	ND	0.072	0.10	287
P-12	GW	ND	ND	0.098	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**749**
P-13	GW	ND	ND	**1.3**	**0.0042**	ND	**0.56**	0.11	0.13	**0.059**	0.00029	ND	**0.70**	ND	ND	ND	0.45	0.50	320
P-14	GW	ND	ND	0.20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.22	470
P-15	GW	ND	ND	0.16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.028	**744**
P-17	GW	ND	ND	**1.2**	0.0034	ND	**0.46**	0.11	0.12	**0.061**	0.00037	ND	**0.68**	ND	ND	ND	0.38	0.38	**609**
P-21	GW	ND	ND	**1.7**	**0.0045**	ND	**0.65**	0.16	0.18	**0.51**	0.00050	ND	**0.97**	ND	ND	ND	0.52	0.87	**979**
P-23	GW	ND	ND	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.016	**735**
P-24	GW	ND	ND	**3.3**	**0.013**	ND	**1.8**	0.36	0.48	**1.1**	0.0016	ND	**2.3**	ND	ND	ND	1.4	1.5	**1,312**
P-10	ER	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Drinking Water Standards	CA MCL	0.006	0.05	1	0.004	0.005	0.05		1.3	0.015	0.002		0.1	0.05		0.002			
	CA 2 MCL								1						0.1			5	500
	US MCL	0.006	0.05	2	0.004	0.005	0.1		1.3	0.015	0.002		0.1	0.05		0.002			
	US 2 MCL								1						0.1			5	500
Reporting Limits		0.060	0.10	0.020	0.0030	0.0050	0.010	0.050	0.020	0.010	0.00020	0.050	0.040	0.10	0.010	0.10	0.050	0.015	10

Notes:

1. Metals analyses conducted in general accordance with U.S. Environmental Protection Agency (EPA) Methods 6010 and 7471. TDS analysis conducted in general accordance with EPA Method 160.1.
2. Sample type: GW = groundwater grab sample. ER = equipment rinse sample.
3. Concentrations reported in milligrams per liter.
4. TDS = total dissolved solids.
5. Bold results exceed drinking water standard levels.
6. ND = not detected in concentrations exceeding the listed reporting limit.
7. Groundwater samples labeled as follows: boring no.-GW. Ex.: P-1-GW for the groundwater sample collected from boring P-1.
8. CA MCL = California primary maximum contaminant level (MCL). CA 2 MCL = California secondary MCL. US MCL = U.S. primary MCL. US 2 MCL = U.S. secondary MCL.

DRAWING NUMBER 776768-2R

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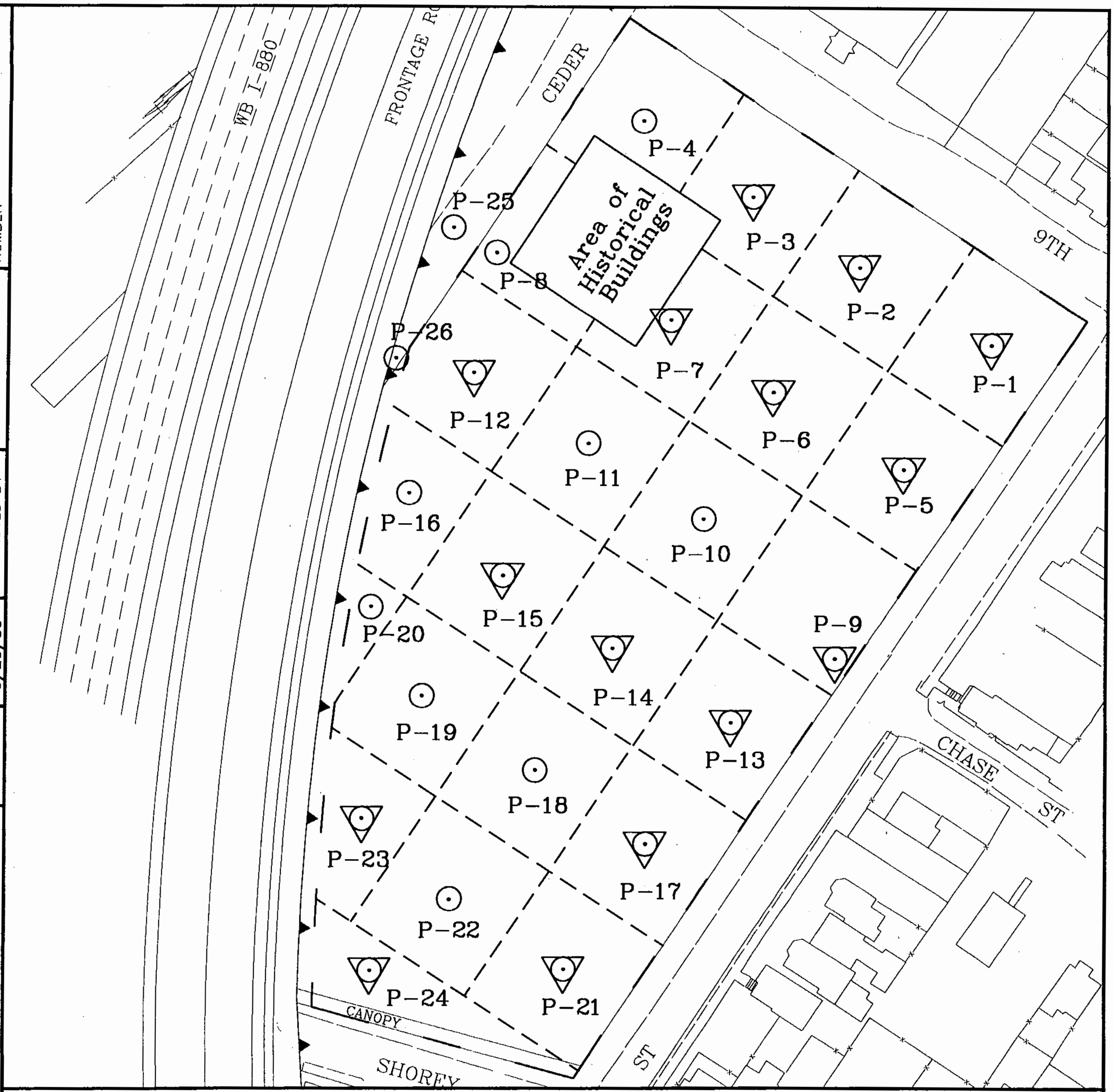

LEGEND

⊙ P-2 BORING LOCATION AND DESIGNATION

▽ GROUNDWATER SAMPLE LOCATION

Notes:

1. All locations and dimensions are approximate.
2. Base map provided by Caltrans.

APPROXIMATE SCALE

0 30 61 METERS
0 100 200 FEET

FIGURE 2

SOIL AND GROUNDWATER SAMPLE LOCATIONS

PHOENIX IRON WORKS
OAKLAND, CALIFORNIA

IT CORPORATION
A Member of the IT Group

PHXFIG2R.DWG

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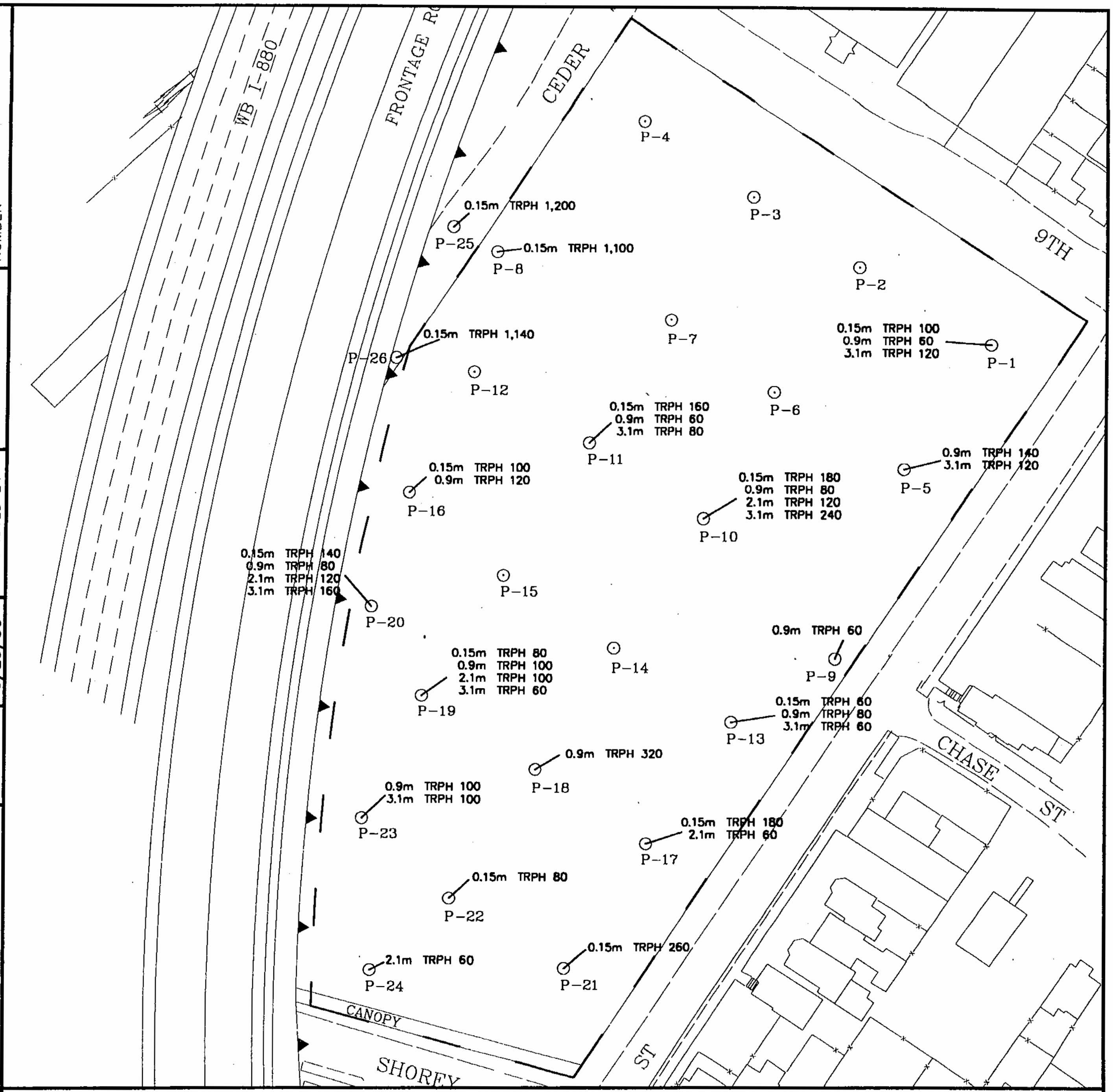

LEGEND

⊙ P-2 BORING LOCATION AND DESIGNATION

0.15m TRPH 180 SAMPLE DEPTH (meters) AND TOTAL RECOVERABLE PETROLEUM HYDROCARBON CONCENTRATION (milligrams per kilogram)

Notes:
1. All locations and dimensions are approximate.
2. Base map provided by Caltrans.

APPROXIMATE SCALE
0 30 61 METERS
0 100 200 FEET

N

FIGURE 3

PETROLEUM HYDROCARBON DETECTIONS IN SOIL

PHOENIX IRON WORKS
OAKLAND, CALIFORNIA

IT CORPORATION
A Member of the IT Group

PHXFIG3R.DWG/HYDROCARBONS

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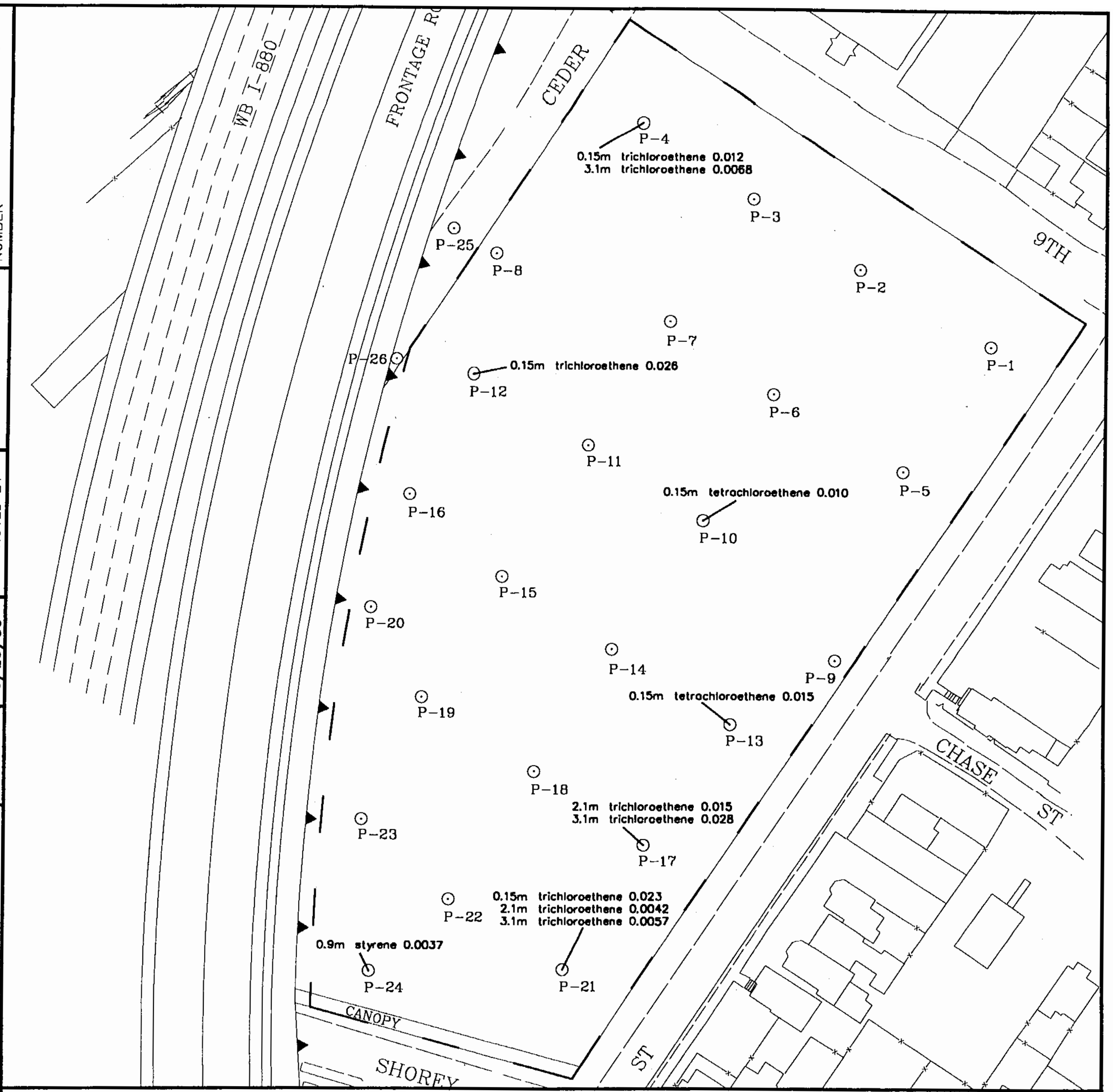

LEGEND

⊙ P-2 BORING LOCATION AND DESIGNATION

0.15m trichloroethene 0.012 SAMPLE DEPTH (meters) AND VOLATILE ORGANIC COMPOUND CONCENTRATION (milligrams per kilogram)

Notes:
1. All locations and dimensions are approximate.
2. Base map provided by Caltrans.

APPROXIMATE SCALE
0 30 61 METERS
0 100 200 FEET

N

FIGURE 4

VOLATILE ORGANIC COMPOUND DETECTIONS IN SOIL

PHOENIX IRON WORKS
OAKLAND, CALIFORNIA

IT CORPORATION
A Member of the IT Group

PHXFIG3R.DWG/VOCS

DRAWING NUMBER 776768-5R

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LEGEND

⊙ P-2	BORING LOCATION AND DESIGNATION
0.15m chrysene 0.440	SAMPLE DEPTH (meters) AND SEMIVOLATILE ORGANIC COMPOUND CONCENTRATION (milligrams per kilogram)

Notes:

1. All locations and dimensions are approximate.
2. Base map provided by Caltrans.

APPROXIMATE SCALE

0 30 61 METERS
0 100 200 FEET

N

FIGURE 5

SEMIVOLATILE ORGANIC COMPOUND DETECTIONS IN SOIL

PHOENIX IRON WORKS
OAKLAND, CALIFORNIA

IT CORPORATION
A Member of the IT Group

PHXFIG3R.DWG/SVOCS

DRAWING NUMBER 776768-6R

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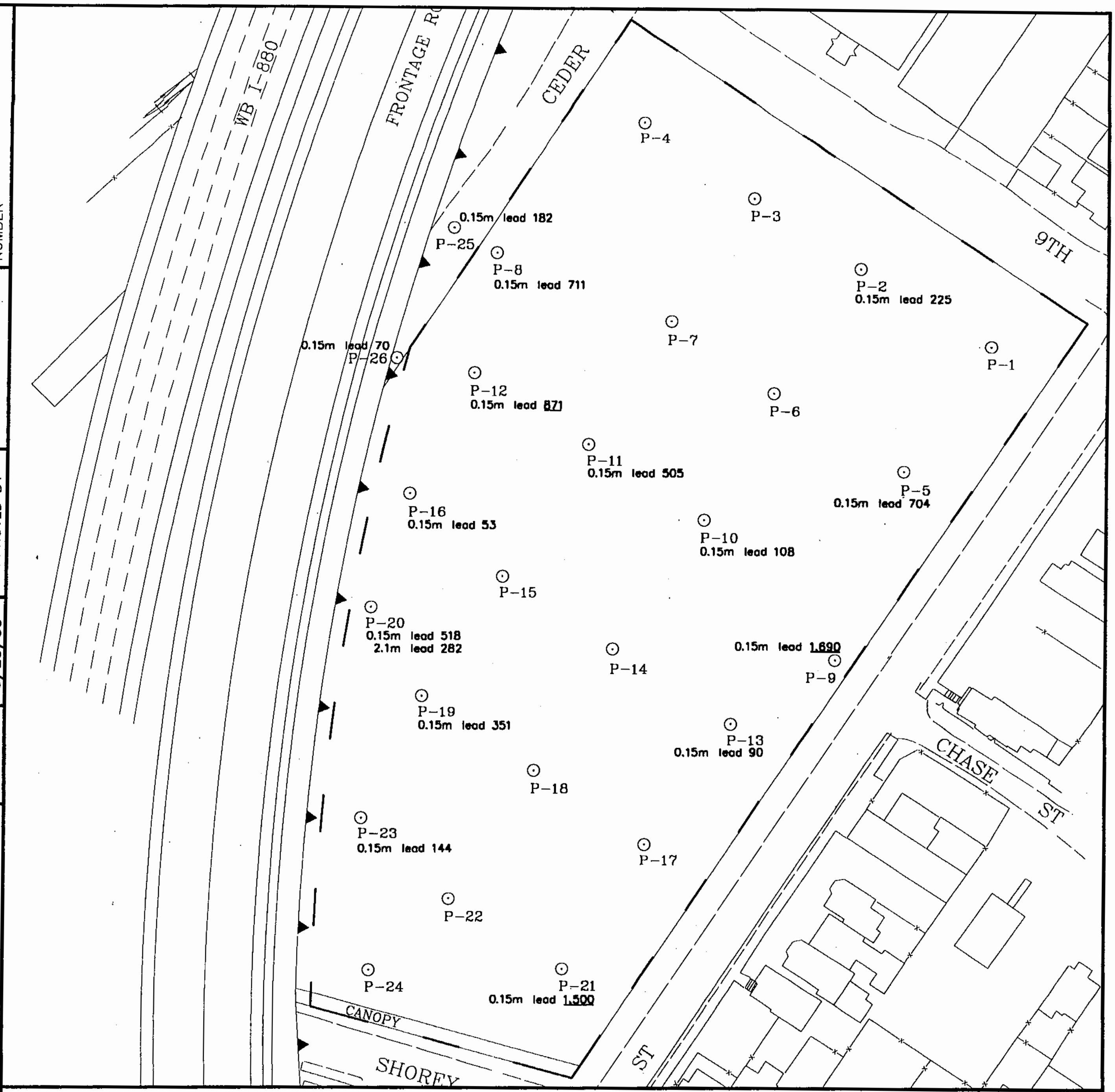

LEGEND

⊙ P-2 — BORING LOCATION AND DESIGNATION

0.15m lead 225 — SAMPLE DEPTH (meters) AND TOTAL LEAD CONCENTRATION (milligrams per kilogram)

Notes:

1. All locations and dimensions are approximate.
2. Base map provided by Caltrans.
3. Underlined concentrations exceed the Preliminary Remediation Goal.

APPROXIMATE SCALE

0 30 61 METERS
0 100 200 FEET

N

FIGURE 6

SELECTED TOTAL LEAD DETECTIONS IN SOIL

PHOENIX IRON WORKS
OAKLAND, CALIFORNIA

IT CORPORATION
A Member of the IT Group

PHXFIG3R.DWG/LEAD

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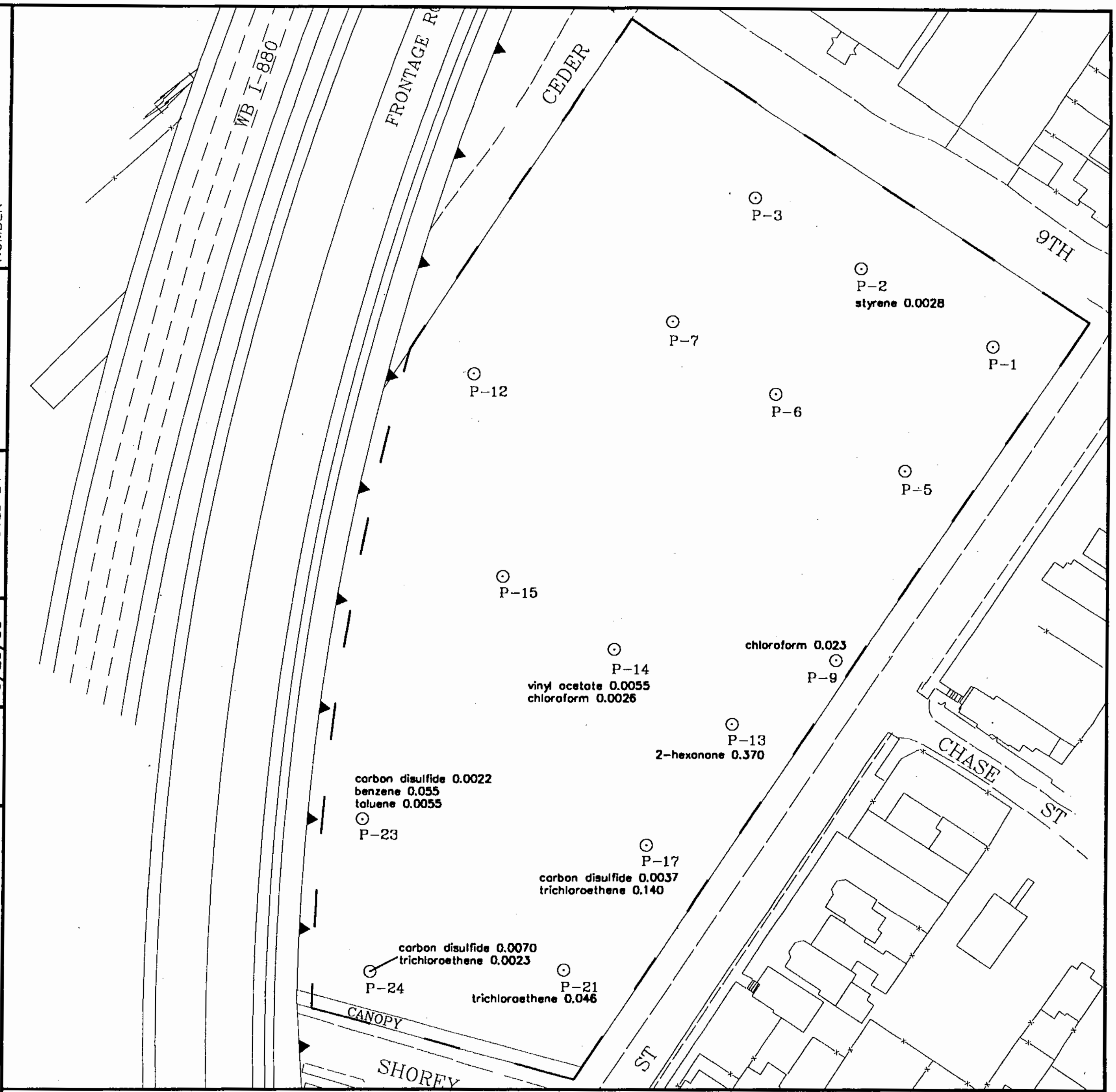
776768-7R



LEGEND

⊙ P-2 — GROUNDWATER SAMPLE BORING LOCATION AND DESIGNATION

styrene 0.0028 — ORGANIC COMPOUND CONCENTRATION (milligrams per liter)

Notes:

1. All locations and dimensions are approximate.
2. Base map provided by Caltrans.
3. TDS = total dissolved solids.
4. Only results exceeding Drinking Water Standards shown.

APPROXIMATE SCALE

0 30 61 METERS
0 100 200 FEET

N

FIGURE 7

ORGANIC COMPOUND DETECTIONS IN GROUNDWATER

PHOENIX IRON WORKS
OAKLAND, CALIFORNIA

IT CORPORATION
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PHXFIG4R.DWG/ORGANICS

DRAWING NUMBER 776768-8R

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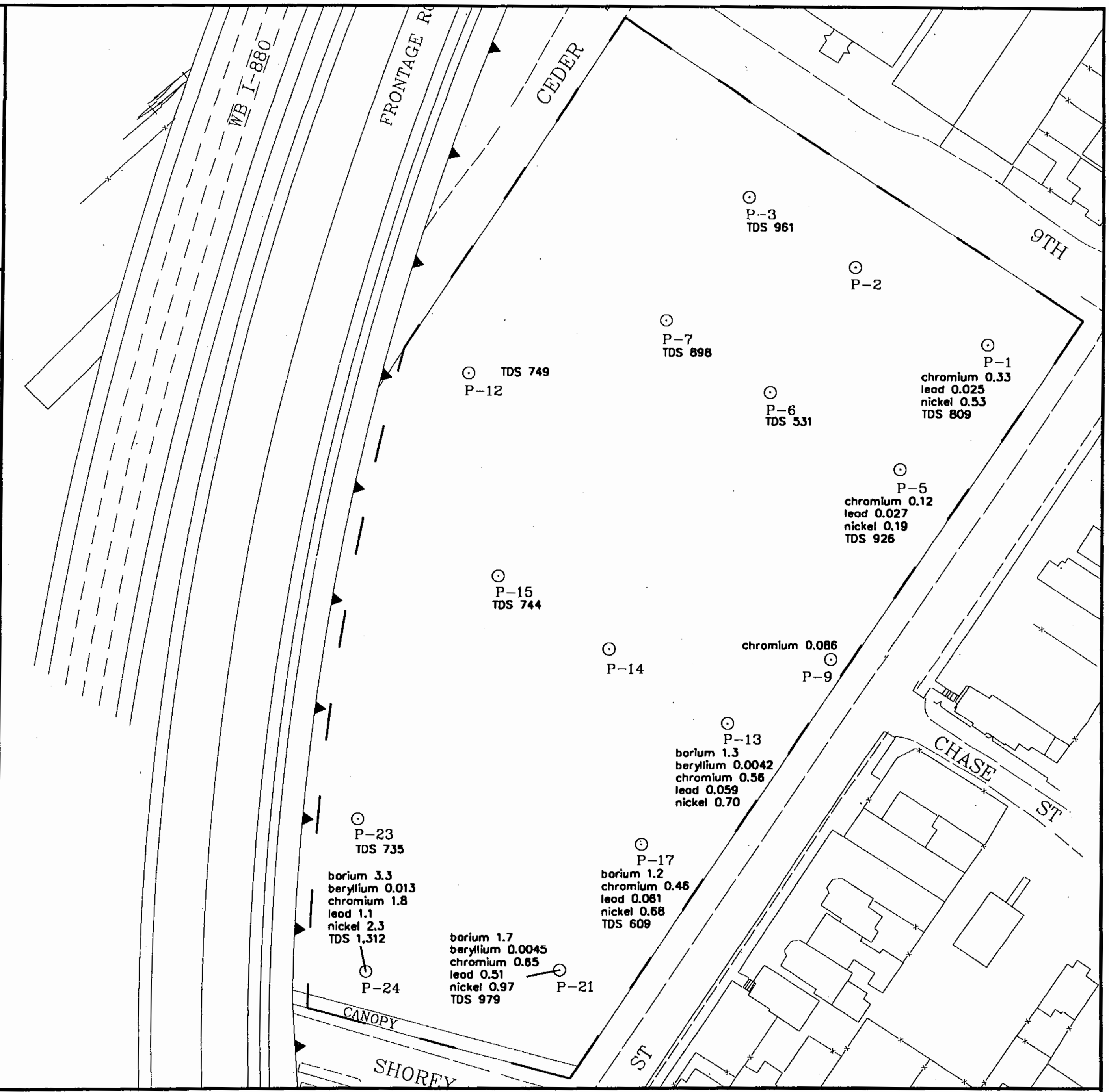


LEGEND

⊙ P-2 GROUNDWATER SAMPLE BORING LOCATION AND DESIGNATION

lead 0.025 HEAVY METAL OR TDS CONCENTRATION (milligrams per liter)

Notes:

1. All locations and dimensions are approximate.
2. Base map provided by Caltrans.
3. TDS = total dissolved solids.
4. Only results exceeding Drinking Water Standards shown.

APPROXIMATE SCALE

0 30 61 METERS
0 100 200 FEET

N

FIGURE 8

SELECTED INORGANIC ANALYSIS DETECTIONS IN GROUNDWATER

PHOENIX IRON WORKS
OAKLAND, CALIFORNIA

IT CORPORATION
A Member of the IT Group

PHXFIG4R.DWG/INORGANICS

B4-Table 1 Through 3 and Figures 2 Through 4 from Phase II Soil Investigation Report Prepared by Northgate Environmental Management, Inc. Dated November 9, 2011 (7 pp)

TABLE 1
Soil Sample Analytical Results - TEPH

Sample ID	Sample Depth (feet bgs)	TPH as diesel (mg/kg)	TPH as motor oil (mg/kg)
NG-1-1.0	1.0	**630**	**2,700**
NG-1-3.0	3.0	< 0.1	**14**
NG-1-5.0	5.0	< 0.1	**13**
NG-2-1.0	1.0	**4.4**	**130**
NG-2-1.0-D	1.0	< 0.1	**77**
NG-2-3.0	3.0	< 0.1	**8.1**
NG-2-5.0	5.0	< 0.1	< 2.0
NG-3-1.0	1.0	< 0.1	**190**
NG-3-1.0-D	1.0	< 0.1	**990**
NG-3-3.0	3.0	< 0.1	< 2.0
NG-3-5.0	5.0	< 0.1	< 2.0
NG-4-1.0	1.0	< 0.1	< 2.0
NG-4-3.0	3.0	< 0.1	**4.8**
NG-4-5.0	5.0	< 0.1	< 2.0
NG-5-1.0	1.0	< 0.1	**28**
NG-5-3.0	3.0	< 0.1	**6.9**
NG-5-5.0	5.0	< 0.1	< 1.53
Regulatory Standards			
RWQCB ESL - Residential		83	370
RWQCB ESL - Commercial/Industrial		83	2,500
RWQCB ESL - Construction Worker		4,200	12,000

NOTES:

TPH: Total Petroleum Hydrocarbons

mg/kg: milligrams per kilogram (parts per million)

<: Not detected at or above the indicated Practical Quantitation Limit (PQL)

RWQCB ESL - Residential: From Table A-1, Shallows Soil Screening Levels, Residential Land Use (RWQCB, 2008)

RWQCB ESL - Commercial From Table A-2, Shallows Soil Screening Levels, Commercial/Industrial Land Use (RWQCB, 2008)

RWQCB ESL - Construction Worker: Values from Table K-3, Direct Exposure Soil Screening Levels, Construction/Trench Worker Exposure Scenario (RWQCB, 2008)

TABLE 2
Soil Sample Analytical Results - Metals

		ANALYTE																	
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Soluble Lead*	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Soil Sample ID	Sample Depth	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NG-1-1.0	1.0	<5.0	9.3	64	<2.0	<1.0	21	6.3	71	99	6.1	<0.10	<5.0	21	<5.0	<1.0	<5.0	36	160
NG-1-3.0	3.0	5.1	65	170	<2.0	1.7	21	<5.0	23	22	--	<0.10	<5.0	15	<5.0	1.2	<5.0	27	17
NG-2-1.0	1.0	<5.0	17	88	<2.0	2.1	26	11	100	640	18	0.13	<5.0	25	<5.0	<1.0	<5.0	25	260
NG-2-1.0-D	1.0	<5.0	4.9	95	<2.0	<1.0	33	6.1	31	340	18	0.10	<5.0	26	<5.0	<1.0	<5.0	23	140
NG-2-3.0	3.0	<5.0	1.7	46	<2.0	<1.0	25	<5.0	5.6	2.8	--	<0.10	<5.0	15	<5.0	<1.0	<5.0	20	12
NG-3-1.0	1.0	6.1	7.8	110	<2.0	1.9	30	8.4	94	350	29	0.30	<5.0	31	<5.0	<1.0	<5.0	18	370
NG-3-3.0	3.0	<5.0	<1.7	65	<2.0	<1.0	25	<5.0	6.3	6.3	--	<0.10	<5.0	16	<5.0	<1.0	<5.0	18	190
NG-4-1.0	1.0	<5.0	<1.7	31	<2.0	<1.0	27	<5.0	<5.0	2.2	--	<0.10	<5.0	18	<5.0	<1.0	<5.0	19	12
NG-4-3.0	3.0	<5.0	<1.7	42	<2.0	<1.0	23	<5.0	5.7	1.4	--	<0.10	<5.0	15	<5.0	<1.0	<5.0	18	10
NG-5-1.0	1.0	<5.0	3.5	100	<2.0	<1.0	39	6.5	40	520	3.4	<0.10	<5.0	33	<5.0	<1.0	<5.0	25	190
NG-5-3.0	3.0	<5.0	7.4	64	<2.0	<1.0	53	11	150	180	--	0.24	<5.0	56	<5.0	<1.0	<5.0	26	93
NG-6-1.0	1.0	<5.0	2.8	96	<2.0	<1.0	23	<5.0	22	180	5.2	<0.10	<5.0	18	<5.0	<1.0	<5.0	20	49
NG-6-3.0	3.0	<5.0	<1.7	49	<2.0	<1.0	26	5.4	6.4	2.1	--	<0.10	<5.0	17	<5.0	<1.0	<5.0	20	12
NG-7-1.0	1.0	<5.0	<1.7	53	<2.0	<1.0	26	<5.0	6.5	5.8	--	<0.10	<5.0	19	<5.0	<1.0	<5.0	19	16
NG-7-3.0	3.0	<5.0	<1.7	40	<2.0	<1.0	29	<5.0	5.6	1.3	--	<0.10	<5.0	15	<5.0	<1.0	<5.0	18	10
NG-8-1.0	1.0	<5.0	<1.7	58	<2.0	<1.0	26	<5.0	6.5	10	--	<0.10	<5.0	16	<5.0	<1.0	<5.0	19	19
NG-8-3.0	3.0	<5.0	<1.7	38	<2.0	<1.0	24	<5.0	5.2	1.3	--	<0.10	<5.0	15	<5.0	<1.0	<5.0	19	9.7
NG-9-1.0	1.0	<5.0	3.0	62	<2.0	<1.0	39	6.5	11	21	--	<0.10	<5.0	33	<5.0	<1.0	<5.0	26	34
NG-9-3.0	3.0	<5.0	<1.7	47	<2.0	<1.0	27	<5.0	5.4	1.8	--	<0.10	<5.0	15	<5.0	<1.0	<5.0	19	11
NG-10-1.0	1.0	<5.0	3.6	200	<2.0	<1.0	26	<5.0	34	460	58	0.54	<5.0	18	<5.0	<1.0	<5.0	20	240
NG-10-3.0	3.0	<5.0	<1.7	32	<2.0	<1.0	25	<5.0	5.1	1.6	--	<0.10	<5.0	16	<5.0	<1.0	<5.0	18	9.2
NG-11-1.0	1.0	<5.0	2.6	180	<2.0	<1.0	21	<5.0	45	200	3.9	0.29	<5.0	16	<5.0	<1.0	<5.0	16	470
NG-11-3.0	3.0	<5.0	1.7	49	<2.0	<1.0	27	<5.0	7.3	4.9	--	<0.10	<5.0	15	<5.0	<1.0	<5.0	21	130
NG-12-1.0	1.0	<5.0	1.8	49	<2.0	<1.0	25	<5.0	6.8	25	--	<0.10	<5.0	16	<5.0	<1.0	<5.0	20	27
NG-12-3.0	3.0	<5.0	<1.7	44	<2.0	<1.0	26	<5.0	9.3	1.9	--	<0.10	<5.0	15	<5.0	<1.0	<5.0	20	11
NG-13-1.0	1.0	15	9.2	1,100	<2.0	4.9	54	<5.0	150	2,900	--	0.27	<5.0	30	<5.0	<1.0	<5.0	21	2000
NG-13-1.0-D	1.0	<5.0	3.5	82	<2.0	<1.0	29	8.4	26	200	520	0.22	<5.0	19	<5.0	<1.0	<5.0	22	100
NG-13-3.0	3.0	<5.0	<1.7	43	<2.0	<1.0	23	<5.0	<5.0	6.1	--	<0.10	<5.0	15	<5.0	<1.0	<5.0	17	610

TABLE 2
Soil Sample Analytical Results - Metals

		ANALYTE																	
		Antimony	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Copper**	**Lead**	**Soluble Lead***	**Mercury**	**Molybdenum**	**Nickel**	**Selenium**	**Silver**	**Thallium**	**Vanadium**	**Zinc**
Soil Sample ID	**Sample Depth**	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Regulatory Standards																			
CHHSLs - Residential		30	0.07	5,200	150	1.7	100,000	660	3,000	80	ne	18	380	1,600	380	380	5.0	530	23,000
CHHSLs - Commercial/Industrial		380	0.2	63,000	1,700	7.5	100,000	3,200	38,000	320	ne	180	4,800	16,000	4,800	4,800	63	6,700	100,000
RWQCB ESL - Construction Worker		310	15	2,600	98	39	1,200,000	94	310,000	750	ne	58	3,900	260	3,900	3,900	62	770	230,000
Background Metals - City of Oakland		<3 -7.1	1.8-31	ne	<0.25 - 1.1	<0.25 - 3.3	24.8 - 99.7	ne	11.8 - 99.7	3.3 - 144.3	ne	<0.1 - 7.0	ne	2.9 - 144.3	ne	ne	ne	ne	9.3 - 474
TTLC		500	500	10,000	75	100	2,500	8,000	2,500	1,000	5**	20	3,500	2,000	100	500	700	2,400	5,000

NOTES:

mg/kg: milligrams per kilogram (parts per million)

<: Not detected at or above the indicated laboratory practical quantitation limit

ne: Not established

--: Not analyzed

CHSSLs - Residential: California Human Health Screening Level for residential land use established by California EPA (September 2009, January 2005)

CHSSLs -Commercial/Industrial: California Human Health Screening Level for commercial/industrial land use established by California EPA (September 2009, January 2005)

RWQCB ESL - Construction Worker: Values from Table K-3, Direct Exposure Soil Screening Levels, Construction/Trench Worker Exposure Scenario (RWQCB, 2008)

Background Metals - City of Oakland: 'Values taken from City of Oakland Urban Land Redevelopment Program, Survey of Background Metal Concentration Studies, 1995.

TTLC: Total Threshold Limit Concentration for defining a waste as a hazardous waste

STLC: Soluble Threshold Limit Concentration for defining a waste as a hazardous waste

*: Soluable lead determined using the California Waste Extraction Test

****** : STLC

TABLE 3
Soil Sample Analytical Results - SVOCs

Soil Sample ID	Sample Depth (feet bgs)	Fluoranthene mg/kg	Pyrene mg/kg
NG-6-1.0	1.0	**21 J**	**25 J**
NG-6-3.0	3.0	<0.132	<0.147
NG-6-5.0	5.0	<0.132	<0.147
NG-7-1.0	1.0	<0.132	<0.147
NG-7-1.0-D	1.0	<20.1	<22.3
NG-7-3.0	3.0	<0.132	<0.147
NG-7-5.0	5.0	<0.132	<0.147
NG-8-1.0	1.0	<0.132	<0.147
NG-8-3.0	3.0	<0.132	<0.147
NG-8-5.0	5.0	<0.132	<0.147
NG-9-1.0	1.0	<0.132	<0.147
NG-9-3.0	3.0	<0.132	<0.147
NG-9-5.0	5.0	<0.132	<0.147
NG-10.1.0	1.0	<20.1	<22.3
NG-10-1.0-D	1.0	<0.132	<0.147
NG-10-3.0	3.0	<0.132	<0.147
NG-10-5.0	5.0	<0.132	<0.147
NG-11-1.0	1.0	<0.132	<0.147
NG-11-3.0	3.0	<0.132	<0.147
NG-11-5.0	5.0	<0.132	<0.147
NG-12-1.0	1.0	<40.1	<44.5
NG-12-3.0	3.0	<0.132	<0.147
NG-12-5.0	5.0	<0.132	<0.147
NG-13-1.0	1.0	<80.2	<89.0
NG-13-1.0-D	1.0	<20.1	<22.3
NG-13-3.0	3.0	<0.132	<0.147
NG-13-5.0	5.0	<0.132	<0.147
Regulatory Standards			
RWQCB ESL - Residential		40	85
RWQCB ESL - Commercial/Industrial		40	85
RWQCB ESL - Construction Worker		14,000	21,000

NOTES:

mg/kg: milligrams per kilogram (parts per million)

J: Indicates a value between the method detection limit and the practical quantitiation limit and that the reported concentration should be considered as estimated

<: Not detected at or above the indicated laboratory practical quantitation limit

RWQCB ESL - Residential: From Table A-1, Shallows Soil Screening Levels, Residential Land Use (RWQCB, 2008)

RWQCB ESL - Commercial/Industrial: From Table A-2, Shallows Soil Screening Levels, Commercial/Industrial Land Use (RWQCB, 2008)

RWQCB ESL - Construction Worker: Values from Table K-3, Direct Exposure Soil Screening Levels, Construction/Trench Worker Exposure Scenario (RWQCB, 2008)

LEGEND:

● Soil boring locations

P-25 △ 1999 Soil borings

▬ ▬ Approximate site boundary

▬ ▬ Site boundary from PEA Report (1993)

0 50 100

Scale (Feet)

N

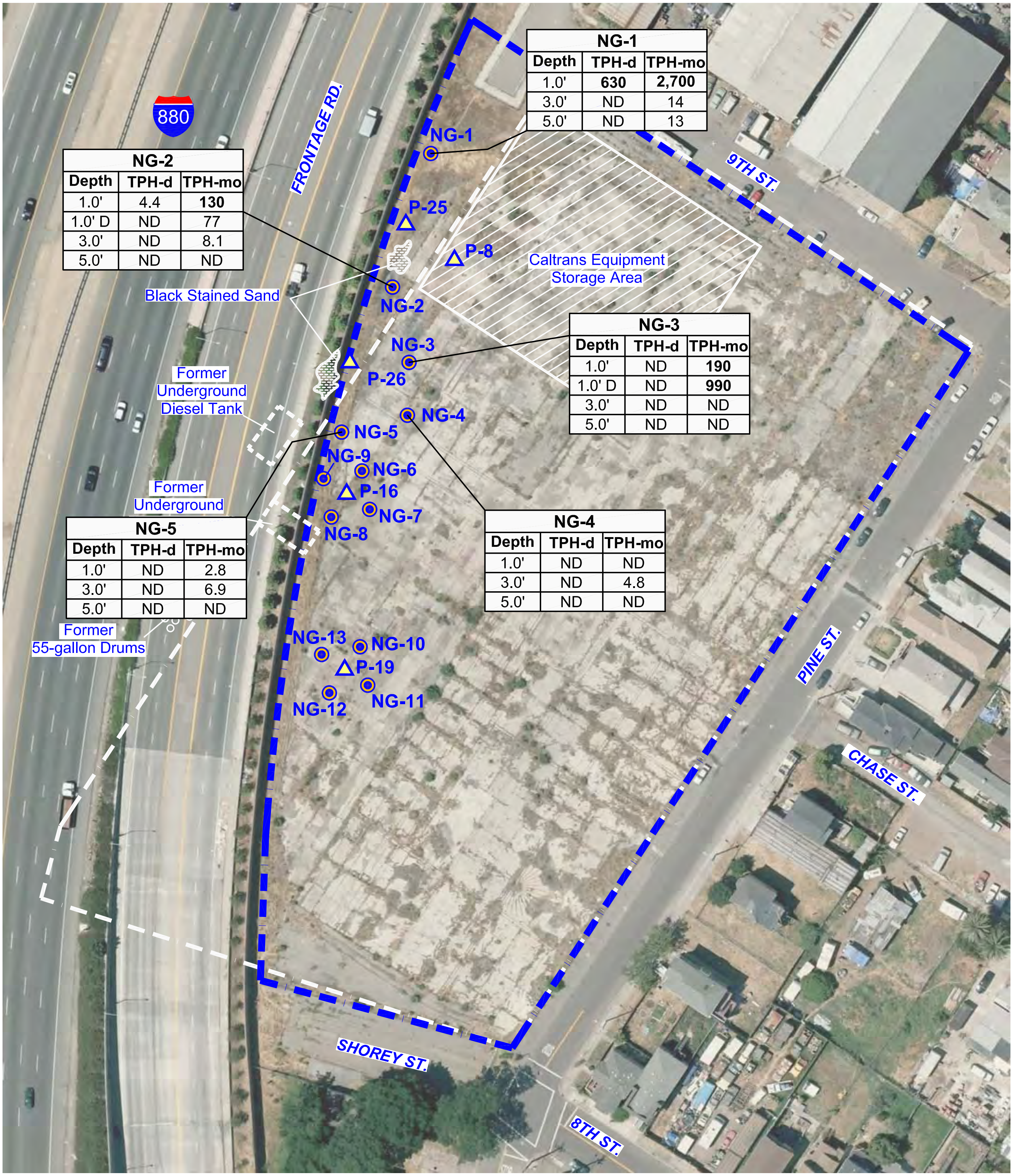
FIGURE 2
Site Plan

800 Cedar Street
Oakland, California

northgate
environmental management, inc.

Project No. 1204.18

G:\Projects\Temp\1204 City of Oakland\1204.18 800 Cedar\1204.18 Figures\Phase II Rpt\Figure 2 - Site Plan.dwg Layout: Fig2_Sample_Locs User: oleg Sep 15, 2011 - 3:00pm



NG-1

Depth	TPH-d	TPH-mo
1.0'	**630**	**2,700**
3.0'	ND	14
5.0'	ND	13

NG-2

Depth	TPH-d	TPH-mo
1.0'	4.4	**130**
1.0' D	ND	77
3.0'	ND	8.1
5.0'	ND	ND

NG-3

Depth	TPH-d	TPH-mo
1.0'	ND	**190**
1.0' D	ND	**990**
3.0'	ND	ND
5.0'	ND	ND

NG-4

Depth	TPH-d	TPH-mo
1.0'	ND	ND
3.0'	ND	4.8
5.0'	ND	ND

NG-5

Depth	TPH-d	TPH-mo
1.0'	ND	2.8
3.0'	ND	6.9
5.0'	ND	ND

LEGEND:

●	Soil boring locations
P-25 △	1999 Soil borings
▬ ▬	Approximate site boundary
▬ ▬	Site boundary from PEA Report (1993)

Notes:
- Data in mg/Kg
- **Bold** = Exceeds RWQCB ESL of 83 mg/Kg for TPH-d and TPH-mo

0 50 100
Scale (Feet)

N

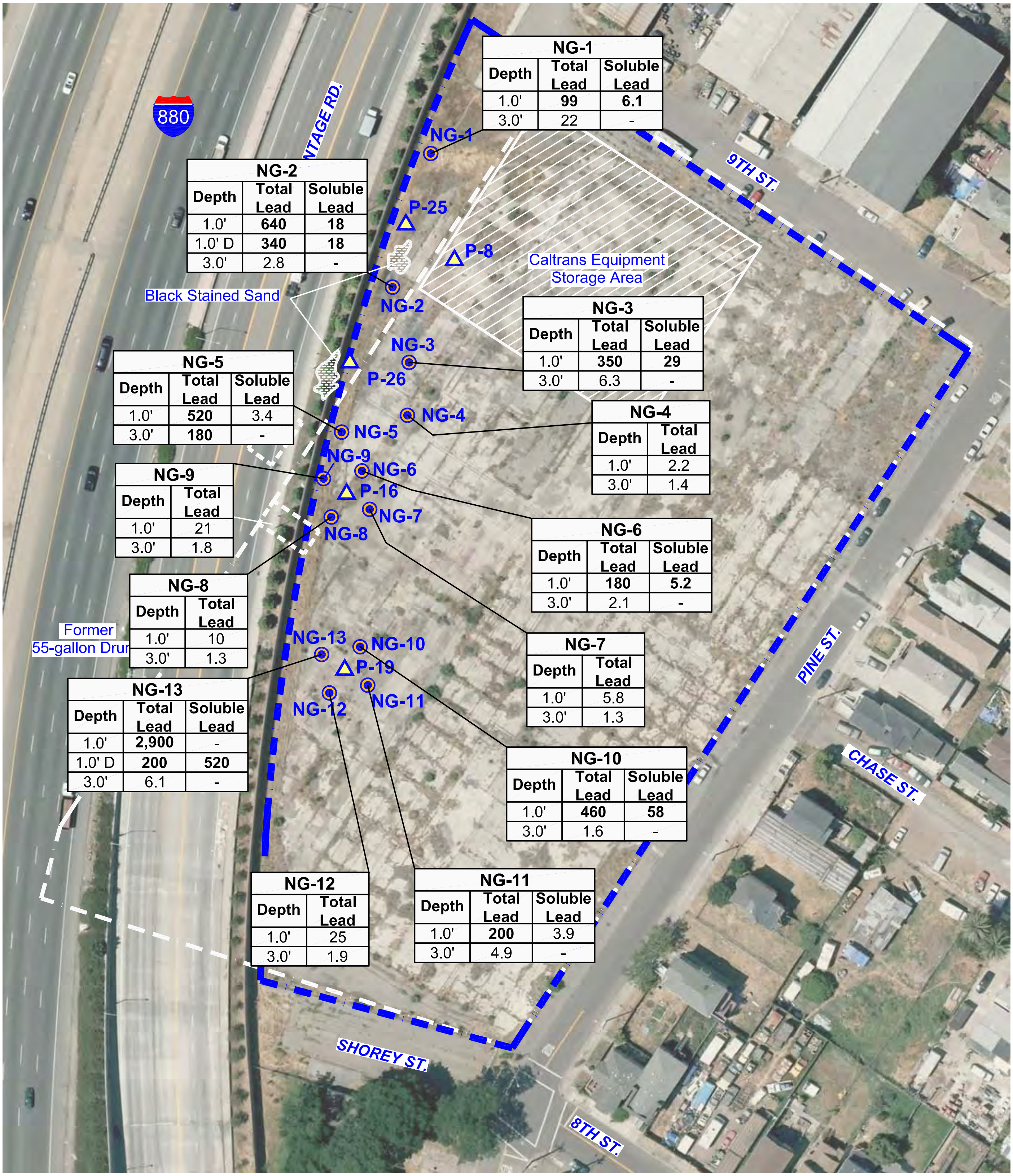
FIGURE 3
TPH Concentrations in Soil

800 Cedar Street
Oakland, California

northgate
environmental management, inc.

Project No. 1204.18

G:\Projects\Temp\1204 City of Oakland\1204.18 800 Cedar\1204.18 Figures\Phase II Rpt\Figure 3-4 - TPH-Lead-Soil.dwg Layout: Fig3 TPH User: oleg Sep 07, 2011 - 2:58pm



NG-1

Depth	Total Lead	Soluble Lead
1.0'	**99**	**6.1**
3.0'	22	-

NG-2

Depth	Total Lead	Soluble Lead
1.0'	**640**	**18**
1.0' D	**340**	**18**
3.0'	2.8	-

NG-3

Depth	Total Lead	Soluble Lead
1.0'	**350**	**29**
3.0'	6.3	-

NG-5

Depth	Total Lead	Soluble Lead
1.0'	**520**	3.4
3.0'	**180**	-

NG-4

Depth	Total Lead
1.0'	2.2
3.0'	1.4

NG-9

Depth	Total Lead
1.0'	21
3.0'	1.8

NG-6

Depth	Total Lead	Soluble Lead
1.0'	**180**	**5.2**
3.0'	2.1	-

NG-8

Depth	Total Lead
1.0'	10
3.0'	1.3

NG-7

Depth	Total Lead
1.0'	5.8
3.0'	1.3

NG-13

Depth	Total Lead	Soluble Lead
1.0'	**2,900**	-
1.0' D	**200**	**520**
3.0'	6.1	-

NG-10

Depth	Total Lead	Soluble Lead
1.0'	**460**	**58**
3.0'	1.6	-

NG-12

Depth	Total Lead
1.0'	25
3.0'	1.9

NG-11

Depth	Total Lead	Soluble Lead
1.0'	**200**	3.9
3.0'	4.9	-

LEGEND:

●	Soil boring locations
P-25 △	1999 Soil borings
▬ ▬	Approximate site boundary
▬ ▬	Site boundary from PEA Report (1993)

Notes:
- Data in mg/Kg
- **Bold** = Exceeds Residential CHHSL of 80 mg/Kg for Total Lead and STLC of 5 mg/Kg for Soluble Lead
- Soluble lead based on the WET

0 50 100
Scale (Feet)

N

FIGURE 4
Lead Concentrations in Soil

800 Cedar Street
Oakland, California

northgate
environmental management, inc.

Project No. 1204.18

G:\Projects\Temp\1204 City of Oakland\1204.18 800 Cedar\1204.18 Figures\Phase II Rpt\Figure 3-4 - TPH-Lead-Soil.dwg Layout: Fig4 Lead User: oleg Sep 15, 2011 - 3:00pm

B5-Table 1 Through 2B and Figure 2 from Limited Subsurface Investigation Report Prepared by P&D Environmental, Inc. Dated September 5, 2017 (4 pp)

Table 1
Summary of Borehole Groundwater Sample Analytical Results

Sample ID	Sample Date	TPH-G	TPH-D	TPH-MO	TPH-BO	MTBE	Benzene	Toluene	Ethylbenzene	Total Xylenes	Other VOCs Using EPA Method 8260
GW1	8/10/2017	ND<50	63, a,b	120, a,b	130, a,b	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND
GW2	8/11/2017	ND<50	ND<38	ND<82	ND<110	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND, except PCE = 2.1
ESL^1		100	100	50,000	50,000	5.0	1.0	40	13	20	PCE = 3.0
ESL^2		No Value	No Value	No Value	No Value	1,200	1.1	3,600	13	1,300	PCE = 3.0
ESL^3		No Value	No Value	No Value	No Value	11,000	9.7	30,000	110	11,000	PCE =26

NOTES:
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
TPH-D = Total Petroleum Hydrocarbons as Diesel.
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil.
TPH-BO = Total Petroleum Hydrocarbons as Bunker Oil.
MTBE = Methyl-tert-Butyl Ether.
VOCs = Volatile Organic Compounds.
PCE = Tetrachloroethene
ND = Not Detected.
a = Laboratory note: oil range compounds are significant.
b = Laboratory note: diesel range compounds are significant; no recognizable pattern.
ESL^1 = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated February 2016 (Revision 3), Groundwater Tier 1 ESL from Summary of Groundwater ESLs.
ESL^2 = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated February 2016 (Revision 3), from Table GW-3 – Groundwater Vapor Intrusion Human Health Risk Screening Levels. Shallow Groundwater. Sand Scenario. Residential Land Use.
ESL^3 = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated February 2016 (Revision 3), from Table GW-3 – Groundwater Vapor Intrusion Human Health Risk Screening Levels. Shallow Groundwater. Sand Scenario. Commercial/Industrial Land Use.
Results and ESLs reported in micrograms per liter (µg/L) unless otherwise indicated.

Table 2A
Summary of Sub-Slab Soil Gas Sample Analytical Results

Sample ID	Land Use	Sample Date	Probe Depth (Feet bgs)	Benzene	Toluene	Ethyl-benzene	m,p-Xylenes	o-Xylenes	PCE	TCE	cis-1,2-DCE	Vinyl Chloride	Other VOCs by EPA Method TO-15	DFA	Percent Shroud
SG1	Commercial	8/14/2017	5.5	ND<3.19	4.11	ND<4.34	ND<8.68	ND<4.34	ND<6.78	ND<5.37	ND<3.97	ND<2.56	ND, except Chloroform = **82.5**, Trichlorofluoromethane = 16.3	ND<27,014	0
SG2	Commercial	8/14/2017	5.5	ND<3.19	10.6	ND<4.34	ND<8.68	ND<4.34	28.6	**447**	ND<3.97	ND<2.56	ND, except Chloroform = **132**	ND<27,014	0
SG2 DUP	Commercial	8/14/2017	5.5	ND<3.19	10.4	ND<4.34	ND<8.68	ND<4.34	28.2	**441**	ND<3.97	ND<2.56	ND, except Chloroform = **128**	ND<27,014	0
SG3	Commercial	8/14/2017	5.5	ND<3.19	ND<3.77	ND<4.34	ND<8.68	ND<4.34	42.6	ND<5.37	ND<3.97	ND<2.56	ND, except Chloroform = 14.8, Methylene Chloride = 4.27, 1,1,1-TCA = 21.3, Trichlorofluoromethane = 6.01	ND<27,014	0
ESL [1]				*48*	*160,000*	*560*	*Combined = 52,000*		*240*	*240*	*4,200*	*4.7*	*Chloroform = 61,* *Methylene Chloride = 510,* *1,1,1-TCA = 520,000,* *Trichlorofluoromethane = No Value*	*No Value*	*No Value*
ESL [2]				*420*	*1,300,000*	*4,900*	*Combined = 440,000*		*2,100*	*3,000*	*35,000*	*160.0*	*Chloroform = 530,* *Methylene Chloride = 12,000,* *1,1,1-TCA = 4,400,000,* *Trichlorofluoromethane = No Value*	*No Value*	*No Value*

Notes:

Feet bgs = Feet Below Ground Surface.

PCE = Tetrachloroethene.

TCE = Trichloroethene.

cis-1,2-DCE = cis-1,2-Dichloroethene.

1,1,1-TCA = 1,1,1-Trichloroethane.

DFA = 1,1-Difluoroethane. (tracer gas)

ND = Not Detected.

Percent Shroud = The ratio of tracer gas concentration detected in the soil gas sample to the tracer gas concentration detected in the shroud air sample, expressed as a percentage.

ESL[1] = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated February 2016 (Revision 3), from Table SG1 – Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels for Residential Land Use.

ESL[2] = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated February 2016 (Revision 3), from Table SG1 – Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels for Commercial/Industrial Land Use.

BOLDED concentrations exceed their respective ESL[1] value.

Results and ESLs in micrograms per cubic meter (µg/m3), unless otherwise indicated.

Table 2B
Summary of Shroud Air Sample Analytical Results

Sample ID	Sample Date	DFA, #
SG1 DFA	8/14/2017	1,072,468.3
SG2 DFA	8/14/2017	71,587.93
SG3 DFA	8/14/2017	3,079,631.9

<u>Notes:</u>

= 1,1-Difluoroethane (DFA) used as leak detection compound for TO-15 analysis.

Results in micrograms per cubic meter (ug/m^3), unless otherwise indicated.

Figure 2
Site Aerial Photograph Showing Sample Collection Locations
Phoenix Iron Works
800 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 50 100
Approximate Scale in Feet

N

P&D ENVIRONMENTAL, INC.
55 Santa Clara Avenue, Suite 240
Oakland, CA 94610
(510) 658-6916

February 14, 2019
Report 0772.R4

Mr. Jamie Hiteshew
Urban Designs, LLC
1201 Pine Street, Suite 151
Oakland, CA 94607

SUBJECT: LIMITED SUBSURFACE INVESTIGATION REPORT
(S1 Through S9, GW3 Through GW11, and SG4 Through SG20)
RO Number 0003269
The Phoenix
801 Pine Street
Oakland, CA

Dear Mr. Hiteshew:

P&D Environmental, Inc. (P&D) has prepared this report documenting a limited subsurface investigation of soil, soil gas and groundwater performed at 801 Pine Street in Oakland, California (historically known as 800 Cedar Street, however Cedar Street no longer exists). Historical documents have also identified the site address as 800 Pine Street.

The purpose of the investigation was to evaluate the property in preparation for site development for the presence of near-surface lead concentrations in soil and for Volatile Organic Compounds (VOCs) that were historically detected at the subject site. The work was performed in accordance with a March 23, 2018 Limited Subsurface Investigation Work Plan (document 0772.W2) prepared by P&D, a May 15, 2018 Limited Subsurface Investigation Work Plan Addendum (document 0772.W2A) prepared by P&D, a May 22, 2018 Alameda County Department of Environmental Health (ACDEH) letter approving the work plan and work plan addendum, and subsequent discussions during meetings with the ACDEH on September 13, 2018 and November 7, 2018.

A total of nine boreholes designated as S1 through S9 were drilled on June 1, 2018 to a depth of 5.0 feet below the ground surface (bgs) for soil sample collection for shallow soil lead evaluation. Seven boreholes designated as GW3 through GW9 were hand augered on May 31, 2018 to a depth of 11.5 feet bgs and two additional boreholes designated as GW10 and GW11 were hand augered on October 13, 2018 for groundwater grab sample collection for VOC evaluation and for the evaluation of metals in groundwater at selected locations. Additionally, six soil gas wells, designated as SG4 through SG9 were installed at the site on May 24, 2018, five soil gas wells designated as SG10 through SG14 were installed on October 13, 2018, and an additional six soil gas wells, designated as SG15 through SG20 were installed on November 19, 2018 each to a depth of 7.0 feet bgs with the collection of soil gas samples from soil gas wells on the following dates:

- June 4 and 5, 2018 soil gas wells SG6 through SG9.
- September 6, 2018 soil gas wells SG4 and SG5. Based on the presence of water in soil gas wells SG4 and SG5 during the June 2018 sampling event, soil gas samples were not collected from these two soil gas wells.
- October 17 and 18, 2018soil gas wells SG2, SG4, SG5, SG6, and SG10 through SG14
- December 10 and 15, 2018 soil gas wells SG15 through SG18, and SG20. Based on the presence of water in soil gas wells SG10, SG11 and SG19 during the December 2018 sampling event, soil gas samples were not collected from these soil gas wells.

A Site Location Map is attached as Figure 1 and Figures 2 through 9 show detected VOC, petroleum, lead, and metals concentrations for historical and the current investigation. All work was performed under the direct supervision of a professional geologist.

BACKGROUND

The property is presently a vacant lot that is entirely covered with a concrete slab. The property is presently divided into four parcels (see Figure 2) and is presently scheduled for residential development beginning with development at Parcel 1.

A search of the State Water Resources Control Board's (SWRCB) Geotracker website lists the subject site address as 888 Cedar Street and as an active Leaking Underground Storage Tank (LUST) site. There are no documents associated with the Geotracker case for the subject site, except for a directive letter from the Alameda County Department of Environmental Health (ACDEH) dated July 3, 2008 outlining Geotracker upload requirements for the site.

A search of the ACDEH Local Oversight Program's (LOP) website shows various miscellaneous historical documents and correspondence including the following documents:

- Preliminary Endangerment Assessment (PEA) Volume II for 800 Cedar Street dated November 1993 and prepared by On-Site Technologies (OST),
- Underground Storage Tank Closure Report for Cypress "B" Freeway Reconstruction Project - Phoenix 800 Area "T" dated November 27, 1995 and prepared by OGISO Environmental.

Review of the November 1993 PEA shows that OST reports that the site is located along a portion of the then proposed reconstruction of the I-880 Cypress structure by the California Department of Transportation (Caltrans). The original Cypress structure was demolished following its collapse during the Loma Prieta Earthquake in 1989. Additionally, the PEA identifies the following company names and past site activities:

- The Dunn Cracker Co. from approximately 1889 to 1902,
- California Bedding & Upholstery Co. from approximately 1902 to 1912,
- A soap factory from some period of time between 1912 and 1931,
- California Fireworks from approximately 1923 to 1927,
- Independent Iron Works from 1924 to approximately 1960,

- Pine Iron Works from some unknown time until 1990.
- J&A Machine shop from 1985 through at least the date of the PEA.
- Phoenix Iron Works from approximately 1970 through at least the date of the PEA.
- Michael Bondi Metal Design from 1985 through at least the date of the PEA.
- Cypress Auto Parts from 1970 through at least the date of the PEA.
- Ivan's Auto Body, Unknown Plastic Bag Co., Vennell Steel, and Terminal Manufacturing were located at the subject site at unknown dates and for unknown durations.

A search of the Department of Toxic Substances Control (DTSC) Envirostor website shows that the site is listed as a Voluntary Cleanup site located at 800 Cedar Street and as an Inactive open case as of September 3, 2010. The Envirostor summary page for the site lists only diesel as a potential contaminant of concern and only soil for a potentially impacted media. The Envirostor summary page also states that the site is part of the Cypress Freeway Reconstruction Project as well as having been historically used as an iron works plant that occupied the entire block bounded by Shorey, 9th, Pine, and Cedar (no longer exists) Streets. When the iron works plant went out of business, the building was subdivided into 5 bays and subsequently leased to commercial tenants including machine shops, iron works, auto parts dismantlers, and other manufacturing. The subject site building is reported to have been demolished in July 1995. The former location of Cedar Street (west side of subject site) is shown on Figure 2.

Envirostor also references the approval of proposed excavation of 104 cubic yards of soil on January 13, 1998 and the last available activity listed is dated February 27, 2012 and states that sampling activities were complete and that results were expected in 60 days. Among the documents on Envirostor were the following:

- Site Investigation Report for Highway 880, Cypress Reconstruction - Area 4 dated August 28, 1992 and prepared by Geo/Resource Consultants, Inc.
- Sampling and Analysis Plan Phase II Soil Investigation for 800 Cedar Street dated July 14, 2011 and prepared by Northgate Environmental Management, Inc. (Northgate).

Other documents obtained and reviewed by P&D are as follows:

- Site Investigation Report for 800 Cedar Street dated March 8, 2000 and prepared by IT Corporation,
- Phase II Soil Investigation Report for 800 Cedar Street dated November 9, 2011 and prepared by Northgate,
- Soil Stockpile Sampling Report for 800 Cedar Street dated December 31, 2013 and prepared by Geocon Consultants, Inc.

P&D's September 5, 2017 Limited Subsurface Investigation Report (document 0772.R1) documents the installation and sampling of soil gas wells SG1 through SG3 and the collection of two groundwater grab samples designated GW1 and GW2 at the site during August 2017.

Historical investigation sample results were summarized by P&D in a December 1, 2017 Soil and Groundwater Management Plan (SGMP) for the site. Soil, groundwater, and soil gas have been impacted at the Site from historical Site use and potentially from off-site sources. Tabulated results of analytical data with figures showing the sample collection locations are provided in Appendix B of P&D's December 1, 2017 SGMP. Appendix A of the SGMP also contains figures that summarize contaminants historically detected at concentrations exceeding San Francisco Bay Regional Water Quality Control Board (SFRWQCB) February 2016 revision 3 Tier 1 screening levels.

FIELD ACTIVITIES

Prior to performing field activities, drilling permits W2018-0430, W2018-0431, and W2018-1010 were obtained from the Alameda County Public Works Agency (ACPWA), permits were obtained from the City of Oakland for work in the public right-of-way, site access was arranged, the drilling locations were marked with white paint, Underground Service Alert was notified for underground utility location, a health and safety plan was prepared, and notification of the drilling dates was provided to the ACDEH, ACPWA, and the City of Oakland.

Continuous Coring and Soil Sample Collection

P&D personnel oversaw drilling at locations S1 through S9 on June 1, 2018 for the collection of shallow soil samples to further evaluate the presence and vertical extent of lead concentrations in soil at the subject site. A Site Aerial Photograph showing lead concentrations in historical soil samples is attached with this report as Figure 2 and a Site Aerial Photograph showing lead concentrations in soil samples collected from boreholes S1 through S9 is attached with this report as Figure 3.

All drilling was performed by VTS Drilling LLC of Hayward, California (VTS) using Geoprobe dual tube direct push methods with a Macrocore barrel sampler lined with transparent PVC sleeves. Boreholes S1 through S9 were each drilled to a total depth of 5.0 feet bgs.

The soil from the boreholes was logged in the field in accordance with standard geologic field techniques and the Unified Soil Classification System (USCS), and was evaluated with a Photoionization Detector (PID) equipped with a 10.6 eV bulb that was calibrated with a 100 parts per million (ppm) isobutylene standard. The soil was also evaluated for other evidence of contamination such as odors, staining, and discoloration. No elevated PID values, odors, staining, or discoloration were detected in the boreholes. Copies of the boring logs for boreholes S1 through S9 are attached with this report in Appendix A.

Groundwater was not encountered during the drilling of boreholes S1 through S9. Soil samples were collected from boreholes S1 through S9 by cutting the Macrocore barrel sampler PVC liner in 6-inch long sections and sequentially covering the ends of the sections of PVC liner with Teflon sheets and plastic endcaps.

All of the boreholes were sampled at depths of 0.5, 1.0, 2.0, and 3.0 feet bgs. Following evaluation and collection the soil samples were labeled and placed into a cooler pending delivery to the laboratory. Chain of custody procedures were observed for all sample handling.

Hand Augering and Groundwater Sample Collection

P&D personnel oversaw hand augering at locations GW3 through GW9 on May 31, 2018 and at locations GW10 and GW11 on October 13, 2018, (see Figures 4 through 7) for the collection of groundwater grab samples to evaluate the presence of VOCs in groundwater and metals at specific locations in groundwater at the subject site. All hand augering was performed by VTS using a 2.75-inch outside diameter hand auger. Boreholes GW3 through GW9 were all hand augered to a total depth of 11.5 feet bgs and boreholes GW10 and GW11 were hand augered to a total depth of 10.0 feet bgs.

Groundwater was first encountered in boreholes GW3, GW4, GW5, GW6, GW7, GW8, GW9, GW10, and GW11 at depths of approximately 9.5, 9.5, 9.5, 11.0, 8.5, 9.0, 9.0, 9.0, and 9.0 feet bgs, respectively. Following verification of the presence of groundwater in each borehole a temporary 1-inch diameter slotted PVC pipe was placed into the borehole. One groundwater grab sample was collected from each of the boreholes using new ¼-inch outside diameter polyethylene tubing and a peristaltic pump with silicone tubing in the pump rollers. The sample was discharged directly from the discharge tubing into 40-milliliter Volatile Organic Analysis (VOA) vials that contained hydrochloric acid and also into unpreserved 1-liter amber glass containers which all were sealed with Teflon-lined screw caps. Groundwater from boreholes GW3 and GW4 was also collected into unpreserved 500 milliliter (mL) HDPE bottles for metals analysis. The VOA vials were overturned and tapped to ensure that no air bubbles were present, and the bottles were then labeled and transferred to a cooler with ice until they were transported to the laboratory. Chain of custody procedures were observed for all sample handling.

The soil from the boreholes was logged in the field in accordance with standard geologic field techniques and the USCS, and was evaluated with a PID equipped with a 10.6 eV bulb that was calibrated with a 100 ppm isobutylene standard. The soil was also evaluated for other evidence of contamination such as odors, staining, and discoloration. No elevated PID values, odors, staining, or discoloration were detected in the boreholes. The shallowest depth at which groundwater was subsequently encountered in boreholes GW3, GW4, GW5, GW6, GW7, GW8, GW9, GW10, and GW11 prior to grouting the boreholes was at depths of 6.3, 7.0, 6.7, 6.9, 6.8, 6.8, 6.9, 9.4, and 9.4 feet bgs, respectively. Copies of the boring logs for boreholes GW3 through GW11 are attached with this report in Appendix A. Boreholes GW3 through GW9 were grouted on May 31, 2018 and boreholes GW10 and GW11 were grouted on October 13, 2018 with neat cement using the temporary PVC casing as a tremie pipe.

All drilling and sampling equipment was cleaned with an Alconox solution followed by a clean water rinse prior to use in each borehole, and all temporary PVC casing and tubing used for sample collection was new and unused. All soil and rinse water generated during subsurface investigation was stored in labeled 55-gallon drums at the site pending characterization and proper disposal.

Soil Gas Well Construction and Soil Gas Sample Collection

Six soil gas wells, designated as SG4 through SG9 were constructed on May 24, 2018; five soil gas wells, designated as SG10 through SG14 were constructed on October 13, 2018; and six soil gas wells, designated as SG15 through SG20 were constructed on November 19, 2018. Soil gas samples were collected from soil gas wells SG6 through SG9 on June 4 and 5, 2018, from soil gas wells SG4 and SG5 on September 6, 2018, from soil gas wells SG2, SG4, SG5, SG6, SG10 through SG14 on October 17 and 18, 2018, and from SG15 through SG18 and SG20 on December 10 and 15, 2018 using shrouds with helium tracer gas in accordance with procedures recommended in the following Department of Toxic Substances Control (DTSC) documents:

- July 2015 Advisory - Active Soil Gas Investigations.
- August 2015 - FAQ for the 2012 Active Soil Gas Investigations Advisory.
- October 2011 - Vapor Intrusion Guidance.
- October 2011 - Vapor Intrusion Mitigation Advisory.

The boreholes for the soil gas wells were each drilled to a depth of 7.0 feet bgs at locations SG4 through SG20 (see Figures 8 and 9) using a 3.5-inch outside diameter hand auger. The soil from the boreholes was logged in the field in accordance with standard geologic field techniques and the USCS, and was evaluated with a PID equipped with a 10.6 eV bulb that was calibrated with a 100 ppm isobutylene standard. The soil was also evaluated for other evidence of contamination such as odors, staining, and discoloration. No elevated PID values, odors, staining, or discoloration were detected in any of the boreholes.

Based on the presence of groundwater in the initial hand augered soil gas borehole (drilled at proposed location SG6 identified in the work plan), the initial borehole was designated as SG6A and no soil gas well was constructed in the borehole. An alternate borehole designated as SG6 was hand augered at a nearby location in an effort to determine if the groundwater encountered in the first borehole was localized or related to a buried utility, and a soil gas well designated as SG6 was constructed in the alternate borehole.

Groundwater was not encountered during hand augering in soil gas well boreholes SG4, SG5, and SG8 through SG20, and was encountered during hand augering in soil gas well boreholes SG6, SG6A (no soil gas well was constructed in borehole SG6A), and SG7 at depths of 6.7, 5.0, and 6.8 feet bgs, respectively. The shallowest depth at which groundwater was subsequently encountered in soil gas well boreholes SG4, SG5, SG6, SG6A, SG7, SG8 and SG9 was 5.5, 5.4, 5.9, 5.7, 5.6, 6.1 and 6.1 feet bgs, respectively. Copies of the boring logs for the soil gas well boreholes are attached with this report as Appendix A.

Each soil gas well was constructed with a sand filter pack in the bottom of the borehole consisting of #2/12 CEMEX sack sand between the depths of 7.0 and 5.0 feet bgs. A 0.250-inch outside diameter (0.187-inch inside diameter) Teflon tube measuring 7.0 feet in length with a HDPE filter at the bottom of the tube was placed in the center of the borehole during placement of the sand so that the HDPE filter. Based on the shallow depth of groundwater encountered in the soil gas well boreholes the HDPE filter was placed at a depth of 5.5 feet bgs. The annular space above the sand was filled with hydrated bentonite to a height of 0.5 feet above the top of the sand, and the remaining borehole annular space was filled with neat cement to approximately 0.5 feet below the ground surface. The top of the tubing for each soil gas well was enclosed with a Swagelok nut and plug, and the top of each soil gas well was enclosed in a well box with a lid secured with bolts.

Following construction, the soil gas wells were not sampled for a minimum of 48 hours. Additionally, not more than 0.5 inches of precipitation occurred during the five days prior to the sampling dates of June 4 and 5, 2018, September 6, 2018, October 17 and 18, 2018 and December 15, 2018 (see Appendix C).

Soil gas samples were collected using a manifold that was enclosed in a shroud provided by the laboratory. A helium tracer gas was introduced and maintained at a concentration of approximately 20 percent in the shroud during soil gas well purging and sampling in accordance with procedures identified in Appendix B. A manifold in the shroud connected the soil gas well to a well purging source (vacuum pump) and to a sampling Summa canister. The manifold was isolated with valves from the soil gas well, the purging source, and from the sampling Summa canister. Different valves on the manifold were opened during different operations associated with purging and sampling. A flow restrictor located in the manifold limited air flow from the soil gas well into the manifold at a nominal rate of 150 cubic centimeters (cc) per minute. The calculated purge volume for the soil gas wells is provided in Appendix B. Vacuum gages in the manifold on each of the soil gas side of the flow restrictor and on the sampling Summa canister side of the flow restrictor allowed vacuum to be monitored in the soil gas well and in the manifold during soil gas sample collection. An opening in the bottom of the shroud allowed the shroud to cover the soil gas well while still allowing access to the soil gas well through the bottom of the shroud.

The soil gas samples collected on June 4 and 5, 2018, September 6, 2018, and October 17 and 18, 2018 were collected in accordance with the following documents.

- July 2015 DTSC Active Soil Gas Investigations Advisory Appendix C Quantitative Leak Testing Using a Tracer Gas.
- September 2017 Enthalpy Analytical Field Guide for Use of the Helium Shrouds (see Appendix B).

The soil gas samples collected on December 10 and 15, 2018 were collected in accordance with the following documents.

- July 2015 DTSC Active Soil Gas Investigations Advisory Appendix C Quantitative Leak Testing Using a Tracer Gas.
- Standard Operating Procedures: MAI Helium Shroud During Soil Gas Sampling for Quantitative Leak Detection (see Appendix B).

The soil gas samples were collected in the following manner. A new shroud with a new soil gas sampling manifold with a 1-liter Summa sampling canister for each location was assembled in the shroud. At the time that the sampling manifold was assembled, the vacuum for the sample canister was verified with a vacuum gauge and recorded. Duplicate samples were collected on each of the three sample collection events in a shroud with a manifold that was constructed for the simultaneous collection of two soil gas samples in the same shroud.

Because the laboratory provided pre-assembled manifolds in shrouds with a vacuum for the June 4 and 5, 2018, September 6, 2018, and October 17 and 18, 2018 soil gas sampling events, it was not necessary to perform a shut in test prior to soil gas sampling. Shut in tests were performed for the manifold and sampling Summa assemblies for the December 10 and 15, 2018 sampling event. Following review of the manifold vacuum gage to verify that no unacceptable leaks were present in the manifold, a helium tracer gas was introduced into the shroud at a concentration of approximately 20 percent beginning a minimum of 5 minutes before purging the soil gas well. A default of three purge volumes of the tubing and filter pack were purged prior to sample collection. The purge time was calculated using a nominal flow rate provided by the manifold flow controller of 150 cc per minute. The shroud tracer gas concentration was monitored with a continuously operating helium detector and maintained at a concentration of approximately 20 percent and recorded during purging for the June 4 and 5, 2018, September 6, 2018, and October 17 and 18, 2018 soil gas sampling events. The shroud helium concentration was periodically monitored during the December 10 and 15, 2018 soil gas sampling event by using a syringe to draw shroud air through a helium detector .

An in-line helium detector located between the shroud and the vacuum source used for purging was monitored and recorded during purging to determine if the helium tracer gas was detected in the manifold during purging. No elevated helium concentrations were detected during purging, indicating that no leaks were detected during the purging process.

Following the completion of the soil gas well purging, the valve to the purge source was closed and the valve to the 1-liter Summa canister was opened for sample collection. The shroud tracer gas concentration was maintained at a concentration of approximately 20 percent and monitored as described above. Once the vacuum for the sample canister valve had decreased to 5 inches of mercury, the sample canister valve was closed. The pressure gage on the inlet side of the flow controller was monitored during sample collection to ensure that the vacuum applied to the soil gas well did not exceed 100 inches of water column. Vacuum did not exceed 100 inches of water column at any of the locations where soil gas samples were collected. During the June 4 and 5, 2018 soil gas sampling event the process was then repeated for soil gas sample collection using a second 1-liter Summa canister with the second soil gas sample identified by the soil gas well number followed by the letters REP based on the laboratory requiring a replicate sample for nitrogen analysis.

Following soil gas sample collection, a PID was connected to the soil gas well tubing to obtain a preliminary field value for the sample collection location. The soil gas Summa canister samples were stored in a box and promptly shipped to the laboratory for extraction and analysis. Chain of custody procedures were observed for all sample handling. Because of the presence of water in soil gas wells, soil gas samples were not collected at locations SG4 and SG5 during the June 4 and 5, 2018 soil gas sampling event, and were not collected from locations SG10, SG11, and SG19 during the December 10 and 15, 2018 soil gas sampling event. Measurements of vacuums, purging and equilibration time intervals, helium shroud concentrations, in-line helium detector readings during purging, and PID readings following soil gas sample collection were recorded on Soil Gas Sampling Data Sheets (see Appendix B).

All hand augering equipment was cleaned with an Alconox solution wash followed by a clean water rinse prior to use at each location. New Teflon tubing and a new filter were used for construction of each soil gas well. Clean, unused vacuum gages and a stainless steel sampling manifold were used at each sample collection location. All soil and rinse water generated during soil gas well construction was stored in 55-gallon drums at the site and labeled pending characterization and proper disposal.

Investigation-Derived Waste

All soil and rinse water generated during subsurface investigation was stored in labeled 55-gallon drums at the site pending characterization and proper disposal.

GEOLOGY AND HYDROGEOLOGY

Review of regional geologic maps from U. S. Geological Survey Professional Paper 943, "Flatland Deposits - Their Geology and Engineering Properties and Their Importance to Comprehensive Planning," by E. J. Helley and K. R. Lajoie, 1979, indicates that the subject site is underlain by Pleistocene beach and dune sand deposits (Merrit Sand) (Qps), which is described as loose well-sorted fine to medium sand. Immediately to the west of the western property boundary the subsurface materials are identified as Bay Mud (Qhbm), which is described as unconsolidated water-saturated dark plastic carbonaceous clay and silty clay.

The subsurface materials encountered in boreholes S1 through S9, GW3 through GW11, and SG4 through SG20 consisted of silty sand and silty clayey sand to the maximum depths explored of 11.5 feet bgs. Geologic cross sections for the site are provided in P&D’s March 23, 2018 Limited Subsurface Investigation Work Plan (document 0772.W2).

Groundwater was not encountered during drilling in boreholes S1 through S9 or during hand augering boreholes SG4, SG5, SG8, SG9, and SG15 through SG20. Groundwater was first encountered during hand augering in boreholes GW3, GW4, GW5, GW6, GW7, GW8, GW9, GW10, and GW11 at depths of 9.5, 9.5, 9.5, 11.0, 8.5, 9.0, 9.0, 9.0, and 9.0 feet bgs, respectively. Groundwater was not encountered during hand augering in soil gas well boreholes SG4, SG5, and SG8 through SG14, and was encountered during hand augering in soil gas well boreholes SG6, SG6A, and SG7 at depths of 6.7, 5.0, and 6.8 feet bgs, respectively. The shallowest depth at which groundwater was subsequently encountered in boreholes GW3, GW4, GW5, GW6, GW7, GW8, GW9, GW10, and GW11 was at depths of 6.3, 7.0, 6.7, 6.9, 6.8, 6.8, 6.9, 9.0, and 9.4 feet bgs, respectively. The shallowest depth at which groundwater was subsequently encountered in soil gas well boreholes SG4, SG5, SG6, SG6A (no soil gas well was constructed in borehole SG6A), SG7, SG8 and SG9 was 5.5, 5.4, 5.9, 5.7, 5.6, 6.1 and 6.1 feet bgs, respectively.

Review of Figure 1 shows that the ground surface elevation at the site is approximately 11 feet above sea level. The San Francisco Bay is located approximately 3,800 feet to the north and approximately 5,500 feet to the west of the subject site, and the Oakland Inner Harbor which is connected to the San Francisco Bay is located approximately 5,500 feet to the south of the subject site. Based on site vicinity topography and the proximity of surface water bodies the groundwater flow direction at the site is presumed to be westerly towards the San Francisco Bay.

WEATHER

No precipitation total exceeding 0.5 inches occurred for the 5 days preceding any of the soil gas sampling events or occurred on the days of any of the soil gas sampling events.

Weather data, including precipitation and barometric pressure for May 21 through June 20, 2018, August 23 through September 20, 2018, October 3 through November 1, 2018, and December 1 through 29, 2018, including the dates of soil gas sample collection, are provided in Appendix C.

The weather station is located north of the intersection of Marshall Street and Peabody Lane in Oakland at an elevation of 36 feet above sea level, approximately 2.7 miles to the north-northeast of the subject site. The subject site is located at an elevation of approximately 11 feet above sea level. An internet link to the weather station information is provided in Appendix C.

LABORATORY ANALYSIS

All of the soil and groundwater samples were analyzed at McCampbell Analytical, Inc. (McCampbell) in Pittsburg, California.

The soil samples were analyzed for total lead using EPA Method 6020.

The groundwater samples were analyzed for the following analytes:

- Total Petroleum Hydrocarbons as Gasoline (TPH-G) using EPA Method 5030B in conjunction with EPA Methods 8021B and modified 8015B.
- Total Petroleum Hydrocarbons as Diesel (TPH-D), Total Petroleum Hydrocarbons as Motor Oil (TPH-MO), and Total Petroleum Hydrocarbons as Bunker Oil (TPH-BO) using EPA Method 3510C in conjunction with EPA Method 8015B.
- VOCs including the petroleum compounds methyl-tert-butyl ether (MTBE), benzene, toluene, ethylbenzene, and xylenes (MBTEX), and naphthalene, and Halogenated Volatile Organic Compounds (HVOCs) including tetrachloroethene (PCE) and trichloroethene (TCE) using EPA Method 5030B in conjunction with EPA Method 8260B.
- The groundwater samples collected from boreholes GW3 and GW4 were additionally analyzed for CAM 17 metals using EPA Method E200.8.

The soil gas samples collected on December 10 and 15, 2018 were analyzed at McCampbell for the following analytes:

- VOCs including the petroleum compounds MBTEX and naphthalene, and HVOCs including PCE and TCE using EPA TO-15.
- Oxygen, Carbon Dioxide, and the tracer gas Helium using ASTM D1946-90.

All of the other soil gas samples were analyzed at Enthalpy Analytical in Berkeley, California (Enthalpy) for the following analytes:

- VOCs, including BTEX, PCE, TCE, cis-1,2-Dichloroethene (cis-1,2-DCE) , trans-1,2-Dichloroethene (trans-1,2-DCE), and vinyl chloride using EPA Method TO-15.
- Oxygen, Carbon Dioxide, and the tracer gas Helium using ASTM D1946-90.

Additionally, the soil gas samples collected on June 4, 2018 were analyzed at Enthalpy for Gasoline Range Organics (C6-C12) using EPA Method TO-3, and for nitrogen using ASTM D1946-90.

The shallow soil sample laboratory analytical results are summarized in Table 1, the borehole groundwater sample laboratory analytical results for Petroleum and VOCs are summarized in Table 2A, the borehole groundwater sample laboratory analytical results for Metals are summarized in Table 2B, the soil gas sample HVOC analytical results are summarized in Table 3A and non-HVOC analyte results are summarized in Table 3B. Copies of the laboratory analytical reports and chain of custody documentation for all of the samples are attached with this report in Appendix D.

DISCUSSION AND RECOMMENDATIONS

All known historical lead soil sample results are shown on Figure 2. Review of Table 1 shows that below a depth of 0.5 feet bgs all of the detected lead concentrations from boreholes S1 through S9 were below the SFRWQCB January 2019 residential soil Environmental Screening Level (ESL) value for lead of 80 milligrams per kilogram (mg/kg). Review of the boring logs in Appendix A for borings S1 through S9 shows that the elevated lead concentrations are limited to dark brown material that overlies brown silty sand.

Review of Table 2A shows that TPH-G, TPH-D, TPH-MO, TPH-BO, and VOCs were not detected in any of the groundwater samples from boreholes GW3 through GW11 with the following exceptions:

- TCE in sample GW5 at a concentration of 3.4 micrograms per Liter (ug/L).
- MTBE in sample GW7 at a concentration of 3.9 ug/L.
- PCE in sample GW10 at a concentration of 5.1 ug/L.
- TPH-D and TCE in sample GW11 detected at concentrations of 76 and 9.3 ug/L, respectively.

Only the detected PCE concentration in sample GW10 and the TCE concentrations in samples GW5 and GW11 exceed their respective SFRWQCB January 2019 Tier 1 groundwater ESL values. Similarly, the same detected PCE and TCE concentrations in GW10 and GW11 exceed their respective SFRWQCB January 2019 Table GW-3 groundwater vapor intrusion human health risk screening levels for groundwater with a residential land use (see Figure 4). Figure 4 also shows all detected analytes from locations GW1 and GW2 that were sampled in 2017. Review of Figure 4 shows that the extent of PCE and TCE in groundwater has been defined. Figure 5 shows all detected VOC groundwater concentrations exceeding SFRWQCB January 2019 Tier 1 groundwater ESL values (none of the petroleum groundwater concentrations at location GW1 exceeded Tier 1 groundwater ESL values).

Review of Table 2B shows that none of the detected metals in groundwater samples GW3 and GW4 exceed their respective SFRWQCB January 2019 Table GW-1 Groundwater Direct Exposure Human Health Screening Level MCL values (see Figure 6). The historical water quality results for metals for samples that were collected in 1999 are not considered to be dissolved metals concentrations (the 1999 groundwater metals results appear to be total metals concentrations) and for this reason are not included on Figure 6.

Review of HVOC soil gas results in Table 3A and the non-HVOC soil gas results in Table 3B for soil gas samples collected from soil gas wells SG4 through SG20 in 2018 shows that the tracer gas helium was not detected in any of the soil gas samples with the exception of 1.1 percent detected in sample SG6 and duplicate SG6-DUP collected on October 17, 2018. The absence of helium in the soil gas samples indicates that atmospheric dilution of the soil gas samples is not a concern. The helium detected in the October 17, 2018 SG6 soil gas samples was equivalent to approximately 5.5 percent of the shroud helium concentration, indicating that these SG6 soil gas samples may have experienced atmospheric dilution. Samples were also collected at location SG6 on June 4, 2018 that did not have detectable tracer gas concentrations, and location SG6 is also surrounded by soil gas wells where soil gas samples were collected that did not have detectable tracer gas concentrations.

Review of Table 3B shows that oxygen was detected in all of the soil gas samples at concentrations ranging from 9.7 to 18 percent. Review of Tables 3A and 3B shows that the only analytes detected in soil gas at concentrations exceeding their respective SFRWQCB January 2019 Tier 1 soil gas ESL values were PCE, TCE and chloroform at the following locations:

- PCE at locations SG2, SG3, SG4, SG6, SG7, SG9, SG10, SG11 and SG12.
- TCE at locations SG2, SG5, and SG6.
- Chloroform at location SG17.

The source of the chloroform is unknown, and is assumed to be related to domestic water supply.

PCE soil gas sample results are shown in Figure 7 and TCE soil gas sample results are shown in Figure 8. Review of Figures 7 and 8 shows that the extent of PCE and TCE in soil gas has been defined for the subject site.

Based on the sample results P&D recommends that a Corrective Action Plan be prepared for development of the site for residential use.

DISTRIBUTION

A copy of this report will be uploaded to GeoTracker.

LIMITATIONS

This report was prepared solely for the use of Urban Designs, LLC. The content and conclusions provided by P&D in this assessment are based on information collected during our investigation, which may include, but not be limited to, visual site inspections; interviews with site owner, regulatory agencies and other pertinent individuals; review of available public documents; subsurface exploration and our professional judgment based on said information at the time of preparation of this document. Any subsurface sample results and observations presented herein are considered to be representative of the area of investigation; however, geological conditions may vary between boreholes and may not necessarily apply to the general site as a whole. If future subsurface or other conditions are revealed which vary from these findings, the newly revealed conditions must be evaluated and may invalidate the findings of this report.

This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information contained herein is brought to the attention of the appropriate regulatory agencies, where required by law. Additionally, it is the sole responsibility of the owner to properly dispose of any hazardous materials or hazardous wastes left onsite, in accordance with existing laws and regulations.

This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. P&D is not responsible for the accuracy or completeness of information provided by other individuals or entities which is used in this report. This report presents our professional judgment based upon data and findings identified in this report and interpretation of such data based upon our experience and background, and no warranty, either express or implied, is made. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur.

Should you have any questions, please do not hesitate to contact us at (510) 658-6916.

Sincerely,

P&D Environmental, Inc.

Paul H. King

Paul H. King
Professional Geologist # 5901
Expires: 12/31/19

PROFESSIONAL GEOLOGIST
PAUL H. KING
No. 5901
STATE OF CALIFORNIA

Attachments:

Table 1 - Summary of Shallow Soil Sample Analytical Results
Table 2A - Summary of Borehole Groundwater Sample Analytical Results - Petroleum and VOCs
Table 2B - Summary of Borehole Groundwater Sample Analytical Results – Dissolved Metals
Table 3A - Summary of Soil Gas Sample Analytical Results - HVOCs
Table 3B - Summary of Soil Gas Sample Analytical Results - Non-HVOCs

Figure 1 - Site Location Map
Figure 2 - Site Aerial Photograph Showing Lead Concentrations in Historical Soil Samples
Figure 3 - Site Aerial Photograph Showing Lead Concentrations in Current Investigation Soil Samples
Figure 4 - Site Aerial Photograph Showing All Detected Petroleum and VOC Concentrations in Groundwater
Figure 5 - Site Aerial Photograph Showing All Detected VOC Concentrations in Groundwater Exceeding Tier 1 Screening Levels
Figure 6 - Site Aerial Photograph Showing All Detected Metals Concentrations in Groundwater
Figure 7 - Site Aerial Photograph Showing PCE in Soil Gas
Figure 8 - Site Aerial Photograph Showing TCE in Soil Gas

Appendix A - Soil Boring Logs
Appendix B - Enthalpy Analytical Field Guide for Use of the Helium Shrouds, Standard Operating Procedures: MAI Helium Shroud During Soil Gas Sampling for Quantitative Leak Detection, Purge Volume Calculations, and Soil Gas Sampling Data Sheets
Appendix C - Weather Information
Appendix D - Laboratory Analytical Reports and Chain of Custody Documentation

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TABLES

Table 1
Summary of Shallow Soil Sample Analytical Results

Sample ID	Sample Collection Date	Sample Collection Depth (ft bgs)	Total Lead
S1-0.5	6/1/2018	0.5	**1,300**
S1-1.0	6/1/2018	1.0	34
S1-2.0	6/1/2018	2.0	2.6
S1-3.0	6/1/2018	3.0	2.2
S2-0.5	6/1/2018	0.5	70
S2-1.0	6/1/2018	1.0	37
S2-2.0	6/1/2018	2.0	9.1
S2-3.0	6/1/2018	3.0	4.9
S3-0.5	6/1/2018	0.5	**2,400**
S3-1.0	6/1/2018	1.0	14
S3-2.0	6/1/2018	2.0	3.5
S3-3.0	6/1/2018	3.0	2.3
S4-0.5	6/1/2018	0.5	**310**
S4-1.0	6/1/2018	1.0	7.9
S4-2.0	6/1/2018	2.0	2.1
S4-3.0	6/1/2018	3.0	2.0
S5-0.5	6/1/2018	0.5	6.0
S5-1.0	6/1/2018	1.0	2.3
S5-2.0	6/1/2018	2.0	2.4
S5-3.0	6/1/2018	3.0	1.9
S6-0.5	6/1/2018	0.5	75
S6-1.0	6/1/2018	1.0	10
S6-2.0	6/1/2018	2.0	5.5
S6-3.0	6/1/2018	3.0	3.9
S7-0.5	6/1/2018	0.5	70
S7-1.0	6/1/2018	1.0	14

Table 1
Summary of Shallow Soil Sample Analytical Results

Sample ID	Sample Collection Date	Sample Collection Depth (ft bgs)	Total Lead
S7-2.0	6/1/2018	2.0	39
S7-3.0	6/1/2018	3.0	3.3
S8-0.5	6/1/2018	0.5	**410**
S8-1.0	6/1/2018	1.0	2.2
S8-2.0	6/1/2018	2.0	2.4
S8-3.0	6/1/2018	3.0	2.1
S9-0.5	6/1/2018	0.5	64
S9-1.0	6/1/2018	1.0	2.8
S9-2.0	6/1/2018	2.0	2.4
S9-3.0	6/1/2018	3.0	1.9
ESL	Soil Residential ESL		80

NOTES:

ft bgs = feet below ground surface.

ND = Not detected.

ESL = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated January 2019, from Table S-1: Soil Direct Exposure Human Health Risk Screening Levels.

Results in bold exceed their respective ESL values.

Results and ESL values reported in milligrams per kilogram (mg/kg),

Table 2A
Summary of Borehole Groundwater Sample Analytical Results - Petroleum and VOCs

Sample ID	Sample Collection Date	TPH-G	TPH-D	TPH-MO	TPH-BO	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	PCE	TCE	Other VOCs by EPA Method 8260B
GW1	8/10/2017	ND<50	63, a,b	120, a,b	130, a,b	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND
GW2	8/11/2017	ND<50	ND<38	ND<82	ND<110	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**2.1**	ND<0.50	All ND
GW3	5/31/2018	ND<50	ND<50	ND<250	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND
GW4	5/31/2018	ND<50	ND<50	ND<250	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND
GW5	5/31/2018	ND<50	ND<50	ND<250	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**3.4**	All ND
GW6	5/31/2018	ND<50	ND<50	ND<250	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND
GW7	5/31/2018	ND<50	ND<50	ND<250	ND<250	3.9	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND
GW8	5/31/2018	ND<50	ND<50	ND<250	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND
GW9	5/31/2018	ND<50	ND<50	ND<250	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND
GW10	10/13/2018	ND<50	ND<50	ND<250	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**5.1**	ND<0.50	All ND
GW11	10/13/2018	ND<50	76, a	ND<250	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**9.3**	All ND
ESL^1		100	100	No Value	No Value	5.0	0.42	40	3.5	20	0.64	1.2	Various
ESL^2		No Value	No Value	No Value	No Value	450	0.42	No Value	3.5	No Value	0.64	1.2	Various
ESL^3		No Value	No Value	No Value	No Value	130,000	14	1,200	3,300	390	58	5.2	Various

NOTES:
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
TPH-D = Total Petroleum Hydrocarbons as Diesel.
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil.
TPH-BO = Total Petroleum Hydrocarbons as Bunker Oil.
MTBE = Methyl tertiary-butyl ether.
VOCs = Volatile Organic Compounds.
PCE = Tetrachloroethene.
TCE = Trichloroethene.
cis-1,2-DCE = cis-1,2-Dichloroethene.
1,1-DCA = 1,1-Dichloroethane.
1,1-DCE = 1,1-Dichloroethene.
1,1,1-TCA = 1,1,1-Trichloroethane.
ft bgs = feet below ground surface.
ND = Not detected.
a = Laboratory Note: Diesel range compounds are significant; no recognizable pattern.
ESL^1 = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated January 2019, from Summary of Groundwater ESLs, GW Tier 1 ESL.
ESL^2 = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated January 2019, from Table GW-3 – Groundwater Vapor Intrusion Human Health Risk Screening Levels. Residential Land Use. Cancer Risk.
ESL^3 = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated January 2019, from Table GW-3 – Groundwater Vapor Intrusion Human Health Risk Screening Levels. Residential Land Use. Non-Cancer Hazard.
Results in bold exceed their respective ESL^1 values.
Underlined results exceed their respective ESL^2 values.
Italicized results exceed their respective ESL^3 values.
Results and ESL values, reported in micrograms per Liter (µg/L), unless otherwise indicated.

Table 2B
Summary of Borehole Groundwater Sample Analytical Results - Dissolved Metals

Sample ID	Sample Collection Date	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
GW3	5/31/2018	ND<0.50	ND<0.50	54	ND<0.50	ND<0.25	2.0	1.3	ND<2.0	ND<0.50	ND<0.050	ND<0.50	3.4	ND<0.50	ND<0.19	ND<0.50	ND<0.50	ND<15
GW4	5/31/2018	ND<0.50	ND<0.50	140	ND<0.50	ND<0.25	3.3	6.8	ND<2.0	ND<0.50	ND<0.050	ND<0.50	15	ND<0.50	ND<0.19	ND<0.50	ND<0.50	28
ESL Basis		MCL	MCL	MCL	Aquatic Habitat	Aquatic Habitat	MCL	Aquatic Habitat	Aquatic Habitat	Aquatic Habitat	Aquatic Habitat	Tapwater Non-cancer	Aquatic Habitat	Aquatic Habitat	Aquatic Habitat	MCL	Aquatic Habitat	Aquatic Habitat
ESL	Groundwater MCL	6.0	10	1,000	4.0	5.0	50	6.0	1,000	15	2.0	100	100	50	100	2.0	50	5,000

NOTES:

Sb = Antimony; As = Arsenic; Ba = Barium; Be = Beryllium; Cd = Cadmium; Cr = Chromium; Co = Cobalt; Cu = Copper; Pb = Lead; Hg = Mercury; Mo = Molybdenum;

Ni = Nickel; Se = Selenium; Ag = Silver; Tl = Thallium; V = Vanadium; Zn = Zinc

ft bgs = feet below ground surface.

ND = Not detected.

-- = Not analyzed.

ESL = Environmental Screening Level. Final MCL Priority Screening Level, by San Francisco Bay Regional Water Quality Control Board, updated January 2019, from Table GW-1: Groundwater Direct Exposure Human Health Risk Screening Levels.

There is no MCL for Vanadium, and the Tapwater Non-cancer Hazard Screeening Level is used.

Results and ESL values reported in micrograms per liter (ug/L), unless otherwise indicated.

Table 3A
Summary of Soil Gas Sample Analytical Results - HVOCs

Sample ID	Land Use	Sample Date	Probe Depth (Feet bgs)	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Trichlorofluoromethane	Dichlorodifluoromethane	Methylene Chloride	1,1,1-TCA	DFA (Tracer Gas)	Percent Shroud (DFA)	Helium (Tracer Gas) (%)	Percent Shroud (Helium)
SG1	Residential	8/14/2017	5.5	ND<6.78	ND<5.37	ND<3.97	NR	ND<2.56	**82.5**	16.3	ND<4.95	ND<3.47	ND<5.46	ND<27,014	0.0	NA	--
SG2	Residential	8/14/2017	5.5	**28.6**	**447**	ND<3.97	NR	ND<2.56	**132**	ND<5.62	ND<4.95	ND<3.47	ND<5.46	ND<27,014	0.0	NA	--
SG2 DUP	Residential	8/14/2017	5.5	**28.2**	**441**	ND<3.97	NR	ND<2.56	**128**	ND<5.62	ND<4.95	ND<3.47	ND<5.46	ND<27,014	0.0	NA	--
SG2	Residential	10/17/2018	6.5	**45**	**570**	ND<4.1	ND<4.1	ND<2.6	NR	NR	NR	NR	NR	NA	--	ND<0.21	0.0
SG3	Residential	8/14/2017	5.5	**42.6**	ND<5.37	ND<3.97	NR	ND<2.56	**14.8**	6.01	ND<4.95	4.27	21.3	ND<27,014	0.0	NA	--
SG4	Residential	9/6/2018	6.5	**4,000**	7.6	ND<4.2	ND<4.2	ND<2.7	ND<5.1	ND<5.9	NR	ND<3.6	ND<5.7	NA	--	ND<0.21	0.0
SG4	Residential	10/17/2018	6.5	**3,000**	ND<17	ND<13	ND<13	ND<8.2	NR	NR	NR	NR	NR	NA	--	ND<0.21	0.0
SG5	Residential	9/6/2018	6.5	7.2	**90**	ND<3.9	ND<3.9	ND<2.5	ND<4.8	ND<5.5	NR	ND<3.4	ND<5.4	NA	--	ND<0.20	0.0
SG5 DUP	Residential	9/6/2018	6.5	7.1	**90**	ND<3.8	ND<3.8	ND<2.5	ND<4.7	ND<5.4	NR	ND<3.4	ND<5.3	NA	--	ND<0.19	0.0
SG5	Residential	10/17/2018	6.5	9.8	**48**	ND<4.1	ND<4.1	ND<2.6	NR	NR	NR	NR	NR	NA	--	ND<0.21	0.0
SG6	Residential	6/4/2018	6.5	**35**	**2,600**	ND<12	ND<12	ND<8.0	NR	NR	NR	NR	NR	NA	--	ND<0.21	0.0
SG6-DUP	Residential	6/4/2018	6.5	**35**	**2,600**	ND<14	ND<14	ND<9.0	NR	NR	NR	NR	NR	NA	--	ND<0.23	0.0
SG6	Residential	10/17/2018	6.5	**29**	**2,100**	ND<8.3	ND<8.3	ND<5.3	NR	NR	NR	NR	NR	NA	--	1.1	5.5
SG6-DUP	Residential	10/17/2018	6.5	**30**	**2,100**	ND<8.1	ND<8.1	ND<5.2	NR	NR	NR	NR	NR	NA	--	1.1	5.5
SG7	Residential	6/4/2018	6.5	**36**	0.64, b	ND<4.5	ND<4.5	ND<2.9	NR	NR	NR	NR	NR	NA	--	ND<0.23	0.0
SG8	Residential	6/5/2018	6.5	4.5, b	ND<6.1	ND<4.5	ND<4.5	ND<2.9	NR	NR	NR	NR	NR	NA	--	ND<0.23	0.0
SG9	Residential	6/5/2018	6.5	**27**	0.23, b	ND<4.2	ND<4.2	ND<2.7	NR	NR	NR	NR	NR	NA	--	ND<0.21	0.0
SG10	Residential	10/18/2018	6.5	**810**	ND<5.0	ND<3.7	ND<3.7	ND<2.4	NR	NR	NR	NR	NR	NA	--	ND<0.19	0.0
SG11	Residential	10/18/2018	6.5	**1,100**	ND<5.6	ND<4.1	ND<4.1	ND<2.6	NR	NR	NR	NR	NR	NA	--	ND<0.21	0.0
SG12	Residential	10/18/2018	6.5	**280**	ND<3.8	ND<4.0	ND<4.0	ND<2.6	NR	NR	NR	NR	NR	NA	--	ND<0.20	0.0
SG13	Residential	10/18/2018	6.5	8.4	ND<4.9	ND<3.6	ND<3.6	ND<2.3	NR	NR	NR	NR	NR	NA	--	ND<0.18	0.0
SG14	Residential	10/18/2018	6.5	ND<6.9	ND<5.5	ND<4.0	ND<4.0	ND<2.6	NR	NR	NR	NR	NR	NA	--	ND<0.20	0.0
SG 15	Residential	12/15/2018	6.5	ND<3.4	ND<2.8	ND<2.0	ND<2.0	ND<1.3	ND<2.4	ND<2.8	ND<2.5	ND<8.8	ND<2.8	NA	--	ND<0.050	0.0
SG 16	Residential	12/15/2018	6.5	ND<3.4	ND<2.8	ND<2.0	ND<2.0	ND<1.3	ND<2.4	ND<2.8	ND<2.5	ND<8.8	ND<2.8	NA	--	ND<0.050	0.0
SG 17	Residential	12/15/2018	6.5	ND<3.4	ND<2.8	ND<2.0	ND<2.0	ND<1.3	**20**	ND<2.8	2.6	ND<8.8	ND<2.8	NA	--	ND<0.050	0.0
SG 18	Residential	12/10/2018	6.5	ND<3.4	ND<2.8	ND<2.0	ND<2.0	ND<1.3	ND<2.4	ND<2.8	ND<2.5	ND<8.8	ND<2.8	NA	--	ND<0.050	0.0
SG 20	Residential	12/15/2018	6.5	ND<3.4	ND<2.8	ND<2.0	ND<2.0	ND<1.3	ND<2.4	ND<2.8	ND<2.5	ND<8.8	ND<2.8	NA	--	ND<0.050	0.0
SG 20 DUP	Residential	12/15/2018	6.5	ND<3.4	ND<2.8	ND<2.0	ND<2.0	ND<1.3	ND<2.4	ND<2.8	ND<2.5	ND<8.8	ND<2.8	NA	--	ND<0.050	0.0
ESL				*15*	*16*	*280*	*2,800*	*0.32*	*4.1*	*No Value*	*No Value*	*34*	*35,000*	*No Value*	*No Value*	*No Value*	*No Value*

Notes:
Feet bgs = Feet Below Ground Surface.
PCE = Tetrachloroethene.
TCE = Trichloroethene.
cis-1,2-DCE = cis-1,2-Dichloroethene.
trans-1,2-DCE = trans-1,2-Dichloroethene.
NA = Not Analyzed.
ND = Not Detected.
NR = Not Reported.
-- = No Value.
b = Laboratory Note: Estimated Value.
ESL = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated January 2019, Soil Gas Tier 1 ESL from Summary of Vapor ESLs.
BOLDED concentrations exceed their respective ESL value.
Results and ESLs in micrograms per cubic meter (μg/m3), unless otherwise indicated.

Table 3B
Summary of Soil Gas Sample Analytical Results - Non-HVOCs

Sample ID	Land Use	Sample Date	Probe Depth (Feet bgs)	TPH-G	Benzene	Toluene	Ethyl-benzene	m,p-Xylenes	o-Xylenes	MEK	Carbon Disulfide	Hexane	DFA (Tracer Gas)	Percent Shroud (DFA)	Helium (Tracer Gas) (%)	Percent Shroud (Helium)	Carbon Dioxide (%)	Carbon Monoxide (%)	Oxygen (%)	Methane (%)
SG1	Residential	8/14/2017	5.5	NA	ND<3.19	4.11	ND<4.34	ND<8.68	ND<4.34	NR	NR	NR	ND<27,014	0.0	NA	--	NA	NA	NA	NA
SG2	Residential	8/14/2017	5.5	NA	ND<3.19	10.6	ND<4.34	ND<8.68	ND<4.34	NR	NR	NR	ND<27,014	0.0	NA	--	NA	NA	NA	NA
SG2 DUP	Residential	8/14/2017	5.5	NA	ND<3.19	10.4	ND<4.34	ND<8.68	ND<4.34	NR	NR	NR	ND<27,014	0.0	NA	--	NA	NA	NA	NA
SG2	Residential	10/17/2018	6.5	NA	ND<3.3	ND<3.9	ND<4.5	ND<4.5	ND<4.5	NR	NR	NR	NA	--	ND<0.21	0.0	1.9	ND<0.21	16	ND<0.21
SG3	Residential	8/14/2017	5.5	NA	ND<3.19	ND<3.77	ND<4.34	ND<8.68	ND<4.34	NR	NR	NR	ND<27,014	0.0	NA	--	NA	NA	NA	NA
SG4	Residential	9/6/2018	5.5	NA	ND<3.4	ND<4.0	ND<4.6	ND<4.6	ND<4.6	17	ND<3.3	ND<3.7	NA	--	ND<0.21	0.0	3.5	NA	15	NA
SG4	Residential	10/17/2018	5.5	NA	ND<10	ND<12	ND<14	ND<14	ND<14	NR	NR	NR	NA	--	ND<0.21	0.0	2.8	ND<0.21	15	ND<0.21
SG5	Residential	9/6/2018	5.5	NA	ND<3.1	ND<3.7	ND<4.3	ND<4.3	ND<4.3	ND<9.7	ND<3.1	ND<3.5	NA	--	ND<0.20	0.0	1.2	NA	17	NA
SG5 DUP	Residential	9/6/2018	5.5	NA	ND<3.1	ND<3.7	ND<4.2	ND<4.2	ND<4.2	ND<9.5	ND<3.0	ND<3.4	NA	--	ND<0.19	0.0	1.2	NA	17	NA
SG5	Residential	10/17/2018	5.5	NA	ND<3.3	ND<3.9	ND<4.5	ND<4.5	ND<4.5	NR	NR	NR	NA	--	ND<0.21	0.0	0.98	ND<0.21	17	ND<0.21
SG6	Residential	6/4/2018	5.5	580	0.64, b	3.2, b	1.2, b	4.9, b	2.9, b	NR	NR	NR	NA	--	ND<0.21	0.0	7.5	NA	9.9	ND<0.21
SG6-DUP	Residential	6/4/2018	5.5	770	0.54, b	2.3, b	1.1, b	5.0, b	2.9, b	NR	NR	NR	NA	--	ND<0.23	0.0	7.4	NA	9.7	ND<0.23
SG6	Residential	10/17/2018	5.5	NA	ND<6.7	ND<7.9	ND<9.1	ND<9.1	ND<9.1	NR	NR	NR	NA	--	1.1	5.5	8.1	ND<0.21	11	ND<0.21
SG6-DUP	Residential	10/17/2018	5.5	NA	ND<6.5	ND<7.7	ND<8.9	ND<8.9	ND<8.9	NR	NR	NR	NA	--	1.1	5.5	8.1	ND<0.20	11	ND<0.20
SG7	Residential	6/4/2018	5.5	110, b	0.16, b	0.42, b	ND<5.0	0.47, b	0.45, b	NR	NR	NR	NA	--	ND<0.23	0.0	2.9	NA	14	ND<0.23
SG8	Residential	6/5/2018	5.5	200, b	0.26, b	1.4, b	0.22, b	0.98, b	0.33, b	NR	NR	NR	NA	--	ND<0.23	0.0	3.3	NA	14	ND<0.23
SG9	Residential	6/5/2018	5.5	ND<440	ND<3.4	0.45, b	0.20, b	0.34, b	0.15, b	NR	NR	NR	NA	--	ND<0.21	0.0	2.3	NA	15	ND<0.21
SG10	Residential	10/18/2018	5.5	NA	ND<3.0	ND<3.5	ND<4.1	6.4	4.9	NR	NR	NR	NA	--	ND<0.19	0.0	2.2	ND<0.19	16	ND<0.19
SG11	Residential	10/18/2018	5.5	NA	ND<3.3.	ND<3.9	ND<4.5	ND<4.5	ND<4.5	NR	NR	NR	NA	--	ND<0.21	0.0	2.6	ND<0.21	15	ND<0.21
SG12	Residential	10/18/2018	5.5	NA	ND<3.3	ND<3.8	ND<4.4	ND<4.4	ND<4.4	NR	NR	NR	NA	--	ND<0.20	0.0	2.4	ND<0.20	15	ND<0.20
SG13	Residential	10/18/2018	5.5	NA	ND<2.9	ND<3.4	ND<3.9	ND<3.9	ND<3.9	NR	NR	NR	NA	--	ND<0.18	0.0	1.7	ND<0.18	16	ND<0.18
SG14	Residential	10/18/2018	5.5	NA	**6.9**	ND<3.8	ND<4.4	ND<4.4	ND<4.4	NR	NR	NR	NA	--	ND<0.20	0.0	2.8	ND<0.20	10	0.82
SG 15	Residential	12/15/2018	5.5	NA	ND<1.6	ND<1.9	ND<2.2	ND<4.4	ND<2.2	ND<75	4.2	ND<18	NA	--	ND<0.050	0.0	5.1	NA	15	NA
SG 16	Residential	12/15/2018	5.5	NA	ND<1.6	ND<1.9	ND<2.2	ND<4.4	ND<2.2	ND<75	ND<1.6	ND<18	NA	--	ND<0.050	0.0	0.82	NA	18	NA
SG 17	Residential	12/15/2018	5.5	NA	ND<1.6	ND<1.9	ND<2.2	ND<4.4	ND<2.2	ND<75	ND<1.6	60	NA	--	ND<0.050	0.0	0.99	NA	17	NA
SG 18	Residential	12/10/2018	5.5	NA	ND<1.6	ND<1.9	ND<2.2	ND<4.4	ND<2.2	ND<75	ND<1.6	ND<18	NA	--	ND<0.050	0.0	8.3	NA	14	NA
SG 20	Residential	12/15/2018	5.5	NA	ND<1.6	ND<1.9	ND<2.2	ND<4.4	ND<2.2	ND<75	4.2	ND<18	NA	--	ND<0.050	0.0	2.6	NA	18	NA
SG 20 DUP	Residential	12/15/2018	5.5	NA	ND<1.6	ND<1.9	ND<2.2	ND<4.4	ND<2.2	ND<75	4.2	ND<18	NA	--	ND<0.050	0.0	2.5	NA	18	NA
ESL				*3,300*	*3.2*	*10,000*	*37*	*Combined = 3,500*		*170,000*	*No Value*	*No Value*	*No Value*	*No Value*	*No Value*	*No Value*	*No Value*	*No Value*	*No Value*	*No Value*

<u>Notes:</u>
Feet bgs = Feet Below Ground Surface.
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
MEK = Methyl Ethyl Ketone (2-Butanone).
NA = Not Analyzed.
ND = Not Detected.
NR = Not Reported.
-- = No Value.
b = Laboratory Note: Estimated Value.
ESL= Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated January 2019, Soil Gas Tier 1 ESL from Summary of Vapor ESLs.
BOLDED concentrations exceed their respective ESL value.
Results and ESLs in micrograms per cubic meter (µg/m3), unless otherwise indicated.

FIGURES

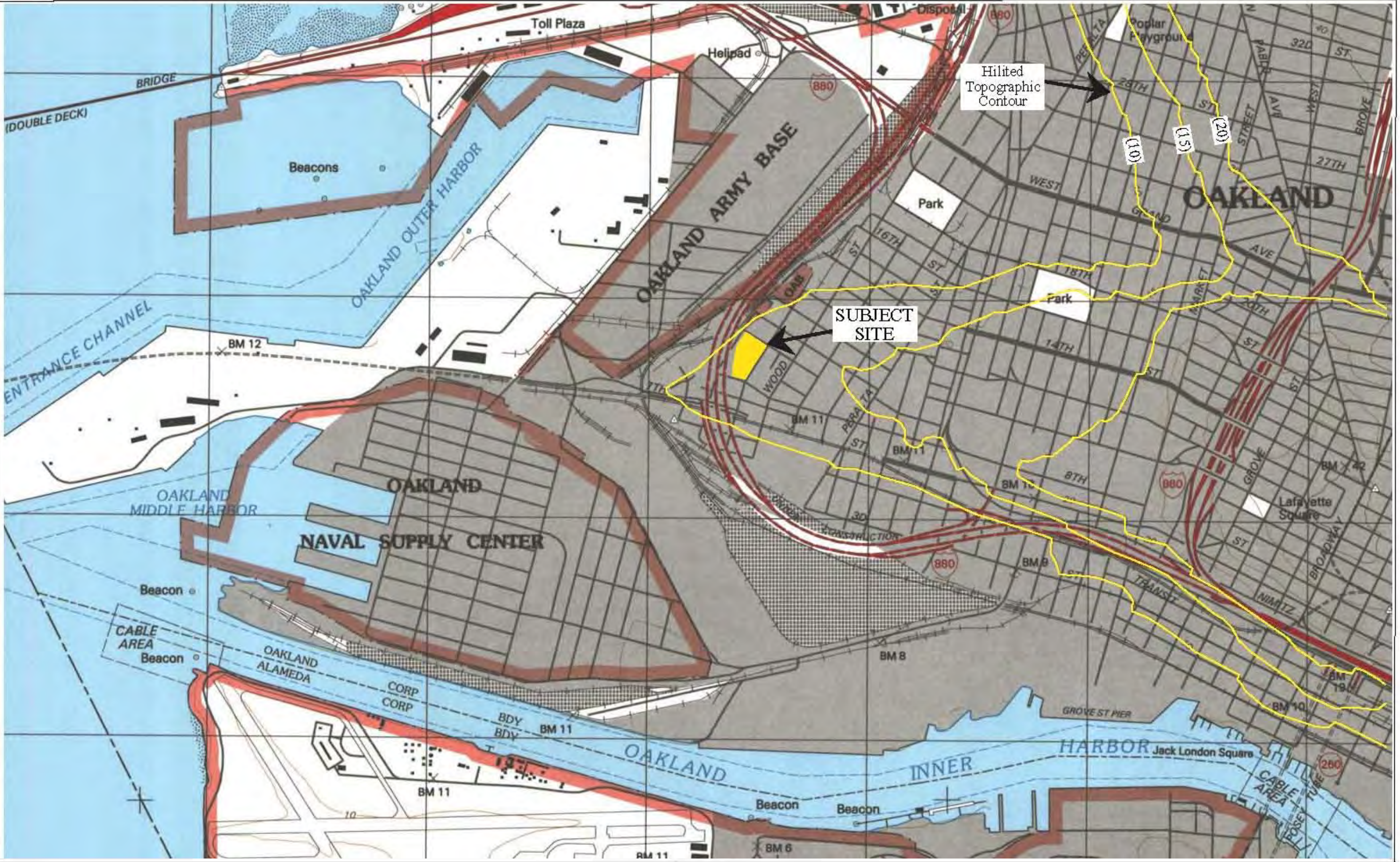


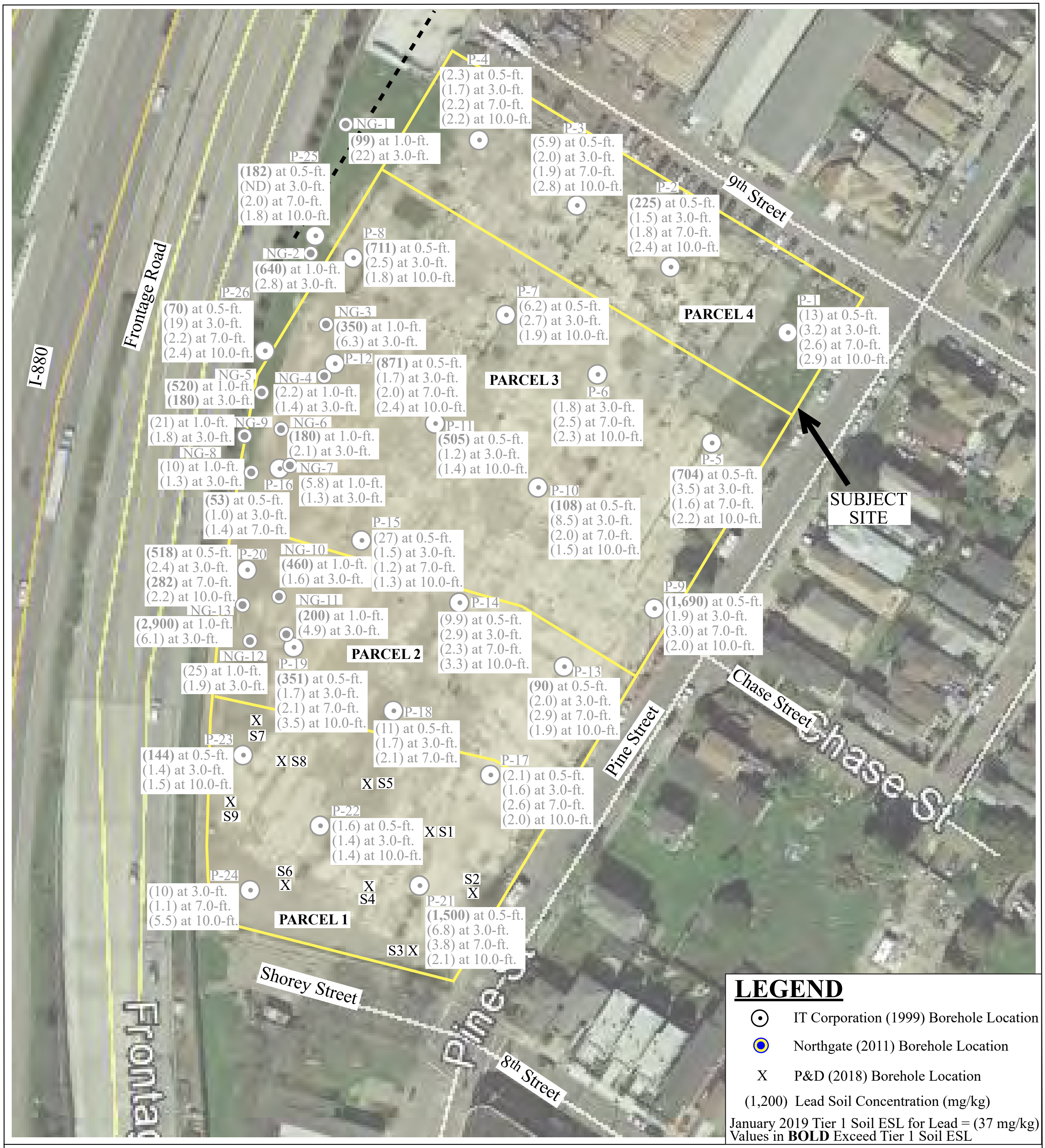
Figure 1
Site Location Map
The Phoenix
801 Pine Street
Oakland, California

Base Map from:
U.S. Geological Survey 7.5-Minute Quadrangle, Oakland West, California, Map edited 1993

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 1,000 2,000
Approximate Scale in Feet

N



LEGEND

⊙ IT Corporation (1999) Borehole Location

● Northgate (2011) Borehole Location

X P&D (2018) Borehole Location

(1,200) Lead Soil Concentration (mg/kg)

January 2019 Tier 1 Soil ESL for Lead = (37 mg/kg)
Values in **BOLD** Exceed Tier 1 Soil ESL

Figure 2
Site Aerial Photograph Showing Lead Concentrations In Historical Soil Samples
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

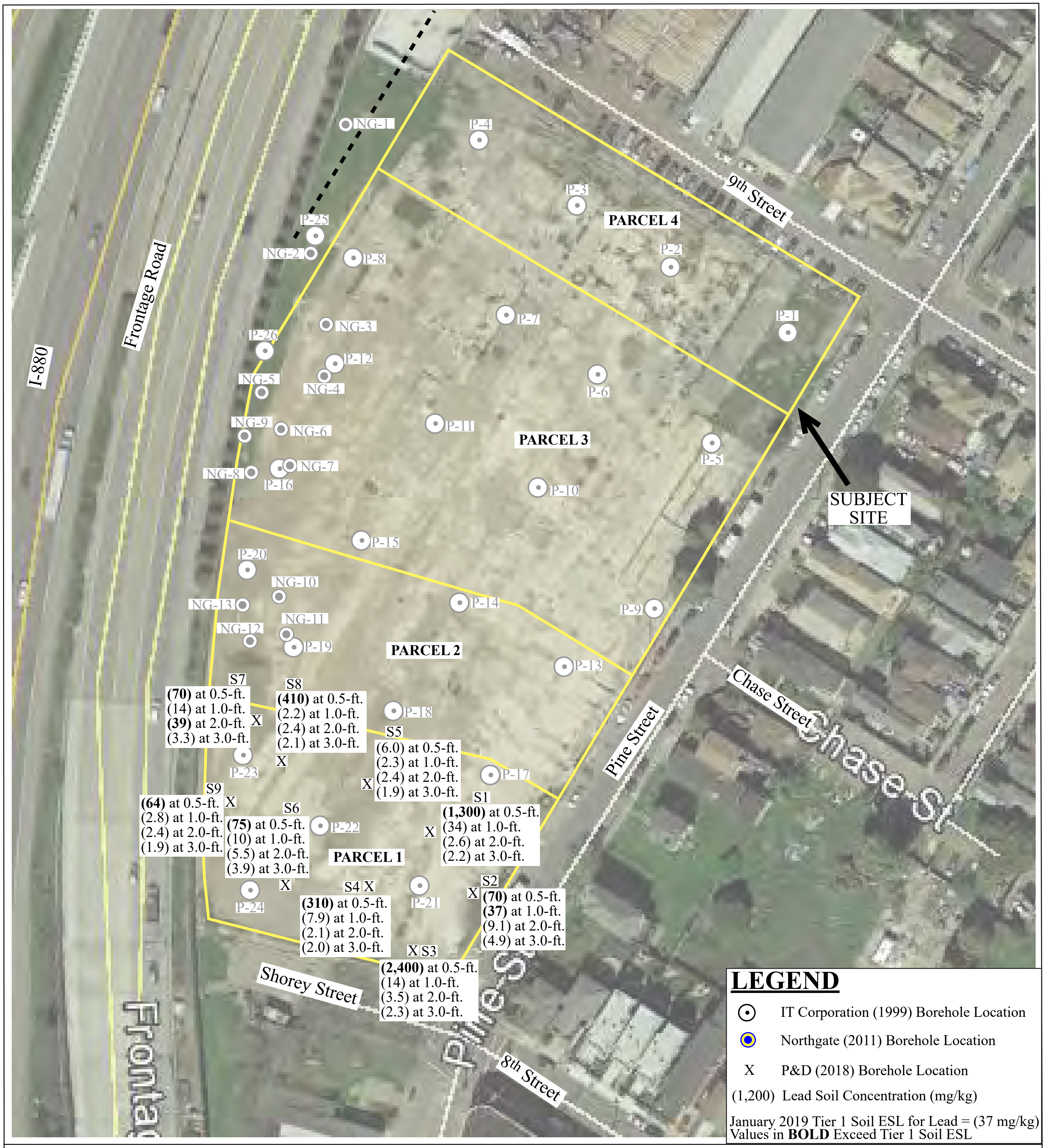


Figure 3
Site Aerial Photograph Showing Lead Concentrations In Current Investigation Soil Samples
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

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55 Santa Clara Ave., Suite 240
Oakland, CA 94610

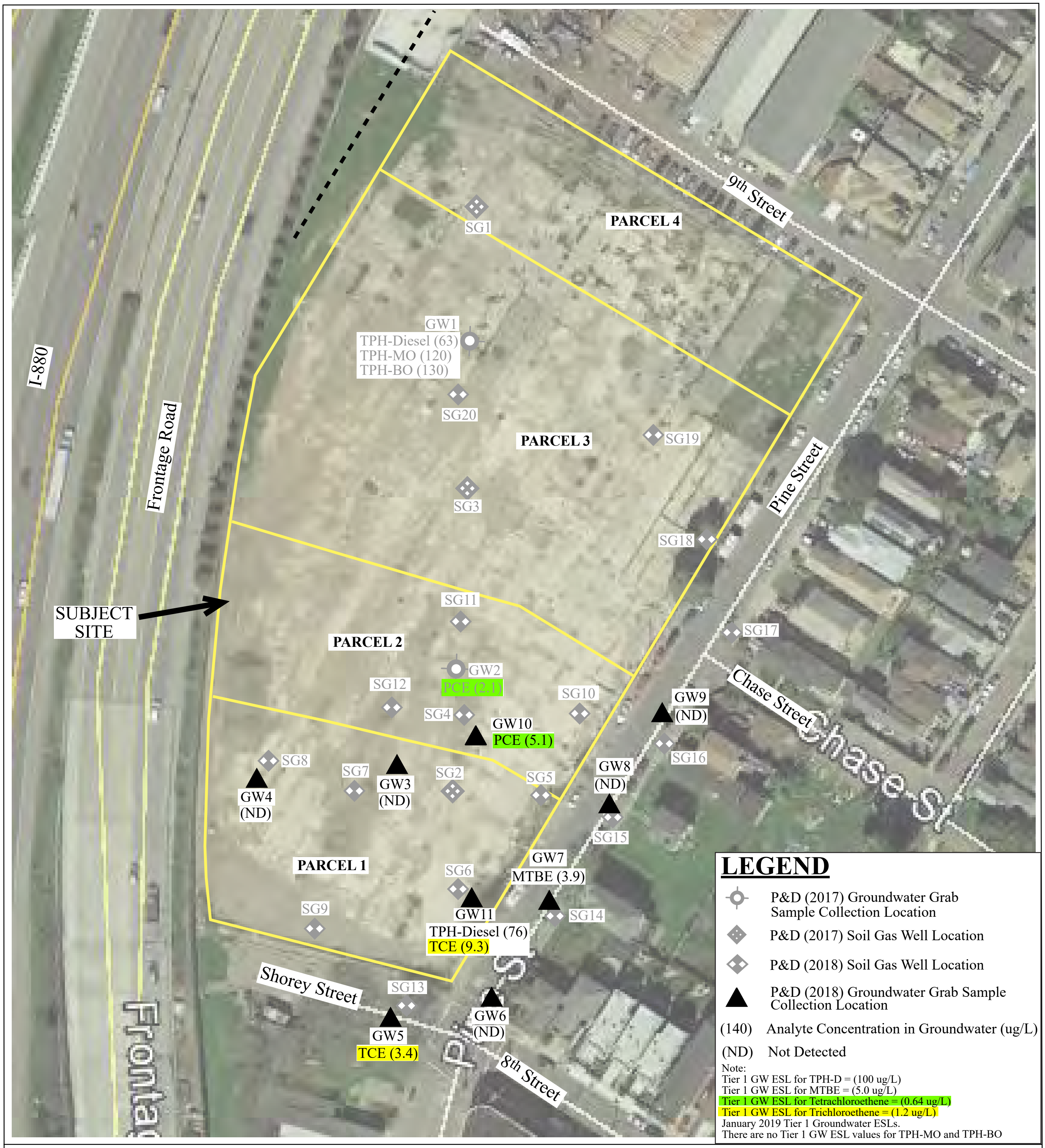

Figure 4
Site Aerial Photograph Showing All Detected Petroleum and VOC Concentrations In Groundwater
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 50 100
Approximate Scale in Feet

N

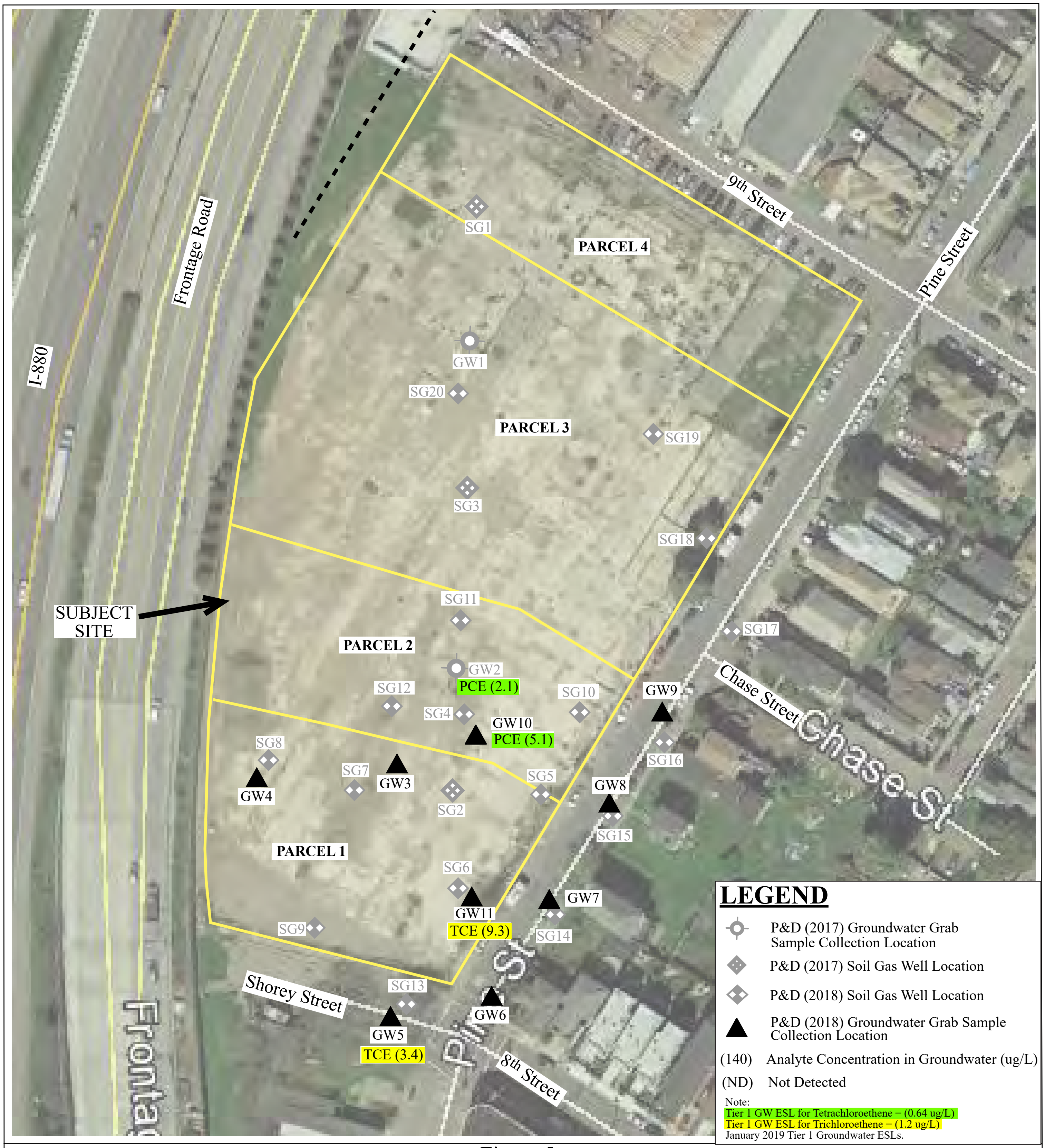

Figure 5
Site Aerial Photograph Showing All Detected VOC Concentrations
In Groundwater Exceeding Tier 1 Screening Levels
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

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Oakland, CA 94610

0 50 100
Approximate Scale in Feet

N

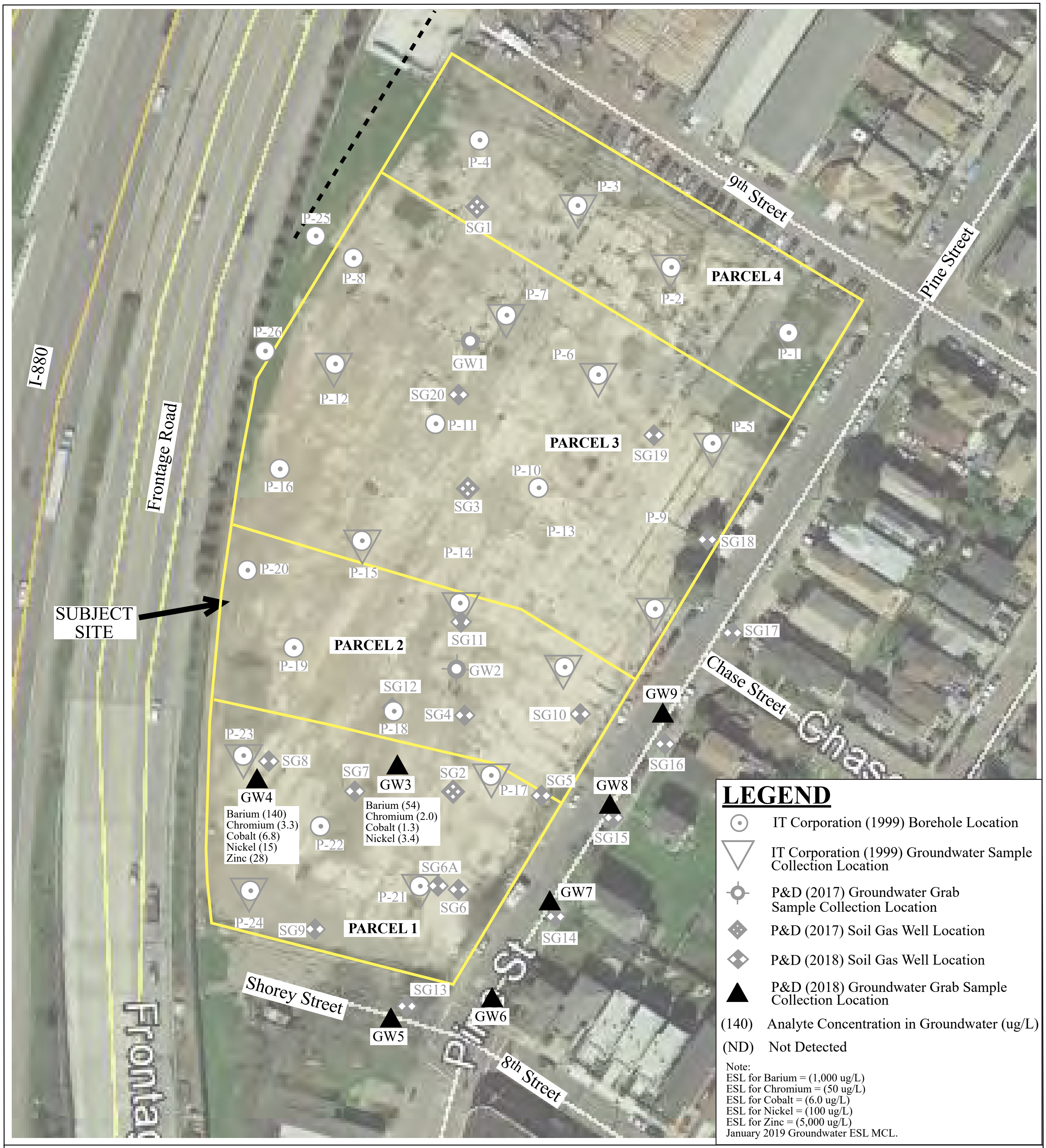

Figure 6
Site Aerial Photograph Showing All Detected Metals Concentrations In Groundwater
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

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Oakland, CA 94610

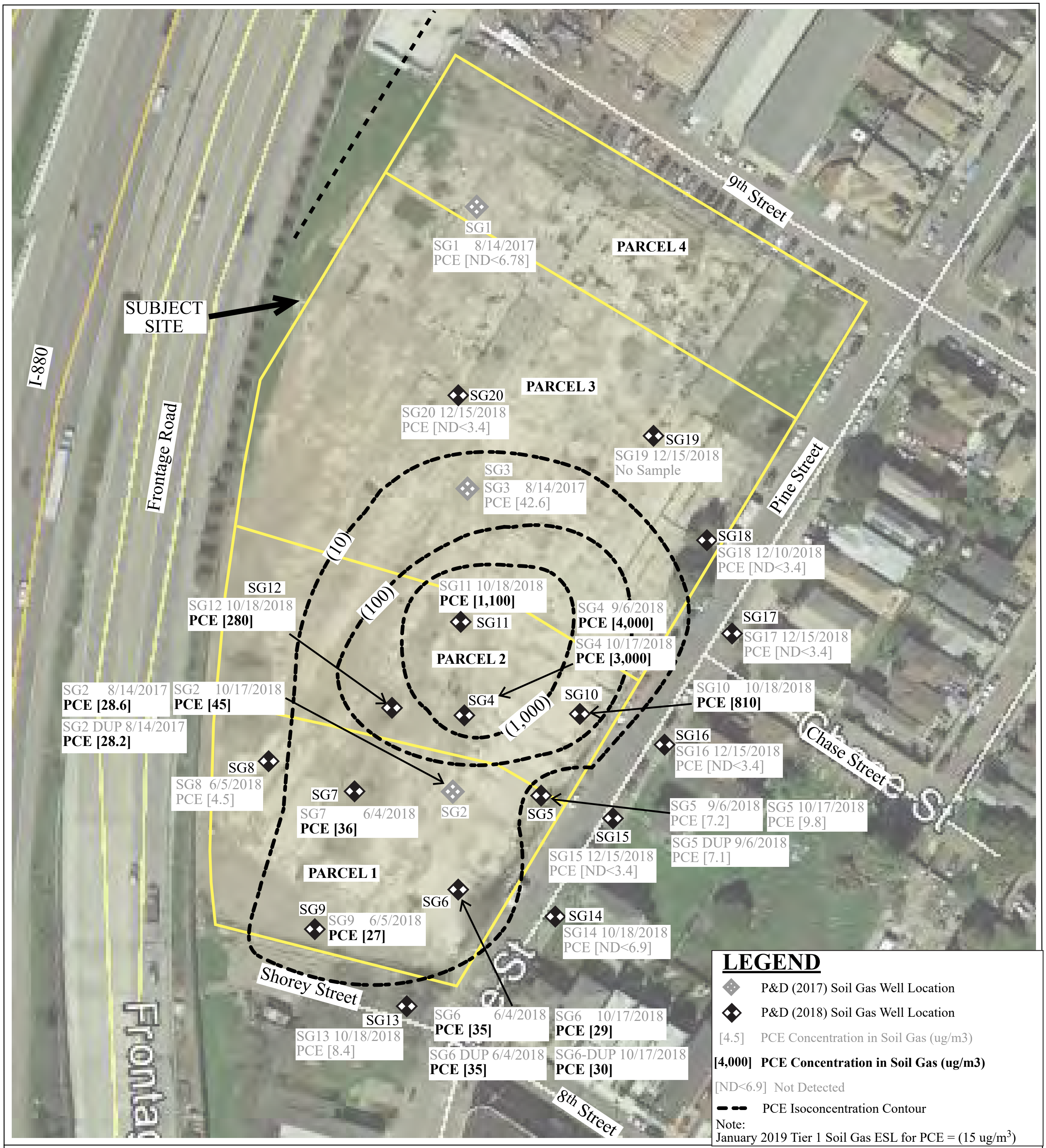


Figure 7
Site Aerial Photograph Showing PCE in Soil Gas
The Phoenix
800 Cedar Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

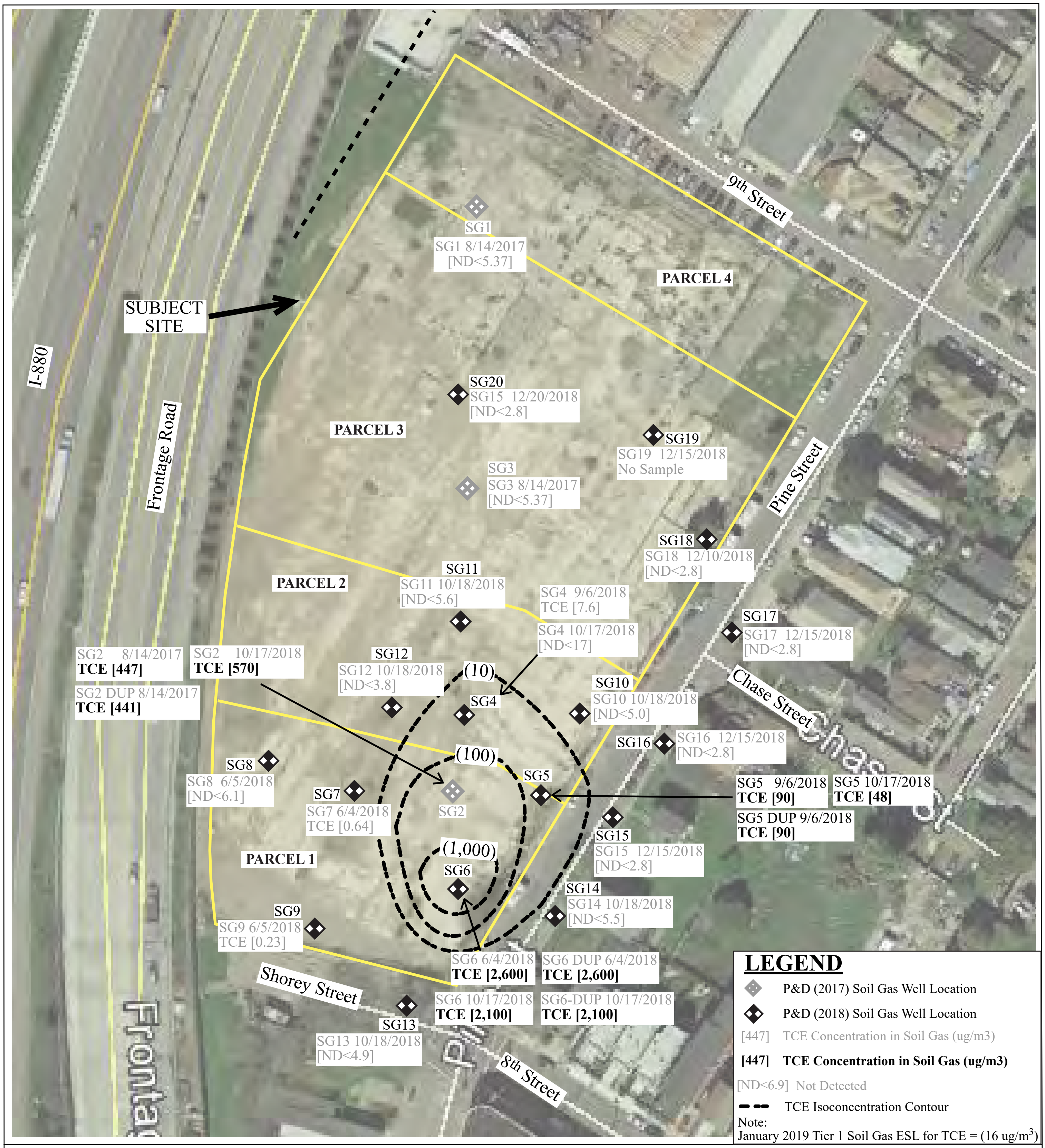
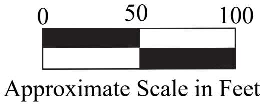
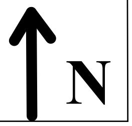


Figure 8
Site Aerial Photograph Showing TCE in Soil Gas
The Phoenix
800 Cedar Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610





APPENDIX A

Soil Boring Logs

- S1 Through S9 (9 pp)
- GW3 Through GW11 (7 pp)
- SG4 Through SG6, SG6A, and SG7 Through SG20 (18 pp)

P&D ENVIRONMENTAL, INC.

PAGE 1 OF 1

BORING NO.: S1	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 97 ft. north and 67 ft. west of southeast corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 6/1/18 1016	**DATE & TIME FINISHED:** 6/1/18 1233
DRILLING EQUIPMENT: Geoprobe 7822 DT			
COMPLETION DEPTH: 5.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** 4 Soil		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.3 ft. (3.5-inches) Concrete (FILL) 0.3 to 1.0 ft. Dark brown silty clayey sand (SM); moderately dense, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40) 1.0 to 5.0 ft. Color change to brown, loose, moist. X X X X	FILL SM		No Well Constructed S1-0.5 at 0.5 ft. S1-1.0 at 1.0 ft. S1-2.0 at 2.0 ft. S1-3.0 at 3.0 ft.	0 0 0 0	Concrete cored, then borehole continuously cored from 0.3 to 5.0 ft. using a Geoprobe 7822 DT dual tube sampling system where the smaller 5.0-foot long 1.5-inch O.D. rods were placed inside 5-foot long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-foot long 1.75-inch O.D. transparent PVC tube.
5 10 15 20 25 30						The sand catcher was removed from the transparent PVC tube prior to soil sample collection. Water was not encountered during drilling. Borehole terminated at 5.0 ft. and borehole grouted with neat cement grout and a tremie pipe on 6/1/18. Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document grouting of the borehole. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.

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BORING NO.: S2	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland			
BORING LOCATION: Approximately 74 ft. north and 15 ft. west of southeast corner of property		**ELEVATION AND DATUM:** None			
DRILLING AGENCY: VTS Drilling LLC		**DRILLER:** Glenn/Joel		**DATE & TIME STARTED:** 6/1/18 1122	**DATE & TIME FINISHED:** 6/1/18 1234
DRILLING EQUIPMENT: Geoprobe 7822 DT					
COMPLETION DEPTH: 5.0 Feet		**BEDROCK DEPTH:** Not Encountered		**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered		**NO. OF SAMPLES:** 4 Soil			

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.5 ft. (5.5-inches) Concrete (FILL)	FILL		No Well Constructed	0	Concrete cored, then borehole continuously cored from 0.5 to 5.0 ft. using a Geoprobe 7822 DT dual tube sampling system where the smaller 5.0-foot long 1.5-inch O.D. rods were placed inside 5-foot long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-foot long 1.75-inch O.D. transparent PVC tube.
	0.5 to 1.0 ft. Dark brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,40,60) X X X	SM		S2-0.5 at 0.5 ft. S2-1.0 at 1.0 ft. S2-2.0 at 2.0 ft.	0	
	1.0 to 5.0 ft. Color change to brown, moderately dense, moist. No PHC or solvent odors. (0,40,60) X			S2-3.0 at 3.0 ft.	0 0	
5						The sand catcher was removed from the transparent PVC tube prior to soil sample collection. Water was not encountered during drilling. Borehole terminated at 5.0 ft. and borehole grouted with neat cement grout and a tremie pipe on 6/1/18. Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document grouting of the borehole. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: S3 **PROJECT NO.:** 0772 **PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland

BORING LOCATION: Approximately 12 ft. north and 30 ft. west of southeast corner of property **ELEVATION AND DATUM:** None

DRILLING AGENCY: VTS Drilling LLC **DRILLER:** Glenn/Joel

DRILLING EQUIPMENT: Geoprobe 7822 DT

DATE & TIME STARTED: 6/1/18 1046

DATE & TIME FINISHED: 6/1/18 1234

COMPLETION DEPTH: 5.0 Feet **BEDROCK DEPTH:** Not Encountered

FIRST WATER DEPTH: Not Encountered **NO. OF SAMPLES:** 4 Soil

LOGGED BY: LKD

CHECKED BY: PMK

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. (5.0-inches) Concrete (FILL)	FILL		No Well Constructed	0	Concrete cored, then borehole continuously cored from 0.4 to 5.0 ft. using a Geoprobe 7822 DT dual tube sampling system where the smaller 5.0-foot long 1.5-inch O.D. rods were placed inside 5-foot long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-foot long 1.75-inch O.D. transparent PVC tube.
	0.4 to 1.0 ft. Brown silty clayey sand (SC); dense, moist, with black mottling. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,5,95) X X	SC		S3-0.5 at 0.5 ft. S3-1.0 at 1.0 ft.	0	
5	1.0 to 5.0 ft. Brown silty sand (SM); moderately dense, moist. No PHC or solvent odors. X X	SM		S3-2.0 at 2.0 ft. S3-3.0 at 3.0 ft.	0 0	
10 15 20 25 30						The sand catcher was removed from the transparent PVC tube prior to soil sample collection. Water was not encountered during drilling. Borehole terminated at 5.0 ft. and borehole grouted with neat cement grout and a tremie pipe on 6/1/18. Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document grouting of the borehole. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.

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BORING NO.: S4	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 37 ft. north and 82 ft. west of southeast corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 6/1/18 1103	**DATE & TIME FINISHED:** 6/1/18 1229
DRILLING EQUIPMENT: Geoprobe 7822 DT			
COMPLETION DEPTH: 5.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** 4 Soil		

DEPTH (FT.)	DESCRIPTION		GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. (5.0-inches) Concrete (FILL)		FILL		No Well Constructed	0	Concrete cored, then borehole continuously cored from 0.4 to 5.0 ft. using a Geoprobe 7822 DT dual tube sampling system where the smaller 5.0-foot long 1.5-inch O.D. rods were placed inside 5-foot long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-foot long 1.75-inch O.D. transparent PVC tube.
	0.4 to 1.0 ft. Dark brown silty sand (SM); loose, moist, with 4.0-inch layer of brick. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)	X X	SM		S4-0.5 at 0.5 ft. S4-1.0 at 1.0 ft.	0	
	1.0 to 2.0 ft. Moderately dense. (0,40,60)	X X			S4-2.0 at 2.0 ft. S4-3.0 at 3.0 ft.	0	
5	2.0 to 5.0 ft. Color change to brown.					0	
10							The sand catcher was removed from the transparent PVC tube prior to soil sample collection. Water was not encountered during drilling. Borehole terminated at 5.0 ft. and borehole grouted with neat cement grout and a tremie pipe on 6/1/18.
15							Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document grouting of the borehole. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses.
20							2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: S5	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland			
BORING LOCATION: Approximately 101 ft. north and 125 ft. west of southeast corner of property			**ELEVATION AND DATUM:** None		
DRILLING AGENCY: VTS Drilling LLC		**DRILLER:** Glenn/Joel		**DATE & TIME STARTED:** 6/1/18 1115	**DATE & TIME FINISHED:** 6/1/18 1226
DRILLING EQUIPMENT: Geoprobe 7822 DT					
COMPLETION DEPTH: 5.0 Feet		**BEDROCK DEPTH:** Not Encountered		**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered		**NO. OF SAMPLES:** 4 Soil			

DEPTH (FT.)	DESCRIPTION		GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. (5.0-inches) Concrete (FILL)		FILL		No Well Constructed	0	Concrete cored, then borehole continuously cored from 0.4 to 5.0 ft. using a Geoprobe 7822 DT dual tube sampling system where the smaller 5.0-foot long 1.5-inch O.D. rods were placed inside 5-foot long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-foot long 1.75-inch O.D. transparent PVC tube.
	0.4 to 2.0 ft. Dark brown silty sand (SM); moderately dense, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,40,60)	X X	SM		S5-0.5 at 0.5 ft. S5-1.0 at 1.0 ft.	0	
	2.0 to 5.0 ft. Color change to brown.	X X			S5-2.0 at 2.0 ft. S5-3.0 at 3.0 ft.	0 0	
5							The sand catcher was removed from the transparent PVC tube prior to soil sample collection. Water was not encountered during drilling. Borehole terminated at 5.0 ft. and borehole grouted with neat cement grout and a tremie pipe on 6/1/18. Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document grouting of the borehole. <u>Drilling Notes:</u> 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: S6 **PROJECT NO.:** 0772 **PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland

BORING LOCATION: Approximately 5 ft. north and 136 ft. west of southeast corner of property **ELEVATION AND DATUM:** None

DRILLING AGENCY: VTS Drilling LLC **DRILLER:** Glenn/Joel

DRILLING EQUIPMENT: Geoprobe 7822 DT

DATE & TIME STARTED: 6/1/18 1141

DATE & TIME FINISHED: 6/1/18 1228

COMPLETION DEPTH: 5.0 Feet **BEDROCK DEPTH:** Not Encountered

FIRST WATER DEPTH: Not Encountered **NO. OF SAMPLES:** 4 Soil

LOGGED BY: LKD

CHECKED BY: PMK

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.5 ft. (5.5-inches) Concrete (FILL)	FILL		No Well Constructed	0	Concrete cored, then borehole continuously cored from 0.5 to 5.0 ft. using a Geoprobe 7822 DT dual tube sampling system where the smaller 5.0-foot long 1.5-inch O.D. rods were placed inside 5-foot long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-foot long 1.75-inch O.D. transparent PVC tube.
	0.5 to 2.0 ft. Dark brown silty sand (SM); moderately dense, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,40,60) X X X	SM		S6-0.5 at 0.5 ft. S6-1.0 at 1.0 ft. S6-2.0 at 2.0 ft	0	
	2.0 to 5.0 ft. Color change to brown, with dark brown mottling. X			S6-3.0 at 3.0 ft	0 0	
5						The sand catcher was removed from the transparent PVC tube prior to soil sample collection. Water was not encountered during drilling. Borehole terminated at 5.0 ft. and borehole grouted with neat cement grout and a tremie pipe on 6/1/18.
10						Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document grouting of the borehole.
15						Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: S7	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 100 ft. north and 220 ft. west of southeast corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 6/1/18 1202	**DATE & TIME FINISHED:** 6/1/18 1226
DRILLING EQUIPMENT: Geoprobe 7822 DT			
COMPLETION DEPTH: 5.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LKD	**CHECKED BY:**
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** 4 Soil		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
0–0.6	0.0 to 0.6 ft. (7.0-inches) Concrete (FILL)	FILL		No Well Constructed	0	Concrete cored, then borehole continuously cored from 0.6 to 5.0 ft. using a Geoprobe 7822 DT dual tube sampling system where the smaller 5.0-foot long 1.5-inch O.D. rods were placed inside 5-foot long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-foot long 1.75-inch O.D. transparent PVC tube.
0.6–2.0	0.6 to 2.0 ft. Dark brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,40,60)	SM		X S7-0.5 at 0.5 ft. X S7-1.0 at 1.0 ft. X S7-2.0 at 2.0 ft.	0	
2.0–5.0	2.0 to 5.0 ft. Color change to brown, with dark brown mottling, and orange mottling from 2.0 to 3.0 ft.			X S7-3.0 at 3.0 ft.	0 0	
5						The sand catcher was removed from the transparent PVC tube prior to soil sample collection. Water was not encountered during drilling. Borehole terminated at 5.0 ft. and borehole grouted with neat cement grout and a tremie pipe on 6/1/18. Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document grouting of the borehole.
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15						<u>Drilling Notes:</u> 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: S8	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 83 ft. north and 187 ft. west of southeast corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 6/1/18 1156	**DATE & TIME FINISHED:** 6/1/18 1225
DRILLING EQUIPMENT: Geoprobe 7822 DT			
COMPLETION DEPTH: 5.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** 4 Soil		

DEPTH (FT.)	**DESCRIPTION**		**GRAPHIC COLUMN**	**BLOW COUNT PER 6"**	**WELL CONSTRUCTION LOG**	**PID**	**REMARKS**
	0.0 to 0.4 ft. (5.0-inches) Concrete (FILL)		FILL		No Well Constructed	0	Concrete cored, then borehole continuously cored from 0.4 to 5.0 ft. using a Geoprobe 7822 DT dual tube sampling system where the smaller 5.0-foot long 1.5-inch O.D. rods were placed inside 5-foot long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-foot long 1.75-inch O.D. transparent PVC tube.
	0.4 to 2.0 ft. Dark brown silty sand (SM); moderately dense, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,40,60)	X X X	SM		S8-0.5 at 0.5 ft. S8-1.0 at 1.0 ft. S8-2.0 at 2.0 ft.	0	
	2.0 to 5.0 ft. Color change to brown, with dark brown mottling.	X			S8-3.0 at 3.0 ft.	0 0	
5							The sand catcher was removed from the transparent PVC tube prior to soil sample collection. Water was not encountered during drilling. Borehole terminated at 5.0 ft. and borehole grouted with neat cement grout and a tremie pipe on 6/1/18. Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document grouting of the borehole. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: S9	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland			
BORING LOCATION: Approximately 38 ft. north and 205 ft. west of southeast corner of property		**ELEVATION AND DATUM:** None			
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn/Joel		**DATE & TIME STARTED:** 6/1/18 1148	**DATE & TIME FINISHED:** 6/1/18 1222	
DRILLING EQUIPMENT: Geoprobe 7822 DT					
COMPLETION DEPTH: 5.0 Feet	**BEDROCK DEPTH:** Not Encountered		**LOGGED BY:** LKD	**CHECKED BY:** PMK	
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** 4 Soil				

DEPTH (FT.)	**DESCRIPTION**	**GRAPHIC COLUMN**	**BLOW COUNT PER 6"**	**WELL CONSTRUCTION LOG**	**PID**	**REMARKS**
	0.0 to 0.5 ft. (6.0-inches) Concrete (FILL) 0.5 to 2.0 ft. Dark brown silty sand (SM); moderately dense, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,40,60) 2.0 to 5.0 ft. Color change to brown, with dark brown mottling.	FILL SM		No Well Constructed	0 0 0 0	Concrete cored, then borehole continuously cored from 0.5 to 5.0 ft. using a Geoprobe 7822 DT dual tube sampling system where the smaller 5.0-foot long 1.5-inch O.D. rods were placed inside 5-foot long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-foot long 1.75-inch O.D. transparent PVC tube.
5						The sand catcher was removed from the transparent PVC tube prior to soil sample collection. Water was not encountered during drilling. Borehole terminated at 5.0 ft. and borehole grouted with neat cement grout and a tremie pipe on 6/1/18. Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document grouting of the borehole. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: GW3	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland			
BORING LOCATION: Approximately 118 ft. north and 110 ft. west of southeast corner of property		**ELEVATION AND DATUM:** None			
DRILLING AGENCY: VTS Drilling		**DRILLER:** Glenn/Joel		**DATE & TIME STARTED:** 5/31/18 1245	**DATE & TIME FINISHED:** 5/31/18 1443
DRILLING EQUIPMENT: 2.75-inch O.D. Hand Auger					
COMPLETION DEPTH: 11.5 Feet		**BEDROCK DEPTH:** Not Encountered		**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: 9.5 Feet		**NO. OF SAMPLES:** 1 Groundwater			

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. (5.0-inches) Concrete (FILL)	FILL		No Well Constructed	0	Borehole hand augered from 0.4 to 11.5 ft. using 2.75-inch O.D. hand auger.
	0.4 to 3.0 ft. Dark brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,35,65)				0	Water encountered during augering at 9.5 ft. at 1255.
5	3.0 to 6.0 ft. Brown silty clayey sand (SM); loose, moist, with orange mottling. No PHC or solvent odors. (0,40,60) Wet at 5.0 ft.	SM			0	Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Water level measured at 7.7 ft. at 1309 and at 6.3 ft. at 1428.
	6.0 to 9.0 ft. Color change to orangish-brown, moderately dense, moist.			▼	0	Water sample GW3 collected at 1434 using a peristaltic pump and was collected directly from the discharge tubing. No odor or sheen on sample.
	9.0 to 10.0 ft. Color change to brown, with gray and orange mottling, loose, moist.			∇	0	Water level was subsequently measured at 8.0 ft. at 1443.
10	10.0 to 11.5 ft. Brown silty sand (SM); moderately dense, wet to saturated, with gray mottling to 11.0 ft. No PHC or solvent odors. (0,40,60) Saturated 11.0 ft.				0	Borehole grouted on 5/31/18 using neat cement grout and a tremie pipe.
						Mr. Marcelino Vialpando with Alameda County Public Works Agency gave verbal permission to grout the borehole without his presence.
15						Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: GW4	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland			
BORING LOCATION: Approximately 50 ft. north and 195 ft. west of southeast corner of property		**ELEVATION AND DATUM:** None			
DRILLING AGENCY: VTS Drilling	**DRILLER:** Glenn/Joel			**DATE & TIME STARTED:** 5/31/18 1309	**DATE & TIME FINISHED:** 5/31/18 1502
DRILLING EQUIPMENT: 2.75-inch O.D. Hand Auger					
COMPLETION DEPTH: 11.5 Feet	**BEDROCK DEPTH:** Not Encountered			**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: 9.5 Feet	**NO. OF SAMPLES:** 1 Groundwater				

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.6 ft. (7.0-inches) Concrete (FILL)	FILL		No Well Constructed	0	Borehole hand augered from 0.6 to 11.5 ft. using 2.75-inch O.D. hand auger.
	0.6 to 4.0 ft. Dark brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,35,65)	SM			0	Water encountered during augering at 9.5 ft. at 1321.
5	4.0 to 6.0 ft. Color change to brown, with oxidized nodules at 5.0 ft.				0	Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Water level measured at 9.7 ft. at 1325 and at 7.0 ft. at 1447.
	6.0 to 9.0 ft. Orange silty clayey sand (SM); moderately dense, moist, with brown mottling. No PHC or solvent odors. (0,40,60) Oxidized nodules from 6.0 to 7.0 ft.			▼	0	Water sample GW4 collected at 1451 using a peristaltic pump and was collected directly from the discharge tubing. No odor or sheen on sample.
10	9.0 to 11.5 ft. Color change to brown, with orange and gray mottling, wet. Saturated 9.5 ft.			▽	0 0	Water level was subsequently measured at 8.4 ft. at 1459. Borehole grouted on 5/31/18 using neat cement grout and a tremie pipe.
15						Mr. Marcelino Vialpando with Alameda County Public Works Agency gave verbal permission to grout the borehole without his presence. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: GW5 **PROJECT NO.:** 0772 **PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland

BORING LOCATION: In Shorey Street, approximately 37 ft. south and 19 ft. west of southeast corner of property **ELEVATION AND DATUM:** None

DRILLING AGENCY: VTS Drilling **DRILLER:** Glenn/Joel

DRILLING EQUIPMENT: 2.75-inch O.D. Hand Auger

DATE & TIME STARTED: 5/31/18 1402

DATE & TIME FINISHED: 5/31/18 1518

COMPLETION DEPTH: 11.5 Feet **BEDROCK DEPTH:** Not Encountered

FIRST WATER DEPTH: 9.5 Feet **NO. OF SAMPLES:** 1 Groundwater

LOGGED BY: LKD

CHECKED BY: PMK

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID
	0.0 to 0.2 ft. (2.0-inches) Concrete (FILL)	FILL		No Well Constructed	0
	0.2 to 0.7 ft. Cobblestones/rocks.				
	0.7 to 5.0 ft. Brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,40,60) 3.0 to 5.0 ft. Orange mottling.				0 0
5	5.0 to 7.0 ft. Orangish-brown silty clayey sand (SM); loose, moist, wet at 5.5 ft. No PHC or solvent odors. (0,40,60) 6.0 to 7.0 ft. Gray mottling.	SM		▼	0
	7.0 to 8.0 ft. Brown silty sand (SM); loose, moist. No PHC or solvent odors. (0,40,60)				
10	8.0 to 11.5 ft. Brown silty clayey sand (SM); moderately dense, saturated. No PHC or solvent odors. (0,40,60)			▽	0 0
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REMARKS

Borehole hand augered from 0.7 to 11.5 ft. using 2.75-inch O.D. hand auger.

Water encountered during augering at 9.5 ft. at 1413.

Temporary 1.0-inch diameter slotted PVC casing placed in borehole.

Water level measured at 9.2 ft. at 1422 and at 6.7 ft. at 1505.

Water sample GW5 collected at 1506 using a peristaltic pump and was collected directly from the discharge tubing. No odor or sheen on sample.

Water level was subsequently measured at 7.4 ft. at 1516.

Borehole grouted on 5/31/18 using neat cement grout and a tremie pipe.

Mr. Marcelino Vialpando with Alameda County Public Works Agency gave verbal permission to grout the borehole without his presence.

Drilling Notes:

1) Field estimates of percent gravel, sand, and fines are shown in parentheses.

2) Density determinations are qualitative and are not based on quantitative evaluation.

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BORING NO.: GW6 **PROJECT NO.:** 0772 **PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland

BORING LOCATION: In Pine Street, approximately 15 ft. north of Shorey St. and 7.5 ft. west of east curb of Pine St. **ELEVATION AND DATUM:** None

DRILLING AGENCY: VTS Drilling	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 5/31/18 0800	**DATE & TIME FINISHED:** 5/31/18 1053
DRILLING EQUIPMENT: 2.75-inch O.D. Hand Auger			
COMPLETION DEPTH: 11.5 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** PHK	**CHECKED BY:** PHK
FIRST WATER DEPTH: 11.0 Feet	**NO. OF SAMPLES:** 1 Groundwater		

DEPTH (FT.)	**DESCRIPTION**	**GRAPHIC COLUMN**	**BLOW COUNT PER 6"**	**WELL CONSTRUCTION LOG**	**PID**	**REMARKS**
	0.0 to 0.3 ft. (3.0-inches) Concrete (FILL)	FILL		No Well Constructed	0	Borehole hand augered from 0.6 to 11.5 ft. using 2.75-inch O.D. hand auger.
	0.3 to 0.6 ft. 4.0-inches Rock..					
	0.6 to 11.5 ft. Brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors.				0	Water encountered during augering at 11.0 ft. at 0825.
						Temporary 1.0-inch diameter slotted PVC casing placed in borehole.
5	5.0 ft. Wet.				0	Water level measured at 8.2 ft. at 0835, at 7.9 ft. at 0859, and at 6.8 ft. at 0952.
	6.0 to 7.0 ft. Color change to orange.	SM				
	6.0 to 8.0 ft. Dense.			▼	0	Water sample GW6 collected at 0953 using a peristaltic pump and was collected directly from the discharge tubing. No odor or sheen on sample.
	7.0 to 9.0 ft. Color change to gray.					
	Loose at 8.0 ft.					
					0	Water level was subsequently measured at 6.9 ft. at 1052.
10						
	Saturated at 11.0 ft.			▽	0	Borehole grouted on 5/31/18 using neat cement grout and a tremie pipe.
						Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document grouting of the borehole.
15						<u>Drilling Notes:</u> 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.:	GW7	**PROJECT NO.:**	0772	**PROJECT NAME:**	The Phoenix - 801 Pine Street, Oakland

BORING LOCATION: In Pine Street, approximately 100 ft. north of Shorey St. and 7.5 ft. west of east curb of Pine St. **ELEVATION AND DATUM:** None

DRILLING AGENCY:	VTS Drilling	**DRILLER:**	Glenn/Joel	**DATE & TIME STARTED:** 5/31/18 0830	**DATE & TIME FINISHED:** 5/31/18 1118
DRILLING EQUIPMENT:	2.75-inch O.D. Hand Auger				
COMPLETION DEPTH:	11.5 Feet	**BEDROCK DEPTH:**	Not Encountered	**LOGGED BY:** PHK	**CHECKED BY:** PHK
FIRST WATER DEPTH:	8.5 Feet	**NO. OF SAMPLES:**	1 Groundwater		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.3 ft. (3.0-inches) Concrete (FILL) 0.3 to 0.8 ft. 9.0-inches Rock.	FILL		No Well Constructed	0	Borehole hand augered from 0.8 to 11.5 ft. using 2.75-inch O.D. hand auger.
	0.8 to 11.5 ft. Brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. 3.0 to 5.0 ft. Color change to Gray.				0	Water encountered during augering at 8.5 ft. at 0850.
						Temporary 1.0-inch diameter slotted PVC casing placed in borehole.
5	5.0 to 11.5 ft. Color change to orange.				0	Water level measured at 7.3 ft. at 0910, at 6.8 ft. at 0922, and at 6.7 ft. at 1049.
	Dense from 6.0 to 8.0 ft.	SM				
				▼	0	Water sample GW7 collected at 1057 using a peristaltic pump and was collected directly from the discharge tubing. No odor or sheen on sample.
	Loose at 8.0 ft. Wet at 8.5 ft.			▽		
					0	Water level was subsequently measured at 7.3 ft. at 1107 amd at 6.9 ft. at 1117.
10	10.0 to 11.5 ft. Minor gray mottling.					
					0	Borehole grouted on 5/31/18 using neat cement grout and a tremie pipe.
						Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document grouting of the borehole.
15						<u>Drilling Notes:</u>
						1) Field estimates of percent gravel, sand, and fines are shown in parentheses.
						2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: GW8	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland
BORING LOCATION: In Pine Street, approximately 185 ft. north of Shorey St. and 7.5 ft. west of east curb of Pine St.		**ELEVATION AND DATUM:** None

DRILLING AGENCY: VTS Drilling	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 5/31/18 0911	**DATE & TIME FINISHED:** 5/31/18 1142
DRILLING EQUIPMENT: 2.75-inch O.D. Hand Auger			
COMPLETION DEPTH: 11.5 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: 9.0 Feet	**NO. OF SAMPLES:** 1 Groundwater		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.3 ft. (3.0-inches) Concrete (FILL) 0.3 to 0.8 ft. 9.0-inches Cobblestone.	FILL		No Well Constructed	0	Borehole hand augered from 0.8 to 11.5 ft. using 2.75-inch O.D. hand auger.
	0.8 to 4.0 ft. Brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,40,60)				0	Water encountered during augering at 9.0 ft. at 0934.
	4.0 to 6.0 ft. Orange mottling.					Temporary 1.0-inch diameter slotted PVC casing placed in borehole.
5					0	Water level measured at 7.2 ft. at 0947 and at 6.7 ft. at 1115.
	6.0 to 8.0 ft. Gray and orange mottling. (0,50,50)	SM		▼	0	Water sample GW8 collected at 1117 using a peristaltic pump and was collected directly from the discharge tubing. No odor or sheen on sample.
	8.0 to 11.5 ft. Brown silty sand (SM); dense, moist to saturated at 9.0 ft. No PHC or solvent odors (0,35,65)			▽	0	Water level was subsequently measured at 6.8 ft. at 1138.
10					0	Borehole grouted on 5/31/18 using neat cement grout and a tremie pipe.
						Mr. Marcelino Vialpando with Alameda County Public Works Agency gave verbal permission to grout the borehole without his presence.
15						<u>Drilling Notes:</u> 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: GW9	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: In Pine Street, approximately 265 ft. north of Shorey St. and 7.5 ft. west of east curb of Pine St.		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 5/31/18 0947	**DATE & TIME FINISHED:** 5/31/18 1205
DRILLING EQUIPMENT: 2.75-inch O.D. Hand Auger			
COMPLETION DEPTH: 11.5 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: 9.0 Feet	**NO. OF SAMPLES:** 1 Groundwater		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.3 ft. (3.0-inches) Concrete (FILL)	FILL		No Well Constructed	0	Borehole hand augered from 0.8 to 11.5 ft. using 2.75-inch O.D. hand auger.
	0.3 to 0.8 ft. 9.0-inches Cobblestone.					
	0.8 to 3.0 ft. Brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,40,60) 3.0 to 6.0 ft. Color change to orangish-brown.				0	Water encountered during augering at 9.0 ft. at 1014.
	Oxidized nodules at 4.0 ft.					Temporary 1.0-inch diameter slotted PVC casing placed in borehole.
5		SM			0	Water level measured at 7.1 ft. at 1032 and at 6.9 ft. at 1141.
	6.0 to 11.5 ft. Color change to brown with orange mottling, dense, moist. No PHC or solvent odors. (0,50,50)			▼	0	Water sample GW9 collected at 1142 using a peristaltic pump and was collected directly from the discharge tubing. No odor or sheen on sample.
	Saturated at 9.0 ft.			▽	0	Water level was subsequently measured at 7.2 ft. at 1155 and at 7.0 ft. at 1201.
10					0	Borehole grouted on 5/31/18 using neat cement grout and a tremie pipe.
						Mr. Marcelino Vialpando with Alameda County Public Works Agency gave verbal permission to grout the borehole without his presence.
15						<u>Drilling Notes:</u> 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: GW10	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland			
BORING LOCATION: Approximately 190 ft. north and 25 ft. east of southeast corner of property		**ELEVATION AND DATUM:** None			
DRILLING AGENCY: VTS Drilling		**DRILLER:** Glenn/Joel		**DATE & TIME STARTED:** 10/13/18 0845	**DATE & TIME FINISHED:** 10/13/18 1100
DRILLING EQUIPMENT: 2.75-inch O.D. Hand Auger					
COMPLETION DEPTH: 10.0 Feet		**BEDROCK DEPTH:** Not Encountered		**LOGGED BY:** MLBD	**CHECKED BY:** PMK
FIRST WATER DEPTH: 9.0 Feet		**NO. OF SAMPLES:** 1 Groundwater			

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. (5.0-inches) Concrete (FILL)	FILL		No Well Constructed	0	Borehole hand augered from 0.4 to 10.0 ft. using 2.75-inch O.D. hand auger.
	0.4 to 2.0 ft. Dark brown silty fine sand (FILL); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)					
5	2.0 to 6.0 ft. Brown silty fine sand (SM); loose to medium dense, moist. No PHC or solvent odors. (0,60,40)	SM			0 0	Water encountered during augering at 9.0 ft. at 0900. Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Water level measured at 9.6 ft. at 0905 and at 9.0 ft. at 0915.
	6.0 to 8.0 ft. Color change to orange-brown (SM); medium dense, moist, with some clay. No PHC or solvent odors. (0,60,40)				0	Water sample GW10 collected at 1115 using a peristaltic pump and was collected directly from the discharge tubing. No odor or sheen on sample.
10	8.0 to 10.0 ft. Grayish-brown silty fine sand (SM); medium dense, moist to saturated. No PHC or solvent odors. (0,70,30) Saturated at 9.0 ft.			▼ ▽	0	Water level was subsequently measured at 9.4 ft. at 1132.
15 20 25 30						Borehole grouted on 10/13/18 using neat cement grout and a tremie pipe. Mr. James Yoo with Alameda County Public Works Agency gave verbal authorization to pour sanitary seal. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.

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BORING NO.:	GW11	**PROJECT NO.:**	0772	**PROJECT NAME:**	The Phoenix - 801 Pine Street, Oakland
BORING LOCATION:	Approximately 60 ft. north and 25 ft. east of southeast corner of property			**ELEVATION AND DATUM:**	None
DRILLING AGENCY:	VTS Drilling	**DRILLER:**	Glenn/Joel	**DATE & TIME STARTED:**	10/13/18 0745
DRILLING EQUIPMENT:	2.75-inch O.D. Hand Auger			**DATE & TIME FINISHED:**	10/13/18 0830
COMPLETION DEPTH:	10.0 Feet	**BEDROCK DEPTH:**	Not Encountered	**LOGGED BY:**	MLBD
FIRST WATER DEPTH:	9.0 Feet	**NO. OF SAMPLES:**	1 Groundwater	**CHECKED BY:**	PMK

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. (5.0-inches) Concrete (FILL)	FILL		No Well Constructed		
	0.4 to 3.0 ft. Dark brown silty fine sand (FILL); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)				0 0	Borehole hand augered from 0.4 to 10.0 ft. using 2.75-inch O.D. hand auger. Water encountered during augering at 9.0 ft. at 0820.
	3.0 to 5.0 ft. Color change to light grayish-brown (SM); loose to medium dense, moist. No PHC or solvent odors. (0,60,40)	SM			0	Temporary 1.0-inch diameter slotted PVC casing placed in borehole.
5	5.0 to 8.0 ft. Color change to orange-brown (SM); medium dense, moist, with orange mottling. No PHC or solvent odors. (0,70,30)				0	Water level measured at 9.9 ft. at 0825 and at 9.4 ft. at 0835. Water sample GW11 collected at 1030 using a peristaltic pump and was collected directly from the discharge tubing. No odor or sheen on sample.
	8.0 to 10.0 ft. Grayish-brown silty fine sand (SM); medium dense, moist to saturated. No PHC or solvent odors. (0,70,30) Saturated at 9.0 ft.			▼ ▽	0	Water level was subsequently measured at 9.5 ft. at 1051.
10 15 20 25 30						Borehole grouted on 10/13/18 using neat cement grout and a tremie pipe. Mr. James Yoo with Alameda County Public Works Agency gave verbal authorization to pour sanitary seal. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.

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BORING NO.: SG4	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 185 ft. north and 93 ft. west of southeast corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 5/24/18 1145	**DATE & TIME FINISHED:** 5/24/18 1408
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 7.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** None		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. (5-inches) Concrete (FILL)	FILL		Soil Gas Well Constructed; (See Description Below In Remarks Column)	0	Concrete cored, then borehole hand augered from 0.4 to 7.0 ft. using 3.5-inch O.D. hand auger.
	0.4 to 7.0 ft. Dark brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40) 1.5 to 5.0 ft. Color change to brown, with black nodules.	SM			0 0	Water was not encountered during hand augering.
5	5.0 to 7.0 ft. Color change to light brown. Oxidized nodules present. 5.0 to 5.5 ft. Saturated.			▼	0 0	Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 5/24/18. Water level was measured at 6.1 ft. at 1217 and at 5.5 ft. at 1312.
10						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault.
15						Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document pouring of the sanitary seal.
20						Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: SG5	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland			
BORING LOCATION: Approximately 153 ft. north and 12 ft. west of southeast corner of property			**ELEVATION AND DATUM:** None		
DRILLING AGENCY: VTS Drilling LLC		**DRILLER:** Glenn/Joel		**DATE & TIME STARTED:** 5/24/18 0910	**DATE & TIME FINISHED:** 5/24/18 1457
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger					
COMPLETION DEPTH: 7.0 Feet		**BEDROCK DEPTH:** Not Encountered		**LOGGED BY:** PHK	**CHECKED BY:** PHK
FIRST WATER DEPTH: Not Encountered		**NO. OF SAMPLES:** None			

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.3 ft. (4-inches) Concrete (FILL)	FILL		Soil Gas Well Constructed; (See Description Below In Remarks Column)		Concrete cored, then borehole hand augered from 0.3 to 7.0 ft. using 3.5-inch O.D. hand auger. Water was not encountered during hand augering. Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 5/24/18. Water level was measured at 6.5 ft. at 0940, at 5.4 ft. at 1208, and at 5.4 ft. at 1324.
	0.3 to 7.0 ft. Dark brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40) 1.0 to 4.0 ft. Color change to light brown.	SM			0 0 0	
5	5.0 ft. Wet, with dark brown to rusty orange mottling.			▼	0	
	7.0 ft. Color change to orangish-brown.				0	
10						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault. Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document pouring of the sanitary seal.
15						<u>Drilling Notes:</u> 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.:	SG6	**PROJECT NO.:**	0772	**PROJECT NAME:**	The Phoenix - 801 Pine Street, Oakland
BORING LOCATION:	Approximately 70 ft. north and 22 ft. west of southeast corner of property			**ELEVATION AND DATUM:**	None
DRILLING AGENCY:	VTS Drilling LLC	**DRILLER:**	Glenn/Joel	**DATE & TIME STARTED:**	5/24/18 1114
DRILLING EQUIPMENT:	3.5-inch O.D. Hand Auger			**DATE & TIME FINISHED:**	5/24/18 1444
COMPLETION DEPTH:	7.0 Feet	**BEDROCK DEPTH:**	Not Encountered	**LOGGED BY:**	LKD
FIRST WATER DEPTH:	6.7 Feet	**NO. OF SAMPLES:**	None	**CHECKED BY:**	PMK

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.5 ft. (6-inches) Concrete (FILL)	FILL		Soil Gas Well Constructed; (See Description Below In Remarks Column)	0	Concrete cored, then borehole hand augered from 0.5 to 7.0 ft. using 3.5-inch O.D. hand auger.
	0.5 to 7.0 ft. Dark brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40) 3.0 to 5.0 ft. Color change to light brown.	SM			0 0	Water was encountered at 6.7 ft. during hand augering.
5	5.0 to 6.7 ft. Moist to wet, with oxidized nodules. Saturated at 6.7 ft.			▼ ▽	0 0	Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 5/24/18. Water level was measured at 5.9 ft. at 1211 and at 5.9 ft. at 1330.
10						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-onch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault.
15						Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document pouring of the sanitary seal.
20						Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: SG6A	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 75 ft. north and 40 ft. west of southeast corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 5/24/18 0800	**DATE & TIME FINISHED:** 5/24/18 1450
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 7.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** PHK	**CHECKED BY:** PHK
FIRST WATER DEPTH: 5.0 Feet	**NO. OF SAMPLES:** None		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. (5-inches) Concrete (FILL)	FILL		No Well Constructed	0	Concrete cored, then borehole hand augered from 0.4 to 7.0 ft. using 3.5-inch O.D. hand auger.
	0.4 to 7.0 ft. Dark brown silty sand (SM); loose, moist, with brick fragments from 0.4 to 0.5 ft. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40) 1.8 to 4.0 ft. Color change to light brown.	SM			0 0	Water encountered at 5.0 ft. during hand augering at 0810.
5	4.0 to 7.0 ft. Light brown silty sand (SM); dense, with dark brown to black nodules. No PHC or solvent odors. Saturated at 5.0 ft.			∇ ▼	0 0	Borehole terminated at 7.0 ft. on 5/24/18 and no soil gas well constructed in borehole. Water level was measured at 5.7 ft. at 0943 and at 5.7 ft. at 1447.
						Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document grouting of the borehole. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: SG7	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland			
BORING LOCATION: Approximately 90 ft. north and 127 ft. west of southeast corner of property		**ELEVATION AND DATUM:** None			
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn/Joel			**DATE & TIME STARTED:** 5/24/18 1214	**DATE & TIME FINISHED:** 5/24/18 1415
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger					
COMPLETION DEPTH: 7.0 Feet	**BEDROCK DEPTH:** Not Encountered			**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: 6.8 Feet	**NO. OF SAMPLES:** None				

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.25 ft. (3-inches) Concrete (FILL)	FILL		Soil Gas Well Constructed; (See Description Below In Remarks Column)	0	Concrete cored, then borehole hand augered from 0.25 to 7.0 ft. using 3.5-inch O.D. hand auger.
	0.5 to 7.0 ft. Dark brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)	SM			0	Water encountered at 6.8 ft. during hand augering.
	3.5 to 6.8 ft. Color change to brown.				0	Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 5/24/18.
5	6.0 ft. Wet, with black nodules.			▼	0	Water level was measured at 5.7 ft. at 1243 and at 5.6 ft. at 1327.
	6.8 to 7.0 ft. Brown silty clayey sand (SC); loose, saturated, with orange mottling. No PHC or solvent odors. (0,60,40)	SC		▽	0	
						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault.
10						Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document pouring of the sanitary seal.
15						<u>Drilling Notes:</u>
						1) Field estimates of percent gravel, sand, and fines are shown in parentheses.
20						2) Density determinations are qualitative and are not based on quantitative evaluation.
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P&D ENVIRONMENTAL, INC.

BORING NO.:	SG8	**PROJECT NO.:**	0772	**PROJECT NAME:**	The Phoenix - 801 Pine Street, Oakland
BORING LOCATION:	Approximately 75 ft. north and 195 ft. west of southeast corner of property			**ELEVATION AND DATUM:**	None
DRILLING AGENCY:	VTS Drilling LLC	**DRILLER:**	Glenn/Joel	**DATE & TIME STARTED:**	5/24/18 1032
DRILLING EQUIPMENT:	3.5-inch O.D. Hand Auger			**DATE & TIME FINISHED:**	5/24/18 1422
COMPLETION DEPTH:	7.0 Feet	**BEDROCK DEPTH:**	Not Encountered	**LOGGED BY:**	LKD
FIRST WATER DEPTH:	Not Encountered	**NO. OF SAMPLES:**	None	**CHECKED BY:**	PMK

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.7 ft. (8-inches) Concrete (FILL)	FILL		Soil Gas Well Constructed; (See Description Below In Remarks Column)		
	0.7 to 7.0 ft. Dark brown silty sand (SM); loose, moist, with brick fragments at 1.5 ft. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,70,30)				0 0	Concrete cored, then borehole hand augered from 0.7 to 7.0 ft. using 3.5-inch O.D. hand auger. Water not encountered during hand augering.
	4.0 to 5.5 ft. Color change to brown, with dark brown mottling from 4.0 to 5.0 ft. and soft oxidized concretions at 5.0 ft.	SM			0	Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 5/24/18.
5					0	
	5.5 to 7.0 ft. Orange mottling, with some clay from 6.8 to 7.0 ft.			▼	0	Water level was measured at 6.4 ft. at 1101, at 6.1 ft. at 1214, and at 6.1 ft. at 1335.
10 15 20 25 30						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault. Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document pouring of the sanitary seal. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.

P&D ENVIRONMENTAL, INC.

BORING NO.: SG9	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland			
BORING LOCATION: Approximately 14 ft. south and 100 ft. west of southeast corner of property			**ELEVATION AND DATUM:** None		
DRILLING AGENCY: VTS Drilling LLC		**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 5/24/18 0959	**DATE & TIME FINISHED:** 5/24/18 1428	
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger					
COMPLETION DEPTH: 7.0 Feet		**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LKD	**CHECKED BY:** PMK	
FIRST WATER DEPTH: Not Encountered		**NO. OF SAMPLES:** None			

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 1.1 ft. Concrete (8-inches) and baserock (FILL)	FILL		Soil Gas Well Constructed; (See Description Below In Remarks Column)	0	Concrete cored, then borehole hand augered from 1.1 to 7.0 ft. using 3.5-inch O.D. hand auger. Water not encountered during hand augering. Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 5/24/18. Water level was measured at 6.6 ft. at 1020, at 6.2 ft. at 1213, and at 6.1 ft. at 1332.
	1.1 to 2.5 ft. Dark brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)	SM			0	
5	2.5 to 5.5 ft. Color change to light brown.				0 0	
	5.5 to 7.0 ft. Wet, with rusty orange mottling and soft oxidized concretions.			▼	0	
10						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault. Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document pouring of the sanitary seal. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.:	SG10	**PROJECT NO.:**	0772	**PROJECT NAME:**	The Phoenix - 801 Pine Street, Oakland
BORING LOCATION:	Approximately 220 ft. north and 100 ft. east of southeast corner of property			**ELEVATION AND DATUM:**	None
DRILLING AGENCY:	VTS Drilling LLC	**DRILLER:**	Glenn/Joel	**DATE & TIME STARTED:**	10/13/18 1045
DRILLING EQUIPMENT:	3.5-inch O.D. Hand Auger			**DATE & TIME FINISHED:**	10/13/18 1115
COMPLETION DEPTH:	7.0 Feet	**BEDROCK DEPTH:**	Not Encountered	**LOGGED BY:**	MLBD
FIRST WATER DEPTH:	Not Encountered	**NO. OF SAMPLES:**	None	**CHECKED BY:**	PMK

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. Concrete (5-inches)	FILL		Soil Gas Well Constructed; (See Description Below In Remarks Column)		Borehole hand augered from 0.4 to 7.0 ft. using 3.5-inch O.D. hand auger. Water not encountered during hand augering. Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 10/13/18.
	0.4 to 2.0 ft. Dark brown silty fine sand (FILL); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)				0	
	2.0 to 3.0 ft. Color change to grayish-brown (SM); loose, moist. No PHC or solvent odors. (0,60,40)	SM			0	
	3.0 to 5.0 ft. Color change to brown (SM); medium dense, moist. No PHC or solvent odors. (0,70,30)				0 0	
5	5.0 to 7.0 ft. Color change to orange-brown (SM); medium dense, moist. No PHC or solvent odors. (0,70,30)				0	
10 15 20 25 30						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault. Mr. James Yoo with Alameda County Public Works Agency gave verbal authorization to pour sanitary seal. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.

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BORING NO.: SG11	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland			
BORING LOCATION: Approximately 270 ft. north and 25 ft. east of southeast corner of property			**ELEVATION AND DATUM:** None		
DRILLING AGENCY: VTS Drilling LLC		**DRILLER:** Glenn/Joel		**DATE & TIME STARTED:** 10/13/18 1005	**DATE & TIME FINISHED:** 10/13/18 1035
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger					
COMPLETION DEPTH: 7.0 Feet		**BEDROCK DEPTH:** Not Encountered		**LOGGED BY:** MLBD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered		**NO. OF SAMPLES:** None			

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. Concrete (5-inches)			Soil Gas Well Constructed; (See Description Below In Remarks Column)		Borehole hand augered from 0.4 to 7.0 ft. using 3.5-inch O.D. hand auger.
	0.4 to 1.0 ft. Dark brown silty fine sand (FILL); loose, moist, with abundant broken glass. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)	FILL			0	
	1.0 to 2.0 ft. Color change to grayish-brown (SM); loose, moist. No PHC or solvent odors. (0,60,40)				0	Water not encountered during hand augering.
	2.0 to 5.0 ft. Color change to brown (SM); medium dense, moist, with some clay. No PHC or solvent odors. (0,70,30)	SM			0	Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 10/13/18.
5	5.0 to 7.0 ft. Color change to orange-brown (SM); medium dense, moist, with orange mottling. No PHC or solvent odors. (0,70,30)				0 0	
10 15 20 25 30						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault. Mr. James Yoo with Alameda County Public Works Agency gave verbal authorization to pour sanitary seal. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.

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BORING NO.:	SG12	**PROJECT NO.:**	0772	**PROJECT NAME:**	The Phoenix - 801 Pine Street, Oakland
BORING LOCATION:	Approximately 210 ft. north and 28 ft. west of southeast corner of property			**ELEVATION AND DATUM:**	None
DRILLING AGENCY:	VTS Drilling LLC	**DRILLER:**	Glenn/Joel	**DATE & TIME STARTED:**	10/13/18 1130
DRILLING EQUIPMENT:	3.5-inch O.D. Hand Auger			**DATE & TIME FINISHED:**	10/13/18 1200
COMPLETION DEPTH:	7.0 Feet	**BEDROCK DEPTH:**	Not Encountered	**LOGGED BY:**	MLBD
FIRST WATER DEPTH:	Not Encountered	**NO. OF SAMPLES:**	None	**CHECKED BY:**	PMK

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. Concrete (5-inches)			Soil Gas Well Constructed; (See Description Below In Remarks Column)		Borehole hand augered from 0.4 to 7.0 ft. using 3.5-inch O.D. hand auger.
	0.4 to 1.0 ft. Dark brown silty fine sand (FILL); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)	FILL			0	
	1.0 to 4.0 ft. Color change to grayish-brown (SM); loose, moist. No PHC or solvent odor. (0,60,40)	SM			0 0	Water not encountered during hand augering. Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 10/13/18.
5	4.0 to 7.0 ft. Color change to orange-brown (SM); medium dense, moist, with orange mottling. No PHC or solvent odor. (0,70,30)				0 0	
10						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault. Mr. James Yoo with Alameda County Public Works Agency gave verbal authorization to pour sanitary seal.
15						Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: SG13 **PROJECT NO.:** 0772 **PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland

BORING LOCATION: Approximately 22 ft. west of Pine St., in planter on south side of Shorey St. **ELEVATION AND DATUM:** None

DRILLING AGENCY: VTS Drilling LLC **DRILLER:** Glenn/Joel

DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger

DATE & TIME STARTED: 10/13/18 1300

DATE & TIME FINISHED: 10/13/18 1340

COMPLETION DEPTH: 7.0 Feet **BEDROCK DEPTH:** Not Encountered

FIRST WATER DEPTH: Not Encountered **NO. OF SAMPLES:** None

LOGGED BY: MLBD

CHECKED BY: PMK

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.4 to 2.0 ft. Dark brown silty fine sand (FILL); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)	FILL		Soil Gas Well Constructed; (See Description Below In Remarks Column)	0	Borehole hand augered from 0.4 to 7.0 ft. using 3.5-inch O.D. hand auger. Water not encountered during hand augering. Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 10/13/18.
	2.0 to 5.0 ft. Light brown silty fine sand (SM); loose, moist. No PHC or solvent odors. (0,60,40)	SM			0 0	
5	5.0 to 7.0 ft. Orange-brown silty fine sand (SM); medium dense, moist, with orange mottling. No PHC or solvent odors. (0,60,40)				0 0	
10 15 20 25 30						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault. Mr. James Yoo with Alameda County Public Works Agency gave verbal authorization to pour sanitary seal. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.

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BORING NO.: SG14	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland			
BORING LOCATION: Approximately 90 ft. north of 8th St., in planter on east side of Pine St.			**ELEVATION AND DATUM:** None		
DRILLING AGENCY: VTS Drilling LLC		**DRILLER:** Glenn/Joel		**DATE & TIME STARTED:** 10/13/18 1315	**DATE & TIME FINISHED:** 10/13/18 1400
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger					
COMPLETION DEPTH: 7.0 Feet		**BEDROCK DEPTH:** Not Encountered		**LOGGED BY:** MLBD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered		**NO. OF SAMPLES:** None			

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.4 to 2.0 ft. Dark brown silty fine sand (FILL); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)	FILL		Soil Gas Well Constructed; (See Description Below In Remarks Column)	0	Borehole hand augered from 0.4 to 7.0 ft. using 3.5-inch O.D. hand auger.
	2.0 to 3.0 ft. Light brown silty fine sand (SM); loose, moist. No PHC or solvent odors.	SM			0	Water not encountered during hand augering.
	3.0 to 4.0 ft. Brown silty fine sand (SM); medium dense, moist, with orange and black mottling.No PHC or solvent odors. (0,60,40)				0	Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 10/13/18.
5	4.0 to 7.0 ft. Orange-brown silty fine sand (SM); medium dense, moist, with orange mottling. No PHC or solvent odors. (0,70,30)				0 0	
10 15 20 25 30						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault. Mr. James Yoo with Alameda County Public Works Agency gave verbal authorization to pour sanitary seal. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.

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BORING NO.: SG15	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 166 ft. north of 8th St., in planter on east side of Pine St.		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn	**DATE & TIME STARTED:** 11/19/18 1055	**DATE & TIME FINISHED:** 11/19/18 1120
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 7.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** MLBD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** None		

DEPTH (FT.)	**DESCRIPTION**	**GRAPHIC COLUMN**	**BLOW COUNT PER 6"**	**WELL CONSTRUCTION LOG**	**PID**	**REMARKS**
	0.0 to 2.0 ft. Dark brown silty fine sand (FILL); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)	FILL		Soil Gas Well Constructed; (See Description Below In Remarks Column)	0	Borehole hand augered from 0.0 to 7.0 ft. using 3.5-inch O.D. hand auger. Water not encountered during hand augering. Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 11/19/18.
	2.0 to 4.0 ft. Light brown silty fine sand (SM); medium dense, moist. No PHC or solvent odors. (0,60,40)	SM			0 0	
5	4.0 to 7.0 ft. Orange-brown silty fine sand (SM); medium dense, moist, with orange mottling. No PHC or solvent odors. (0,80,20)				0 0	
10 15 20 25 30						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault. Inspector Sam Braithwaite with Alameda County Public Works Agency gave verbal authorization to pour sanitary seal. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.

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BORING NO.: SG16	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland			
BORING LOCATION: Approximately 41 ft. south of Chase St., in planter on east side of Pine St.		**ELEVATION AND DATUM:** None			
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn			**DATE & TIME STARTED:** 11/19/18 1130	**DATE & TIME FINISHED:** 11/19/18 1150
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger					
COMPLETION DEPTH: 7.0 Feet	**BEDROCK DEPTH:** Not Encountered			**LOGGED BY:** MLBD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** None				

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 2.0 ft. Dark brown silty fine sand (FILL); loose, dry. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)	FILL		Soil Gas Well Constructed; (See Description Below In Remarks Column)	0	Borehole hand augered from 0.0 to 7.0 ft. using 3.5-inch O.D. hand auger. Water not encountered during hand augering. Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 11/19/18.
	2.0 to 4.0 ft. Light brown silty fine sand (SM); medium dense, moist. No PHC or solvent odors.	SM			0 0	
5	4.0 to 7.0 ft. Orange-brown silty fine sand (SM); medium dense, moist, with orange mottling. No PHC or solvent odors. (0,80,20)				0 0	
10 15 20 25 30						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault. Inspector Tony Xiong with Alameda County Public Works Agency onsite to observe and document pouring of the sanitary seal. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.

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BORING NO.: SG17	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 31 ft. north of Chase St., in planter on east side of Pine St.		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn	**DATE & TIME STARTED:** 11/19/18 1200	**DATE & TIME FINISHED:** 11/19/18 1230
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 7.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** MLBD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** None		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 1.0 ft. Dark brown silty fine sand (FILL); loose, dry. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)	FILL		Soil Gas Well Constructed; (See Description Below In Remarks Column)	0	Borehole hand augered from 0.0 to 7.0 ft. using 3.5-inch O.D. hand auger.
	1.0 to 3.0 ft. Brown silty fine sand (SM); medium dense, moist. No PHC or solvent odors. (0,60,40)	SM			0	Water not encountered during hand augering.
	3.0 to 5.0 ft. Light brown silty fine sand (SM); medium dense, moist, with clay between 4.5 to 5.0 ft. No PHC or solvent odors. (0,60,40)				0	Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 11/19/18.
5	5.0 to 7.0 ft. Orange-brown silty fine sand (SM); medium dense, moist, with orange mottling. No PHC or solvent odors. (0,80,20)				0 0	
10 15 20 25 30						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault. Inspector Sam Braithwaite with Alameda County Public Works Agency gave verbal authorization to pour sanitary seal. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.

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BORING NO.: SG18	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland			
BORING LOCATION: Approximately 215 ft. south and 10 ft. west of northeast corner of property		**ELEVATION AND DATUM:** None			
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn			**DATE & TIME STARTED:** 11/19/18 0730	**DATE & TIME FINISHED:** 11/19/18 0830
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger					
COMPLETION DEPTH: 7.0 Feet	**BEDROCK DEPTH:** Not Encountered			**LOGGED BY:** MLBD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** None				

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
0.0–0.5	0.0 to 0.5 ft. Concrete (6-inches).			Soil Gas Well Constructed; (See Description Below In Remarks Column)	0	Borehole hand augered from 0.5 to 7.0 ft. using 3.5-inch O.D. hand auger.
0.5–2.5	0.5 to 2.5 ft. Dark brown silty fine sand (FILL); loose, dry. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)	FILL			0	Water not encountered during hand augering.
2.5–6.0	2.5 to 6.0 ft. Light brown silty fine sand (SM); medium dense, moist. No PHC or solvent odors. (0,60,40)	SM			0 0	Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 11/19/18.
5						
6.0–7.0	6.0 to 7.0 ft. Orange-brown silty fine sand (SM); medium dense, moist, with orange mottling. No PHC or solvent odors. (0,70,30)				0	
10						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault.
15						Inspector Sam Braithwaite with Alameda County Public Works Agency gave verbal authorization to pour sanitary seal. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses.
20						2) Density determinations are qualitative and are not based on quantitative evaluation.
25						
30						

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BORING NO.: SG19	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland			
BORING LOCATION:	Approximately 168 ft. south and 87 ft. west of northeast corner of property		**ELEVATION AND DATUM:** None		
DRILLING AGENCY:	VTS Drilling LLC	**DRILLER:** Glenn		**DATE & TIME STARTED:** 11/19/18 0840	**DATE & TIME FINISHED:** 11/19/18 0935
DRILLING EQUIPMENT:	3.5-inch O.D. Hand Auger				
COMPLETION DEPTH:	7.0 Feet	**BEDROCK DEPTH:**	Not Encountered	**LOGGED BY:** MLBD	**CHECKED BY:** PMK
FIRST WATER DEPTH:	Not Encountered	**NO. OF SAMPLES:**	None		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.5 ft. Concrete (5.5-inches).			Soil Gas Well Constructed; (See Description Below In Remarks Column)		Borehole hand augered from 0.5 to 7.0 ft. using 3.5-inch O.D. hand auger.
	0.5 to 2.0 ft. Dark brown silty fine sand (FILL); loose, moist, with broken pottery. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)	FILL			0	
	2.0 to 3.0 ft. Brown silty fine sand (SM); loose, moist. No PHC or solvent odors. (0,60,40)	SM			0	Water not encountered during hand augering.
5	3.0 to 6.0 ft. Light brown silty fine sand (SM); medium dense, moist. No PHC or solvent odors. (0,60,40)				0 0	Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 11/19/18.
	6.0 to 7.0 ft. Orange-brown silty fine sand (SM); medium dense, moist, with orange mottling. No PHC or solvent odors. (0,80,20)				0	
10						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault. Inspector Sam Braithwaite with Alameda County Public Works Agency gave verbal authorization to pour sanitary seal.
15						Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: SG20	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland			
BORING LOCATION: Approximately 220 ft. south and 230 ft. west of northeast corner of property			**ELEVATION AND DATUM:** None		
DRILLING AGENCY: VTS Drilling LLC		**DRILLER:** Glenn		**DATE & TIME STARTED:** 11/19/18 0945	**DATE & TIME FINISHED:** 11/19/18 1030
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger					
COMPLETION DEPTH: 7.0 Feet		**BEDROCK DEPTH:** Not Encountered		**LOGGED BY:** MLBD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered		**NO. OF SAMPLES:** None			

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. Asphalt (4.5-inches).			Soil Gas Well Constructed; (See Description Below In Remarks Column)	0	Borehole hand augered from 0.4 to 7.0 ft. using 3.5-inch O.D. hand auger.
	0.4 to 4.0 ft. Dark brown silty fine sand (FILL); loose, moist, with gravel,pottery, brick, and glass to 1.0 ft. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)	FILL			0 0	Water not encountered during hand augering. Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 11/19/18.
5	4.0 to 6.0 ft. Light brown silty fine sand (SM); medium dense, moist. No PHC or solvent odors. (0,60,40)	SM			0	
	6.0 to 7.0 ft. Orange-brown clayey sand (SC); medium dense, moist. No PHC or solvent odors. (0,85,15)	SC			0	
10 15 20 25 30						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault. Inspector Sam Braithwaite with Alameda County Public Works Agency gave verbal authorization to pour sanitary seal. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.

APPENDIX B

Enthalpy Analytical Field Guide For Use of the Helium Shrouds, Standard Operating Procedures: MAI Helium Shroud During Soil Gas Sampling for Quantitative Leak Detection, Purge Volume Calculations, and Soil Gas Sampling Data Sheets

- **Enthalpy Analytical Field Guide For Use of the Helium Shrouds (9 pp)**
- **Standard Operating Procedures: MAI Helium Shroud During Soil Gas Sampling for Quantitative Leak Detection (8 pp)**
- **Soil Gas Purge Volume Calculations (1 p)**
- **June 4 and 5, 2018 Soil Gas Sampling Data Sheets (8 pp)**
- **September 6, 2018 Soil Gas Sampling Data Sheets (2 pp)**
- **October 17 and 18, 2018 Soil Gas Sampling Data Sheets (10 pp)**
- **December 10 and 15, 2018 Soil Gas Sampling Data Sheets (5 pp)**

Enthalpy Analytical Field Guide For Use of the Helium Shrouds

ENTHALPY ANALYTICAL

Field Guide for Use of the

HELIUM SHROUDS

Table of Contents

Figures & Diagrams

Introduction

Sampling soil gas wells using Helium leak tracer is not inherently difficult using Enthalpy Analytical's equipment, but it is relatively unforgiving of mistakes. The equipment has been field tested and through these tests we've learned that good results necessitate reviewing this document and following the procedures specified here. We strongly encourage our clients to practice set-up, Helium charging the shroud, using the detectors, and breakdown prior to sample collection. We've seen a very strong correlation between a thorough equipment orientation and successful sampling events. User errors related to a lack of orientation and preparation are the primary root cause of sampling errors and equipment failures.

The equipment supplied by Enthalpy Analytical's Berkeley laboratory has been cleaned, assembled, and leak tested using both pressurized Helium and vacuum decay methods. The preparation of all sampling equipment and media has been thoroughly documented.

If you suspect the sampling equipment is damaged or not functional, before using it please inform your laboratory Project Manager by calling the lab at 510-486-0900. Used and returned damaged equipment will be assessed cost for repair and replacement. Please do not disassemble and reassemble sampling trains and shrouds. They have been critically cleaned, assembled and leak checked for your use without further need for alteration. By breaking connections in sampling trains, users invalidate the lab's cleaning and prep effort.

Use of and Care for the EA-Berkeley Helium Detectors

When used properly, these diffusion cell He detectors provide real time measurement of Helium concentration in air from 1% to 99% Helium to accuracies of 0.1%. Prior to delivery, the He detectors are calibrated and performance verified. If, upon initial check, you discover the He gauge is apparently not working properly, call your C&T project manager immediately; repair and replacement costs will be assessed for all sensors returned damaged to the lab.

Figure 1: Diffusion Cell (left) and Flow-Through cell (right) Helium Detectors

Battery Charges last 4 hours: Helium Detectors using rechargeable NiCd batteries are fully charged before leaving the lab and hold a charge for 4 hours of use. Turn detectors on for use and off immediately after use and you'll make it through a day's sampling event without losing charge. The lab does not supply rechargers to users because the Diffusion and Flow-Through types require different voltages; using the wrong charger damages the detectors.

3 position switch: **On** is up, **Off** is neutral and down.

Required use technique for accurate Helium tracer measurements: These He detectors are sufficiently durable for portable field use; however they are precision measurement devices unforgiving of mistreatment or abuse, accordingly:

- Keep the He detector clean at all times, particularly around the white diffusion membrane cell opening. Dirt on, or in, the diffusion cell well will compromise calibration and result in extra fees for cleaning and recalibration.
- The He detectors are shock sensitive. Dropping the gauges onto a hard surface from a height of 2' or more can compromise calibration and may irreversibly damage the sensor and cause replacement or maintenance cost assessments. Please store and transport the gauges in the foam lined box provided.
- Helium detectors are moisture sensitive, don't get them wet

Accepting Enthalpy's Helium detectors binds your firm to the following conditions of use:

- Replacement costs are $900 + applicable shipping costs and sales tax.
- Minimum diagnostic, recalibration, and maintenance charges for damaged sensors are $120.

1. SETTING UP the Equipment

Equipment Supplied by EA-Berkeley

The following equipment should be present in the supply kit provided from the lab:

a. Integral shroud box and sampling train with 3 port valve
b. Helium supply components a) Helium bottle(s) (one bottle supplies enough for 4 wells), b) Braided steel Helium transfer tube with male QT connectors and; 3) Helium supply regulator with female QT connector
c. Helium Detector: Diffusion cell type (4 hours use on one charge)
d. Helium Detector: Flow-Through type (4 hours use on one charge)
e. Male QT ¼" OD Teflon tubing connector for connecting in port on flow through Helium detector to Purge port on Shroud
f. QT Vacuum gauge
g. 1.4 liter Sample canisters, one for each sample to be taken, some users request an extra to cover any aborted sampling events, well relocations etc…
h. Graphite or Ceramic ferules for joining ¼" OD Teflon tubing to well, one provided in each shroud/train inside the nut in the open port of the 3 port valve used to connect the soil gas well to the train.

Equipment NOT supplied by EA-Berkeley:

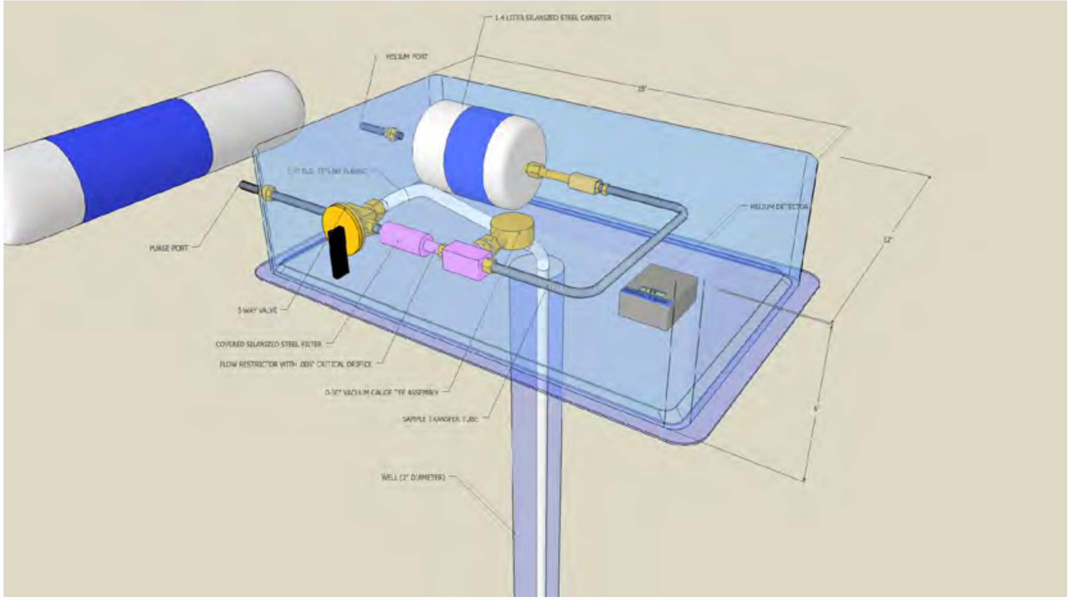
You will need the following items to complete your work; these items are not supplied by C&T unless specially requested:

a. Well purge suction source, alternatives available from the lab are: a) 50 ml disposable syringe with tubing adapters, b) evacuated 6 liter summa canister with 180 ml/min flow restrictor and filter, c) battery powered vacuum pump, d) 110V VAC powered vacuum pump
b. ½” x 9/16” open end combination wrench and one small crescent wrench. These are the tools needed to make compression fitting connections. C&T does not rent wrenches.
c. Extra Graphite or ceramic ferules as needed to insure you make a good well to train connection
d. ¼ OD Teflon tubing…Typically the well drillers have a lot of this stuff, if you need it
e. Knife (for cutting Teflon tubing)

1.1. **Position the shroud lid over the well.** Consistent Helium concentrations arise when the shrouds are used with the wellhead box lids provided. Some user protocols specify no box lid; in these cases, piling dirt around the edges of the box works to keep Helium inside the shroud. On windy days, a plastic windscreen employed either as a cover over the shroud or as an “air dam” has provided good results. We’ve experimented with using yoga mat material as “gaskets” for subslab sampling with mixed results.

If you’re using the lid, and we recommend you do, position the lid over the wellhead with the tubing arising through the hole in the lid. There is an audible snap when the lid is optimally attached.

Figure 2: Helium Tracer Shroud Components



1.2. Once the shroud lid is positioned over the well, check that the 3-way valve is in the ***off*** position and the train pressure gauge showing a vacuum.

This is your indication that the train is leak-free since leaving the lab and all you need do is make a tight connection from the well to the open port on the 3-way valve. If the 3-way valve is not in the ***off*** position as a result of some error in shipment, there may be no vacuum on the gauge. At this point, your sampling protocols will determine whether the train can be used or not.

All trains leave the lab holding vacuum with decay rates less than 5” in 12 hours. Many shroud trains have inconsequentially slow leaks; trains are stored more than 3 days since being shipped from the lab may have no vacuum showing on the gauge. In these cases, you can check the vacuum decay rate by connecting an extra canister to the train and observing the vacuum decay rate.

2. CONNECTING the Well to the Train 3-port Valve

2.1. To connect the soil gas well to the sampling train, you will be joining ¼” Teflon tubing to the 3-port valve. Either a ceramic or graphite ferule has been provided inside the nut on the open port of the 3-port valve for you to make this connection. The most important component in a compression fitting is the ferrule, which is prone to damage. Care should be used when installing it although if ceramic or graphite ferules become defective, it is easy to install a replacement.

A “straight” even tubing end in the ¼” OD Teflon tubing from the well to the 3-port valve is important to making a “tight” connection. Use a knife rather than scissors to cut the tubing at a 90 degree angle to the tube axis. Remove any “burrs” or irregularities in the tubing end before attempting the connection. Slip the nut over the tubing, then the ferule. The ferule should “point” toward the 3-port valve. Usually, it is not possible to install ferules “backwards”.

2.2. Keeping the 3 way valve in the ***off*** position, attach the well tubing to the open 3 way valve port. Avoid excessive force when tightening the nut. Over-tightening is the most common cause of leaks in compression fittings. If the nut is over-tightened, the ceramic or graphite ferrule frequently deforms, improperly causing the joint to fail. A good way to make these connections is to tighten the nut first by hand, until it is too difficult to continue, and then use a 9/16” open end wrench to tighten the nut with a full 360 degree turn; no more than a 1 and 1/4 turn should be needed to create a leak tight connection.

3. ATTACHING the Sample Canister to the Train

3.1. **Check the vacuum** in the sample canister using the QT Vacuum gauge, it should read -30” of Hg (full vacuum) if it reads less, use another sample canister.

3.2. While keeping the 3 way valve in the off position, attach the canister to the female QT fitting at the rear of the sampling train as follows:

  3.2.1. Pull the external sleeve of the female QT connector back to its stop, then
  3.2.2. Insert the male valve stem and allow the sleeve to return to its spring loaded position. When the QT connection is made the canister (male) valve is open to the train.
  3.2.3. Try to pull the canister off the train without retracting the female QT sleeve. A correctly made QT connection cannot be broken without retracting the sleeve on the female valve stem.

A word about Micro QT Fittings: Micro Quick connect valves (QT) offer superior performance and ease of use compared to alternative tubing connections and valves. QT fittings provide highly reliable leak free connections without tools especially for fittings that are made and broken frequently.

Fine sand and/or grit (such as dry bentonite) damages male and female QT valves and connections. Keep both male and female QT valve components scrupulously clean. Please use the orange or red plastic caps provided for the male QT fittings, they protect the valve stem while shipping and protect your sample during return shipment to the lab.

When removing or replacing orange plastic protective caps on the male QT fittings, push them straight on and pull then straight off the valve stem. Twisting the cap counterclockwise while removing or replacing on the valve stem can dissemble the valve stem causing vacuum and/or sample loss.

4. POSITIONING the Shroud over the Well

4.1. Position the diffusion Helium gauge out of the way on a portion of the lid that allows you a good view of the display with the shroud in place. Then invert the shroud assembly over the lid and snap lid into position.

4.2. With the shroud assembled in place, you should be able to view the vacuum gauge well enough to verify that vacuum is holding and you can see the Helium detector display. Our apologies for the opaque portions of the boxes, if you know of hard plastic boxes, with clear panels we'd love to learn about them.

5. CHARGING the Shroud with Helium

Enthalpy provides Aluminum lecture bottles filled with 300 psi Helium; each bottle of Helium contains 48 liters at atmospheric pressure, enough to easily supply 20% Helium atmospheres to 6 single Shrouds and 3 double shrouds. The amount of Helium used depends predominantly on wind and time required to sample the well, with experience, you'll use less Helium. Your protocol will specify the Helium concentration in the shroud. The following guidance is based on sampling under a 20-25% Helium in air atmosphere. Regardless of your target helium concentration, your objective

should be to maintain a steady concentration of Helium during the sampling event at levels above 10% Helium in air.

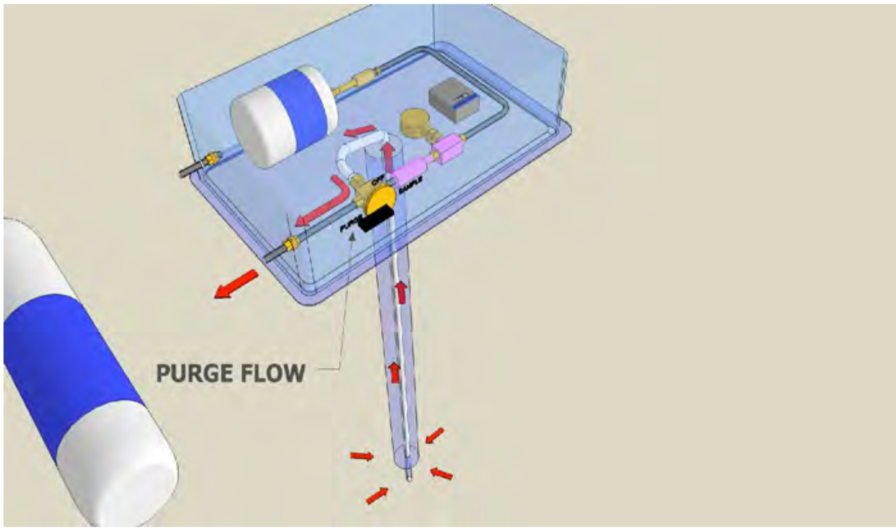
5.1. Locate and assemble the Lecture bottle, Helium transfer line, and the gas supply regulator. Tighten the brass nut attaching the regulator to the bottle one half turn past finger tight with a crescent or 9/16" open end wrench. The regulator is preset to deliver Helium at ideal pressure; ***you need not adjust the regulator***. Add Helium to the shroud by opening and closing the valve at the top of the bottle. Attach the Helium transfer line using the QT fittings at the regulator and at the Helium port on the shroud.

5.2. To provide Helium flow, slowly open the lecture bottle valve by twisting ***counterclockwise*** about ¼ turn.

5.3. Deliver 10 lbs of Helium at a time to the ***single*** shroud and 20 lbs to the ***double***. The diffusion cell Helium detector will respond in about 30 seconds to the new concentration. Unstable Helium detector readings reflect turbulent gas mixing inside the shroud. Plug holes between the shroud and the surface, use plastic sheeting to create an "air dam" or take other measures to air movement around the shroud and thus turbulence inside the shroud.

5.4. Monitor the Helium concentration displayed on the gauge in the shroud for about a minute in single shrouds, 90 seconds or longer in doubles. Under ideal conditions, 40 psi from the bottle will charge a single shroud to 25% helium concentration; double shrouds will require 80 psi. 25% Helium concentrations are maintained in the lab (zero wind) for 6-10 minutes. You may add more helium while purging and sampling. We suggest 10 psi increments for singles and 20 psi for doubles by opening the lecture bottle valve ¼ turn. We suggest users record/document the Helium concentration in the shroud at a minimum of 2 minute intervals during sampling.

Figure 3: Purge Flow Diagram



6. PURGE TESTING the Well under Helium

This test will help you establish the integrity of the well and the train to well connection. If no Helium is detected in the purge gas flow using this technique, one can assume the well is tight to breakthrough, and the train connections are all tight, and thus there will be no Helium detected in the sample that goes to the lab.

6.1. While getting the Helium concentration established, assemble the well purge train. Place the inline Helium detector between the shroud and whatever device (evacuated canister, syringe, or vacuum pump) that you're using to provide purge suction.

6.2. With the Helium atmosphere established in the shroud at 20% or more, and the purge system ready to operate, begin purging by moving the 3 way valve selector position to ***Purge*** and then establishing suction on the purge line.

6.3. Observe the inline Helium detector display while applying suction on the purge line. If you've purged enough vapors from the well to represent the entire volume of the path from the surface (under Helium atmosphere) to the distal end of the sampling tube and back up the tube and through the detector without detecting any Helium, your well shows signs of integrity and you may have a good leak free sample.

CA-DTSC guidance provides the opinion that a 5% ambient air dilution is inconsequential to sample integrity. When sampling under a 20% Helium in air atmosphere, 1% Helium detected in the purge gas represents a 5% ambient air sample dilution.

7. SAMPLING the Well under Helium

After you've completed purging the well, verify the reading on the Vacuum gauge of the train is -30 inches and that you have a steady state concentration of Helium between 20-25%, and then begin sampling by moving the 3 way selector valve to the ***Sample*** position.

Monitor the Helium concentration in the shroud by recording the reading on the diffusion cell detector inside the shroud every other minute or so. Add Helium from the bottle as needed to maintain a steady state concentration of Helium under the shroud.

Figure 4: Sampling Flow Diagram

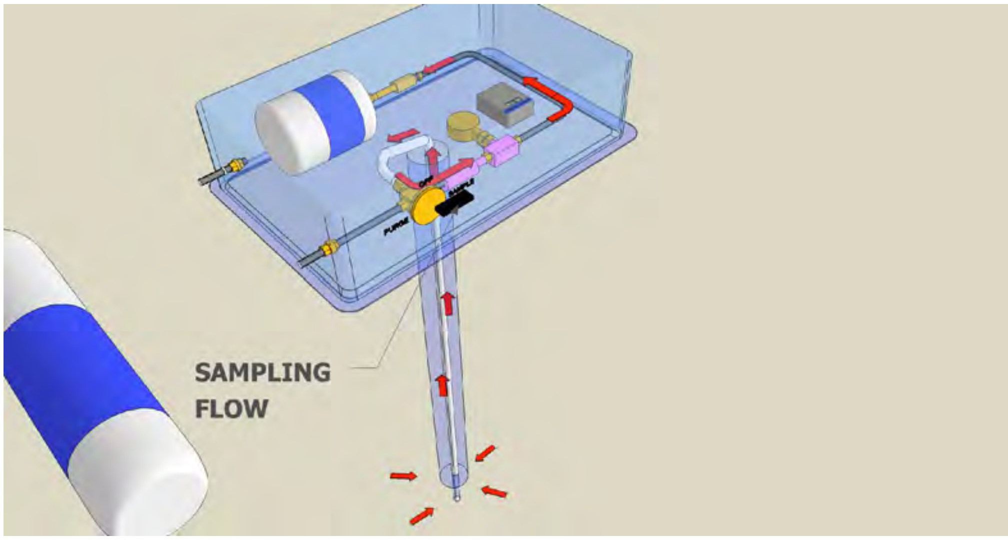
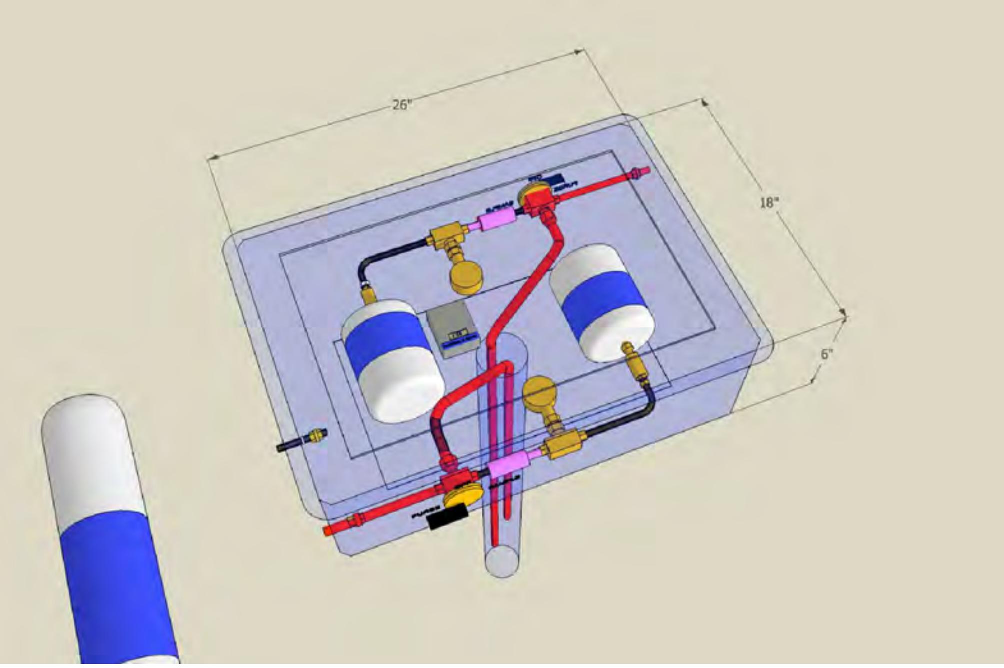


Figure 5: Dual Depth Well Sampling Shroud



Standard Operating Procedures: MAI Helium Shroud During Soil Gas Sampling for Quantitative Leak Detection

Standard Operating Procedure:

MAI Helium Shroud during Soil Gas Sampling for Quantitative Leak Detection

1. Scope and Application

1.1 The purpose of the Helium shroud technique is to detect leaks during the soil gas sampling procedure.

2. Summary

2.1 The shroud is placed over the borehole to be tested & infused with helium at low pressure. The shroud does NOT need to be gas tight, just rich with Helium vapor. Compared to other liquid leak check compounds such as propanol(s) or Freons, Helium does not interfere with the target compound measurements and hence eliminates the need for sample dilutions, which results in better reporting limits. If there is a leak that comprises less than 5% of the sample, Helium content can be quantitatively analyzed, and the leak dilution factor can be determined during the laboratory analysis after soil gas sampling. A leak of less than 5% is considered an acceptable leak as specified in March 2010 DTSC soil gas sampling guidelines.

2.2 Use of the Helium shroud with an MAI designed soil gas manifold has the following capabilities.

2.2.1 Borehole seal integrity. Surface air intrusion can be checked in real-time, so that sampling can be aborted as wanted.

2.2.2 The Helium shroud can be used with MAI supplied purge can, user-supplied vacuum pump, or a manual syringe.

2.2.3 Allows shut-in-test for verification of leak free manifold.

2.2.4

- Quantitative measurement of Helium content within shroud, which combined with lab analysis of Helium content in sample can, allows quantitative evaluation of leak and assessment of < 5% DTSC criteria.
- Rotameter and vacuum gauges allow assessment of DTSC defined low permeability soils and provide the needed flow/ vacuum measurements required for compliant sampling.
- MAI's specially designed sampling manifolds offer the option for split sampling upon request. Simultaneous duplicate TO15 and sequential TO15 followed by TO17 sorbent tube (ST).
- MAI's special design optionally allows for simultaneous sampling of a borehole at 2 different depths.
- Allows visual monitoring of shroud helium content via helium meter.
- Sample technician friendly: allows flood or trickle/maintenance helium input.

2.3 MAI's helium shroud is covered with a secured flexible plastic sheet that functions as the lid. Handling of the equipment inside the shroud is done through the sheet. Practice before field sampling is encouraged for a successful sampling experience.

3. Equipment & Supplies

3.1 All the necessary devices needed for a complete soil gas sampling process with Helium as leak check compound are provided by MAI. Complete basic kit includes: Helium tank, Helium meter, small pump, purge can with Rota meter attached, cork borehole barriers, sample cans and manifolds. (See figure 1.)

3.2 The following equipment listed below is provided by MAI.

3.2.1. Six-liter plastic shroud box with lid of plastic sheeting. There are five connection ports located on the sidewalls of the shroud. They are labeled respectively as Port #1, Port #2, Port #3, Port #4 and Port #5 (See figure 1).

a. Port #1 is for attaching the Purge can/ a vacuum pump to the sample train.

b. Port #2 is the connection of the air pump to the shroud. The air pump facilitates the stabilization of the Helium concentration at 20%.

c. Port #3 connects the Helium meter to the shroud for monitoring Helium content in the shroud.

d. Port #4 allows a reading of Helium in the borehole, when borehole integrity test is needed, as well as a purged volume determination with a syringe

e. Port #5 connects the Helium shroud to the Helium supply tank.

f. Two inch diameter opening for borehole access.

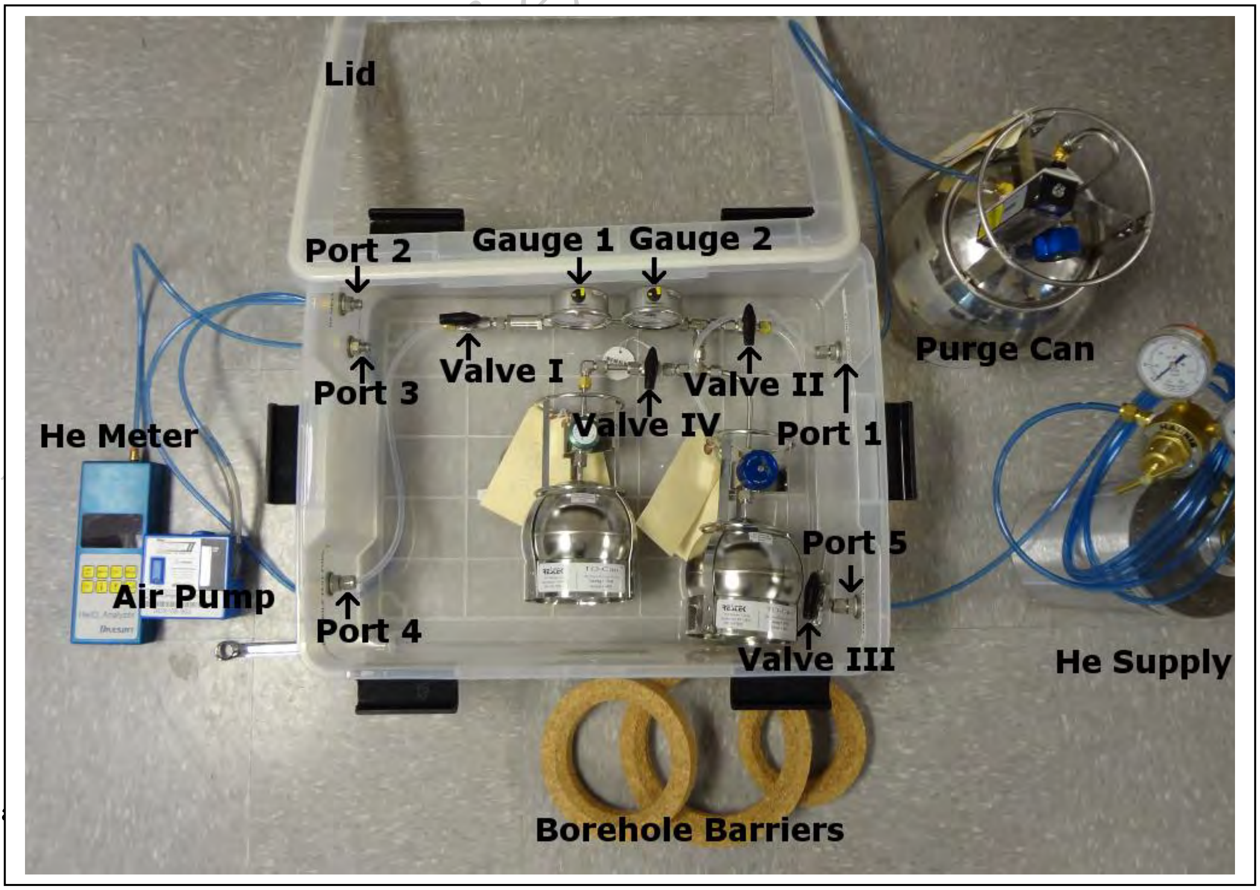


Figure 1. MAI designed Helium Shroud

3.2.2 A 2.24-liter Helium (99.995%) cylinder with a regulator set at 10 psi. Check the pressure gauge on Helium tank prior to sampling. If the pressure gauge reads less than 100 psi, then the Helium tank must be replaced.

3.2.3 A superior Helium meter, which measures Helium/Oxygen concentrations from 0% to 100% with ± 0.1% accuracy. The connection ports on the helium meter have been labeled for your convenience. A fully charged Helium meter should last up to 10 hours. *Note: To obtain an accurate reading on the Helium meter, the sampler must use the 60 mL syringe and give a quick pull on the plunger. (Pulling 60 mL of air through within a second is sufficient.)

3.2.4 The 60mL syringe is used to provide suction and force the airflow through the Helium meter or to quantify the "purged volume"

3.2.5 One Sensidyne pump set at 1250mL/min for maintaining a stable 20 %(±2%) Helium concentration in the shroud.

3.2.6 One 6-liter purge canister with Rota meter attached as suction/evacuation source for leak testing, well purging and a check for low permeability soils.

3.2.7 Cork shroud stabilizers of various sizes are included to level/stabilize the helium shroud.

3.2.8 An additional 1-liter sample canister can be provided for the optional TO17 sampling in order to:

a) to provide vacuum to pull sample through.
b) to allow calculation of the volume pulled through.
c) analyze for Helium as a leak check compound

The helium shroud may be reused for multiple borehole sites. However, due to potential cross contamination between borehole sampling, each borehole tested requires a separate certified 1-liter sample canister and certified sampling manifold. As there is no helium shroud tubing that contacts the sample upstream of the manifold; all Teflon tubing is reused.

4. Sampling Media

4.1 MAI's sampling manifold, which includes the following:

a. 3-way valveI on the borehole side of the manifold. The tapered end of the valve points to its connection direction.
b. A stainless steel 7-micron particle filter.
c. Vacuum gauge #1 reads the borehole side pressure.
d. A stainless steel flow restrictor.
e. Vacuum gauge #2 reads the sampling canister pressure and indicates when to stop sampling
f. Optional split sample attachment.
g. 2-way valve turns on/off the access to the purge can.

4.2 A 1-liter certified sample canister

4.3 An optional thermal desorption tube (sorbent tube) for TO-17 (MAI routinely includes naphthalene in TO15).

4.4 An optional split sample manifold attachment

   a. for simultaneous TO15 duplicate
   b. for serial TO15 and TO17 sorbent tube
   c. Optional second manifold for dual depth simultaneous sampling.

4.5 The soil gas manifold is leak checked in the lab prior to preparation for distribution. DO NOT DISASSEMBLE SOIL GAS MANIFOLD IN ANYWAY. Any damage to the equipment during sampling will incur repair fees.

5. Procedure

5.1 Assemble the shroud

5.1.1 Place cork shroud stabilizer over wellhead (various sizes provided for convenience and shroud stabilization)

5.1.2 Position shroud box so 'borehole access' is over borehole/borehole barrier, ensure well sampling tube rises up through wellhead and gasket into helium shroud box.

5.1.3 Position sampling manifold and sample canister(s) in shroud and make necessary connections.

Note: Optimally, to reduce contamination, cut surface section of well tubing before connecting to Valve I.

5.1.4 Connect the well tubing to 3-way valve I (the port that is perpendicular to the manifold) Tighten the nut over the tubing to make a good seal but do not over tighten as brass ferrules can easily shear Teflon tubing.

5.1.5 Connect the port 4 tubing to the remaining end of Valve I on the manifold. (the port in line with the manifold)

5.1.6 Connect Valve II to the tubing of port1

5.1.7 Connect purge can to Port #1 on the outside of the shroud box

5.1.8 Helium supply line is connected to Port #5.

5.1.9 Helium meter is initially connected to Port #3 for testing Helium concentration in the shroud. Prior to sampling, to conduct well integrity test for helium content, connect helium meter to Port 4.

5.1.10 Connect air pump to Port #2.

5.2 Charge the shroud with Helium

5.2.1 Initial Charge

5.2.1.1 Place plastic sheet loosely over box and secure with lid and lid clamps. Ensure a loose fit for valve manipulation. Ensure there are no gaps between the plastic sheet and lid. It is NOT necessary to adjust regulator pressure for helium supply bottle; it is preset at 10 Psi by MAI to sustain a constant 250mL/min helium flow to shroud and optimized for maintaining a 20% helium concentration. Turn 3-way valve III to 'flood' position (tapered end of the valve points to the nearest shroud wall) for initial Helium charge, which takes less than 5 seconds to is needed to reach a 20% Helium concentration. Briefly kneading the plastic cover post helium "flood" will expedite a 20% Helium equilibrium within the shroud.

5.3 Sampling train volume estimation.

- MAI has estimated sampling train volumes for multiple sampling configurations. Volume estimates are calculated from manifold's Valve I to the source of suction. They are listed here for sampler's convenience:
- Single sample configuration: 18.8 mL
- Duplicate sample configuration: 20.6 mL
- Serial TO15 and TO17 with Helium sample canister: 20 mL
- Serial TO15 and TO17 without Helium canister: 18.8 mL

5.4 Maintaining Helium Concentration in Shroud

5.4.1 After initial "flood" of helium (about 5 sec), turn Valve III to 'low purge' position (tapered end of valve –with arrow– will point toward far shroud wall/Port 1). The helium tank is set at 250 mL/min helium flow, used in conjunction with an air pump at the opposing side of the shroud; pulling 1.25 mL/min out of the shroud will roughly maintain a 20% helium concentration within the shroud.

Note: Initial helium concentration will be much higher than 20%, however it will stabilize in roughly 5 min.

5.4.2 Monitor helium concentration within shroud regularly throughout sampling process to assure it is maintained at 20% helium (±2%). To do this, simply attach the 60mL syringe to the outlet on the meter and quickly pull 60mL, repeat two times (total of three pulls). It is recommended to record the helium concentration within the shroud once every minute (April 2012 DTSC Advisory).

5.4.3 Maintain helium at 20% concentration for five minutes before beginning sampling process.

5.5 Shut In test

5.5.1 The purpose of this test is to detect leaks in the above-ground sampling apparatus.

5.5.2 A six liter evacuated canister is employed as the vacuum source for the Shut-In test and the Leak test. A Rota meter attached to the purge can monitors flow rate, Gauge 1 (left side) on the manifold indicates vacuum level of well in negative inches of mercury (- inHg).

5.5.3 Ensure sampling container(s) and Valve I are closed (Valve I is closed when perpendicular to manifold); open Purge Can valve, then open 2-way Valve II (Valve II open when in line with manifold).

5.5.4 Once vacuum gauges read -30 inHg (or 100 inH20) close Purge Can valve. Verify absence of a significant leak by monitoring vacuum gauges on sampling manifold for a loss of vacuum for AT LEAST ONE MINUTE.

Note: No movement on either gauge for ONE MINUTE is sufficient to proceed (during this time, see "6. Leak Test" below, and perform the Leak test before proceeding here). If there is a noticeable leak *of the sampling train during the Shut-In test, REPLACE the manifold and REPEAT the Shut-In test of the new manifold.*

5.5.5 If no significant leak is detected; Valve I and purge can valve are reopened and soil permeability is noted.

Note: Two criteria MUST be met; sample flow of at least 100mL/min AND borehole vacuum of -7.35 inHg are required to proceed. If these conditions are not met, damage to MAI equipment may occur at the expense of the sampler. Please see the "Sampling" section of this document for sampling procedure when the aforementioned criteria are not met.

5.6 Leak Test

5.6.1 The purpose of this test is to determine if ambient air is introduced into the sample during collection

5.6.2 The MAI Helium Shroud design allows for the Leak test to be performed while the Shut-In test is in progress. The Leak test is performed to verify a gas-tight connection between the borehole tubing and the manifold as well as confirm a good grout "seal" prior to sample collection.

5.6.3 It is used for shallow wells to determine if there is high permeability between the sub-surface sample tubing and the ground surface. This test is useful only if sampling will be aborted if a borehole leak is detected.

5.6.4 While waiting the "one minute" time requirement of the Shut-In test, attach helium meter to end of blue tubing on Port 4.

5.6.5 Using 60mL syringe take a helium reading of the borehole; attach syringe to outlet of meter and give a quick pull on the plunger. (Pulling 60 mL of air through within a second is sufficient.) Repeat 2 times to get an accurate reading.

5.6.6 If shroud is charged to 20% (±2%) helium and meter reads < 1% helium in well, borehole seals pass DTSC< 5% leak criteria.

5.7 Purge Volume Test

5.7.1 *Note: There are several procedures for determining well volume and purging well volume. Please refer to the* April 2012 DTSC Advisory section 4.2.3 – 4.3 *for more information. An accepted method is listed below; however, this method may not be appropriate for all wells and may not always apply.*

5.7.2 Turn 3-way Valve I so it is perpendicular to the manifold (pointing towards Port 4). Attach 60 mL syringe to end of blue tubing attached to outside of shroud box at Port 4.

5.7.3 Using the supplied 60mL syringe, pull suction on borehole sampling tube until plunger resistance is felt, noting final volume evacuated. The default purge volume is three times that of the well tubing volume (April 2012 DTSC Advisory

5.8 Sampling

5.8.1 After Shut-In test, Leak test, and purge volume procedures have been completed and helium concentration is maintained at 20% (±2%); ensure 3-way Valve I is perpendicular to manifold (pointing towards Port 4) and therefore allowing sampling from well.

5.8.2 Conventional TO15 summa sample collection procedures are now used. Generally, sample collection ceases when Gauge 2 (located on the sample canister side) reads approximately -5 inHg. **At 150ml/min a 1L summa will fill in approximately six minutes**. During sampling monitor helium concentration regularly.

5.8.3 DTSC recommends samples not be collected if down hole vacuum (Gauge 1) registers < -7.35 inHg (-100 inches of water), or flow falls below 100ml/min, indicating soil permeability is too low.

5.8.4 If low permeability is observed, close sampling can from sampling train IMMEDIATELY to prevent excessive moisture from entering into sampling canister, as this will invalidate the sample.

5.8.5 If soil is observed as low permeability soil, special sampling procedures are required as outlined in April 2012 DTSC Advisory App D.

5.8.6 If borehole vacuum reaches < -7.35 inHg, sampling should be suspended by closing valve on sampling can. After a few minutes, soil gas will replenish borehole and vacuum will gradually dissipate (refer to Gauge 1 located on borehole side of manifold for vacuum reading during this time). Sampling may resume after soil gas replenishes.

5.8.7 Once vacuum decreases, and sampling resumes, it is imperative that the sampler closely monitors borehole pressure as it may drop below -7.35 inHg again. If this occurs, repeat the 'shut' to 'replenish', then 'sample' cycle until sampling is completed. Length of replenish time depends on permeability of soil.

5.9 Optional Sampling Step

5.9.1 Sequential TO15 and TO17 sampling:

Naphthalene may be required to be sampled using TO17 sorbent tubes and a helium shroud. A modified set up for split sampling can be used, which consists of one TO15 sample can, a sorbent tube (ST), a TO17 purge/sample can, an additional 2-way valveIV and a 75ml/min flow restrictor, the latter two items are both located on the 'split sample attachment'. The TO17 ST is located between the 2-way valveIV/flow restrictor and the purge/sample can. This configuration is ideal for the following:

5.9.1.1 Restricts flow to the prescribed 50-100ml/minute (DTSC stipulation)

5.9.1.2 Allows naphthalene to be collected on the ST

5.9.1.3 Helps determine collected air STP volume that has passed thru the ST by lab measurement of the sample can initial and final pressur

5.9.1.4 Collects sample for helium leak check analysis in that branch's sample can.

5.9.2 Installation of TO17 sorbent tube also requires the sampling flow direction is the same as indicated on the tube body. Naphthalene cannot be desorbed from the tube if collected at the wrong end of the tube. Teflon (TFE) ferrules are used for connections on the ST. Use of metal ferrules are strictly prohibited for connecting TO17 ST as they permanently damage the tube, Such damage will be billed to sampler.

5.9.3 An alternative TO-17 sampling technique, using the above set up but without the helium shroud & without the second pristine purge can, can be performed by using IPA wetted rags as the leak check and a vacuum pump or 'used' purge can suction. IPA needs to be added to analytical the target list.

5.9.4 Duplicate TO15 sampling. Simultaneous duplicate sampling can be achieved by connecting an additional 1-liter canister to the manifold. The designated 'split sample attachment' must be used. Note: When TO17 ST sampling is needed, 2-way valveIV is in 'off' position during the shut in test. The valve is only turned on for sampling TO17 ST. On the contrary, 2-way valveIV is 'on' for the shut in test during simultaneous TO15 sampling.

6.0 Disconnect and move to the next site

6.1 After sample collection; close valve to sample canister, close valve on helium Supply, remove shroud lid, and detach borehole tubing from sample manifold.

6.2 Carefully label and remove sample manifold(s), canister(s) or sorbent tube(s) from shroud and ready the sampling apparatuses for shipment to McCampbell Analytical Inc.

6.3 Place the attached purge can, helium tank, 60 mL syringe, helium meter, air pump and tools into the shroud body, carefully remove the shroud and its contents from the borehole and collect the borehole seals/stabilizers and place them into the shroud box.

6.4 The shroud is now ready for transport to next borehole: the helium shroud, helium supply tank, helium meter, air pump, syringes and purge can are reusable. However, a clean certified manifold and sampling canister are needed for sampling the next well site.

6.5 When the sampling apparatuses are shipped to McCampbell Analytical Inc., TO-15 (or client specific target list) helium should be requested for analysis. Be sure to fill out Chain of Custody (COC) as completely as possible. All serial numbers of the equipment used for the sampling event need to be recorded on the COC.

7.0 References

6.1 Cal/EPA March 2010, Theo Johnson: Department of Toxic Substance Control, Advisory-Active Soil Gas Investigation DRAFT Advisory – Active Soil Gas Investigation CA EPA, March 2010

Soil Gas Purge Volume Calculations

7.0 feet tubing, 12 inch sand interval, 6 inches hydrated bentonite interval above sand

Soil Gas Purge Volume Calculations

One Purge Volume is calculated as the volume of the tubing interior plus the volume of the sand interval of the borehole.

The tubing interior volume is calculated as follows:

V tubing = pi x (r x r) x h, where pi = 3.14, r = 0.187 in/2, and h = 7.0 ft.

V tubing = 3.14 x (0.0935 x 0.0935) x (7 ft. x 12 in./ft) = 2.31 cubic inches.

The sand interval volume is calculated as follows:

V sand interval = pi x (r x r) x h x porosity, where pi = 3.14, r = 3.5 in./2, h = 12 in., and porosity = 0.35

V sand interval = 3.14 x (1.75 x 1.75) x 12 x 0.35 40.39 cubic inches.

The total volume for one purge volume is V tubing + V sand interval, where

V total = 2.31 cubic inches + 40.39 cubic inches = 42.69 cubic inches.

To convert to cubic centimeters:

V total = 42.69 cubic inches x 16.39 cubic centimeters/cubic inches = 699.8 cubic centimeters.

The total volume to be purged is 3 purge volumes.

V purge total = 699.8 cubic centimeters x 3 2099 cubic centimeters.

The flow controller has a nominal flow rate of 150 cubic centimeters per minute.

The purge time is calculated as follows:

T purge = 2099 cubic centimeters/ 150 cubic centimeters per minute = 14.00 minutes.

Converting the purge time to seconds, 14.00 minutes x 60seconds/ minute = 840 seconds.

Notes:

🟨 Yellow hi-lite indicates data entry required.
🟦 Blue hi-lite indicates values are calculated or automatically updated.

Sand interval is 1 ft from 5 to 6 ft bgs, filter is at center of sand pack, 0.5 ft hydrated bentonite above sand, then neat cement to surface.

June 4 and 5, 2018 Soil Gas Sampling Data Sheets

SOIL GAS SAMPLING DATA SHEET

Site Address	The Phoenix - 801 Pine St, Oakland		Page 1 of 1
Job #	772	Probe Method (check one)	
Date	6/4/2018	o PRT	
Drilling Company	None	o Temp Well	
Laboratory	Enthalpy Analytical	[✓ Permanent Well]	
P&D Sampler	LKD	Summa Canister Number	398
		Duplicate Summa Canister Number	
		Shroud Number	311
Soil Gas Well Number	SG4	Helium Shroud (Y/N)	Y
		Initial manifold vacuum/ time	-10 10:13

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
10:13	~~Start tr~~	00.3				
10:14	Start tracer gas	18.3				
10:19		4.0				
10:25	Start tracer gas	19.0				
10:30		18.3				
10:48:13	Begin purge	21.7	00.4			
10:49	Pull water					

SOIL GAS SAMPLING DATA SHEET

Page 1 of 1

Site Address	The Phoenix - 801 Pine St, Oakland
Job #	772
Date	6/4/2018
Drilling Company	None
Laboratory	Enthalpy Analytical
P&D Sampler	LKD
Soil Gas Well Number	SG5

Probe Method (check one)
○ PRT
○ Temp Well
☑ Permanent Well

Summa Canister Number	313
Duplicate Summa Canister Number	
Shroud Number	313
Helium Shroud (Y/N)	Y
Initial manifold vacuum/ time	-30 11:19

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
11:18	Initial He reading	00.2				
11:23	Begin tracer gas	00.4				
11:27		20.1				
11:28		21.4				
11:29:25	Begin purge	17.6	00.6			
11:30	Water pulled - in manifold					

SOIL GAS SAMPLING DATA SHEET

Site Address: The Phoenix - 801 Pine St, Oakland
Job #: 772
Date: 6/4/2018
Drilling Company: None
Laboratory: Enthalpy Analytical
P&D Sampler: LKD

Soil Gas Well Number: SG6

Page 1 of 1

Probe Method (check one)
○ PRT
○ Temp Well
☑ Permanent Well

Summa Canister Number: 126
Duplicate Summa Canister Number:
Shroud Number: 318
Helium Shroud (Y/N): Y
Initial manifold vacuum/ time: -30 12:09

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
12:09		00.3				Gages for SG well & summa vacuums pointed in hard to read directions
12:09:43	Start tracer gas	00.3				
12:11:41		19.4				
12:14:43		22.4				
12:16:40	Start purge	23.0	-00.4			
12:17:55		20.8	-00.3			
12:19:55		21.1	-0.6			
12:21:55		19.7	-0.6			
12:23:55		21.8	-0.6			
12:25:55		19.2	-0.6			
12:27:55		20.9	-0.6			
12:28:55		21.4	-0.6			
12:30:40	End purge	22.6	-0.6			
12:31:40	Begin sample	21.0	~~-0.5~~	-27	0.6	
12:33:43		~~19~~ 21.4	~~-0.5~~	-22	~~0.1~~ 0.0	
12:35:08		19.8	~~-0.5~~	0.0	19.0	
12:37:20		21.2	~~+0.5~~	0.0	12.5	
12:39:11		18.1		0.0	8.5	
12:41:01	End sample	24.1		0.0	5.0	

SOIL GAS SAMPLING DATA SHEET

Site Address	The Phoenix - 801 Pine St, Oakland	Page 1 of 1
Job #	772	Probe Method (check one)
Date	6/4/2018	o PRT
Drilling Company	None	o Temp Well
Laboratory	Enthalpy Analytical	☑ Permanent Well
P&D Sampler	LKD	Summa Canister Number
		Duplicate Summa Canister Number 338
		Shroud Number 318
Soil Gas Well Number	SG6 - REP	Helium Shroud (Y/N) Y
		Initial manifold vacuum/ time -30 13:25

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
13:22		0.4				
13:23	Start tracer gas	0.4				
13:25		21.6				
13:28		22.3				
13:29:08	Begin purge	21.9	-0.6			
13:30:14		22.2	0.8			
13:31	Shut off pump	20.0	0.7			
13:37		0.3				
13:39:04	Begin purge	21.5	-0.4			
13:40:45		19.5	-0.6			
13:41:20	Begin sample	21.8	-0.7	0.0	-28	
13:44:00		21.5		0.0	-19	
13:46:10		20.3		0.0	-13	
13:48:45		21.2		0.0	-8	
13:50:12	End sample	18.8		0.0	-5	

SOIL GAS SAMPLING DATA SHEET

Site Address	The Phoenix - 801 Pine St, Oakland
Job #	772
Date	6/4/2018
Drilling Company	None
Laboratory	Enthalpy Analytical
P&D Sampler	LKD
Soil Gas Well Number	SG6 - DUP SG6 - DUP / REP

Page 1 of 1

Probe Method (check one)
○ PRT
○ Temp Well
☑ Permanent Well

Summa Canister Number 271
Duplicate Summa Canister Number 420
Shroud Number 318
Helium Shroud (Y/N) Y
Initial manifold vacuum/ time DUP -30 13:56
DUP, REP -29.5 14:16

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
13:56		0.3				
13:56:20	Start tracer gas	0.3				
14:00:10		20.9				
14:02:20		19.1				
14:02:55	Pull on XTM	22.4	-0.6			
14:04:30	Begin sample	24.6	~~-0.6~~	0.0	-30	
14:06:29		20.1	~~-0.6~~		-23	
14:08:10		22.6	~~-0.6~~	0.0	-18	
14:09:40		23.6		0.0	-13	
14:11:29		24.0		0.0	-9	
14:12:44		20.9		0.0	-6	
14:13:25	End sample	19.5		0.0	-5	
	SG6-DUP, REP					
14:16:44	Inject tracer gas	0.4				
14:18:42		22.0				
14:20:15		20.0				
14:21:44		21.8				
14:22:25		24.5	-0.7			
14:22:55	Begin purge	25.0	-0.7			
14:23:55		23.2	-0.7			
14:24:15	Begin sample	21.8		0.0		
14:25:46		16.1		0.0	-23.	
14:27:30		23.1		0.0	-18	
14:29:15		21.4		0.0	-13	
14:30:39		19.4		0.0	-10	
14:32:57		28.0		0.8	-6	
14:33:10	End sample	27.2		0.0	-5	

SOIL GAS SAMPLING DATA SHEET

Site Address	The Phoenix - 801 Pine St, Oakland	Page 1 of 1
Job #	772	Probe Method (check one)
Date	6/4/2018	○ PRT
Drilling Company	None	○ Temp Well
Laboratory	Enthalpy Analytical	☑ Permanent Well
P&D Sampler	LKD	Summa Canister Number 341
		Duplicate Summa Canister Number 142
		Shroud Number 270
Soil Gas Well Number	SG7	Helium Shroud (Y/N) Y
		Initial manifold vacuum/ time -29 14:40:55

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
14:40:55		0.1				
14:41:46	Start tracer gas	0.1				
14:46:46		21.3				
14:50:00	~~Begin purge~~	22.5				
14:51:47	Begin purge	24.9	-0.6			
14:53:24		19.6	-0.6			
14:55:10		19.6	-0.6			
14:57:10		19.8	-0.6			
14:59:10		21.4	-0.6			
15:01:10		21.0	-0.6			
15:03:10		20.5	-0.6			
15:05:47		20.4	-0.6			
15:06:15	Begin sample	20.0		0.0	-28.0	
15:07:53		15.7		0.0	-23	
15:09:44		19.5		0.0	-17	
15:11:22		21.8		0.0	-12	
15:12:44		22.1		0.0	-8	
15:14:18	End sample	21.9		0.0	-5	
	SG7 - REP					
15:19:40	Start tracer gas	0.2				
15:25:11		21.1				
15:25:35		22.1	-0.6			
15:26:05	Begin purge	21.2	-0.6			
15:27:20		20.5	-0.5			
15:28:57	Begin sample	18.5		0.0	-28	
15:31:03		14.3		0.0	-23	
15:33:00		18.1		0.0	-17.5	
15:34:40		19.0		0.0	-12	
15:36:20		22.9		0.0	-7	
15:37:00	End sample	20.1		0.5	-5	

SOIL GAS SAMPLING DATA SHEET

Site Address: The Phoenix - 801 Pine St, Oakland
Job #: 772
Date: 6/5/2018
Drilling Company: None
Laboratory: Enthalpy Analytical
P&D Sampler: LKD

Soil Gas Well Number: SG8
SG-8-REP

Page 1 of 1

Probe Method (check one)
○ PRT
○ Temp Well
☑ Permanent Well

Summa Canister Number: 442
Duplicate Summa Canister Number: 324
Shroud Number: 155
Helium Shroud (Y/N): Y
Initial manifold vacuum/ time: 11:05:53, -29
12:46:37 } -30

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
11:05:53	Starting %	00.2				
11:06:10	Begin tracer gas	00.2				
11:11:10		27.5	-00.4			
11:12:45	Begin purge	26.0	-00.4			
11:14:45		24.7	-00.4			
11:16:45		23.6	-00.4			
11:20:15		21.6	-00.4			
11:22:50	Generator dies	—	—			
12:18:24		00.3	[illegible]			
12:18:47	Inject tracer gas	00.3				
12:23:47		20.6				
12:26:53	Start purge	21.5	-00.5			
12:28:53		23.9	-00.4			
12:30:53	End purge	22.1	-00.4			
12:32:30	Begin sample	20.24		0.0	-29	
12:33:50		20.1		0.0	-24	
12:35:32		22.0		0.0	-19	
12:37:04		20.5		0.0	-14	
12:38:45		21.5		0.0	-9	
12:40:25	End sample	20.1		0.0	-5	
	SG8-REP	[illegible]				
12:47:10	Inject tracer gas	00.5				
12:52:10		21.7				
12:52:30	Start sample	22.0		0.0	-29	
12:55:14		21.7		0.0	-24	
12:58:00		20.8		0.0	-19	
13:01:00		21.8		0.0	-14	
13:03:58		21.7		0.0	-9	
13:06:58	End sample	20.6		0.0	-5	

SOIL GAS SAMPLING DATA SHEET

Site Address: The Phoenix - 801 Pine St, Oakland
Job #: 772
Date: 6/5/2018
Drilling Company: None
Laboratory: Enthalpy Analytical
P&D Sampler: LKD

Soil Gas Well Number: SG9
SG9-REP

Page 1 of 1
Probe Method (check one)
o PRT
o Temp Well
☑ Permanent Well
Summa Canister Number: 434
Duplicate Summa Canister Number: ~~317~~ 117
Shroud Number: 149
Helium Shroud (Y/N): Y
Initial manifold vacuum/ time: -30 13:22:55
-30 14:19:37

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
13:28:00	Inject tracer gas	00.6				
13:33:00		22.3				
13:35:18	Begin purge	21.1	-00.5			
13:38:13		22.6	-00.5			
13:40:26		20.2	-00.5			
13:42:28		21.7	-00.5			
13:45:03		21.4	-00.5			
13:47:53		21.3	-00.5			
13:49:18	End purge	21.0	-00.5			
13:56:00	Begin sample	22.5		0.0	-30	
13:57:20		21.2		0.0	-24	
13:58:26	Change He cylinders	19.7		0.0	-19	
14:00:00		13.3			-13	
14:01:40		21.6		0.0	-8	
14:02:27	End sample	19.8		0.0	-4.5	
	SG9-REP					
14:14:37	Inject tracer gas	00.1		~~0.0~~	~~-30~~	
14:16:46		22.4				
14:19:37		22.5				
14:20:45	Start sample	21.3		0.0	-30	
14:21:54		21.1		0.0	-25	
14:23:00		21.3		0.0	-20	
14:24:04		22.6		0.0	-15	
14:25:35		20.8		0.0	-10	
14:26.50	End sample	22.1		0.0	-5	

September 6, 2018 Soil Gas Sampling Data Sheets

SOIL GAS SAMPLING DATA SHEET			
Site Address	The Phoenix - 801 Pine Street, Oakland		Page 1 of 1
Job #	0772	Probe Method (check one)	
Date	9/6/2018	o PRT	
Drilling Company	None	o Temp Well	
Laboratory	Enthalpy Analytical	✓ Permanent Well	
P&D Sampler	LKD	Summa Canister Number	113
		Duplicate Summa Canister Number	
		Shroud Number	243
Soil Gas Well Number	SG4	Helium Shroud (Y/N)	Y
		Initial manifold vacuum/ time	

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
14:41:53		00.4				
14:42:17	Start tracer gas	23.7				
14:49:30	Add He	19.4				
14:52:17		25.2				
14:53:56	Begin purge	22.4	-00.2	0		
14:55:47	Add He	20.5	-00.3	0		
15:00:32	Add He	19.3	-00.3	0		
15:03:11		23.8	-00.3	0		
15:05:33	Add He	20.6	-00.3	0		
15:07:56	End purge	20.9	-00.3	0		
15:09:12	Add He	18.7		0		
15:10:12	Begin sample	24.9		0	-30	
15:11:50		23.6		0	-25	
15:13:33		21.1		0	-20	
15:14:38	Add He	20.3		0	-16	
15:15:14		21.4		0	-15	
15:17:05		22.2		0	-10	
15:19:01	End sample	19.8		0	-5	
15:23:55	Attach PID					
15:25:19						PID= 41.2 PPM
15:25:41						49.7 PPM

SOIL GAS SAMPLING DATA SHEET

Site Address: The Phoenix - 801 Pine Street, Oakland
Job #: 0772
Date: 9/6/2018
Drilling Company: None
Laboratory: Enthalpy Analytical
P&D Sampler: LKD

Soil Gas Well Number: SG5

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Probe Method (check one)
○ PRT
○ Temp Well
☑ Permanent Well

Summa Canister Number: 306
Duplicate Summa Canister Number: 412
Shroud Number: 037
Helium Shroud (Y/N): Y
Initial manifold vacuum/ time:

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
16:14:00		00.4				
16:14:48	Start tracer gas	4.8				
16:16:24	Add He	16.2				
16:18:00		23.1				
16:20:05	Add He	19.6				
16:21:37	Add He	20.9				
16:24:48	End shut in test	22.8				
16:25:47	Begin purge	20.5	00.3	-2.5		
16:27:10	Add He	16.1	00.3	-2.5		
16:28:43		22.3	00.3	-2.5		
16:30:44	Add He	18.1	00.3	-2.5		
16:32:12		22.7	00.3	-2.5		
16:33:55		18.7	00.3	-2.5		
16:36:37	Add He	21.5	00.3	-2.5		
16:39:47		19.4	00.3	-2.5		
16:40:58	Add He	17.3				
16:41:52	Begin sample	22.2		-2.5	-30	
16:44:38	Add He	14.8		-2.5	-29	
16:46:50	Add He	18.9		-2.5	-26	
16:48:20		27.0		-2.5	-25	
16:50:30	Add He	19.8		-2.5	-23	
16:52:37		23.0		-2.5	-20	
16:55:00	Add He	18.7		-2.5	-16	
16:57:50	Add He	17.0		-2.5	-15	
17:02:52	Add He	14.9		-2.5	-10	
17:06:56	Add He	19.4		-2.5	-7	
17:09:00	End sample	23.2		-2.5	-5	
17:17:40	Connect PID					PID = 1.6 PPM

October 17 and 18, 2018 Soil Gas Sampling Data Sheets

SOIL GAS SAMPLING DATA SHEET

Site Address	The Phoenix - 801 Pine St., Oakland		Page 1 of 1
Job #	0772	Probe Method (check one)	
Date	10/17/18 ~~and 10/18/18~~ MLBD	o PRT	
Drilling Company	VTS	o Temp Well	
Laboratory	Enthalpy Analytical	o Permanent Well	
P&D Sampler	MLBD	Summa Canister Number	92
		Duplicate Summa Canister Number	
		Shroud Number	293
Soil Gas Well Number	SG2	Helium Shroud (Y/N)	Y
		Initial manifold vacuum/ time	-30/ 110412

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
110503						
114612	START TRACER GAS	4.6				
115029		15.3				
115200		20.7				
115312	ADD He	20.2				
115442		21.1				
115532		20.6				
115652	ADD He	20.5				
1158.36		21.3				
115906	BEGIN PURGE	20.7	-0.02	0		
120256	ADD He	21.4	-0.03	0		
120504	ADD He	21.2	-0.03	0		
120810		21.1	-0.03	0		
121034	ADD He	23.5	-0.03	0		
121510		22.8	-0.03	0		
121724	ADD He	23.8	-0.03	0		
122024		23.2	-0.03	0		
122714		22.5	-0.04	0		
122725	ADD He	23.5	-0.04	0		
123200	START SAMPLE	23.2	-0.04	0	-30	
123502		22.8	-	0	-25	
123652		22.1		0	-20	
123902	ADD HE	24.5		0	-15	
124126		21.5		0	-10	
124242	ADD HE	21.1		0		
124327	END SAMPLE	20.8		0	-5	
124612						PID: 51 PPM

SOIL GAS SAMPLING DATA SHEET

Site Address	The Phoenix - 801 Pine St., Oakland	Page 1 of 1
Job #	0772	Probe Method (check one)
Date	10/17/18 ~~and 10/18/18~~ MLBD	○ PRT
Drilling Company	VTS	○ Temp Well
Laboratory	Enthalpy Analytical	● Permanent Well
P&D Sampler	MLBD	Summa Canister Number 284
		Duplicate Summa Canister Number
		Shroud Number 150
Soil Gas Well Number	SG4	Helium Shroud (Y/N) Y
		Initial manifold vacuum/ time -30/134128

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
134247	START TRACER GAS	12.4				
134336		46.2				
134410		29.8				
134506		31.2				
134728		28.9				
134820	START PURGE	25.6	-00.7	0		
135008	ADD He	22.1	-00.7	0		
135537		22.6	-00.7	0		
135800	ADD He	23.4	-00.7	0		
140042		232	-00.7	0		
140325		23.0	-00.7	0		
140437	ADD He	23.4	-00.7	0		
140602	ADD He	20.2	-00.7	0		
140715		21.3	-00.7	0		
140903	ADD He	20.3	-00.7	0		
141109		21.6	-00.7	0		
141303		20.3	-00.7	0		
141426	ADD He	21.4	-00.7	0		
141514	END PURGE					
141540	START SAMPLE	21.2	0	~~-30~~	-30	
141705	ADD He	20.5	0	~~-25~~	-25	
141810	ADD He	20.1	0	~~-20~~	-20	
141923	ADD He	22.4	0	~~-15~~	-15	
142051		24.2	0	~~-10~~	-10	
142105	END Sample	23.0	0	~~-5~~	-5	
142412				MLBD		PID: 3 PPM

SOIL GAS SAMPLING DATA SHEET

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Site Address	The Phoenix - 801 Pine St., Oakland
Job #	0772
Date	10/17/18 ~~and 10/18/18~~ MLBD
Drilling Company	VTS
Laboratory	Enthalpy Analytical
P&D Sampler	MLBD
Soil Gas Well Number	SG-5

Probe Method (check one)
○ PRT
○ Temp Well
● Permanent Well

Summa Canister Number	166
Duplicate Summa Canister Number	
Shroud Number	297
Helium Shroud (Y/N)	y
Initial manifold vacuum/ time	-30/ 145408

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
145512	START TRACE GAS	4.8				
145645		26.1				
145822		36.7				
150012		34.0				
150014	START PURGE	31.2	-00.0	0		
150304		24.7	-00.1	0		
150508		20.5	-00.1	0		
150812	ADD He	23.6	-00.1	0		
150912		20.1	-00.1	0		
151204	ADD He	21.6	-00.1	0		
151500		21.4	-00.1	0		
151520	ADD He	22.9	-00.1	0		
151800		20.2	-00.1	0		
151831	ADD He	23.4	-00.1	0		
152031		21.0	-00.1	0		
152526	ADD He	22.0	-00.1	0		
152714	END PURGE	21.2	-00.1	0		
152732	ADD He	23.4	-00.1	0		
152900	START SAMPLE	22.8		0 ~~-30~~	-30	
153030		21.8		0 ~~-25~~	-25	
153148	ADD He	20.6		0 ~~-20~~	-20	
153324		22.6		0 ~~-15~~	-15	
153504		21.6		0 ~~-10~~	-10	
153715	END SAMPLE	20.8		0 ~~-5~~	-5	
154012				MLBD		PID: 9 PPM

SOIL GAS SAMPLING DATA SHEET

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Site Address: The Phoenix - 801 Pine St., Oakland
Job #: 0772
Date: 10/17/18 ~~and 10/18/18~~ MLBD
Drilling Company: VTS
Laboratory: Enthalpy Analytical
P&D Sampler: MLBD

Soil Gas Well Number: SG6

Probe Method (check one)
○ PRT
○ Temp Well
☑ Permanent Well
Summa Canister Number: 180
Duplicate Summa Canister Number:
Shroud Number: 157
Helium Shroud (Y/N): Y
Initial manifold vacuum/ time: -30/ ~~[illegible]~~ MLBD 160900

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
160930	START TRACER GAS	41,7				
161105		37.9				
161514	START PURGE	30.3				
161630	ADD TRACER GAS	28.3	-00.3			
161800		21.4	-00.3			
161936		21.0	-00.2			
162052	ADD TRACER GAS	21.7	-00.2			
162312		22.8	-00.2			
162411	ADD TRACER GAS	23.4	-00.2			
162721		20.5	-00.3			
162853	ADD TRACER GAS	23.1	-00.3			
163046		20.8	-00.3			
163450	ADD TRACER GAS	22.6	-00,2			
163509		20.8	-00.2			
163714	ADD He	21.9	-00.2			
164014		22.8	-00.2			
163830	START SAMPLE	22.1		0	-30	
164036	ADD He	21.0		0	-30	
164532		22.6		0	-25	
164734	ADD He	20.3		0	-23	
164912		23.2		0	-20	
165051		20.8		0	-19	
165246	ADD He	23.4		0	-17	
165442		21.6		0	-15	
170026		20.4		0	-10	
170255	ADD He	21.8		0	-7	
170732	END SAMPLE	20.6		0	-5	
171012						PID: 1 PPM

SOIL GAS SAMPLING DATA SHEET

Site Address: The Phoenix - 801 Pine St., Oakland

Job #: 0772

Date: 10/17/18 and 10/18/18

Drilling Company: VTS

Laboratory: Enthalpy Analytical

P&D Sampler: MLBD

Soil Gas Well Number: SEG-DUP

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Probe Method (check one)
○ PRT
○ Temp Well
☑ Permanent Well

Summa Canister Number: 304

Duplicate Summa Canister Number:

Shroud Number: 157

Helium Shroud (Y/N): Y

Initial manifold vacuum/ time: -30/160900

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
160930	START TRACER GAS	41.7				
161105		37.9				
161514	START PURGE	30.3				
161630	ADD TRACER GAS	28.3	-00.3			
161800		21.4	-00.3			
161936		21.0	-00.2			
162052	ADD TRACER GAS	21.7	-00.2			
162312		22.8	-00.2			
162411	ADD TRACER GAS	23.4	-00.2			
162721		20.5	-00.3			
162853	ADD TRACER GAS	23.1	-00.3			
163046		20.8	-00.3			
163450	ADD TRACER GAS	22.6	-00.2			
163509		20.8	-00.2			
163714	ADD TRACER GAS	21.4	-00.2			
164014		22.8	-00.2			
163830	START SAMPLE	22.1	~~-00.~~ MLBD	0	-30	
164036	ADD He	21.0		0	-30	
164532		22.6		0	-25	
164734	ADD TRACER GAS	20.3		0	-23	
164912		23.2		0	-20	
165051		20.8		0	-19	
165246	ADD TRACER GAS	23.4		0	-17	
165442		21.6		0	-15	
170026		20.4		0	-10	
170255	ADD TRACER GAS	21.8		0	-7	
170732	END SAMPLE	20.6		0	-5	
171012						PID: 1 PPM

SOIL GAS SAMPLING DATA SHEET

Site Address	The Phoenix - 801 Pine St., Oakland		Page 1 of 1
Job #	0772	Probe Method (check one)	
Date	10/18/18	○ PRT	
Drilling Company	VTS	○ Temp Well	
Laboratory	Enthalpy Analytical	☑ Permanent Well	
P&D Sampler	MLBD	Summa Canister Number	507
		Duplicate Summa Canister Number	
		Shroud Number	264
Soil Gas Well Number	SG-10	Helium Shroud (Y/N)	Y
		Initial manifold vacuum/ time	-30 / 084700

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
084730	START TRACER GAS	2.9				
084820		15.6				
08482B		26.4				
085300	START PURGE	27.1	-00.3			
085405		25.1	-00.1			
085524		21.2	-00.2			
085637	ADD He	22.4	-00.2			
090026		22.3	-00.2			
090512		20.7	-00.2			
090738	ADD He	21.1	-00.3			
090908		20.6	-00.3			
091117	ADD He	21.5	-00.3			
091321		20.6	-00.3			
091510	ADD He	21.7	-00.3			
091714	END PURGE	21.6	-00.3			
091910	START SAMPLE	20.8		0	-30	
092040	ADD He	21.8		0	-25	
092247		22.8		0	-20	
092432		21.7		0	-15	
092604		20.6			-10	
092707	ADD He	21.5		0	-7	
092825	END SAMPLE	21.2		0	-5	
092915						PID: 0PPM

SOIL GAS SAMPLING DATA SHEET

Site Address: The Phoenix - 801 Pine St., Oakland
Job #: 0772
Date: 10/18/18
Drilling Company: VTS
Laboratory: Enthalpy Analytical
P&D Sampler: MLBD

Soil Gas Well Number: SG-11

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Probe Method (check one)
o PRT
o Temp Well
[✓ Permanent Well]
Summa Canister Number: 519
Duplicate Summa Canister Number
Shroud Number: 219
Helium Shroud (Y/N): Y
Initial manifold vacuum/ time: -30/ 101014

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
101050	START TRACER GAS	0.03				
101124		2.4				
101215		20.4				
101232		28.8				
101500	START PURGE	30.8	-00.5			
101821		29.2	-00.5			
102056		23.7	-00.5			
102312		22.3	-00.5			
102408	ADD He	20.8	-00.5			
102729		22.5	-00.5			
102836		23.5	-00.5			
103000		21.3	-00.5			
103114	ADD He.	20.2	-00.5			
103500		22.5	-00.5			
103844	ADD He	20.5	-00.5			
104017	END PURGE	22.1	-00.5			
104020	START SAMPLE	24.3		0	-30	
104251		23.0		0	-25	
104416		20.6		0	-20	
104508	ADD He	22.5		0	-17	
104606		24.7		0	-15	
104740		21.6		0	-10	
104834	ADD He	20.7		0	-8	
105010	END SAMPLE	22.1		0	-5	
105512						PID: 4 PPM

SOIL GAS SAMPLING DATA SHEET

Site Address: The Phoenix - 801 Pine St., Oakland
Job #: 0772
Date: 10/18/18
Drilling Company: VTS
Laboratory: Enthalpy Analytical
P&D Sampler: MLBD

Soil Gas Well Number: SG-12

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Probe Method (check one)
○ PRT
○ Temp Well
● Permanent Well

Summa Canister Number: 279
Duplicate Summa Canister Number:
Shroud Number: 313
Helium Shroud (Y/N): Y
Initial manifold vacuum/ time: -30/ 112214

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
112300	START TRACER GAS	00.8				
112401		22.4				
112551		27.2				
112614		26.8				
112800	START PURGE	23.8	-00.5			
113012		21.4	-00.5			
113438		20.6	-00.5			
113704	ADD He	24.2	-00.5			
114250		22.3	-00.5			
114528		21.3	-00.5			
114827	ADD He	20.8	-00.5			
115200		22.7	-00.5			
115514	END PURGE	20.6	-00.5			
115525	ADD He	23.2	-00.5			
115600	START SAMPLE	21.8	-	0	-30	
115731	ADD He	20.6		0	-25	
115822		22.4		0	-23	
115950		21.6		0	-20	
120152	ADD He	20.9		0	-15	
120334		23.8		0	-13	
120410		22.4		0	-10	
120737	END SAMPLE	20.2		0	-5	
120912						PID: 8 PPM

SOIL GAS SAMPLING DATA SHEET

Site Address: The Phoenix - 801 Pine St., Oakland
Job #: 0772
Date: 10/18/18
Drilling Company: VTS
Laboratory: Enthalpy Analytical
P&D Sampler: MLBD

Soil Gas Well Number: SG-13

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Probe Method (check one)
○ PRT
○ Temp Well
● Permanent Well
Summa Canister Number: 569
Duplicate Summa Canister Number:
Shroud Number: 152
Helium Shroud (Y/N): Y
Initial manifold vacuum/ time: -30 / 143803

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
143912	START TRACER GAS	0.04				
143951		6.5				
144019		23.6				
144124		28.2				
144308		26.2				
144412		23.7				
144500	START PURGE	20.9	-00.5			
144719	ADD He	22.4	-00.5			
145000		23.9	-00.5			
145140	ADD He	20.9	-00.5			
145317		23.5	-00.5			
145500	ADD He	20.9	-00.5			
145612		24.3	-00.5			
145904	ADD He	20.6	-00.5			
150124		23.1	-00.5			
150329		21.6	-00.5			
150509	ADD He	20.4	-00.5			
150631		23.2	-00.5			
151012		21.4	-00.5			
151214	END PURGE	20.6	-00.5			
151302	START SAMPLE	20.2	-	0	-30	
151540	ADD He	22.8		0	-27	
151655		22.2		0	-25	
151904		21.5		0	-20	
152134		20.4		0	-15	
152312	ADD He	23.2		0	-12	
152406		22.7		0	-10	
152731	END SAMPLE	20.4		0	-5	
						PID: 13 PPM

SOIL GAS SAMPLING DATA SHEET

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Site Address: The Phoenix - 801 Pine St., Oakland
Job #: 0772
Date: 10/18/18
Drilling Company: VTS
Laboratory: Enthalpy Analytical
P&D Sampler: MLBD

Soil Gas Well Number: SG-14

Probe Method (check one)
o PRT
o Temp Well
☑ Permanent Well
Summa Canister Number: 340
Duplicate Summa Canister Number:
Shroud Number: 126
Helium Shroud (Y/N): Y
Initial manifold vacuum/ time: -30/ 130455

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
130900	START TRACER GAS	1.6				
131033		11.2				
131108		28.4				
131312		27.6				
131418		26.7				
131500	START PURGE	26.3	-00.4	0		
132146		22.1	-00.7	0		
132542		21.8	-00.7	0		
132810		21.4	-00.7	0		
133002	ADD He	20.6	-00.7	0		
133250		23.1	-00.7	0		
133432	ADD He	20.6	-00.8	0		
133622		23.8	-00.8	0		
134047		22.4	-00.7	0		
134214	END PURGE	21.9	-00.7	0		
134412	START SAMPLE	21.3		0	-30	
134608	ADD He	20.8		0	-25	
134752		23.1		0	-20	
134932		22.1		0	-15	
135037	ADD He	20.9		0	-12	
135158		23.2		0	-10	
135455	END SAMPLE	21.8		0	-5	
135802						PID: 13 PPM

December 10 and 15, 2018 Soil Gas Sampling Data Sheets

SOIL GAS SAMPLING DATA SHEET

Site Address 801 Pine St, Oakland
Job # 772
Date 12/15/18 ~~12/10/2018~~
Drilling Company None
Laboratory McCampbell Analytical
P&D Sampler PHK
Soil Gas Well Installation Date and Time
Soil Gas Well Number SG15

Page 1 of 1

Probe Method (check one)
○ PRT
○ Temporary Well
☒ Permanent Well
○ Vapor Pin
Summa Canister Number 2044 - 2668
Duplicate Summa Canister Number
Shroud Number
Helium Shroud ([✓ Y]/N)
Initial Summa vacuum/ time
Manifold # 316P - 1309

TIME	Activity	Start Shut in Test (Vac)	End Shut in Test (Vac)	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
	12/10/18 Start Shut in	29.5						
20:10:00	12/15/18 End Shut in		5					
20:10:47	Put He in shroud			23.4				
20:14:48				23.2				
20:15:48				22.7				
20:16:16	Start purge			22.7		0	24	
20:18:16				22.1	0	0	24	
20:20:55				20.9		0	24.5	
20:23:07					0	0	24.5	
20:25:14				24.7		0	24.5	
20:28:03					0	0	24.5	
20:30:12				24.6		0	24.5	
20:33:01					0	0	24.5	
20:35:10				23.1		0	24.5	
20:38:08					0	0	24.5	
20:40:08				21.6		0	24.5	
20:43:30	End purge			20.5		0	24.5	
20:44:30	Begin sampling							
20:45:55				22.5		0	22	
20:47:20				22.0		0	15	
20:48:30				21.7		0	10	
20:49:45	End Sampling			21.3		0	5	
	PID = 4 ppm							

PID = 4

SOIL GAS SAMPLING DATA SHEET

Site Address	801 Pine St, Oakland		Page 1 of 1
Job #	772	Probe Method (check one)	
Date	12/15/18 ~~12/10/2018~~	○ PRT	
Drilling Company	None	○ Temporary Well	
Laboratory	McCampbell Analytical	☒ Permanent Well	
P&D Sampler	PHK	○ Vapor Pin	
		Summa Canister Number	1998-2625
Soil Gas Well Installation Date and Time		Duplicate Summa Canister Number	
		Shroud Number	
Soil Gas Well Number	SG16	Helium Shroud ([✓ Y]/N)	
		Initial Summa vacuum/ time	
		Manifold #	316T-992

TIME	Activity	Start Shut in Test (Vac)	End Shut in Test (Vac)	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
	12/10/18 Start Shut in	29.5						
21:28	12/15/18 ~~21:~~		5					
21:28:55	Add He to shroud			21.6				
21:30:35				22.2				
21:32:00				21.7				
21:33:00				21.0				
21:34:00				20.4				
21:34:40	Begin purge			19.9		0	26	
21:38:40					0	0	26	
21:39:40				21.7		0	26	
21:43:40				20.8		0	26	
21:45:44					0	0	26	
21:47:09				19.1		0	26	
21:49:10					0	0	26	
21:51:35				20.2		0	26	
21:52:30					0	0	26	
21:56:02				24.1		0	26	
21:57:13					0	0	26	
22:01:02				21.2		0	26	
22:01:54	End purge			20.6		0	26	
22:03:00	Begin sampling			18.6		0	25	
22:04:43				23.6		0	17	
22:05:25				24.5		0	15	
22:06:31				24.4			10	
22:07:49	End Sampling			23.8		0	5	
	PID = 7 ppm							

SOIL GAS SAMPLING DATA SHEET

Site Address	801 Pine St, Oakland		Page 1 of 1
Job #	772	Probe Method (check one)	
Date	12/15/18 ~~12/10/2018~~	○ PRT	
Drilling Company	None	○ Temporary Well	
Laboratory	McCampbell Analytical	☒ Permanent Well	
P&D Sampler	PHK	○ Vapor Pin	
		Summa Canister Number	2031-2655
Soil Gas Well Installation Date and Time		Duplicate Summa Canister Number	
		Shroud Number	
Soil Gas Well Number		Helium Shroud ([✓ Y]/N)	
	SG37	Initial Summa vacuum/ time	
		Manifold #	316-1223

TIME	Activity 12/10/18	Start Shut in Test (Vac)	End Shut in Test (Vac)	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
	~~12/10/1~~8 Start Shut in	29.5						
	12/15/18 End Shut in	~~28~~	28					
22:46:25	Add He to shroud			20.4				
22:48:43				21.2				
22:49:25				21.1				
22:50:25				20.7				
22:51:25				20.1				
22:57:57	Start purge							
22:54:09				23.4		0	26	
22:55:48					0	0	26	
22:56:48				22.3		0.5	26	
23:00:48					0	0	26	
23:02:18				21.1		0	26	
23:05:48					0	0	26	
23:06:48				20.0		0	26	
23:10:48					0	0	26	
23:11:56				24.6		0	26	
23:15:40					0	0	26	
23:16:35				23.1		0	26	
23:19:03	Stop purge			22.6		0	26	
23:19:43	Start sampling			22.4		0	28	
23:20:40				22.2		0	25	
23:21:45				22.0		0	20	
23:22:42				21.7		0	~~20~~ 15	
23:23:50				21.5		0	10	
23:25:25	End sampling			21.1		0	5	
	PID = 4 ppm							

SOIL GAS SAMPLING DATA SHEET

Site Address	801 Pine St, Oakland		Page 1 of 1
Job #	772	Probe Method (check one)	
Date	12/10/2018	○ PRT	
Drilling Company	None	○ Temporary Well	
Laboratory	McCampbell Analytical	☒ Permanent Well	
P&D Sampler	MLBD	○ Vapor Pin	
		Summa Canister Number	2001-2628
Soil Gas Well Installation Date and Time		Duplicate Summa Canister Number	
		Shroud Number	
Soil Gas Well Number	SG18	Helium Shroud (Y/N)	Y
		Initial Summa vacuum/ time	29.5 15:08
		MANIFOLD #	316-1217

TIME	Activity	Start Shut in Test (Vac)	End Shut in Test (Vac)	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
0855	START SHUT IN TEST	-29						
0905	END		-29					
142000	ADD He			22.9				
142312				22.7				
142529				23.6				
142804				23.9				
143000	START PURGE			23.4	0			
143804				23.2				
144121				22.6				
144507				21.2				
144731				20.8				
144800	ADD He			21.7				
144912				23.2				
145046				23.1				
145228				22.9				
145533				22.6				
145714				22.5				
150200	START SAMPLE			22.3		0	-30	
150324				22.1		0	-18	
150528				21.9		0	-16	
150818				21.7		0	-8	
150848	END SAMPLE			21.5		0	-5	
151012								PID= 113 ppm

SOIL GAS SAMPLING DATA SHEET

Site Address	801 Pine St, Oakland
Job #	772
Date	12/15/18 ~~12/10/2018~~
Drilling Company	None
Laboratory	McCampbell Analytical
P&D Sampler	PHK
Soil Gas Well Installation Date and Time	
Soil Gas Well Number	SG20

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Probe Method (check one)
○ PRT
○ Temporary Well
☒ Permanent Well
○ Vapor Pin

Summa Canister Number	1958-2589
Duplicate Summa Canister Number	1988-2615
Shroud Number	
Helium Shroud ([✓ Y]/N)	
Initial Summa vacuum/ time	
Manifold #	316T-997

TIME	Activity	Start Shut in Test (Vac)	End Shut in Test (Vac)	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
	12/10/18 Begin Shut in	29.5						12/10/18 DUP Begin Shut in 29.5
	12/15/18 End Shut in		22					12/15/18 DUP End Shut in 29.5
18:17:40	He into Shroud			24.1				
18:19:42				23.2				
18:20:45				22.2				
18:21:38				21.3				
18:22:40				20.9				
18:25:51	Begin Purge			23.7				
18:30:11				22.1		0	26	
18:32:52				19.6		0	26	
18:37:45				23.9		0	26	
18:38:30					0	0	26	
18:40:37				22.2		0	26	
18:42:28				21.1		0	26	
18:43:35					0	0	26	
18:44:40				19.9		0	26	
18:46:45					0	0	26	
18:47:50				23.8		0	26	
18:49:41				23.2		0	26	
18:50:11					0	0	26	
18:51:25				21.9		0	26	
18:52:03					0	0	26	
18:52:33				21.0		0	26	
18:53:05	End purging							
18:45:33	Begin Sampling			23.1		30	0	
18:49:40				24.0		20		
18:53:00				25.1		15		
18:55:50				23.0		10		
18:57:30				24.6		6		
18:58:46				20.7		5		
18:59:20	End sampling PID = 3							

APPENDIX C

Weather Information

- June 4-5, 2018 Sampling Event
- September 6, 2018 Sampling Event
- October 17-18, 2018 Sampling Event
- December 10, 15, 2018 Sampling Event

https://www.wunderground.com/personal-weather-station/dashboard?ID=KCAOAKLA34#history/tdata/s20180521/e20180620/mcustom

About This Weather Station

Weather Station ID: KCAOAKLA34

Station Name: Triple Point

Latitude / Longitude: N 37 ° 50 ' 51 '', W 122 ° 17 ' 10 ''

Elevation: 36

City: Oakland

State: CA

Hardware: other

Software: Cumulus v3.0.0

Weather History Table
May 21, 2018 - June 20, 2018

2018	Temperature			Dew Point			Humidity			Speed			Pressure			Precip. Accum.
May	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Gust	High	Avg	Low	Sum
21	65.7 °F	59.1 °F	52.5 °F	52.6 °F	50.5 °F	49.1 °F	89 %	77 %	60 %	10 mph	6 mph	20 mph	29.61 in	29.55 in	29.48 in	0 in
22	59.9 °F	56.3 °F	52.7 °F	53.6 °F	51.7 °F	50.1 °F	95 %	88 %	77 %	12 mph	7 mph	19 mph	29.58 in	29.55 in	29.52 in	0 in
23	60.6 °F	57.3 °F	54.1 °F	53.3 °F	51.8 °F	49.1 °F	95 %	87 %	68 %	11 mph	5 mph	17 mph	29.6 in	29.53 in	29.47 in	0 in
24	61 °F	57.1 °F	53.4 °F	51.6 °F	49.7 °F	48.2 °F	86 %	79 %	66 %	11 mph	6 mph	18 mph	29.67 in	29.61 in	29.56 in	0 in
25	61.9 °F	58.4 °F	54.9 °F	53.3 °F	51.7 °F	49.8 °F	90 %	84 %	71 %	10 mph	6 mph	14 mph	29.73 in	29.66 in	29.59 in	0 in
26	65.3 °F	60.2 °F	55 °F	53.1 °F	52 °F	50.2 °F	90 %	80 %	61 %	11 mph	4 mph	17 mph	29.72 in	29.65 in	29.59 in	0 in
27	68.2 °F	59.9 °F	51.6 °F	56.5 °F	53 °F	49.5 °F	94 %	80 %	64 %	8 mph	3 mph	14 mph	29.73 in	29.53 in	29.34 in	0 in
28	77.4 °F	65.7 °F	54.3 °F	62.1 °F	55 °F	51 °F	95 %	74 %	42 %	6 mph	3 mph	13 mph	29.73 in	29.65 in	29.58 in	0 in
29	71.2 °F	63.1 °F	55 °F	56.1 °F	54 °F	49.5 °F	92 %	81 %	52 %	10 mph	2 mph	15 mph	29.66 in	29.6 in	29.55 in	0 in
30	61.3 °F	56.8 °F	52.3 °F	50 °F	48.3 °F	-2.8 °F	88 %	77 %	10 %	45 mph	9 mph	45 mph	29.59 in	29.51 in	29.43 in	0 in
31	62.8 °F	57.8 °F	52.9 °F	50.2 °F	48.1 °F	45.9 °F	84 %	71 %	59 %	14 mph	6 mph	23 mph	29.7 in	29.62 in	29.53 in	0 in

2018	Temperature			Dew Point			Humidity			Speed			Pressure			Precip. Accum.
Jun	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Gust	High	Avg	Low	Sum
1	73.4 °F	62.1 °F	50.7 °F	53.3 °F	49.4 °F	45 °F	89 %	66 %	38 %	12 mph	4 mph	19 mph	29.7 in	29.66 in	29.62 in	0 in
2	74.3 °F	64.7 °F	55 °F	60.7 °F	53.9 °F	50.7 °F	89 %	70 %	48 %	7 mph	3 mph	36 mph	29.76 in	29.69 in	29.62 in	0 in
3	68.2 °F	61.7 °F	55.2 °F	56 °F	53.5 °F	50.7 °F	89 %	76 %	64 %	10 mph	4 mph	14 mph	29.68 in	29.6 in	29.51 in	0 in
4	70 °F	62.5 °F	54.9 °F	53.2 °F	50.9 °F	49 °F	86 %	68 %	49 %	9 mph	5 mph	14 mph	29.68 in	29.64 in	29.59 in	0 in
5	69.3 °F	60.7 °F	52 °F	50.5 °F	49.1 °F	47.1 °F	90 %	75 %	47 %	9 mph	6 mph	14 mph	29.66 in	29.61 in	29.57 in	0 in
6	65.3 °F	59 °F	52.7 °F	54.2 °F	51 °F	48.6 °F	88 %	79 %	61 %	14 mph	7 mph	23 mph	29.67 in	29.6 in	29.54 in	0 in
7	68.7 °F	62 °F	55.4 °F	53.4 °F	51.3 °F	50 °F	84 %	74 %	55 %	11 mph	6 mph	54 mph	29.76 in	29.67 in	29.59 in	0 in
8	70.7 °F	63.2 °F	55.8 °F	56.4 °F	54.2 °F	50.2 °F	87 %	65 %	54 %	11 mph	7 mph	17 mph	29.75 in	29.7 in	29.66 in	0 in
9	69.4 °F	62.6 °F	55.8 °F	58.5 °F	51.2 °F	44.2 °F	96 %	70 %	41 %	12 mph	7 mph	21 mph	29.85 in	29.76 in	29.67 in	0 in
10	69.3 °F	34.7 °F	0 °F	51.5 °F	37.2 °F	0 °F	63 %	41 %	43 %	13 mph	6 mph	17 mph	29.89 in	29.76 in	29.62 in	0 in
11	73.8 °F	64.7 °F	55.6 °F	55.5 °F	51.5 °F	48.5 °F	82 %	60 %	48 %	11 mph	4 mph	17 mph	29.7 in	29.64 in	29.58 in	0 in
12	73 °F	73 °F	73 °F	52.7 °F	52.7 °F	52.7 °F	49 %	49 %	49 %	4 mph	4 mph	13 mph	29.63 in	29.58 in	29.53 in	0 in
13	73 °F	73 °F	73 °F	52.7 °F	52.7 °F	52.7 °F	49 %	49 %	49 %	4 mph	4 mph	13 mph	29.66 in	29.58 in	29.49 in	0 in
14	73 °F	64.8 °F	56.5 °F	53.6 °F	52.5 °F	51.1 °F	84 %	58 %	49 %	10 mph	5 mph	14 mph	29.63 in	29.56 in	29.5 in	0 in
15	61.2 °F	58.1 °F	55 °F	53.7 °F	51.9 °F	51 °F	89 %	78 %	70 %	13 mph	7 mph	20 mph	29.58 in	29.52 in	29.46 in	0 in
16	64.2 °F	32.1 °F	0 °F	55.5 °F	47.3 °F	0 °F	83 %	72 %	68 %	14 mph	8 mph	29 mph	29.54 in	29.46 in	29.38 in	0 in
17	66 °F	60.7 °F	55.8 °F	56 °F	53 °F	50.5 °F	92 %	77 %	61 %	13 mph	7 mph	21 mph	29.71 in	29.61 in	29.51 in	0 in
18	62.2 °F	59.5 °F	56.7 °F	55.1 °F	54.2 °F	53.3 °F	92 %	67 %	10 %	12 mph	6 mph	15 mph	29.75 in	29.7 in	29.66 in	0 in
19	62.4 °F	58.2 °F	54.1 °F	55.1 °F	53.7 °F	52 °F	96 %	82 %	75 %	12 mph	7 mph	17 mph	29.73 in	29.67 in	29.62 in	0 in
20	65.5 °F	59.3 °F	53.2 °F	54.2 °F	52.1 °F	50.6 °F	95 %	81 %	65 %	13 mph	6 mph	17 mph	29.7 in	29.62 in	29.54 in	0 in

https://www.wunderground.com/personal-weather-station/dashboard?ID=KCAOAKLA34#history/s20180823/e20180920/mcustom

About This Weather Station

Weather Station ID: KCAOAKLA34

Station Name: Triple Point

Latitude / Longitude: N 37 ° 50 ' 51 ", W 122 ° 17 ' 10 "

Elevation: 36

City: Oakland

State: CA

Hardware: other

Software: Cumulus v3.0.0

Weather History Table
August 23, 2018 - September 20, 2018

2018	Temperature			Dew Point			Humidity			Speed			Pressure			Precip. Accum.
Aug	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Gust	High	Avg	Low	Sum
23	68.4 °F	63.9 °F	59.4 °F	56.8 °F	54.6 °F	53.4 °F	91 %	69 %	10 %	12 mph	6 mph	18 mph	29.83 in	29.44 in	29.04 in	0 in
24	65.8 °F	61.5 °F	57.4 °F	57.5 °F	55.6 °F	54.1 °F	91 %	83 %	72 %	11 mph	6 mph	18 mph	29.79 in	28.24 in	26.69 in	0 in
25	65.5 °F	60.8 °F	56.1 °F	56.9 °F	54.7 °F	0 °F	94 %	87 %	72 %	9 mph	4 mph	17 mph	29.94 in	29.81 in	29.68 in	0 in
26	64.8 °F	60.4 °F	56.3 °F	56.1 °F	54.4 °F	52.8 °F	92 %	83 %	71 %	11 mph	5 mph	20 mph	29.99 in	29.94 in	29.89 in	0 in
27	68.5 °F	62.7 °F	56.8 °F	58.2 °F	55.6 °F	54 °F	91 %	83 %	67 %	11 mph	6 mph	19 mph	29.93 in	29.88 in	29.83 in	0 in
28	68.5 °F	63.4 °F	58.3 °F	58.7 °F	56.9 °F	55 °F	92 %	83 %	67 %	8 mph	4 mph	14 mph	29.95 in	29.91 in	29.86 in	0 in
29	72 °F	63.8 °F	55.6 °F	60.7 °F	56.9 °F	52.5 °F	94 %	80 %	51 %	8 mph	4 mph	16 mph	29.97 in	29.93 in	29.89 in	0 in
30	69.3 °F	64.8 °F	60.4 °F	58.9 °F	56.5 °F	51.3 °F	88 %	76 %	58 %	10 mph	5 mph	18 mph	30.03 in	29.99 in	29.94 in	0 in
31	72.9 °F	65.3 °F	57.9 °F	57.8 °F	56.1 °F	54.9 °F	91 %	80 %	57 %	10 mph	5 mph	17 mph	30.02 in	29.93 in	29.84 in	0 in

2018	Temperature			Dew Point			Humidity			Speed			Pressure			Precip. Accum.
Sep	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Gust	High	Avg	Low	Sum
1	66.6 °F	61.9 °F	57.2 °F	56.4 °F	54.5 °F	53.2 °F	89 %	79 %	65 %	9 mph	5 mph	16 mph	29.88 in	29.81 in	29.75 in	0 in
2	65.3 °F	32.7 °F	0 °F	57.9 °F	54.8 °F	0 °F	91 %	83 %	72 %	9 mph	4 mph	17 mph	29.83 in	29.79 in	29.75 in	0 in
3	64.9 °F	61.4 °F	57.9 °F	56.8 °F	55 °F	53.7 °F	88 %	82 %	71 %	10 mph	5 mph	19 mph	29.88 in	29.83 in	29.79 in	0 in
4	65.3 °F	61.6 °F	57.9 °F	57.4 °F	55.8 °F	54.3 °F	91 %	85 %	74 %	10 mph	5 mph	19 mph	29.87 in	29.83 in	29.78 in	0 in
5	63.7 °F	60.3 °F	57.2 °F	56.2 °F	54.8 °F	52.6 °F	92 %	85 %	71 %	9 mph	5 mph	15 mph	29.99 in	29.9 in	29.81 in	0 in
6	65.1 °F	60.3 °F	55.8 °F	56.5 °F	54.4 °F	52.9 °F	91 %	84 %	72 %	8 mph	4 mph	14 mph	30.06 in	30.01 in	29.96 in	0 in
7	68 °F	60.5 °F	53.2 °F	57.6 °F	54.8 °F	51 °F	94 %	82 %	66 %	10 mph	3 mph	15 mph	30.01 in	29.96 in	29.91 in	0 in
8	78.1 °F	66.8 °F	55.4 °F	57.3 °F	54.9 °F	52.2 °F	93 %	73 %	46 %	7 mph	4 mph	12 mph	29.95 in	29.89 in	29.83 in	0 in
9	77.7 °F	66.3 °F	54.9 °F	58.2 °F	55.1 °F	52.3 °F	93 %	76 %	44 %	9 mph	4 mph	16 mph	29.88 in	29.83 in	29.78 in	0 in
10	81.5 °F	69.1 °F	56.7 °F	57.3 °F	55.4 °F	53.8 °F	91 %	73 %	40 %	7 mph	4 mph	13 mph	29.88 in	29.81 in	29.75 in	0 in
11	77.7 °F	66.9 °F	56.1 °F	55 °F	52.8 °F	47.9 °F	93 %	68 %	37 %	8 mph	4 mph	15 mph	29.86 in	29.81 in	29.75 in	0 in
12	70.9 °F	62.2 °F	53.4 °F	55.6 °F	53.4 °F	49.4 °F	88 %	76 %	52 %	11 mph	4 mph	19 mph	29.91 in	29.86 in	29.82 in	0 in
13	69.1 °F	63 °F	57 °F	57.7 °F	54.7 °F	51.2 °F	93 %	78 %	56 %	12 mph	5 mph	20 mph	29.97 in	29.91 in	29.85 in	0 in
14	65.5 °F	60.7 °F	55.9 °F	56.6 °F	54.2 °F	52.3 °F	92 %	80 %	69 %	8 mph	4 mph	13 mph	29.93 in	29.86 in	29.8 in	0 in
15	64.6 °F	59.7 °F	55 °F	57.2 °F	54.1 °F	51.6 °F	94 %	84 %	72 %	14 mph	6 mph	22 mph	29.93 in	29.86 in	29.8 in	0 in
16	69.3 °F	61.4 °F	53.4 °F	58.3 °F	54.9 °F	50.5 °F	97 %	82 %	54 %	12 mph	4 mph	20 mph	29.98 in	29.93 in	29.89 in	0.01 in
17	67.6 °F	62.2 °F	56.8 °F	56.8 °F	54.9 °F	53.6 °F	94 %	84 %	65 %	12 mph	6 mph	20 mph	29.96 in	29.92 in	29.88 in	0 in
18	64.4 °F	60 °F	55.6 °F	55.5 °F	53.5 °F	52.4 °F	90 %	82 %	68 %	10 mph	5 mph	19 mph	29.94 in	29.89 in	29.83 in	0 in
19	77.5 °F	65.8 °F	54 °F	56.2 °F	53.5 °F	50.6 °F	92 %	75 %	42 %	8 mph	3 mph	13 mph	29.89 in	29.83 in	29.76 in	0 in
20	78.3 °F	65.6 °F	52.9 °F	58 °F	53.1 °F	48 °F	88 %	67 %	36 %	6 mph	2 mph	11 mph	29.84 in	29.8 in	29.75 in	0 in

https://www.wunderground.com/personal-weather-station/dashboard?ID=KCAOAKLA34#history/s20181003/e20181101/mcustom

About This Weather Station

Weather Station ID: KCAOAKLA34

Station Name: Triple Point

Latitude / Longitude: N 37 ° 50 ' 51 ", W 122 ° 17 ' 10 "

Elevation: 36

City: Oakland

State: CA

Hardware: other

Software: Cumulus v3.0.0

Weather History Table
October 3, 2018 - November 1, 2018

2018	Temperature			Dew Point			Humidity			Speed			Pressure			Precip. Accum.
Oct	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Gust	High	Avg	Low	Sum
3	**73.4** °F	**67.3** °F	**61.5** °F	**63.4** °F	**61.1** °F	**58.8** °F	**95** %	**86** %	**63** %	**10** mph	**4** mph	**17** mph	**29.89** in	**29.84** in	**29.79** in	**0** in
4	**69.8** °F	**63.2** °F	**56.8** °F	**59.6** °F	**56.5** °F	**52.4** °F	**91** %	**80** %	**62** %	**10** mph	**5** mph	**16** mph	**30** in	**29.94** in	**29.87** in	**0** in
5	**69.8** °F	**61.5** °F	**53.2** °F	**57.3** °F	**53.6** °F	**49.4** °F	**94** %	**76** %	**52** %	**9** mph	**3** mph	**15** mph	**30.05** in	**29.99** in	**29.93** in	**0** in
6	**73.9** °F	**64.4** °F	**55** °F	**59.3** °F	**55.2** °F	**51.8** °F	**90** %	**72** %	**52** %	**10** mph	**3** mph	**17** mph	**29.93** in	**29.85** in	**29.77** in	**0** in
7	**86.5** °F	**74.2** °F	**62.1** °F	**55.4** °F	**36.2** °F	**17.6** °F	**72** %	**34** %	**10** %	**12** mph	**6** mph	**27** mph	**29.87** in	**29.8** in	**29.73** in	**0** in
8	**87.4** °F	**73.8** °F	**60.1** °F	**58.1** °F	**48.6** °F	**35.8** °F	**89** %	**51** %	**19** %	**9** mph	**4** mph	**20** mph	**29.79** in	**29.73** in	**29.67** in	**0** in
9	**64.6** °F	**60.4** °F	**56.3** °F	**58.3** °F	**56.4** °F	**53.9** °F	**97** %	**89** %	**75** %	**11** mph	**5** mph	**20** mph	**29.8** in	**29.76** in	**29.72** in	**0** in
10	**63.9** °F	**59.1** °F	**54.3** °F	**55.7** °F	**53.7** °F	**51.7** °F	**93** %	**83** %	**69** %	**12** mph	**4** mph	**19** mph	**29.79** in	**29.76** in	**29.72** in	**0** in
11	**67.6** °F	**61** °F	**54.5** °F	**54.5** °F	**53.5** °F	**51.4** °F	**93** %	**78** %	**57** %	**10** mph	**3** mph	**16** mph	**29.85** in	**29.81** in	**29.76** in	**0** in
12	**78.6** °F	**65.1** °F	**51.8** °F	**58.8** °F	**52** °F	**42.3** °F	**94** %	**71** %	**31** %	**5** mph	**2** mph	**9** mph	**29.88** in	**29.81** in	**29.74** in	**0** in
13	**64.4** °F	**58.6** °F	**52.7** °F	**58.3** °F	**52.7** °F	**43.2** °F	**95** %	**82** %	**67** %	**10** mph	**4** mph	**14** mph	**29.83** in	**29.79** in	**29.75** in	**0** in
14	**66.9** °F	**60** °F	**53.1** °F	**57** °F	**54.2** °F	**50.8** °F	**94** %	**83** %	**64** %	**8** mph	**3** mph	**13** mph	**29.97** in	**29.9** in	**29.82** in	**0** in
15	**79.7** °F	**66.8** °F	**54** °F	**51** °F	**25.9** °F	**10.7** °F	**89** %	**25** %	**10** %	**13** mph	**4** mph	**23** mph	**30.11** in	**30.04** in	**29.97** in	**0** in
16	**72.1** °F	**60.4** °F	**48.7** °F	**57** °F	**46.4** °F	**32.3** °F	**94** %	**66** %	**30** %	**7** mph	**2** mph	**12** mph	**30.07** in	**30.02** in	**29.98** in	**0** in
17	**66** °F	**58.2** °F	**50.7** °F	**55.6** °F	**53.3** °F	**49.6** °F	**98** %	**86** %	**64** %	**9** mph	**3** mph	**15** mph	**30.08** in	**30.03** in	**29.98** in	**0** in
18	**67.8** °F	**60.1** °F	**52.3** °F	**56.8** °F	**53.9** °F	**50.5** °F	**96** %	**85** %	**64** %	**7** mph	**2** mph	**14** mph	**30.12** in	**30.06** in	**30** in	**0** in
19	**72.3** °F	**61.2** °F	**50** °F	**59.5** °F	**53.6** °F	**47.8** °F	**95** %	**81** %	**52** %	**5** mph	**2** mph	**10** mph	**30.11** in	**30.04** in	**29.97** in	**0** in
20	**65.7** °F	**59.9** °F	**54.1** °F	**58.5** °F	**54.2** °F	**52.6** °F	**97** %	**88** %	**67** %	**9** mph	**3** mph	**15** mph	**30** in	**29.94** in	**29.87** in	**0** in
21	**64** °F	**58.6** °F	**53.2** °F	**54.7** °F	**52.8** °F	**51.5** °F	**96** %	**89** %	**70** %	**8** mph	**3** mph	**14** mph	**29.96** in	**29.92** in	**29.87** in	**0** in
22	**62.4** °F	**58.6** °F	**54.9** °F	**53.3** °F	**51.8** °F	**50.1** °F	**92** %	**82** %	**70** %	**9** mph	**4** mph	**17** mph	**29.95** in	**29.91** in	**29.86** in	**0** in
23	**65.5** °F	**58.1** °F	**50.7** °F	**55.4** °F	**50.8** °F	**47.7** °F	**92** %	**78** %	**60** %	**8** mph	**3** mph	**13** mph	**30.03** in	**29.98** in	**29.92** in	**0** in
24	**69.8** °F	**60.4** °F	**50.9** °F	**58.3** °F	**54** °F	**48.5** °F	**98** %	**85** %	**63** %	**8** mph	**2** mph	**15** mph	**30.03** in	**29.99** in	**29.95** in	**0** in
25	**73** °F	**64.8** °F	**57** °F	**60.4** °F	**56.3** °F	**53.7** °F	**96** %	**83** %	**56** %	**6** mph	**2** mph	**11** mph	**30.1** in	**30.05** in	**29.99** in	**0** in
26	**72.9** °F	**62.8** °F	**52.7** °F	**59.3** °F	**54.9** °F	**49.8** °F	**94** %	**80** %	**49** %	**8** mph	**2** mph	**12** mph	**30.09** in	**30.02** in	**29.95** in	**0** in
27	**73.8** °F	**63.8** °F	**53.8** °F	**64.1** °F	**58.1** °F	**52.9** °F	**99** %	**88** %	**64** %	**6** mph	**2** mph	**9** mph	**30.03** in	**29.99** in	**29.94** in	**0.01** in
28	**70.2** °F	**64** °F	**58.1** °F	**62.1** °F	**58** °F	**49.6** °F	**99** %	**87** %	**64** %	**10** mph	**3** mph	**18** mph	**30.11** in	**30.06** in	**30.01** in	**0** in
29	**72** °F	**62.8** °F	**54.1** °F	**52.3** °F	**47.6** °F	**36.8** °F	**81** %	**62** %	**28** %	**8** mph	**3** mph	**13** mph	**30.16** in	**30.1** in	**30.05** in	**0** in
30	**76.3** °F	**64.5** °F	**52.7** °F	**49.5** °F	**45.3** °F	**36.4** °F	**78** %	**58** %	**32** %	**7** mph	**3** mph	**14** mph	**30.1** in	**30.05** in	**29.99** in	**0** in
31	**73.6** °F	**61.4** °F	**49.3** °F	**55.9** °F	**48.2** °F	**37.8** °F	**87** %	**66** %	**30** %	**6** mph	**2** mph	**11** mph	**30.11** in	**30.06** in	**30.01** in	**0** in

2018	Temperature			Dew Point			Humidity			Speed			Pressure			Precip. Accum.
Nov	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Gust	High	Avg	Low	Sum
1	**80.4** °F	**66.8** °F	**53.4** °F	**57.1** °F	**52.1** °F	**46** °F	**88** %	**68** %	**33** %	**5** mph	**2** mph	**8** mph	**30.12** in	**30.07** in	**30.01** in	**0** in

https://www.wunderground.com/personal-weather-station/dashboard?ID=KCAOAKLA34#history/s20181201/e20181229/mcustom

About This Weather Station

Weather Station ID: KCAOAKLA34

Station Name: Triple Point

Latitude / Longitude: N 37 ° 50 ' 51 '', W 122 ° 17 ' 10 ''

Elevation: 36

City: Oakland

State: CA

Hardware: other

Software: Cumulus v3.0.0

Weather History Table
December 1, 2018 - December 29, 2018

2018	Temperature			Dew Point			Humidity			Speed			Pressure			Precip. Accum.
Dec	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Gust	High	Avg	Low	Sum
1	**60.6** °F	**53.6** °F	**46.6** °F	**53.7** °F	**45.9** °F	**38.2** °F	**98** %	**77** %	**53** %	**12** mph	**5** mph	**21** mph	**30.06** in	**29.98** in	**29.9** in	**0.15** in
2	**58.6** °F	**49.4** °F	**40.5** °F	**45.7** °F	**38.7** °F	**34.6** °F	**88** %	**66** %	**47** %	**6** mph	**2** mph	**13** mph	**30.14** in	**30.07** in	**30** in	**0** in
3	**63.1** °F	**55.4** °F	**47.8** °F	**40.8** °F	**38.7** °F	**34.7** °F	**72** %	**60** %	**37** %	**4** mph	**2** mph	**14** mph	**30.16** in	**30.07** in	**29.98** in	**0** in
4	**55.4** °F	**53** °F	**50.5** °F	**42.7** °F	**38.6** °F	**35** °F	**72** %	**59** %	**52** %	**9** mph	**2** mph	**29** mph	**30.01** in	**29.92** in	**29.83** in	**0.07** in
5	**57.2** °F	**52.2** °F	**47.5** °F	**51.4** °F	**45.5** °F	**41** °F	**92** %	**78** %	**61** %	**8** mph	**3** mph	**20** mph	**29.88** in	**29.83** in	**29.79** in	**0.21** in
6	**70** °F	**59.3** °F	**48.7** °F	**44.2** °F	**39.2** °F	**35** °F	**75** %	**52** %	**32** %	**5** mph	**2** mph	**17** mph	**29.98** in	**29.9** in	**29.83** in	**0** in
7	**63.7** °F	**53.3** °F	**43** °F	**47.2** °F	**44** °F	**40.5** °F	**93** %	**75** %	**46** %	**5** mph	**1** mph	**9** mph	**30.22** in	**30.09** in	**29.96** in	**0** in
8	**69.1** °F	**55.5** °F	**41.9** °F	**52.3** °F	**44.2** °F	**41.4** °F	**98** %	**75** %	**43** %	**4** mph	**1** mph	**10** mph	**30.3** in	**30.24** in	**30.19** in	**0** in
9	**63.3** °F	**52.7** °F	**42.3** °F	**51.8** °F	**45.1** °F	**40.9** °F	**98** %	**86** %	**58** %	**4** mph	**1** mph	**8** mph	**30.3** in	**30.25** in	**30.2** in	**0** in
10	**59.2** °F	**51.9** °F	**44.6** °F	**52.6** °F	**47.7** °F	**43.8** °F	**97** %	**89** %	**70** %	**7** mph	**2** mph	**11** mph	**30.22** in	**30.17** in	**30.11** in	**0.01** in
11	**64.2** °F	**52** °F	**40.3** °F	**53.5** °F	**44.8** °F	**40** °F	**99** %	**85** %	**51** %	**4** mph	**1** mph	**7** mph	**30.19** in	**30.15** in	**30.11** in	**0.01** in
12	**67.3** °F	**58** °F	**48.6** °F	**52.2** °F	**46.5** °F	**40.5** °F	**97** %	**75** %	**40** %	**7** mph	**2** mph	**16** mph	**30.26** in	**30.2** in	**30.15** in	**0** in
13	**70.7** °F	**56.4** °F	**42.3** °F	**47.4** °F	**39.9** °F	**22** °F	**94** %	**65** %	**22** %	**5** mph	**2** mph	**15** mph	**30.25** in	**30.15** in	**30.05** in	**0** in
14	**64** °F	**55** °F	**46** °F	**55.1** °F	**49.6** °F	**42.9** °F	**93** %	**84** %	**69** %	**14** mph	**3** mph	**24** mph	**30.09** in	**30.02** in	**29.96** in	**0.01** in
15	**63.1** °F	**57.8** °F	**52.5** °F	**53.1** °F	**50.6** °F	**48.5** °F	**93** %	**78** %	**61** %	**6** mph	**2** mph	**11** mph	**30.08** in	**30.02** in	**29.97** in	**0** in
16	**60.8** °F	**57.5** °F	**54.3** °F	**58** °F	**52.6** °F	**47.1** °F	**99** %	**84** %	**69** %	**11** mph	**5** mph	**21** mph	**30.05** in	**29.93** in	**29.82** in	**0.73** in
17	**62.6** °F	**56.1** °F	**49.8** °F	**58** °F	**52.3** °F	**46.8** °F	**99** %	**89** %	**60** %	**4** mph	**2** mph	**8** mph	**30.24** in	**30.12** in	**30** in	**0.01** in
18	**66.4** °F	**56.5** °F	**47.1** °F	**53.8** °F	**50.1** °F	**46.9** °F	**99** %	**86** %	**59** %	**5** mph	**1** mph	**10** mph	**30.32** in	**30.27** in	**30.23** in	**0.01** in
19	**68.9** °F	**61.6** °F	**54.5** °F	**56.9** °F	**52.9** °F	**50.1** °F	**96** %	**84** %	**56** %	**3** mph	**1** mph	**8** mph	**30.3** in	**30.2** in	**30.1** in	**0** in
20	**54.5** °F	**54.5** °F	**54.5** °F	**51.3** °F	**51.3** °F	**51.3** °F	**89** %	**89** %	**89** %	**6** mph	**2** mph	**11** mph	**30.15** in	**30.09** in	**30.03** in	**0** in
21	**54.5** °F	**54.5** °F	**54.5** °F	**51.3** °F	**51.3** °F	**51.3** °F	**89** %	**89** %	**89** %	**6** mph	**2** mph	**11** mph	**30.07** in	**30.04** in	**30.01** in	**0.09** in
22	**54.5** °F	**54.5** °F	**54.5** °F	**51.3** °F	**51.3** °F	**51.3** °F	**89** %	**89** %	**89** %	**5** mph	**2** mph	**10** mph	**30.16** in	**30.11** in	**30.06** in	**0** in
23	**54.5** °F	**54.5** °F	**54.5** °F	**51.3** °F	**51.3** °F	**51.3** °F	**89** %	**89** %	**89** %	**5** mph	**1** mph	**11** mph	**30.25** in	**30.2** in	**30.15** in	**0** in
24	**54.5** °F	**54.5** °F	**54.5** °F	**51.3** °F	**51.3** °F	**51.3** °F	**89** %	**89** %	**89** %	**9** mph	**3** mph	**21** mph	**30.19** in	**29.98** in	**29.76** in	**0.3** in
25	**54.5** °F	**54.5** °F	**54.5** °F	**51.3** °F	**51.3** °F	**51.3** °F	**89** %	**89** %	**89** %	**10** mph	**4** mph	**18** mph	**30.03** in	**29.89** in	**29.75** in	**0** in
26	**54.5** °F	**54.5** °F	**54.5** °F	**51.3** °F	**51.3** °F	**51.3** °F	**89** %	**89** %	**89** %	**6** mph	**2** mph	**14** mph	**30.14** in	**30.08** in	**30.01** in	**0** in
27	**54.5** °F	**54.5** °F	**54.5** °F	**51.3** °F	**51.3** °F	**51.3** °F	**89** %	**89** %	**89** %	**14** mph	**5** mph	**26** mph	**30.16** in	**30.11** in	**30.07** in	**0** in
28	**54.5** °F	**54.5** °F	**54.5** °F	**51.3** °F	**51.3** °F	**51.3** °F	**89** %	**89** %	**89** %	**8** mph	**4** mph	**19** mph	**30.25** in	**30.19** in	**30.13** in	**0** in
29	**54.5** °F	**54.5** °F	**54.5** °F	**51.3** °F	**51.3** °F	**51.3** °F	**89** %	**89** %	**89** %	**4** mph	**1** mph	**8** mph	**30.35** in	**30.29** in	**30.23** in	**0** in

APPENDIX D

Laboratory Analytical Reports and Chain of Custody Documentation

- **McCampbell Workorder #1806040 - Shallow Soil Samples from Locations S1 Through S9 Lead Results**
- **McCampbell Workorder #1806063 - Borehole Groundwater Samples GW3 Through GW9 Results**
- **McCampbell Workorder #1810751 - Borehole Groundwater Samples GW10 and GW11 Results**
- **Enthalpy Analytical Workorder #300421 - Soil Gas Samples SG6, SG6-DUP, and SG7 Through SG9 Results**
- **Enthalpy Analytical Workorder #302994 - Soil Gas Samples SG4, SG5, and SG5-DUP Results**
- **Enthalpy Analytical Workorder #304310 - Soil Gas Samples SG2, SG4, SG5, SG6, SG6-DUP, and SG10 Through SG14 Results**
- **McCampbell Workorder #1812906 - Soil Gas Samples SG15 Through SG17, SG20, and SG 20 DUP Results**
- **McCampbell Workorder #1812907 - Soil Gas Sample SG18 Results**

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1806040

Report Created for: P & D Environmental

55 Santa Clara Ave, Ste.240
Oakland, CA 94610

Project Contact: Lindsey Deschenes
Project P.O.:
Project: 0772; The Phoenix

Project Received: 06/01/2018

Analytical Report reviewed & approved for release on 06/08/2018 by:

Yen Cao

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

NELAP ACCREDITED TNI LABORATORY

Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: 0772; The Phoenix
WorkOrder: 1806040

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 μm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Quality Control Qualifiers

F10	MS/MSD outside control limits. Physical or chemical interferences exist due to sample matrix.

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806040
Date Received:	6/1/18 16:15	**Extraction Method:**	SW3050B
Date Prepared:	6/1/18	**Analytical Method:**	SW6020
Project:	0772; The Phoenix	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S1- 0.5	1806040-001A	Soil	06/01/2018 10:55	ICP-MS2 089SMPL.D	159229

Analytes	Result	RL	DF	Date Analyzed
Lead	**1300**	5.0	10	06/04/2018 17:22

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	93	70-130	06/04/2018 17:22

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S1- 1.0	1806040-002A	Soil	06/01/2018 10:53	ICP-MS2 072SMPL.D	159229

Analytes	Result	RL	DF	Date Analyzed
Lead	**34**	0.50	1	06/04/2018 15:36

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	93	70-130	06/04/2018 15:36

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S1- 2.0	1806040-003A	Soil	06/01/2018 10:50	ICP-MS2 054SMPL.D	159229

Analytes	Result	RL	DF	Date Analyzed
Lead	**2.6**	0.50	1	06/04/2018 13:45

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	100	70-130	06/04/2018 13:45

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S1- 3.0	1806040-004A	Soil	06/01/2018 10:46	ICP-MS2 055SMPL.D	159229

Analytes	Result	RL	DF	Date Analyzed
Lead	**2.2**	0.50	1	06/04/2018 13:52

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	101	70-130	06/04/2018 13:52

Analyst(s): ND

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806040
Date Received:	6/1/18 16:15	**Extraction Method:**	SW3050B
Date Prepared:	6/1/18	**Analytical Method:**	SW6020
Project:	0772; The Phoenix	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S2- 0.5	**1806040-005A**	**Soil**	**06/01/2018 11:35**	**ICP-MS2 056SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**70**	0.50	1	06/04/2018 13:58

Surrogates	REC (%)	Limits	
Terbium	98	70-130	06/04/2018 13:58

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S2- 1.0	**1806040-006A**	**Soil**	**06/01/2018 11:53**	**ICP-MS2 057SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**37**	0.50	1	06/04/2018 14:04

Surrogates	REC (%)	Limits	
Terbium	99	70-130	06/04/2018 14:04

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S2- 2.0	**1806040-007A**	**Soil**	**06/01/2018 11:27**	**ICP-MS2 058SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**9.1**	0.50	1	06/04/2018 14:10

Surrogates	REC (%)	Limits	
Terbium	92	70-130	06/04/2018 14:10

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S2- 3.0	**1806040-008A**	**Soil**	**06/01/2018 11:25**	**ICP-MS2 059SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**4.9**	0.50	1	06/04/2018 14:16

Surrogates	REC (%)	Limits	
Terbium	98	70-130	06/04/2018 14:16

Analyst(s): ND

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806040
Date Received:	6/1/18 16:15	**Extraction Method:**	SW3050B
Date Prepared:	6/1/18	**Analytical Method:**	SW6020
Project:	0772; The Phoenix	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S3- 0.5	**1806040-009A**	**Soil**	**06/01/2018 11:05**	**ICP-MS2 090SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**2400**	5.0	10	06/04/2018 17:28

Surrogates	REC (%)	Limits		
Terbium	95	70-130		06/04/2018 17:28

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S3- 1.0	**1806040-010A**	**Soil**	**06/01/2018 11:09**	**ICP-MS2 073SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**14**	0.50	1	06/04/2018 15:43

Surrogates	REC (%)	Limits		
Terbium	97	70-130		06/04/2018 15:43

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S3- 2.0	**1806040-011A**	**Soil**	**06/01/2018 11:02**	**ICP-MS2 062SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**3.5**	0.50	1	06/04/2018 14:35

Surrogates	REC (%)	Limits		
Terbium	97	70-130		06/04/2018 14:35

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S3- 3.0	**1806040-012A**	**Soil**	**06/01/2018 10:57**	**ICP-MS2 063SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**2.3**	0.50	1	06/04/2018 14:41

Surrogates	REC (%)	Limits		
Terbium	104	70-130		06/04/2018 14:41

Analyst(s): ND

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806040
Date Received:	6/1/18 16:15	**Extraction Method:**	SW3050B
Date Prepared:	6/1/18	**Analytical Method:**	SW6020
Project:	0772; The Phoenix	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S4- 0.5	**1806040-013A**	**Soil**	**06/01/2018 11:22**	**ICP-MS2 067SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**310**	0.50	1	06/04/2018 15:06

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	93	70-130	06/04/2018 15:06

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S4- 1.0	**1806040-014A**	**Soil**	**06/01/2018 11:20**	**ICP-MS2 068SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**7.9**	0.50	1	06/04/2018 15:12

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	102	70-130	06/04/2018 15:12

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S4- 2.0	**1806040-015A**	**Soil**	**06/01/2018 11:18**	**ICP-MS2 069SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**2.1**	0.50	1	06/04/2018 15:18

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	99	70-130	06/04/2018 15:18

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S4- 3.0	**1806040-016A**	**Soil**	**06/01/2018 11:15**	**ICP-MS2 070SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**2.0**	0.50	1	06/04/2018 15:24

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	96	70-130	06/04/2018 15:24

Analyst(s): JC

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806040
Date Received:	6/1/18 16:15	**Extraction Method:**	SW3050B
Date Prepared:	6/1/18	**Analytical Method:**	SW6020
Project:	0772; The Phoenix	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S5- 0.5	**1806040-017A**	**Soil**	**06/01/2018 11:45**	**ICP-MS2 071SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**6.0**	0.50	1	06/04/2018 15:30

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	94	70-130	06/04/2018 15:30

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S5- 1.0	**1806040-018A**	**Soil**	**06/01/2018 11:44**	**ICP-MS2 074SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**2.3**	0.50	1	06/04/2018 15:49

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	97	70-130	06/04/2018 15:49

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S5- 2.0	**1806040-019A**	**Soil**	**06/01/2018 11:40**	**ICP-MS2 035SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**2.4**	0.50	1	06/04/2018 11:49

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	101	70-130	06/04/2018 11:49

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S5- 3.0	**1806040-020A**	**Soil**	**06/01/2018 11:38**	**ICP-MS2 075SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**1.9**	0.50	1	06/04/2018 15:55

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	102	70-130	06/04/2018 15:55

Analyst(s): JC

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806040
Date Received:	6/1/18 16:15	**Extraction Method:**	SW3050B
Date Prepared:	6/1/18	**Analytical Method:**	SW6020
Project:	0772; The Phoenix	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S6- 0.5	**1806040-021A**	**Soil**	**06/01/2018 11:56**	**ICP-MS2 091SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**75**	0.50	1	06/04/2018 17:35

Surrogates	REC (%)	Limits		
Terbium	98	70-130		06/04/2018 17:35

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S6- 1.0	**1806040-022A**	**Soil**	**06/01/2018 11:54**	**ICP-MS2 092SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**10**	0.50	1	06/04/2018 17:41

Surrogates	REC (%)	Limits		
Terbium	98	70-130		06/04/2018 17:41

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S6- 2.0	**1806040-023A**	**Soil**	**06/01/2018 11:50**	**ICP-MS2 093SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**5.5**	0.50	1	06/04/2018 17:47

Surrogates	REC (%)	Limits		
Terbium	97	70-130		06/04/2018 17:47

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S6- 3.0	**1806040-024A**	**Soil**	**06/01/2018 11:48**	**ICP-MS2 094SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**3.9**	0.50	1	06/04/2018 17:53

Surrogates	REC (%)	Limits		
Terbium	97	70-130		06/04/2018 17:53

Analyst(s): ND

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806040
Date Received:	6/1/18 16:15	**Extraction Method:**	SW3050B
Date Prepared:	6/1/18	**Analytical Method:**	SW6020
Project:	0772; The Phoenix	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S7 - 0.5	**1806040-025A**	**Soil**	**06/01/2018 12:23**	**ICP-MS2 095SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**70**	0.50	1	06/04/2018 17:59

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	97	70-130	06/04/2018 17:59

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S7- 1.0	**1806040-026A**	**Soil**	**06/01/2018 12:20**	**ICP-MS2 048SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**14**	0.50	1	06/05/2018 12:57

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	89	70-130	06/05/2018 12:57

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S7- 2.0	**1806040-027A**	**Soil**	**06/01/2018 12:18**	**ICP-MS2 049SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**39**	0.50	1	06/05/2018 13:04

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	88	70-130	06/05/2018 13:04

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S7- 3.0	**1806040-028A**	**Soil**	**06/01/2018 12:17**	**ICP-MS2 050SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**3.3**	0.50	1	06/05/2018 13:10

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	88	70-130	06/05/2018 13:10

Analyst(s): JC

(Cont.)

Analytical Report

Client: P & D Environmental
Date Received: 6/1/18 16:15
Date Prepared: 6/1/18
Project: 0772; The Phoenix

WorkOrder: 1806040
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S8- 0.5	**1806040-029A**	**Soil**	**06/01/2018 12:15**	**ICP-MS2 051SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**410**	0.50	1	06/05/2018 13:16

Surrogates	REC (%)	Limits	
Terbium	90	70-130	06/05/2018 13:16

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S8- 1.0	**1806040-030A**	**Soil**	**06/01/2018 12:13**	**ICP-MS2 055SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**2.2**	0.50	1	06/05/2018 13:41

Surrogates	REC (%)	Limits	
Terbium	95	70-130	06/05/2018 13:41

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S8- 2.0	**1806040-031A**	**Soil**	**06/01/2018 12:11**	**ICP-MS2 056SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**2.4**	0.50	1	06/05/2018 13:47

Surrogates	REC (%)	Limits	
Terbium	92	70-130	06/05/2018 13:47

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S8- 3.0	**1806040-032A**	**Soil**	**06/01/2018 12:09**	**ICP-MS2 057SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**2.1**	0.50	1	06/05/2018 13:53

Surrogates	REC (%)	Limits	
Terbium	90	70-130	06/05/2018 13:53

Analyst(s): ND

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806040
Date Received:	6/1/18 16:15	**Extraction Method:**	SW3050B
Date Prepared:	6/1/18	**Analytical Method:**	SW6020
Project:	0772; The Phoenix	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S9- 0.5	**1806040-033A**	**Soil**	**06/01/2018 12:04**	**ICP-MS2 058SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**64**	0.50	1	06/05/2018 13:59

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	94	70-130	06/05/2018 13:59

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S9- 1.0	**1806040-034A**	**Soil**	**06/01/2018 12:01**	**ICP-MS2 059SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**2.8**	0.50	1	06/05/2018 14:05

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	94	70-130	06/05/2018 14:05

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S9- 2.0	**1806040-035A**	**Soil**	**06/01/2018 11:59**	**ICP-MS2 060SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**2.4**	0.50	1	06/05/2018 14:11

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	90	70-130	06/05/2018 14:11

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S9- 3.0	**1806040-036A**	**Soil**	**06/01/2018 11:57**	**ICP-MS2 061SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**1.9**	0.50	1	06/05/2018 14:17

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	93	70-130	06/05/2018 14:17

Analyst(s): ND

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806040
Date Prepared:	6/1/18	**BatchID:**	159229
Date Analyzed:	6/4/18	**Extraction Method:**	SW3050B
Instrument:	ICP-MS2, ICP-MS3	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS-159229 1806037-001AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	49.4	0.50	50	-	99	75-125
Surrogate Recovery							
Terbium	500	485		500	100	97	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	152	148	50	77.69	149,F10	140,F10	75-125	2.80	20
Surrogate Recovery									
Terbium	480	485	500		96	97	70-130	1.14	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Lead	74.6	77.69	3.98	20

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

(Cont.)

Quality Control Report

Client: P & D Environmental
Date Prepared: 6/1/18
Date Analyzed: 6/4/18
Instrument: ICP-MS2
Matrix: Soil
Project: 0772; The Phoenix

WorkOrder: 1806040
BatchID: 159238
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg
Sample ID: MB/LCS-159238
1806040-019AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	50.5	0.50	50	-	101	75-125
Surrogate Recovery							
Terbium	473	496		500	95	99	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	49.9	54.5	50	2.363	95	104	75-125	8.81	20
Surrogate Recovery									
Terbium	478	517	500		96	103	70-130	7.88	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Lead	2.58	2.363	9.18	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 3

WorkOrder: 1806040 **ClientCode: PDEO**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ▨ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

▨ Detection Summary ▨ Dry-Weight

Report to:
Lindsey Deschenes
P & D Environmental
55 Santa Clara Ave, Ste.240
Oakland, CA 94610
(510) 387-1700 FAX: 510-834-0152

Email: lab@pdenviro.com; Paul.King@pdenviro.c
cc/3rd Party:
PO:
Project: 0772; The Phoenix

Bill to:
Accounts Payable
P & D Environmental
55 Santa Clara ave, Ste.240
Oakland, CA 94610

Requested TAT: **5 days;**

Date Received: **06/01/2018**
Date Logged: **06/01/2018**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1806040-001	S1- 0.5	Soil	6/1/2018 10:55	☐	A											
1806040-002	S1- 1.0	Soil	6/1/2018 10:53	☐	A											
1806040-003	S1- 2.0	Soil	6/1/2018 10:50	☐	A											
1806040-004	S1- 3.0	Soil	6/1/2018 10:46	☐	A											
1806040-005	S2- 0.5	Soil	6/1/2018 11:35	☐	A											
1806040-006	S2- 1.0	Soil	6/1/2018 11:53	☐	A											
1806040-007	S2- 2.0	Soil	6/1/2018 11:27	☐	A											
1806040-008	S2- 3.0	Soil	6/1/2018 11:25	☐	A											
1806040-009	S3- 0.5	Soil	6/1/2018 11:05	☐	A											
1806040-010	S3- 1.0	Soil	6/1/2018 11:09	☐	A											
1806040-011	S3- 2.0	Soil	6/1/2018 11:02	☐	A											
1806040-012	S3- 3.0	Soil	6/1/2018 10:57	☐	A											
1806040-013	S4- 0.5	Soil	6/1/2018 11:22	☐	A											
1806040-014	S4- 1.0	Soil	6/1/2018 11:20	☐	A											
1806040-015	S4- 2.0	Soil	6/1/2018 11:18	☐	A											

Test Legend:

1	**PBMS_TTLC_S**	**2**		**3**		**4**	
5		**6**		**7**		**8**	
9		**10**		**11**		**12**	

Prepared by: Lilly Ortiz

Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1806040 **ClientCode: PDEO**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ▣ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
▣ Detection Summary ▣ Dry-Weight

Report to:
Lindsey Deschenes
P & D Environmental
55 Santa Clara Ave, Ste.240
Oakland, CA 94610
(510) 387-1700 FAX: 510-834-0152

Email: lab@pdenviro.com; Paul.King@pdenviro.c
cc/3rd Party:
PO:
Project: 0772; The Phoenix

Bill to:
Accounts Payable
P & D Environmental
55 Santa Clara ave, Ste.240
Oakland, CA 94610

Requested TAT: **5 days;**

Date Received: **06/01/2018**
Date Logged: **06/01/2018**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1806040-016	S4- 3.0	Soil	6/1/2018 11:15	☐	A											
1806040-017	S5- 0.5	Soil	6/1/2018 11:45	☐	A											
1806040-018	S5- 1.0	Soil	6/1/2018 11:44	☐	A											
1806040-019	S5- 2.0	Soil	6/1/2018 11:40	☐	A											
1806040-020	S5- 3.0	Soil	6/1/2018 11:38	☐	A											
1806040-021	S6- 0.5	Soil	6/1/2018 11:56	☐	A											
1806040-022	S6- 1.0	Soil	6/1/2018 11:54	☐	A											
1806040-023	S6- 2.0	Soil	6/1/2018 11:50	☐	A											
1806040-024	S6- 3.0	Soil	6/1/2018 11:48	☐	A											
1806040-025	S7 - 0.5	Soil	6/1/2018 12:23	☐	A											
1806040-026	S7- 1.0	Soil	6/1/2018 12:20	☐	A											
1806040-027	S7- 2.0	Soil	6/1/2018 12:18	☐	A											
1806040-028	S7- 3.0	Soil	6/1/2018 12:17	☐	A											
1806040-029	S8- 0.5	Soil	6/1/2018 12:15	☐	A											
1806040-030	S8- 1.0	Soil	6/1/2018 12:13	☐	A											

Test Legend:

1	**PBMS_TTLC_S**	**2**		**3**		**4**	
5		**6**		**7**		**8**	
9		**10**		**11**		**12**	

Prepared by: Lilly Ortiz

Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
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McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1806040 **ClientCode: PDEO**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ▨ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
▨ Detection Summary ▨ Dry-Weight

Report to:
Lindsey Deschenes
P & D Environmental
55 Santa Clara Ave, Ste.240
Oakland, CA 94610
(510) 387-1700 FAX: 510-834-0152

Email: lab@pdenviro.com; Paul.King@pdenviro.c
cc/3rd Party:
PO:
Project: 0772; The Phoenix

Bill to:
Accounts Payable
P & D Environmental
55 Santa Clara ave, Ste.240
Oakland, CA 94610

Requested TAT: **5 days;**

Date Received: **06/01/2018**
Date Logged: **06/01/2018**

					Requested Tests (See legend below)											
Lab ID	**Client ID**	**Matrix**	**Collection Date**	**Hold**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
1806040-031	S8- 2.0	Soil	6/1/2018 12:11	☐	A											
1806040-032	S8- 3.0	Soil	6/1/2018 12:09	☐	A											
1806040-033	S9- 0.5	Soil	6/1/2018 12:04	☐	A											
1806040-034	S9- 1.0	Soil	6/1/2018 12:01	☐	A											
1806040-035	S9- 2.0	Soil	6/1/2018 11:59	☐	A											
1806040-036	S9- 3.0	Soil	6/1/2018 11:57	☐	A											

Test Legend:

1	**PBMS_TTLC_S**	**2**		**3**		**4**	
5		**6**		**7**		**8**	
9		**10**		**11**		**12**	

Prepared by: Lilly Ortiz

Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

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McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL
Project: 0772; The Phoenix
Work Order: 1806040
Client Contact: Lindsey Deschenes
QC Level: LEVEL 2
Contact's Email: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Date Logged: 6/1/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1806040-001A	S1- 0.5	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 10:55	5 days		☐	
1806040-002A	S1- 1.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 10:53	5 days		☐	
1806040-003A	S1- 2.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 10:50	5 days		☐	
1806040-004A	S1- 3.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 10:46	5 days		☐	
1806040-005A	S2- 0.5	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:35	5 days		☐	
1806040-006A	S2- 1.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:53	5 days		☐	
1806040-007A	S2- 2.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:27	5 days		☐	
1806040-008A	S2- 3.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:25	5 days		☐	
1806040-009A	S3- 0.5	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:05	5 days		☐	
1806040-010A	S3- 1.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:09	5 days		☐	
1806040-011A	S3- 2.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:02	5 days		☐	
1806040-012A	S3- 3.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 10:57	5 days		☐	
1806040-013A	S4- 0.5	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:22	5 days		☐	
1806040-014A	S4- 1.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:20	5 days		☐	
1806040-015A	S4- 2.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:18	5 days		☐	
1806040-016A	S4- 3.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:15	5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL
Project: 0772; The Phoenix
Work Order: 1806040
Client Contact: Lindsey Deschenes
QC Level: LEVEL 2
Contact's Email: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Date Logged: 6/1/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1806040-017A	S5- 0.5	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:45	5 days		☐	
1806040-018A	S5- 1.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:44	5 days		☐	
1806040-019A	S5- 2.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:40	5 days		☐	
1806040-020A	S5- 3.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:38	5 days		☐	
1806040-021A	S6- 0.5	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:56	5 days		☐	
1806040-022A	S6- 1.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:54	5 days		☐	
1806040-023A	S6- 2.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:50	5 days		☐	
1806040-024A	S6- 3.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:48	5 days		☐	
1806040-025A	S7 - 0.5	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 12:23	5 days		☐	
1806040-026A	S7- 1.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 12:20	5 days		☐	
1806040-027A	S7- 2.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 12:18	5 days		☐	
1806040-028A	S7- 3.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 12:17	5 days		☐	
1806040-029A	S8- 0.5	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 12:15	5 days		☐	
1806040-030A	S8- 1.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 12:13	5 days		☐	
1806040-031A	S8- 2.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 12:11	5 days		☐	
1806040-032A	S8- 3.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 12:09	5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL
Project: 0772; The Phoenix
Work Order: 1806040
Client Contact: Lindsey Deschenes
QC Level: LEVEL 2
Contact's Email: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Date Logged: 6/1/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1806040-033A	S9- 0.5	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 12:04	5 days		☐	
1806040-034A	S9- 1.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 12:01	5 days		☐	
1806040-035A	S9- 2.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:59	5 days		☐	
1806040-036A	S9- 3.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:57	5 days		☐	

NOTES:
- **STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**
- **MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.**

CHAIN OF CUSTODY RECORD

1806040 PAGE 1 OF 3

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME: The Phoenix

SAMPLED BY: (PRINTED & SIGNATURE) Lindsey Deschenes

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): Total Lead	PRESERVATIVE	REMARKS
S1-0.5	6/1/18	10:55	Soil		1	X	None	Normal TAT
S1-1.0	〃	10:53	〃		1	X	〃	〃 〃
S1-2.0	〃	10:50	〃		1	X	〃	〃 〃
S1-3.0	〃	10:46	〃		1	X	〃	〃 〃
S2-0.5	〃	11:35	〃		1	X	〃	〃 〃
S2-1.0	〃	11:33	〃		1	X	〃	〃 〃
S2-2.0	〃	11:27	〃		1	X	〃	〃 〃
S2-3.0	〃	11:25	〃		1	X	〃	〃 〃
S3-0.5	〃	11:05	〃		1	X	〃	〃 〃
S3-1.0	〃	11:04	〃		1	X	〃	〃 〃
S3-2.0	〃	11:02	〃		1	X	〃	〃 〃
S3-3.0	〃	10:57	〃		1	X	〃	〃 〃

RELINQUISHED BY: (SIGNATURE) — DATE 6·1·18 — TIME 1300

RECEIVED BY: (SIGNATURE) LAP 6·1·18 1300

Total No. of Samples (This Shipment): 36

Total No. of Containers (This Shipment): 36

LABORATORY: McCampbell Analytical

RELINQUISHED BY: (SIGNATURE) LAP — DATE 6·1·18 — TIME 1615

RECEIVED BY: (SIGNATURE) 6/1/18 1615

LABORATORY CONTACT: Angela Rydelius

LABORATORY PHONE NUMBER: (925) 252-9262

RELINQUISHED BY: (SIGNATURE) — DATE — TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)

SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES [✓ NO]

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS:

CHAIN OF CUSTODY RECORD

1800040 PAGE 3 OF 3

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME: The Phoenix

SAMPLED BY: (PRINTED & SIGNATURE) Lindsey Deschenes

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): Total Lead								PRESERVATIVE	REMARKS
S4 - 0.5	6/1/18	11:22	Soil		1	X								None	Normal TAT
S4 - 1.0	"	11:20	"		1	X								"	" "
S4 - 2.0	"	11:18	"		1	X								"	" "
S4 - 3.0	"	11:15	"		1	X								"	" "
S5 - 0.5	"	11:45	"		1	X								"	" "
S5 - 1.0	"	11:44	"		1	X								"	" "
S5 - 2.0	"	11:40	"		1	X								"	" "
S5 - 3.0	"	11:38	"		1	X								"	" "
S6 - 0.5	"	11:56	"		1	X								"	" "
S6 - 1.0	"	11:54	"		1	X								"	" "
S6 - 2.0	"	11:50	"		1	X								"	" "
S6 - 3.0	"	11:48	"		1	X								"	" "

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)		
	6-1-18	1300	LAP 6-1-18 1300	Total No. of Samples (This Shipment) 36 Total No. of Containers (This Shipment) 36	LABORATORY: McCampbell Analytical
RELINQUISHED BY: (SIGNATURE) LAP	DATE 6-1-18	TIME 1615	RECEIVED BY: (SIGNATURE) Lilly Ortiz 06/1/18 1615	LABORATORY CONTACT: Angela Rydelius	LABORATORY PHONE NUMBER: (925) 252-9262
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES [✓ NO]	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS:

CHAIN OF CUSTODY RECORD

1806048 PAGE 3 OF 3

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME: The Phoenix

SAMPLED BY: (PRINTED & SIGNATURE) Lindsey Deschenes

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): Total Lead								PRESERVATIVE	REMARKS
S7 - 0.5	6/1/18	1223	Soil		1	X								None	Normal TAT
S7 - 1.0	"	1220	"		1	X								"	" "
S7 - 2.0	"	1218	"		1	X								"	" "
S7 - 3.0	"	1217	"		1	X								"	" "
S8 - 0.5	"	12:15	"		1	X								"	" "
S8 - 1.0	"	12:13	"		1	X								"	" "
S8 - 2.0	"	12:11	"		1	X								"	" "
S8 - 3.0	"	12:09	"		1	X								"	" "
S9 - 0.5	"	12:04	"		1	X								"	" "
S9 - 1.0	"	12:01	"		1	X								"	" "
S9 - 2.0	"	11:59	"		1	X								"	" "
S9 - 3.0	"	11:57	"		1	X								"	" "

RELINQUISHED BY: (SIGNATURE)	DATE 6·1·18	TIME 1300	RECEIVED BY: (SIGNATURE) LAP 6·1·18 1300	Total No. of Samples (This Shipment) 36 Total No. of Containers (This Shipment) 36	LABORATORY: McCampbell Analytical
RELINQUISHED BY: (SIGNATURE) LAP	DATE 6·1·18	TIME 1615	RECEIVED BY: (SIGNATURE) 6/1/18 1615	LABORATORY CONTACT: Angela Rydelius	LABORATORY PHONE NUMBER: (925) 252-9262
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES (X) NO	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS:

Sample Receipt Checklist

Client Name: **P & D Environmental**
Project: **0772; The Phoenix**

WorkOrder №: **1806040** Matrix: Soil
Carrier: Lorenzo Perez (MAI Courier)

Date and Time Received: **6/1/2018 16:15**
Date Logged: **6/1/2018**
Received by: Lilly Ortiz
Logged by: Lilly Ortiz

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Sample IDs noted by Client on COC?	Yes ☑	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐	
Sampler's name noted on COC?	Yes ☑	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	NA ☐
Samples Received on Ice?	Yes ☐	No ☑	
Sample/Temp Blank temperature	Temp:		NA ☑
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
UCMR Samples:			
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes ☐	No ☐	NA ☑

Comments:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1806063

Report Created for: P & D Environmental

55 Santa Clara Ave, Ste.240
Oakland, CA 94610

Project Contact: Lindsey Deschenes
Project P.O.:
Project: 0772; The Phoenix 801 Pine Street Oakland, CA

Project Received: 06/01/2018

Analytical Report reviewed & approved for release on 06/11/2018 by:

Jennifer Lagerbom
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
CA ELAP 1644 ♦ NELAP 4033 ORELAP

Glossary of Terms & Qualifier Definitions

Client:	P & D Environmental
Project:	0772; The Phoenix 801 Pine Street Oakland, CA
WorkOrder:	1806063

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 μm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

F	Sample was filtered upon arrival to the lab

Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: 0772; The Phoenix 801 Pine Street Oakland, CA
WorkOrder: 1806063

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW3	**1806063-001B**	**Water**	**05/31/2018 14:34**	**GC10 06081814.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	06/08/2018 16:33
tert-Amyl methyl ether (TAME)	ND	0.50	1	06/08/2018 16:33
Benzene	ND	0.50	1	06/08/2018 16:33
Bromobenzene	ND	0.50	1	06/08/2018 16:33
Bromochloromethane	ND	0.50	1	06/08/2018 16:33
Bromodichloromethane	ND	0.50	1	06/08/2018 16:33
Bromoform	ND	0.50	1	06/08/2018 16:33
Bromomethane	ND	0.50	1	06/08/2018 16:33
2-Butanone (MEK)	ND	2.0	1	06/08/2018 16:33
t-Butyl alcohol (TBA)	ND	2.0	1	06/08/2018 16:33
n-Butyl benzene	ND	0.50	1	06/08/2018 16:33
sec-Butyl benzene	ND	0.50	1	06/08/2018 16:33
tert-Butyl benzene	ND	0.50	1	06/08/2018 16:33
Carbon Disulfide	ND	0.50	1	06/08/2018 16:33
Carbon Tetrachloride	ND	0.50	1	06/08/2018 16:33
Chlorobenzene	ND	0.50	1	06/08/2018 16:33
Chloroethane	ND	0.50	1	06/08/2018 16:33
Chloroform	ND	0.50	1	06/08/2018 16:33
Chloromethane	ND	0.50	1	06/08/2018 16:33
2-Chlorotoluene	ND	0.50	1	06/08/2018 16:33
4-Chlorotoluene	ND	0.50	1	06/08/2018 16:33
Dibromochloromethane	ND	0.50	1	06/08/2018 16:33
1,2-Dibromo-3-chloropropane	ND	0.20	1	06/08/2018 16:33
1,2-Dibromoethane (EDB)	ND	0.50	1	06/08/2018 16:33
Dibromomethane	ND	0.50	1	06/08/2018 16:33
1,2-Dichlorobenzene	ND	0.50	1	06/08/2018 16:33
1,3-Dichlorobenzene	ND	0.50	1	06/08/2018 16:33
1,4-Dichlorobenzene	ND	0.50	1	06/08/2018 16:33
Dichlorodifluoromethane	ND	0.50	1	06/08/2018 16:33
1,1-Dichloroethane	ND	0.50	1	06/08/2018 16:33
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	06/08/2018 16:33
1,1-Dichloroethene	ND	0.50	1	06/08/2018 16:33
cis-1,2-Dichloroethene	ND	0.50	1	06/08/2018 16:33
trans-1,2-Dichloroethene	ND	0.50	1	06/08/2018 16:33
1,2-Dichloropropane	ND	0.50	1	06/08/2018 16:33
1,3-Dichloropropane	ND	0.50	1	06/08/2018 16:33
2,2-Dichloropropane	ND	0.50	1	06/08/2018 16:33

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW3	**1806063-001B**	**Water**	**05/31/2018 14:34**	**GC10 06081814.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	06/08/2018 16:33
cis-1,3-Dichloropropene	ND	0.50	1	06/08/2018 16:33
trans-1,3-Dichloropropene	ND	0.50	1	06/08/2018 16:33
Diisopropyl ether (DIPE)	ND	0.50	1	06/08/2018 16:33
Ethylbenzene	ND	0.50	1	06/08/2018 16:33
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	06/08/2018 16:33
Freon 113	ND	0.50	1	06/08/2018 16:33
Hexachlorobutadiene	ND	0.50	1	06/08/2018 16:33
Hexachloroethane	ND	0.50	1	06/08/2018 16:33
2-Hexanone	ND	0.50	1	06/08/2018 16:33
Isopropylbenzene	ND	0.50	1	06/08/2018 16:33
4-Isopropyl toluene	ND	0.50	1	06/08/2018 16:33
Methyl-t-butyl ether (MTBE)	ND	0.50	1	06/08/2018 16:33
Methylene chloride	ND	0.50	1	06/08/2018 16:33
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	06/08/2018 16:33
Naphthalene	ND	0.50	1	06/08/2018 16:33
n-Propyl benzene	ND	0.50	1	06/08/2018 16:33
Styrene	ND	0.50	1	06/08/2018 16:33
1,1,1,2-Tetrachloroethane	ND	0.50	1	06/08/2018 16:33
1,1,2,2-Tetrachloroethane	ND	0.50	1	06/08/2018 16:33
Tetrachloroethene	ND	0.50	1	06/08/2018 16:33
Toluene	ND	0.50	1	06/08/2018 16:33
1,2,3-Trichlorobenzene	ND	0.50	1	06/08/2018 16:33
1,2,4-Trichlorobenzene	ND	0.50	1	06/08/2018 16:33
1,1,1-Trichloroethane	ND	0.50	1	06/08/2018 16:33
1,1,2-Trichloroethane	ND	0.50	1	06/08/2018 16:33
Trichloroethene	ND	0.50	1	06/08/2018 16:33
Trichlorofluoromethane	ND	0.50	1	06/08/2018 16:33
1,2,3-Trichloropropane	ND	0.50	1	06/08/2018 16:33
1,2,4-Trimethylbenzene	ND	0.50	1	06/08/2018 16:33
1,3,5-Trimethylbenzene	ND	0.50	1	06/08/2018 16:33
Vinyl Chloride	ND	0.50	1	06/08/2018 16:33
Xylenes, Total	ND	0.50	1	06/08/2018 16:33

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW3	**1806063-001B**	**Water**	**05/31/2018 14:34**	**GC10 06081814.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	133	78-134		06/08/2018 16:33
Toluene-d8	107	82-120		06/08/2018 16:33
4-BFB	117	69-131		06/08/2018 16:33

Analyst(s): TK

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW4	**1806063-002B**	**Water**	**05/31/2018 14:51**	**GC10 06081829.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	06/09/2018 02:35
tert-Amyl methyl ether (TAME)	ND	0.50	1	06/09/2018 02:35
Benzene	ND	0.50	1	06/09/2018 02:35
Bromobenzene	ND	0.50	1	06/09/2018 02:35
Bromochloromethane	ND	0.50	1	06/09/2018 02:35
Bromodichloromethane	ND	0.50	1	06/09/2018 02:35
Bromoform	ND	0.50	1	06/09/2018 02:35
Bromomethane	ND	0.50	1	06/09/2018 02:35
2-Butanone (MEK)	ND	2.0	1	06/09/2018 02:35
t-Butyl alcohol (TBA)	ND	2.0	1	06/09/2018 02:35
n-Butyl benzene	ND	0.50	1	06/09/2018 02:35
sec-Butyl benzene	ND	0.50	1	06/09/2018 02:35
tert-Butyl benzene	ND	0.50	1	06/09/2018 02:35
Carbon Disulfide	ND	0.50	1	06/09/2018 02:35
Carbon Tetrachloride	ND	0.50	1	06/09/2018 02:35
Chlorobenzene	ND	0.50	1	06/09/2018 02:35
Chloroethane	ND	0.50	1	06/09/2018 02:35
Chloroform	ND	0.50	1	06/09/2018 02:35
Chloromethane	ND	0.50	1	06/09/2018 02:35
2-Chlorotoluene	ND	0.50	1	06/09/2018 02:35
4-Chlorotoluene	ND	0.50	1	06/09/2018 02:35
Dibromochloromethane	ND	0.50	1	06/09/2018 02:35
1,2-Dibromo-3-chloropropane	ND	0.20	1	06/09/2018 02:35
1,2-Dibromoethane (EDB)	ND	0.50	1	06/09/2018 02:35
Dibromomethane	ND	0.50	1	06/09/2018 02:35
1,2-Dichlorobenzene	ND	0.50	1	06/09/2018 02:35
1,3-Dichlorobenzene	ND	0.50	1	06/09/2018 02:35
1,4-Dichlorobenzene	ND	0.50	1	06/09/2018 02:35
Dichlorodifluoromethane	ND	0.50	1	06/09/2018 02:35
1,1-Dichloroethane	ND	0.50	1	06/09/2018 02:35
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	06/09/2018 02:35
1,1-Dichloroethene	ND	0.50	1	06/09/2018 02:35
cis-1,2-Dichloroethene	ND	0.50	1	06/09/2018 02:35
trans-1,2-Dichloroethene	ND	0.50	1	06/09/2018 02:35
1,2-Dichloropropane	ND	0.50	1	06/09/2018 02:35
1,3-Dichloropropane	ND	0.50	1	06/09/2018 02:35
2,2-Dichloropropane	ND	0.50	1	06/09/2018 02:35

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW4	**1806063-002B**	**Water**	**05/31/2018 14:51**	**GC10 06081829.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	06/09/2018 02:35
cis-1,3-Dichloropropene	ND	0.50	1	06/09/2018 02:35
trans-1,3-Dichloropropene	ND	0.50	1	06/09/2018 02:35
Diisopropyl ether (DIPE)	ND	0.50	1	06/09/2018 02:35
Ethylbenzene	ND	0.50	1	06/09/2018 02:35
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	06/09/2018 02:35
Freon 113	ND	0.50	1	06/09/2018 02:35
Hexachlorobutadiene	ND	0.50	1	06/09/2018 02:35
Hexachloroethane	ND	0.50	1	06/09/2018 02:35
2-Hexanone	ND	0.50	1	06/09/2018 02:35
Isopropylbenzene	ND	0.50	1	06/09/2018 02:35
4-Isopropyl toluene	ND	0.50	1	06/09/2018 02:35
Methyl-t-butyl ether (MTBE)	ND	0.50	1	06/09/2018 02:35
Methylene chloride	ND	0.50	1	06/09/2018 02:35
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	06/09/2018 02:35
Naphthalene	ND	0.50	1	06/09/2018 02:35
n-Propyl benzene	ND	0.50	1	06/09/2018 02:35
Styrene	ND	0.50	1	06/09/2018 02:35
1,1,1,2-Tetrachloroethane	ND	0.50	1	06/09/2018 02:35
1,1,2,2-Tetrachloroethane	ND	0.50	1	06/09/2018 02:35
Tetrachloroethene	ND	0.50	1	06/09/2018 02:35
Toluene	ND	0.50	1	06/09/2018 02:35
1,2,3-Trichlorobenzene	ND	0.50	1	06/09/2018 02:35
1,2,4-Trichlorobenzene	ND	0.50	1	06/09/2018 02:35
1,1,1-Trichloroethane	ND	0.50	1	06/09/2018 02:35
1,1,2-Trichloroethane	ND	0.50	1	06/09/2018 02:35
Trichloroethene	ND	0.50	1	06/09/2018 02:35
Trichlorofluoromethane	ND	0.50	1	06/09/2018 02:35
1,2,3-Trichloropropane	ND	0.50	1	06/09/2018 02:35
1,2,4-Trimethylbenzene	ND	0.50	1	06/09/2018 02:35
1,3,5-Trimethylbenzene	ND	0.50	1	06/09/2018 02:35
Vinyl Chloride	ND	0.50	1	06/09/2018 02:35
Xylenes, Total	ND	0.50	1	06/09/2018 02:35

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW4	**1806063-002B**	**Water**	**05/31/2018 14:51**	**GC10 06081829.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	126	78-134		06/09/2018 02:35
Toluene-d8	107	82-120		06/09/2018 02:35
4-BFB	118	69-131		06/09/2018 02:35

Analyst(s): TK

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW5	1806063-003B	Water	05/31/2018 15:06	GC10 06081830.D	159686

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	06/09/2018 03:14
tert-Amyl methyl ether (TAME)	ND	0.50	1	06/09/2018 03:14
Benzene	ND	0.50	1	06/09/2018 03:14
Bromobenzene	ND	0.50	1	06/09/2018 03:14
Bromochloromethane	ND	0.50	1	06/09/2018 03:14
Bromodichloromethane	ND	0.50	1	06/09/2018 03:14
Bromoform	ND	0.50	1	06/09/2018 03:14
Bromomethane	ND	0.50	1	06/09/2018 03:14
2-Butanone (MEK)	ND	2.0	1	06/09/2018 03:14
t-Butyl alcohol (TBA)	ND	2.0	1	06/09/2018 03:14
n-Butyl benzene	ND	0.50	1	06/09/2018 03:14
sec-Butyl benzene	ND	0.50	1	06/09/2018 03:14
tert-Butyl benzene	ND	0.50	1	06/09/2018 03:14
Carbon Disulfide	ND	0.50	1	06/09/2018 03:14
Carbon Tetrachloride	ND	0.50	1	06/09/2018 03:14
Chlorobenzene	ND	0.50	1	06/09/2018 03:14
Chloroethane	ND	0.50	1	06/09/2018 03:14
Chloroform	ND	0.50	1	06/09/2018 03:14
Chloromethane	ND	0.50	1	06/09/2018 03:14
2-Chlorotoluene	ND	0.50	1	06/09/2018 03:14
4-Chlorotoluene	ND	0.50	1	06/09/2018 03:14
Dibromochloromethane	ND	0.50	1	06/09/2018 03:14
1,2-Dibromo-3-chloropropane	ND	0.20	1	06/09/2018 03:14
1,2-Dibromoethane (EDB)	ND	0.50	1	06/09/2018 03:14
Dibromomethane	ND	0.50	1	06/09/2018 03:14
1,2-Dichlorobenzene	ND	0.50	1	06/09/2018 03:14
1,3-Dichlorobenzene	ND	0.50	1	06/09/2018 03:14
1,4-Dichlorobenzene	ND	0.50	1	06/09/2018 03:14
Dichlorodifluoromethane	ND	0.50	1	06/09/2018 03:14
1,1-Dichloroethane	ND	0.50	1	06/09/2018 03:14
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	06/09/2018 03:14
1,1-Dichloroethene	ND	0.50	1	06/09/2018 03:14
cis-1,2-Dichloroethene	ND	0.50	1	06/09/2018 03:14
trans-1,2-Dichloroethene	ND	0.50	1	06/09/2018 03:14
1,2-Dichloropropane	ND	0.50	1	06/09/2018 03:14
1,3-Dichloropropane	ND	0.50	1	06/09/2018 03:14
2,2-Dichloropropane	ND	0.50	1	06/09/2018 03:14

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW5	**1806063-003B**	**Water**	**05/31/2018 15:06**	**GC10 06081830.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	06/09/2018 03:14
cis-1,3-Dichloropropene	ND	0.50	1	06/09/2018 03:14
trans-1,3-Dichloropropene	ND	0.50	1	06/09/2018 03:14
Diisopropyl ether (DIPE)	ND	0.50	1	06/09/2018 03:14
Ethylbenzene	ND	0.50	1	06/09/2018 03:14
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	06/09/2018 03:14
Freon 113	ND	0.50	1	06/09/2018 03:14
Hexachlorobutadiene	ND	0.50	1	06/09/2018 03:14
Hexachloroethane	ND	0.50	1	06/09/2018 03:14
2-Hexanone	ND	0.50	1	06/09/2018 03:14
Isopropylbenzene	ND	0.50	1	06/09/2018 03:14
4-Isopropyl toluene	ND	0.50	1	06/09/2018 03:14
Methyl-t-butyl ether (MTBE)	ND	0.50	1	06/09/2018 03:14
Methylene chloride	ND	0.50	1	06/09/2018 03:14
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	06/09/2018 03:14
Naphthalene	ND	0.50	1	06/09/2018 03:14
n-Propyl benzene	ND	0.50	1	06/09/2018 03:14
Styrene	ND	0.50	1	06/09/2018 03:14
1,1,1,2-Tetrachloroethane	ND	0.50	1	06/09/2018 03:14
1,1,2,2-Tetrachloroethane	ND	0.50	1	06/09/2018 03:14
Tetrachloroethene	ND	0.50	1	06/09/2018 03:14
Toluene	ND	0.50	1	06/09/2018 03:14
1,2,3-Trichlorobenzene	ND	0.50	1	06/09/2018 03:14
1,2,4-Trichlorobenzene	ND	0.50	1	06/09/2018 03:14
1,1,1-Trichloroethane	ND	0.50	1	06/09/2018 03:14
1,1,2-Trichloroethane	ND	0.50	1	06/09/2018 03:14
Trichloroethene	**3.4**	0.50	1	06/09/2018 03:14
Trichlorofluoromethane	ND	0.50	1	06/09/2018 03:14
1,2,3-Trichloropropane	ND	0.50	1	06/09/2018 03:14
1,2,4-Trimethylbenzene	ND	0.50	1	06/09/2018 03:14
1,3,5-Trimethylbenzene	ND	0.50	1	06/09/2018 03:14
Vinyl Chloride	ND	0.50	1	06/09/2018 03:14
Xylenes, Total	ND	0.50	1	06/09/2018 03:14

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW5	**1806063-003B**	**Water**	**05/31/2018 15:06**	**GC10 06081830.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	125	78-134		06/09/2018 03:14
Toluene-d8	108	82-120		06/09/2018 03:14
4-BFB	108	69-131		06/09/2018 03:14

Analyst(s): TK

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW6	**1806063-004B**	**Water**	**05/31/2018 09:53**	**GC10 06081831.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	06/09/2018 03:54
tert-Amyl methyl ether (TAME)	ND	0.50	1	06/09/2018 03:54
Benzene	ND	0.50	1	06/09/2018 03:54
Bromobenzene	ND	0.50	1	06/09/2018 03:54
Bromochloromethane	ND	0.50	1	06/09/2018 03:54
Bromodichloromethane	ND	0.50	1	06/09/2018 03:54
Bromoform	ND	0.50	1	06/09/2018 03:54
Bromomethane	ND	0.50	1	06/09/2018 03:54
2-Butanone (MEK)	ND	2.0	1	06/09/2018 03:54
t-Butyl alcohol (TBA)	ND	2.0	1	06/09/2018 03:54
n-Butyl benzene	ND	0.50	1	06/09/2018 03:54
sec-Butyl benzene	ND	0.50	1	06/09/2018 03:54
tert-Butyl benzene	ND	0.50	1	06/09/2018 03:54
Carbon Disulfide	ND	0.50	1	06/09/2018 03:54
Carbon Tetrachloride	ND	0.50	1	06/09/2018 03:54
Chlorobenzene	ND	0.50	1	06/09/2018 03:54
Chloroethane	ND	0.50	1	06/09/2018 03:54
Chloroform	ND	0.50	1	06/09/2018 03:54
Chloromethane	ND	0.50	1	06/09/2018 03:54
2-Chlorotoluene	ND	0.50	1	06/09/2018 03:54
4-Chlorotoluene	ND	0.50	1	06/09/2018 03:54
Dibromochloromethane	ND	0.50	1	06/09/2018 03:54
1,2-Dibromo-3-chloropropane	ND	0.20	1	06/09/2018 03:54
1,2-Dibromoethane (EDB)	ND	0.50	1	06/09/2018 03:54
Dibromomethane	ND	0.50	1	06/09/2018 03:54
1,2-Dichlorobenzene	ND	0.50	1	06/09/2018 03:54
1,3-Dichlorobenzene	ND	0.50	1	06/09/2018 03:54
1,4-Dichlorobenzene	ND	0.50	1	06/09/2018 03:54
Dichlorodifluoromethane	ND	0.50	1	06/09/2018 03:54
1,1-Dichloroethane	ND	0.50	1	06/09/2018 03:54
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	06/09/2018 03:54
1,1-Dichloroethene	ND	0.50	1	06/09/2018 03:54
cis-1,2-Dichloroethene	ND	0.50	1	06/09/2018 03:54
trans-1,2-Dichloroethene	ND	0.50	1	06/09/2018 03:54
1,2-Dichloropropane	ND	0.50	1	06/09/2018 03:54
1,3-Dichloropropane	ND	0.50	1	06/09/2018 03:54
2,2-Dichloropropane	ND	0.50	1	06/09/2018 03:54

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW6	1806063-004B	Water	05/31/2018 09:53	GC10 06081831.D	159686

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	06/09/2018 03:54
cis-1,3-Dichloropropene	ND	0.50	1	06/09/2018 03:54
trans-1,3-Dichloropropene	ND	0.50	1	06/09/2018 03:54
Diisopropyl ether (DIPE)	ND	0.50	1	06/09/2018 03:54
Ethylbenzene	ND	0.50	1	06/09/2018 03:54
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	06/09/2018 03:54
Freon 113	ND	0.50	1	06/09/2018 03:54
Hexachlorobutadiene	ND	0.50	1	06/09/2018 03:54
Hexachloroethane	ND	0.50	1	06/09/2018 03:54
2-Hexanone	ND	0.50	1	06/09/2018 03:54
Isopropylbenzene	ND	0.50	1	06/09/2018 03:54
4-Isopropyl toluene	ND	0.50	1	06/09/2018 03:54
Methyl-t-butyl ether (MTBE)	ND	0.50	1	06/09/2018 03:54
Methylene chloride	ND	0.50	1	06/09/2018 03:54
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	06/09/2018 03:54
Naphthalene	ND	0.50	1	06/09/2018 03:54
n-Propyl benzene	ND	0.50	1	06/09/2018 03:54
Styrene	ND	0.50	1	06/09/2018 03:54
1,1,1,2-Tetrachloroethane	ND	0.50	1	06/09/2018 03:54
1,1,2,2-Tetrachloroethane	ND	0.50	1	06/09/2018 03:54
Tetrachloroethene	ND	0.50	1	06/09/2018 03:54
Toluene	ND	0.50	1	06/09/2018 03:54
1,2,3-Trichlorobenzene	ND	0.50	1	06/09/2018 03:54
1,2,4-Trichlorobenzene	ND	0.50	1	06/09/2018 03:54
1,1,1-Trichloroethane	ND	0.50	1	06/09/2018 03:54
1,1,2-Trichloroethane	ND	0.50	1	06/09/2018 03:54
Trichloroethene	ND	0.50	1	06/09/2018 03:54
Trichlorofluoromethane	ND	0.50	1	06/09/2018 03:54
1,2,3-Trichloropropane	ND	0.50	1	06/09/2018 03:54
1,2,4-Trimethylbenzene	ND	0.50	1	06/09/2018 03:54
1,3,5-Trimethylbenzene	ND	0.50	1	06/09/2018 03:54
Vinyl Chloride	ND	0.50	1	06/09/2018 03:54
Xylenes, Total	ND	0.50	1	06/09/2018 03:54

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW6	**1806063-004B**	**Water**	**05/31/2018 09:53**	**GC10 06081831.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	126	78-134		06/09/2018 03:54
Toluene-d8	106	82-120		06/09/2018 03:54
4-BFB	118	69-131		06/09/2018 03:54

Analyst(s): TK

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW7	**1806063-005B**	**Water**	**05/31/2018 10:57**	**GC10 06081832.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	06/09/2018 04:34
tert-Amyl methyl ether (TAME)	ND	0.50	1	06/09/2018 04:34
Benzene	ND	0.50	1	06/09/2018 04:34
Bromobenzene	ND	0.50	1	06/09/2018 04:34
Bromochloromethane	ND	0.50	1	06/09/2018 04:34
Bromodichloromethane	ND	0.50	1	06/09/2018 04:34
Bromoform	ND	0.50	1	06/09/2018 04:34
Bromomethane	ND	0.50	1	06/09/2018 04:34
2-Butanone (MEK)	ND	2.0	1	06/09/2018 04:34
t-Butyl alcohol (TBA)	ND	2.0	1	06/09/2018 04:34
n-Butyl benzene	ND	0.50	1	06/09/2018 04:34
sec-Butyl benzene	ND	0.50	1	06/09/2018 04:34
tert-Butyl benzene	ND	0.50	1	06/09/2018 04:34
Carbon Disulfide	ND	0.50	1	06/09/2018 04:34
Carbon Tetrachloride	ND	0.50	1	06/09/2018 04:34
Chlorobenzene	ND	0.50	1	06/09/2018 04:34
Chloroethane	ND	0.50	1	06/09/2018 04:34
Chloroform	ND	0.50	1	06/09/2018 04:34
Chloromethane	ND	0.50	1	06/09/2018 04:34
2-Chlorotoluene	ND	0.50	1	06/09/2018 04:34
4-Chlorotoluene	ND	0.50	1	06/09/2018 04:34
Dibromochloromethane	ND	0.50	1	06/09/2018 04:34
1,2-Dibromo-3-chloropropane	ND	0.20	1	06/09/2018 04:34
1,2-Dibromoethane (EDB)	ND	0.50	1	06/09/2018 04:34
Dibromomethane	ND	0.50	1	06/09/2018 04:34
1,2-Dichlorobenzene	ND	0.50	1	06/09/2018 04:34
1,3-Dichlorobenzene	ND	0.50	1	06/09/2018 04:34
1,4-Dichlorobenzene	ND	0.50	1	06/09/2018 04:34
Dichlorodifluoromethane	ND	0.50	1	06/09/2018 04:34
1,1-Dichloroethane	ND	0.50	1	06/09/2018 04:34
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	06/09/2018 04:34
1,1-Dichloroethene	ND	0.50	1	06/09/2018 04:34
cis-1,2-Dichloroethene	ND	0.50	1	06/09/2018 04:34
trans-1,2-Dichloroethene	ND	0.50	1	06/09/2018 04:34
1,2-Dichloropropane	ND	0.50	1	06/09/2018 04:34
1,3-Dichloropropane	ND	0.50	1	06/09/2018 04:34
2,2-Dichloropropane	ND	0.50	1	06/09/2018 04:34

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW7	1806063-005B	Water	05/31/2018 10:57	GC10 06081832.D	159686

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	06/09/2018 04:34
cis-1,3-Dichloropropene	ND	0.50	1	06/09/2018 04:34
trans-1,3-Dichloropropene	ND	0.50	1	06/09/2018 04:34
Diisopropyl ether (DIPE)	ND	0.50	1	06/09/2018 04:34
Ethylbenzene	ND	0.50	1	06/09/2018 04:34
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	06/09/2018 04:34
Freon 113	ND	0.50	1	06/09/2018 04:34
Hexachlorobutadiene	ND	0.50	1	06/09/2018 04:34
Hexachloroethane	ND	0.50	1	06/09/2018 04:34
2-Hexanone	ND	0.50	1	06/09/2018 04:34
Isopropylbenzene	ND	0.50	1	06/09/2018 04:34
4-Isopropyl toluene	ND	0.50	1	06/09/2018 04:34
Methyl-t-butyl ether (MTBE)	**3.9**	0.50	1	06/09/2018 04:34
Methylene chloride	ND	0.50	1	06/09/2018 04:34
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	06/09/2018 04:34
Naphthalene	ND	0.50	1	06/09/2018 04:34
n-Propyl benzene	ND	0.50	1	06/09/2018 04:34
Styrene	ND	0.50	1	06/09/2018 04:34
1,1,1,2-Tetrachloroethane	ND	0.50	1	06/09/2018 04:34
1,1,2,2-Tetrachloroethane	ND	0.50	1	06/09/2018 04:34
Tetrachloroethene	ND	0.50	1	06/09/2018 04:34
Toluene	ND	0.50	1	06/09/2018 04:34
1,2,3-Trichlorobenzene	ND	0.50	1	06/09/2018 04:34
1,2,4-Trichlorobenzene	ND	0.50	1	06/09/2018 04:34
1,1,1-Trichloroethane	ND	0.50	1	06/09/2018 04:34
1,1,2-Trichloroethane	ND	0.50	1	06/09/2018 04:34
Trichloroethene	ND	0.50	1	06/09/2018 04:34
Trichlorofluoromethane	ND	0.50	1	06/09/2018 04:34
1,2,3-Trichloropropane	ND	0.50	1	06/09/2018 04:34
1,2,4-Trimethylbenzene	ND	0.50	1	06/09/2018 04:34
1,3,5-Trimethylbenzene	ND	0.50	1	06/09/2018 04:34
Vinyl Chloride	ND	0.50	1	06/09/2018 04:34
Xylenes, Total	ND	0.50	1	06/09/2018 04:34

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW7	**1806063-005B**	**Water**	**05/31/2018 10:57**	**GC10 06081832.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	128	78-134		06/09/2018 04:34
Toluene-d8	105	82-120		06/09/2018 04:34
4-BFB	109	69-131		06/09/2018 04:34

Analyst(s): TK

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW8	**1806063-006B**	**Water**	**05/31/2018 11:17**	**GC10 06081833.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	06/09/2018 05:13
tert-Amyl methyl ether (TAME)	ND	0.50	1	06/09/2018 05:13
Benzene	ND	0.50	1	06/09/2018 05:13
Bromobenzene	ND	0.50	1	06/09/2018 05:13
Bromochloromethane	ND	0.50	1	06/09/2018 05:13
Bromodichloromethane	ND	0.50	1	06/09/2018 05:13
Bromoform	ND	0.50	1	06/09/2018 05:13
Bromomethane	ND	0.50	1	06/09/2018 05:13
2-Butanone (MEK)	ND	2.0	1	06/09/2018 05:13
t-Butyl alcohol (TBA)	ND	2.0	1	06/09/2018 05:13
n-Butyl benzene	ND	0.50	1	06/09/2018 05:13
sec-Butyl benzene	ND	0.50	1	06/09/2018 05:13
tert-Butyl benzene	ND	0.50	1	06/09/2018 05:13
Carbon Disulfide	ND	0.50	1	06/09/2018 05:13
Carbon Tetrachloride	ND	0.50	1	06/09/2018 05:13
Chlorobenzene	ND	0.50	1	06/09/2018 05:13
Chloroethane	ND	0.50	1	06/09/2018 05:13
Chloroform	ND	0.50	1	06/09/2018 05:13
Chloromethane	ND	0.50	1	06/09/2018 05:13
2-Chlorotoluene	ND	0.50	1	06/09/2018 05:13
4-Chlorotoluene	ND	0.50	1	06/09/2018 05:13
Dibromochloromethane	ND	0.50	1	06/09/2018 05:13
1,2-Dibromo-3-chloropropane	ND	0.20	1	06/09/2018 05:13
1,2-Dibromoethane (EDB)	ND	0.50	1	06/09/2018 05:13
Dibromomethane	ND	0.50	1	06/09/2018 05:13
1,2-Dichlorobenzene	ND	0.50	1	06/09/2018 05:13
1,3-Dichlorobenzene	ND	0.50	1	06/09/2018 05:13
1,4-Dichlorobenzene	ND	0.50	1	06/09/2018 05:13
Dichlorodifluoromethane	ND	0.50	1	06/09/2018 05:13
1,1-Dichloroethane	ND	0.50	1	06/09/2018 05:13
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	06/09/2018 05:13
1,1-Dichloroethene	ND	0.50	1	06/09/2018 05:13
cis-1,2-Dichloroethene	ND	0.50	1	06/09/2018 05:13
trans-1,2-Dichloroethene	ND	0.50	1	06/09/2018 05:13
1,2-Dichloropropane	ND	0.50	1	06/09/2018 05:13
1,3-Dichloropropane	ND	0.50	1	06/09/2018 05:13
2,2-Dichloropropane	ND	0.50	1	06/09/2018 05:13

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW8	1806063-006B	Water	05/31/2018 11:17	GC10 06081833.D	159686

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	06/09/2018 05:13
cis-1,3-Dichloropropene	ND	0.50	1	06/09/2018 05:13
trans-1,3-Dichloropropene	ND	0.50	1	06/09/2018 05:13
Diisopropyl ether (DIPE)	ND	0.50	1	06/09/2018 05:13
Ethylbenzene	ND	0.50	1	06/09/2018 05:13
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	06/09/2018 05:13
Freon 113	ND	0.50	1	06/09/2018 05:13
Hexachlorobutadiene	ND	0.50	1	06/09/2018 05:13
Hexachloroethane	ND	0.50	1	06/09/2018 05:13
2-Hexanone	ND	0.50	1	06/09/2018 05:13
Isopropylbenzene	ND	0.50	1	06/09/2018 05:13
4-Isopropyl toluene	ND	0.50	1	06/09/2018 05:13
Methyl-t-butyl ether (MTBE)	ND	0.50	1	06/09/2018 05:13
Methylene chloride	ND	0.50	1	06/09/2018 05:13
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	06/09/2018 05:13
Naphthalene	ND	0.50	1	06/09/2018 05:13
n-Propyl benzene	ND	0.50	1	06/09/2018 05:13
Styrene	ND	0.50	1	06/09/2018 05:13
1,1,1,2-Tetrachloroethane	ND	0.50	1	06/09/2018 05:13
1,1,2,2-Tetrachloroethane	ND	0.50	1	06/09/2018 05:13
Tetrachloroethene	ND	0.50	1	06/09/2018 05:13
Toluene	ND	0.50	1	06/09/2018 05:13
1,2,3-Trichlorobenzene	ND	0.50	1	06/09/2018 05:13
1,2,4-Trichlorobenzene	ND	0.50	1	06/09/2018 05:13
1,1,1-Trichloroethane	ND	0.50	1	06/09/2018 05:13
1,1,2-Trichloroethane	ND	0.50	1	06/09/2018 05:13
Trichloroethene	ND	0.50	1	06/09/2018 05:13
Trichlorofluoromethane	ND	0.50	1	06/09/2018 05:13
1,2,3-Trichloropropane	ND	0.50	1	06/09/2018 05:13
1,2,4-Trimethylbenzene	ND	0.50	1	06/09/2018 05:13
1,3,5-Trimethylbenzene	ND	0.50	1	06/09/2018 05:13
Vinyl Chloride	ND	0.50	1	06/09/2018 05:13
Xylenes, Total	ND	0.50	1	06/09/2018 05:13

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW8	**1806063-006B**	**Water**	**05/31/2018 11:17**	**GC10 06081833.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	123	78-134		06/09/2018 05:13
Toluene-d8	105	82-120		06/09/2018 05:13
4-BFB	119	69-131		06/09/2018 05:13

Analyst(s): TK

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW9	1806063-007B	Water	05/31/2018 11:42	GC10 06081834.D	159686

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	06/09/2018 05:53
tert-Amyl methyl ether (TAME)	ND	0.50	1	06/09/2018 05:53
Benzene	ND	0.50	1	06/09/2018 05:53
Bromobenzene	ND	0.50	1	06/09/2018 05:53
Bromochloromethane	ND	0.50	1	06/09/2018 05:53
Bromodichloromethane	ND	0.50	1	06/09/2018 05:53
Bromoform	ND	0.50	1	06/09/2018 05:53
Bromomethane	ND	0.50	1	06/09/2018 05:53
2-Butanone (MEK)	ND	2.0	1	06/09/2018 05:53
t-Butyl alcohol (TBA)	ND	2.0	1	06/09/2018 05:53
n-Butyl benzene	ND	0.50	1	06/09/2018 05:53
sec-Butyl benzene	ND	0.50	1	06/09/2018 05:53
tert-Butyl benzene	ND	0.50	1	06/09/2018 05:53
Carbon Disulfide	ND	0.50	1	06/09/2018 05:53
Carbon Tetrachloride	ND	0.50	1	06/09/2018 05:53
Chlorobenzene	ND	0.50	1	06/09/2018 05:53
Chloroethane	ND	0.50	1	06/09/2018 05:53
Chloroform	ND	0.50	1	06/09/2018 05:53
Chloromethane	ND	0.50	1	06/09/2018 05:53
2-Chlorotoluene	ND	0.50	1	06/09/2018 05:53
4-Chlorotoluene	ND	0.50	1	06/09/2018 05:53
Dibromochloromethane	ND	0.50	1	06/09/2018 05:53
1,2-Dibromo-3-chloropropane	ND	0.20	1	06/09/2018 05:53
1,2-Dibromoethane (EDB)	ND	0.50	1	06/09/2018 05:53
Dibromomethane	ND	0.50	1	06/09/2018 05:53
1,2-Dichlorobenzene	ND	0.50	1	06/09/2018 05:53
1,3-Dichlorobenzene	ND	0.50	1	06/09/2018 05:53
1,4-Dichlorobenzene	ND	0.50	1	06/09/2018 05:53
Dichlorodifluoromethane	ND	0.50	1	06/09/2018 05:53
1,1-Dichloroethane	ND	0.50	1	06/09/2018 05:53
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	06/09/2018 05:53
1,1-Dichloroethene	ND	0.50	1	06/09/2018 05:53
cis-1,2-Dichloroethene	ND	0.50	1	06/09/2018 05:53
trans-1,2-Dichloroethene	ND	0.50	1	06/09/2018 05:53
1,2-Dichloropropane	ND	0.50	1	06/09/2018 05:53
1,3-Dichloropropane	ND	0.50	1	06/09/2018 05:53
2,2-Dichloropropane	ND	0.50	1	06/09/2018 05:53

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW9	1806063-007B	Water	05/31/2018 11:42	GC10 06081834.D	159686

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	06/09/2018 05:53
cis-1,3-Dichloropropene	ND	0.50	1	06/09/2018 05:53
trans-1,3-Dichloropropene	ND	0.50	1	06/09/2018 05:53
Diisopropyl ether (DIPE)	ND	0.50	1	06/09/2018 05:53
Ethylbenzene	ND	0.50	1	06/09/2018 05:53
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	06/09/2018 05:53
Freon 113	ND	0.50	1	06/09/2018 05:53
Hexachlorobutadiene	ND	0.50	1	06/09/2018 05:53
Hexachloroethane	ND	0.50	1	06/09/2018 05:53
2-Hexanone	ND	0.50	1	06/09/2018 05:53
Isopropylbenzene	ND	0.50	1	06/09/2018 05:53
4-Isopropyl toluene	ND	0.50	1	06/09/2018 05:53
Methyl-t-butyl ether (MTBE)	ND	0.50	1	06/09/2018 05:53
Methylene chloride	ND	0.50	1	06/09/2018 05:53
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	06/09/2018 05:53
Naphthalene	ND	0.50	1	06/09/2018 05:53
n-Propyl benzene	ND	0.50	1	06/09/2018 05:53
Styrene	ND	0.50	1	06/09/2018 05:53
1,1,1,2-Tetrachloroethane	ND	0.50	1	06/09/2018 05:53
1,1,2,2-Tetrachloroethane	ND	0.50	1	06/09/2018 05:53
Tetrachloroethene	ND	0.50	1	06/09/2018 05:53
Toluene	ND	0.50	1	06/09/2018 05:53
1,2,3-Trichlorobenzene	ND	0.50	1	06/09/2018 05:53
1,2,4-Trichlorobenzene	ND	0.50	1	06/09/2018 05:53
1,1,1-Trichloroethane	ND	0.50	1	06/09/2018 05:53
1,1,2-Trichloroethane	ND	0.50	1	06/09/2018 05:53
Trichloroethene	ND	0.50	1	06/09/2018 05:53
Trichlorofluoromethane	ND	0.50	1	06/09/2018 05:53
1,2,3-Trichloropropane	ND	0.50	1	06/09/2018 05:53
1,2,4-Trimethylbenzene	ND	0.50	1	06/09/2018 05:53
1,3,5-Trimethylbenzene	ND	0.50	1	06/09/2018 05:53
Vinyl Chloride	ND	0.50	1	06/09/2018 05:53
Xylenes, Total	ND	0.50	1	06/09/2018 05:53

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW9	**1806063-007B**	**Water**	**05/31/2018 11:42**	**GC10 06081834.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	125	78-134		06/09/2018 05:53
Toluene-d8	108	82-120		06/09/2018 05:53
4-BFB	111	69-131		06/09/2018 05:53

Analyst(s): TK

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	E200.8
Date Prepared:	6/1/18	**Analytical Method:**	E200.8
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Dissolved CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW3	**1806063-001C**	**Water**	**05/31/2018 14:34**	**ICP-MS2 096SMPL.D**	**159228**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Antimony	ND	F	0.50	1	06/06/2018 17:47
Arsenic	ND	F	0.50	1	06/06/2018 17:47
Barium	**54**	F	5.0	1	06/06/2018 17:47
Beryllium	ND	F	0.50	1	06/06/2018 17:47
Cadmium	ND	F	0.25	1	06/06/2018 17:47
Chromium	**2.0**	F	0.50	1	06/06/2018 17:47
Cobalt	**1.3**	F	0.50	1	06/06/2018 17:47
Copper	ND	F	2.0	1	06/06/2018 17:47
Lead	ND	F	0.50	1	06/06/2018 17:47
Mercury	ND	F	0.050	1	06/06/2018 17:47
Molybdenum	ND	F	0.50	1	06/06/2018 17:47
Nickel	**3.4**	F	0.50	1	06/06/2018 17:47
Selenium	ND	F	0.50	1	06/06/2018 17:47
Silver	ND	F	0.19	1	06/06/2018 17:47
Thallium	ND	F	0.50	1	06/06/2018 17:47
Vanadium	ND	F	0.50	1	06/06/2018 17:47
Zinc	ND	F	15	1	06/06/2018 17:47

Analyst(s): ND

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	E200.8
Date Prepared:	6/1/18	**Analytical Method:**	E200.8
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Dissolved CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW4	**1806063-002C**	**Water**	**05/31/2018 14:51**	**ICP-MS2 100SMPL.D**	**159228**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Antimony	ND	F	0.50	1	06/06/2018 18:12
Arsenic	ND	F	0.50	1	06/06/2018 18:12
Barium	**140**	F	5.0	1	06/06/2018 18:12
Beryllium	ND	F	0.50	1	06/06/2018 18:12
Cadmium	ND	F	0.25	1	06/06/2018 18:12
Chromium	**3.3**	F	0.50	1	06/06/2018 18:12
Cobalt	**6.8**	F	0.50	1	06/06/2018 18:12
Copper	ND	F	2.0	1	06/06/2018 18:12
Lead	ND	F	0.50	1	06/06/2018 18:12
Mercury	ND	F	0.050	1	06/06/2018 18:12
Molybdenum	ND	F	0.50	1	06/06/2018 18:12
Nickel	**15**	F	0.50	1	06/06/2018 18:12
Selenium	ND	F	0.50	1	06/06/2018 18:12
Silver	ND	F	0.19	1	06/06/2018 18:12
Thallium	ND	F	0.50	1	06/06/2018 18:12
Vanadium	ND	F	0.50	1	06/06/2018 18:12
Zinc	**28**	F	15	1	06/06/2018 18:12

Analyst(s): ND

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/5/18-6/8/18	**Analytical Method:**	SW8021B/8015Bm
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW3	**1806063-001A**	**Water**	**05/31/2018 14:34**	**GC3 06071829.D**	**159511**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	06/08/2018 03:07
MTBE	---	5.0	1	06/08/2018 03:07
Benzene	---	0.50	1	06/08/2018 03:07
Toluene	---	0.50	1	06/08/2018 03:07
Ethylbenzene	---	0.50	1	06/08/2018 03:07
Xylenes	---	0.50	1	06/08/2018 03:07

Surrogates	REC (%)	Limits	
aaa-TFT	94	90-117	06/08/2018 03:07

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW4	**1806063-002A**	**Water**	**05/31/2018 14:51**	**GC3 06071831.D**	**159511**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	06/08/2018 04:09
MTBE	---	5.0	1	06/08/2018 04:09
Benzene	---	0.50	1	06/08/2018 04:09
Toluene	---	0.50	1	06/08/2018 04:09
Ethylbenzene	---	0.50	1	06/08/2018 04:09
Xylenes	---	0.50	1	06/08/2018 04:09

Surrogates	REC (%)	Limits	
aaa-TFT	95	90-117	06/08/2018 04:09

Analyst(s): IA

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/5/18-6/8/18	**Analytical Method:**	SW8021B/8015Bm
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW5	**1806063-003A**	**Water**	**05/31/2018 15:06**	**GC3 06071832.D**	**159511**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	06/08/2018 04:39
MTBE	---	5.0	1	06/08/2018 04:39
Benzene	---	0.50	1	06/08/2018 04:39
Toluene	---	0.50	1	06/08/2018 04:39
Ethylbenzene	---	0.50	1	06/08/2018 04:39
Xylenes	---	0.50	1	06/08/2018 04:39

Surrogates	REC (%)	Limits	Date Analyzed
aaa-TFT	115	90-117	06/08/2018 04:39

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW6	**1806063-004A**	**Water**	**05/31/2018 09:53**	**GC3 06041824.D**	**159341**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	06/05/2018 01:24
MTBE	---	5.0	1	06/05/2018 01:24
Benzene	---	0.50	1	06/05/2018 01:24
Toluene	---	0.50	1	06/05/2018 01:24
Ethylbenzene	---	0.50	1	06/05/2018 01:24
Xylenes	---	0.50	1	06/05/2018 01:24

Surrogates	REC (%)	Limits	Date Analyzed
aaa-TFT	96	90-117	06/05/2018 01:24

Analyst(s): IA

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/5/18-6/8/18	**Analytical Method:**	SW8021B/8015Bm
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW7	**1806063-005A**	**Water**	**05/31/2018 10:57**	**GC12 06071827.D**	**159512**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	06/08/2018 01:17
MTBE	---	5.0	1	06/08/2018 01:17
Benzene	---	0.50	1	06/08/2018 01:17
Toluene	---	0.50	1	06/08/2018 01:17
Ethylbenzene	---	0.50	1	06/08/2018 01:17
Xylenes	---	0.50	1	06/08/2018 01:17

Surrogates	REC (%)	Limits	
aaa-TFT	104	90-117	06/08/2018 01:17

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW8	**1806063-006A**	**Water**	**05/31/2018 11:17**	**GC12 06071828.D**	**159512**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	06/08/2018 01:50
MTBE	---	5.0	1	06/08/2018 01:50
Benzene	---	0.50	1	06/08/2018 01:50
Toluene	---	0.50	1	06/08/2018 01:50
Ethylbenzene	---	0.50	1	06/08/2018 01:50
Xylenes	---	0.50	1	06/08/2018 01:50

Surrogates	REC (%)	Limits	
aaa-TFT	105	90-117	06/08/2018 01:50

Analyst(s): IA

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/5/18-6/8/18	**Analytical Method:**	SW8021B/8015Bm
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW9	**1806063-007A**	**Water**	**05/31/2018 11:42**	**GC12 06071829.D**	**159512**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	06/08/2018 02:23
MTBE	---	5.0	1	06/08/2018 02:23
Benzene	---	0.50	1	06/08/2018 02:23
Toluene	---	0.50	1	06/08/2018 02:23
Ethylbenzene	---	0.50	1	06/08/2018 02:23
Xylenes	---	0.50	1	06/08/2018 02:23

Surrogates	REC (%)	Limits	
aaa-TFT	104	90-117	06/08/2018 02:23

Analyst(s): IA

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW3510C
Date Prepared:	6/5/18	**Analytical Method:**	SW8015B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW3	**1806063-001A**	**Water**	**05/31/2018 14:34**	**GC6B 06051821.D**	**159354**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	06/05/2018 16:19
TPH-Motor Oil (C18-C36)	ND	250	1	06/05/2018 16:19
TPH-Bunker Oil (C10-C36)	ND	250	1	06/05/2018 16:19

Surrogates	REC (%)	Limits	
C9	89	61-139	06/05/2018 16:19

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW4	**1806063-002A**	**Water**	**05/31/2018 14:51**	**GC6B 06051823.D**	**159354**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	06/05/2018 16:58
TPH-Motor Oil (C18-C36)	ND	250	1	06/05/2018 16:58
TPH-Bunker Oil (C10-C36)	ND	250	1	06/05/2018 16:58

Surrogates	REC (%)	Limits	
C9	89	61-139	06/05/2018 16:58

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW5	**1806063-003A**	**Water**	**05/31/2018 15:06**	**GC6B 06051825.D**	**159354**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	06/05/2018 17:36
TPH-Motor Oil (C18-C36)	ND	250	1	06/05/2018 17:36
TPH-Bunker Oil (C10-C36)	ND	250	1	06/05/2018 17:36

Surrogates	REC (%)	Limits	
C9	89	61-139	06/05/2018 17:36

Analyst(s): JIS

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW3510C
Date Prepared:	6/5/18	**Analytical Method:**	SW8015B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW6	**1806063-004A**	**Water**	**05/31/2018 09:53**	**GC6B 06051827.D**	**159354**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	06/05/2018 18:15
TPH-Motor Oil (C18-C36)	ND	250	1	06/05/2018 18:15
TPH-Bunker Oil (C10-C36)	ND	250	1	06/05/2018 18:15

Surrogates	REC (%)	Limits	Date Analyzed
C9	89	61-139	06/05/2018 18:15

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW7	**1806063-005A**	**Water**	**05/31/2018 10:57**	**GC6B 06051829.D**	**159354**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	06/05/2018 18:54
TPH-Motor Oil (C18-C36)	ND	250	1	06/05/2018 18:54
TPH-Bunker Oil (C10-C36)	ND	250	1	06/05/2018 18:54

Surrogates	REC (%)	Limits	Date Analyzed
C9	88	61-139	06/05/2018 18:54

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW8	**1806063-006A**	**Water**	**05/31/2018 11:17**	**GC6B 06051831.D**	**159354**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	06/05/2018 19:33
TPH-Motor Oil (C18-C36)	ND	250	1	06/05/2018 19:33
TPH-Bunker Oil (C10-C36)	ND	250	1	06/05/2018 19:33

Surrogates	REC (%)	Limits	Date Analyzed
C9	88	61-139	06/05/2018 19:33

Analyst(s): JIS

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW3510C
Date Prepared:	6/5/18	**Analytical Method:**	SW8015B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW9	**1806063-007A**	**Water**	**05/31/2018 11:42**	**GC6B 06051833.D**	**159354**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	06/05/2018 20:12
TPH-Motor Oil (C18-C36)	ND	250	1	06/05/2018 20:12
TPH-Bunker Oil (C10-C36)	ND	250	1	06/05/2018 20:12

Surrogates	REC (%)	Limits		
C9	89	61-139		06/05/2018 20:12

Analyst(s): JIS

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Prepared:	6/8/18	**BatchID:**	159686
Date Analyzed:	6/8/18	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS-159686 1806063-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	160	10	200	-	80	47-122
tert-Amyl methyl ether (TAME)	ND	9.40	0.50	10	-	94	62-121
Benzene	ND	9.39	0.50	10	-	94	74-121
Bromobenzene	ND	9.76	0.50	10	-	98	63-127
Bromochloromethane	ND	9.55	0.50	10	-	95	70-126
Bromodichloromethane	ND	9.98	0.50	10	-	100	66-127
Bromoform	ND	8.93	0.50	10	-	89	60-119
Bromomethane	ND	9.04	0.50	10	-	90	32-155
2-Butanone (MEK)	ND	30.7	2.0	40	-	77	51-117
t-Butyl alcohol (TBA)	ND	31.6	2.0	40	-	79	41-122
n-Butyl benzene	ND	9.65	0.50	10	-	97	73-137
sec-Butyl benzene	ND	9.99	0.50	10	-	100	71-137
tert-Butyl benzene	ND	10.1	0.50	10	-	101	61-136
Carbon Disulfide	ND	9.86	0.50	10	-	99	61-139
Carbon Tetrachloride	ND	10.1	0.50	10	-	101	69-137
Chlorobenzene	ND	9.88	0.50	10	-	99	71-122
Chloroethane	ND	8.86	0.50	10	-	89	54-132
Chloroform	ND	9.66	0.50	10	-	97	73-122
Chloromethane	ND	8.80	0.50	10	-	88	48-136
2-Chlorotoluene	ND	10.4	0.50	10	-	104	65-134
4-Chlorotoluene	ND	10.0	0.50	10	-	100	65-130
Dibromochloromethane	ND	9.71	0.50	10	-	97	65-121
1,2-Dibromo-3-chloropropane	ND	3.26	0.20	4	-	81	41-132
1,2-Dibromoethane (EDB)	ND	9.62	0.50	10	-	96	67-125
Dibromomethane	ND	9.36	0.50	10	-	94	68-121
1,2-Dichlorobenzene	ND	9.75	0.50	10	-	97	69-128
1,3-Dichlorobenzene	ND	10.2	0.50	10	-	102	71-131
1,4-Dichlorobenzene	ND	9.77	0.50	10	-	98	70-128
Dichlorodifluoromethane	ND	8.85	0.50	10	-	88	21-158
1,1-Dichloroethane	ND	9.38	0.50	10	-	94	73-123
1,2-Dichloroethane (1,2-DCA)	ND	9.13	0.50	10	-	91	61-127
1,1-Dichloroethene	ND	9.68	0.50	10	-	97	68-130
cis-1,2-Dichloroethene	ND	9.76	0.50	10	-	98	72-123
trans-1,2-Dichloroethene	ND	9.78	0.50	10	-	98	64-138
1,2-Dichloropropane	ND	9.27	0.50	10	-	93	71-121
1,3-Dichloropropane	ND	9.23	0.50	10	-	92	69-120
2,2-Dichloropropane	ND	9.91	0.50	10	-	99	64-142

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Prepared:	6/8/18	**BatchID:**	159686
Date Analyzed:	6/8/18	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS-159686 1806063-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	9.64	0.50	10	-	96	70-130
cis-1,3-Dichloropropene	ND	10.1	0.50	10	-	101	58-136
trans-1,3-Dichloropropene	ND	9.84	0.50	10	-	98	66-119
Diisopropyl ether (DIPE)	ND	8.99	0.50	10	-	90	66-123
Ethylbenzene	ND	9.79	0.50	10	-	98	71-125
Ethyl tert-butyl ether (ETBE)	ND	9.11	0.50	10	-	91	67-122
Freon 113	ND	9.20	0.50	10	-	92	68-132
Hexachlorobutadiene	ND	10.0	0.50	10	-	100	56-155
Hexachloroethane	ND	8.88	0.50	10	-	89	61-129
2-Hexanone	ND	8.31	0.50	10	-	83	51-115
Isopropylbenzene	ND	10.0	0.50	10	-	101	66-134
4-Isopropyl toluene	ND	9.99	0.50	10	-	100	70-136
Methyl-t-butyl ether (MTBE)	ND	8.87	0.50	10	-	89	64-118
Methylene chloride	ND	10.6	0.50	10	-	107	62-121
4-Methyl-2-pentanone (MIBK)	ND	8.16	0.50	10	-	82	51-115
Naphthalene	ND	9.13	0.50	10	-	91	55-137
n-Propyl benzene	ND	10.4	0.50	10	-	104	63-140
Styrene	ND	10.0	0.50	10	-	100	62-133
1,1,1,2-Tetrachloroethane	ND	10.4	0.50	10	-	104	69-128
1,1,2,2-Tetrachloroethane	ND	8.95	0.50	10	-	89	60-118
Tetrachloroethene	ND	10.1	0.50	10	-	101	63-136
Toluene	ND	9.73	0.50	10	-	97	67-124
1,2,3-Trichlorobenzene	ND	9.39	0.50	10	-	94	57-145
1,2,4-Trichlorobenzene	ND	9.68	0.50	10	-	97	60-144
1,1,1-Trichloroethane	ND	9.83	0.50	10	-	98	70-133
1,1,2-Trichloroethane	ND	9.50	0.50	10	-	95	65-125
Trichloroethene	ND	10.1	0.50	10	-	101	67-133
Trichlorofluoromethane	ND	9.51	0.50	10	-	95	59-145
1,2,3-Trichloropropane	ND	8.58	0.50	10	-	86	65-115
1,2,4-Trimethylbenzene	ND	9.84	0.50	10	-	98	67-136
1,3,5-Trimethylbenzene	ND	9.94	0.50	10	-	99	68-135
Vinyl Chloride	ND	8.79	0.50	10	-	88	53-146
Xylenes, Total	ND	29.1	0.50	30	-	97	68-128

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Prepared:	6/8/18	**BatchID:**	159686
Date Analyzed:	6/8/18	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS-159686 1806063-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	30.2	29.7		25	121	119	91-133
Toluene-d8	27.9	28.2		25	111	113	87-127
4-BFB	2.74	2.84		2.5	109	114	66-140

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Prepared:	6/8/18	**BatchID:**	159686
Date Analyzed:	6/8/18	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS-159686 1806063-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acetone	178	181	200	ND	88	89	56-141	1.52	20
tert-Amyl methyl ether (TAME)	9.88	10.8	10	ND	99	108	78-120	9.34	20
Benzene	8.99	9.60	10	ND	90	96	81-118	6.58	20
Bromobenzene	9.35	10.0	10	ND	93	100	71-119	7.01	20
Bromochloromethane	9.50	9.91	10	ND	95	99	80-124	4.25	20
Bromodichloromethane	10.2	10.8	10	ND	102	109	78-124	6.12	20
Bromoform	10.2	10.5	10	ND	102	105	65-127	3.09	20
Bromomethane	3.58	3.70	10	ND	36	37	22-175	3.51	20
2-Butanone (MEK)	34.0	34.3	40	ND	85	86	50-152	0.802	20
t-Butyl alcohol (TBA)	38.1	37.4	40	ND	95	93	49-141	1.87	20
n-Butyl benzene	8.40	8.98	10	ND	84	90	77-127	6.64	20
sec-Butyl benzene	8.89	9.60	10	ND	89	96	74-123	7.67	20
tert-Butyl benzene	8.32	9.14	10	ND	83	91	68-122	9.47	20
Carbon Disulfide	9.21	9.73	10	ND	92	97	74-123	5.50	20
Carbon Tetrachloride	9.37	10.1	10	ND	94	101	78-124	7.34	20
Chlorobenzene	9.51	10.2	10	ND	95	102	79-116	6.75	20
Chloroethane	7.01	7.54	10	ND	70	75	56-134	7.23	20
Chloroform	9.49	10.0	10	ND	95	100	82-119	5.70	20
Chloromethane	10.7	11.5	10	ND	105	114	39-147	7.72	20
2-Chlorotoluene	9.56	10.5	10	ND	96	105	69-124	9.24	20
4-Chlorotoluene	9.26	10.1	10	ND	93	101	71-121	8.94	20
Dibromochloromethane	10.4	10.9	10	ND	104	109	76-119	3.96	20
1,2-Dibromo-3-chloropropane	3.84	3.83	4	ND	96	96	48-138	0	20
1,2-Dibromoethane (EDB)	9.93	10.3	10	ND	99	103	81-122	3.97	20
Dibromomethane	9.87	10.2	10	ND	99	102	83-121	3.25	20
1,2-Dichlorobenzene	9.31	9.80	10	ND	93	98	77-122	5.12	20
1,3-Dichlorobenzene	9.55	10.4	10	ND	95	104	76-125	8.72	20
1,4-Dichlorobenzene	9.23	9.85	10	ND	92	98	78-120	6.46	20
Dichlorodifluoromethane	8.01	8.64	10	ND	80	86	38-135	7.48	20
1,1-Dichloroethane	8.94	9.53	10	ND	89	95	80-120	6.35	20
1,2-Dichloroethane (1,2-DCA)	9.34	9.70	10	ND	93	97	78-122	3.85	20
1,1-Dichloroethene	9.22	9.88	10	ND	92	99	77-120	6.91	20
cis-1,2-Dichloroethene	9.68	10.1	10	ND	97	101	79-123	3.93	20
trans-1,2-Dichloroethene	9.43	10.0	10	ND	94	100	77-125	5.98	20
1,2-Dichloropropane	9.12	9.70	10	ND	91	97	80-121	6.15	20
1,3-Dichloropropane	9.45	9.79	10	ND	95	98	80-120	3.54	20
2,2-Dichloropropane	8.86	9.35	10	ND	89	94	70-132	5.38	20

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Prepared:	6/8/18	**BatchID:**	159686
Date Analyzed:	6/8/18	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS-159686 1806063-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloropropene	8.92	9.54	10	ND	89	95	78-122	6.83	20
cis-1,3-Dichloropropene	10.1	10.6	10	ND	101	107	73-121	5.20	20
trans-1,3-Dichloropropene	10.1	10.5	10	ND	101	105	77-116	3.85	20
Diisopropyl ether (DIPE)	9.16	9.72	10	ND	92	97	77-125	5.93	20
Ethylbenzene	9.16	9.82	10	ND	92	98	77-119	6.97	20
Ethyl tert-butyl ether (ETBE)	9.62	10.2	10	ND	96	102	81-122	5.74	20
Freon 113	8.63	9.25	10	ND	86	92	77-120	6.86	20
Hexachlorobutadiene	9.15	9.77	10	ND	91	98	57-141	6.58	20
Hexachloroethane	8.29	8.86	10	ND	83	89	26-168	6.62	20
2-Hexanone	9.85	9.94	10	ND	99	99	58-135	0	20
Isopropylbenzene	9.37	10.2	10	ND	94	102	74-120	8.39	20
4-Isopropyl toluene	8.84	9.50	10	ND	88	95	75-124	7.18	20
Methyl-t-butyl ether (MTBE)	9.98	10.3	10	ND	100	103	74-128	3.02	20
Methylene chloride	9.64	10.2	10	ND	96	102	55-130	5.62	20
4-Methyl-2-pentanone (MIBK)	9.48	9.69	10	ND	95	97	59-131	2.16	20
Naphthalene	7.93	7.83	10	ND	79	78	65-136	1.31	20
n-Propyl benzene	9.50	10.4	10	ND	95	104	67-128	8.55	20
Styrene	10.0	10.8	10	ND	100	108	64-133	7.63	20
1,1,1,2-Tetrachloroethane	10.5	11.2	10	ND	105	112	78-122	6.18	20
1,1,2,2-Tetrachloroethane	9.07	9.36	10	ND	91	94	72-123	3.17	20
Tetrachloroethene	9.34	10.1	10	ND	93	101	72-123	7.56	20
Toluene	9.24	9.92	10	ND	92	99	74-117	7.03	20
1,2,3-Trichlorobenzene	9.12	9.10	10	ND	91	91	61-141	0	20
1,2,4-Trichlorobenzene	9.49	9.50	10	ND	95	95	69-136	0	20
1,1,1-Trichloroethane	9.26	9.93	10	ND	92	99	78-122	6.98	20
1,1,2-Trichloroethane	9.80	10.1	10	ND	98	101	79-120	3.12	20
Trichloroethene	9.70	10.3	10	ND	96	103	76-122	6.23	20
Trichlorofluoromethane	8.88	9.52	10	ND	89	95	72-125	7.02	20
1,2,3-Trichloropropane	8.71	9.05	10	ND	87	90	72-123	3.76	20
1,2,4-Trimethylbenzene	8.78	9.40	10	ND	88	94	74-123	6.85	20
1,3,5-Trimethylbenzene	8.78	9.51	10	ND	88	95	73-123	8.02	20
Vinyl Chloride	6.25	6.79	10	ND	63	68	57-134	8.28	20
Xylenes, Total	28.1	30.8	30	ND	94	103	76-119	9.14	20

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Prepared:	6/8/18	**BatchID:**	159686
Date Analyzed:	6/8/18	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS-159686 1806063-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Surrogate Recovery									
Dibromofluoromethane	32.0	31.1	25		128	125	78-134	2.65	20
Toluene-d8	27.3	27.3	25		109	109	82-120	0	20
4-BFB	2.89	2.92	2.5		116	117	69-131	0.999	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Prepared:	6/1/18	**BatchID:**	159228
Date Analyzed:	6/5/18 - 6/6/18	**Extraction Method:**	E200.8
Instrument:	ICP-MS2, ICP-MS3	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS-159228 1806034-001CMS/MSD

QC Summary Report for Dissolved Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Antimony	ND	50.5	0.50	50	-	101	85-115
Arsenic	ND	48.1	0.50	50	-	96	85-115
Barium	ND	471	5.0	500	-	94	85-115
Beryllium	ND	47.5	0.50	50	-	95	85-115
Cadmium	ND	48.7	0.25	50	-	97	85-115
Chromium	ND	49.1	0.50	50	-	98	85-115
Cobalt	ND	49.2	0.50	50	-	98	85-115
Copper	ND	48.1	2.0	50	-	96	85-115
Lead	ND	48.6	0.50	50	-	97	85-115
Mercury	ND	1.22	0.050	1.25	-	98	85-115
Molybdenum	ND	48.8	0.50	50	-	98	85-115
Nickel	ND	49.4	0.50	50	-	99	85-115
Selenium	ND	50.9	0.50	50	-	102	85-115
Silver	ND	49.1	0.19	50	-	98	85-115
Thallium	ND	46.1	0.50	50	-	92	85-115
Vanadium	ND	48.9	0.50	50	-	98	85-115
Zinc	ND	503	15	500	-	101	85-115

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Prepared:	6/1/18	**BatchID:**	159228
Date Analyzed:	6/5/18 - 6/6/18	**Extraction Method:**	E200.8
Instrument:	ICP-MS2, ICP-MS3	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS-159228 1806034-001CMS/MSD

QC Summary Report for Dissolved Metals

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Antimony	52.2	52.4	50	ND<5.0	104	105	70-130	0.421	20
Arsenic	53.1	53.1	50	ND<5.0	101	101	70-130	0	20
Barium	627	693	500	150	96	109	70-130	9.91	20
Beryllium	48.2	48.5	50	ND<5.0	96	97	70-130	0.600	20
Cadmium	50.4	51.5	50	ND<2.5	101	103	70-130	2.26	20
Chromium	47.2	51.4	50	ND<5.0	94	103	70-130	8.50	20
Cobalt	81.4	88.6	50	35	92	107	70-130	8.43	20
Copper	48.1	52.8	50	ND<20	94	103	70-130	9.40	20
Lead	50.8	52.8	50	ND<5.0	102	106	70-130	3.82	20
Mercury	1.19	1.59	1.25	ND<0.50	95	127	70-130	28.7,F1	20
Molybdenum	50.6	56.2	50	ND<5.0	101	112	70-130	10.5	20
Nickel	104	111	50	55	98	110	70-130	5.96	20
Selenium	51.9	54.5	50	ND<5.0	104	109	70-130	4.85	20
Silver	48.8	49.6	50	ND<1.9	98	99	70-130	1.52	20
Thallium	49.2	49.7	50	ND<5.0	98	99	70-130	1.05	20
Vanadium	48.2	52.9	50	ND<5.0	96	106	70-130	9.24	20
Zinc	493	501	500	ND<150	99	100	70-130	1.61	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Prepared:	6/4/18 - 6/5/18	**BatchID:**	159341
Date Analyzed:	6/4/18 - 6/5/18	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS-159341 1806063-004AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	50	-	-	-
MTBE	ND	5.0	-	-	-
Benzene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Xylenes	ND	0.50	-	-	-
Surrogate Recovery					
aaa-TFT	9.83		10	98	89-116

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	66.8	-	60	111	-	78-116	-	-
MTBE	11.4	-	10	114	-	72-122	-	-
Benzene	11.2	-	10	112	-	81-123	-	-
Toluene	11.8	-	10	118	-	83-129	-	-
Ethylbenzene	11.8	-	10	118	-	88-126	-	-
Xylenes	35.3	-	30	118	-	87-131	-	-
Surrogate Recovery								
aaa-TFT	9.43	-	10	94	-	89-116	-	-

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	57.7	62.7	60	ND	96	104	63-133	8.22	20
MTBE	10.0	9.88	10	ND	90	89	69-122	1.33	20
Benzene	10.2	10.6	10	ND	102	105	84-125	3.54	20
Toluene	10.6	11.2	10	ND	106	112	87-131	5.56	20
Ethylbenzene	10.7	11.1	10	ND	107	111	92-126	3.46	20
Xylenes	32.6	33.0	30	ND	108	109	88-132	1.00	20
Surrogate Recovery									
aaa-TFT	9.48	9.46	10		95	95	90-117	0	20

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Prepared:	6/7/18	**BatchID:**	159511
Date Analyzed:	6/7/18	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-159511

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	50	-	-	-
MTBE	ND	5.0	-	-	-
Benzene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Xylenes	ND	0.50	-	-	-
Surrogate Recovery					
aaa-TFT	9.62		10	96	89-116

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	59.6	56.8	60	99	95	78-116	4.86	20
MTBE	9.72	8.86	10	97	89	72-122	9.30	20
Benzene	9.64	9.16	10	96	92	81-123	5.14	20
Toluene	10.2	9.58	10	102	96	83-129	6.65	20
Ethylbenzene	10.3	9.74	10	103	97	88-126	5.59	20
Xylenes	31.2	29.2	30	104	97	87-131	6.61	20
Surrogate Recovery								
aaa-TFT	9.16	9.37	10	92	94	89-116	2.25	20

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Prepared:	6/7/18	**BatchID:**	159512
Date Analyzed:	6/7/18	**Extraction Method:**	SW5030B
Instrument:	GC12	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-159512

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	50	-	-	-
MTBE	ND	5.0	-	-	-
Benzene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Xylenes	ND	0.50	-	-	-
Surrogate Recovery					
aaa-TFT	10.4		10	104	89-116

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	57.3	57.2	60	95	95	78-116	0	20
MTBE	11.0	10.5	10	110	105	72-122	4.21	20
Benzene	9.80	9.76	10	98	98	81-123	0	20
Toluene	10.1	10.0	10	101	100	83-129	0.967	20
Ethylbenzene	9.74	9.78	10	97	98	88-126	0.390	20
Xylenes	29.1	29.2	30	97	97	87-131	0	20
Surrogate Recovery								
aaa-TFT	10.2	10.3	10	102	103	89-116	0.284	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Prepared:	6/5/18	**BatchID:**	159354
Date Analyzed:	6/5/18 - 6/6/18	**Extraction Method:**	SW3510C
Instrument:	GC9a	**Analytical Method:**	SW8015B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-159354

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	50	-	-	-
TPH-Motor Oil (C18-C36)	ND	250	-	-	-
Surrogate Recovery					
C9	543		625	87	68-127

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	1120	1060	1000	112	106	86-142	5.97	30
Surrogate Recovery								
C9	536	512	625	86	82	68-127	4.52	30

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1806063 **ClientCode: PDEO**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:
Lindsey Deschenes
P & D Environmental
55 Santa Clara Ave, Ste.240
Oakland, CA 94610
(510) 387-1700 FAX: 510-834-0152

Email: lab@pdenviro.com; Paul.King@pdenviro.c
cc/3rd Party:
PO:
Project: 0772; The Phoenix 801 Pine Street Oakland, CA

Bill to:
Accounts Payable
P & D Environmental
55 Santa Clara ave, Ste.240
Oakland, CA 94610

Requested TAT: **5 days;**

Date Received: **06/01/2018**
Date Logged: **06/01/2018**

					Requested Tests (See legend below)											
Lab ID	**Client ID**	**Matrix**	**Collection Date**	**Hold**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
1806063-001	GW3	Water	5/31/2018 14:34	☐	B	C	A	C	A							
1806063-002	GW4	Water	5/31/2018 14:51	☐	B	C	A	C	A							
1806063-003	GW5	Water	5/31/2018 15:06	☐	B		A		A							
1806063-004	GW6	Water	5/31/2018 09:53	☐	B		A		A							
1806063-005	GW7	Water	5/31/2018 10:57	☐	B		A		A							
1806063-006	GW8	Water	5/31/2018 11:17	☐	B		A		A							
1806063-007	GW9	Water	5/31/2018 11:42	☐	B		A		A							

Test Legend:

1	**8260B_W**	**2**	**CAM17MS_DISS**	**3**	**G-MBTEX_W**	**4**	**PRDISSOLVED**
5	**TPH_W**	**6**		**7**		**8**	
9		**10**		**11**		**12**	

Prepared by: Lilly Ortiz

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A contain testgroup Multi Range_W.

Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL
Project: 0772; The Phoenix 801 Pine Street Oakland, CA
Work Order: 1806063
Client Contact: Lindsey Deschenes
QC Level: LEVEL 2
Contact's Email: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Date Logged: 6/1/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1806063-001A	GW3	Water	Multi-Range TPH(g,d,mo)	4	VOA w/ HCl	☐	5/31/2018 14:34	5 days	Present	☐	
				2	1LA, Unpres	☐			Present	☐	
1806063-001B	GW3	Water	SW8260B (VOCs)	1	VOA w/ HCl	☐	5/31/2018 14:34	5 days	Present	☐	
1806063-001C	GW3	Water	E200.8 (CAM 17) (Dissolved-Lab Filtered)	2	500mL HDPE, unprsv.	☐	5/31/2018 14:34	5 days	Present	☐	
1806063-002A	GW4	Water	Multi-Range TPH(g,d,mo)	4	VOA w/ HCl	☐	5/31/2018 14:51	5 days	Present	☐	
				2	1LA, Unpres	☐			Present	☐	
1806063-002B	GW4	Water	SW8260B (VOCs)	1	VOA w/ HCl	☐	5/31/2018 14:51	5 days	Present	☐	
1806063-002C	GW4	Water	E200.8 (CAM 17) (Dissolved-Lab Filtered)	2	500mL HDPE, unprsv.	☐	5/31/2018 14:51	5 days	Present	☐	
1806063-003A	GW5	Water	Multi-Range TPH(g,d,mo)	4	VOA w/ HCl	☐	5/31/2018 15:06	5 days	Present	☐	
				2	1LA, Unpres	☐			Present	☐	
1806063-003B	GW5	Water	SW8260B (VOCs)	1	VOA w/ HCl	☐	5/31/2018 15:06	5 days	Present	☐	
1806063-004A	GW6	Water	Multi-Range TPH(g,d,mo)	4	VOA w/ HCl	☐	5/31/2018 9:53	5 days	Present	☐	
				2	1LA, Unpres	☐			Present	☐	
1806063-004B	GW6	Water	SW8260B (VOCs)	1	VOA w/ HCl	☐	5/31/2018 9:53	5 days	Present	☐	
1806063-005A	GW7	Water	Multi-Range TPH(g,d,mo)	4	VOA w/ HCl	☐	5/31/2018 10:57	5 days	Present	☐	
				2	1LA, Unpres	☐			Present	☐	

NOTES: **- STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL
Project: 0772; The Phoenix 801 Pine Street Oakland, CA
Work Order: 1806063
Client Contact: Lindsey Deschenes
QC Level: LEVEL 2
Contact's Email: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Date Logged: 6/1/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1806063-005B	GW7	Water	SW8260B (VOCs)	1	VOA w/ HCl	☐	5/31/2018 10:57	5 days	Present	☐	
1806063-006A	GW8	Water	Multi-Range TPH(g,d,mo)	4	VOA w/ HCl	☐	5/31/2018 11:17	5 days	Present	☐	
				2	1LA, Unpres	☐			Present	☐	
1806063-006B	GW8	Water	SW8260B (VOCs)	1	VOA w/ HCl	☐	5/31/2018 11:17	5 days	Present	☐	
1806063-007A	GW9	Water	Multi-Range TPH(g,d,mo)	4	VOA w/ HCl	☐	5/31/2018 11:42	5 days	Present	☐	
				2	1LA, Unpres	☐			Present	☐	
1806063-007B	GW9	Water	SW8260B (VOCs)	1	VOA w/ HCl	☐	5/31/2018 11:42	5 days	Present	☐	

NOTES:
- **STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**
- **MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.**

1806063

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME:
The Phoenix
801 Pine Street
Oakland, CA

SAMPLED BY: (PRINTED & SIGNATURE) Lindsey Deschenes

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): TPH-Multirange (G/D/MO/BO)	VOCs by 8260	Dissolved CAM17 *	PRESERVATIVE	REMARKS
GW3	5/31/18	14:34	H2O	* Please filter & preserve polys upon receipt.	9	X	X	X	ICE	Normal Turnaround Time
GW4	"	14:51	"		9	X	X	X		
GW5	"	15:06	"		7	X	X			
GW6	"	9:53	"		7	X	X			
GW7	"	10:57	"		7	X	X			
GW8	"	11:17	"		7	X	X			
GW9	"	11:42	"		7	X	X			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)
	6.1.18	1300	LAP 6.1.18 1300
LAP	6.1.18	1615	6/1/18 1615
			RECEIVED FOR LABORATORY BY: (SIGNATURE)

Total No. of Samples (This Shipment): 7
Total No. of Containers (This Shipment): 53
LABORATORY: McCampbell Analytical
LABORATORY CONTACT: Angela Rydelius
LABORATORY PHONE NUMBER: (925) 252-9262
SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES [✓ NO]

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: * Please filter + preserve Polys upon receipt at Laboratory

0.7° wet

Sample Receipt Checklist

Client Name: **P & D Environmental**
Project: **0772; The Phoenix 801 Pine Street Oakland, CA**

WorkOrder №: **1806063** Matrix: Water
Carrier: Lorenzo Perez (MAI Courier)

Date and Time Received: **6/1/2018 16:15**
Date Logged: **6/1/2018**
Received by: Lilly Ortiz
Logged by: Lilly Ortiz

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Sample IDs noted by Client on COC?	Yes ☑	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐	
Sampler's name noted on COC?	Yes ☑	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	NA ☐
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		
Sample/Temp Blank temperature	Temp: 0.7°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	NA ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
UCMR Samples:			
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes ☐	No ☐	NA ☑

Comments:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1810751

Report Created for: P & D Environmental

55 Santa Clara Ave, Ste.240
Oakland, CA 94610

Project Contact: Michael Deschenes
Project P.O.:
Project: 0772; The Phoenix 801 Pine St. Oakland, CA

Project Received: 10/15/2018

Analytical Report reviewed & approved for release on 10/22/2018 by:

Jennifer Lagerbom
Project Manager

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
CA ELAP 1644 ♦ NELAP 4033 ORELAP

Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: 0772; The Phoenix 801 Pine St. Oakland, CA
WorkOrder: 1810751

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 μm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: 0772; The Phoenix 801 Pine St. Oakland, CA
WorkOrder: 1810751

Analytical Qualifiers

S	Surrogate spike recovery outside accepted recovery limits
c4	Surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
c12	Surrogate recovery outside of the control limits
e2	Diesel range compounds are significant; no recognizable pattern

Quality Control Qualifiers

F2	LCS/LCSD recovery and/or RPD is out of acceptance criteria.

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Received:	10/15/18 16:00	**Extraction Method:**	SW5030B
Date Prepared:	10/19/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW10	**1810751-001B**	**Water**	**10/13/2018 11:15**	**GC38 10181827.D**	**166928**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	10/19/2018 01:36
tert-Amyl methyl ether (TAME)	ND	0.50	1	10/19/2018 01:36
Benzene	ND	0.50	1	10/19/2018 01:36
Bromobenzene	ND	0.50	1	10/19/2018 01:36
Bromochloromethane	ND	0.50	1	10/19/2018 01:36
Bromodichloromethane	ND	0.50	1	10/19/2018 01:36
Bromoform	ND	0.50	1	10/19/2018 01:36
Bromomethane	ND	0.50	1	10/19/2018 01:36
2-Butanone (MEK)	ND	2.0	1	10/19/2018 01:36
t-Butyl alcohol (TBA)	ND	2.0	1	10/19/2018 01:36
n-Butyl benzene	ND	0.50	1	10/19/2018 01:36
sec-Butyl benzene	ND	0.50	1	10/19/2018 01:36
tert-Butyl benzene	ND	0.50	1	10/19/2018 01:36
Carbon Disulfide	ND	0.50	1	10/19/2018 01:36
Carbon Tetrachloride	ND	0.50	1	10/19/2018 01:36
Chlorobenzene	ND	0.50	1	10/19/2018 01:36
Chloroethane	ND	0.50	1	10/19/2018 01:36
Chloroform	ND	0.50	1	10/19/2018 01:36
Chloromethane	ND	0.50	1	10/19/2018 01:36
2-Chlorotoluene	ND	0.50	1	10/19/2018 01:36
4-Chlorotoluene	ND	0.50	1	10/19/2018 01:36
Dibromochloromethane	ND	0.50	1	10/19/2018 01:36
1,2-Dibromo-3-chloropropane	ND	0.20	1	10/19/2018 01:36
1,2-Dibromoethane (EDB)	ND	0.50	1	10/19/2018 01:36
Dibromomethane	ND	0.50	1	10/19/2018 01:36
1,2-Dichlorobenzene	ND	0.50	1	10/19/2018 01:36
1,3-Dichlorobenzene	ND	0.50	1	10/19/2018 01:36
1,4-Dichlorobenzene	ND	0.50	1	10/19/2018 01:36
Dichlorodifluoromethane	ND	0.50	1	10/19/2018 01:36
1,1-Dichloroethane	ND	0.50	1	10/19/2018 01:36
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	10/19/2018 01:36
1,1-Dichloroethene	ND	0.50	1	10/19/2018 01:36
cis-1,2-Dichloroethene	ND	0.50	1	10/19/2018 01:36
trans-1,2-Dichloroethene	ND	0.50	1	10/19/2018 01:36
1,2-Dichloropropane	ND	0.50	1	10/19/2018 01:36
1,3-Dichloropropane	ND	0.50	1	10/19/2018 01:36
2,2-Dichloropropane	ND	0.50	1	10/19/2018 01:36

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Received:	10/15/18 16:00	**Extraction Method:**	SW5030B
Date Prepared:	10/19/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW10	**1810751-001B**	**Water**	**10/13/2018 11:15**	**GC38 10181827.D**	**166928**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	10/19/2018 01:36
cis-1,3-Dichloropropene	ND	0.50	1	10/19/2018 01:36
trans-1,3-Dichloropropene	ND	0.50	1	10/19/2018 01:36
Diisopropyl ether (DIPE)	ND	0.50	1	10/19/2018 01:36
Ethylbenzene	ND	0.50	1	10/19/2018 01:36
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	10/19/2018 01:36
Freon 113	ND	0.50	1	10/19/2018 01:36
Hexachlorobutadiene	ND	0.50	1	10/19/2018 01:36
Hexachloroethane	ND	0.50	1	10/19/2018 01:36
2-Hexanone	ND	0.50	1	10/19/2018 01:36
Isopropylbenzene	ND	0.50	1	10/19/2018 01:36
4-Isopropyl toluene	ND	0.50	1	10/19/2018 01:36
Methyl-t-butyl ether (MTBE)	ND	0.50	1	10/19/2018 01:36
Methylene chloride	ND	2.0	1	10/19/2018 01:36
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	10/19/2018 01:36
Naphthalene	ND	0.50	1	10/19/2018 01:36
n-Propyl benzene	ND	0.50	1	10/19/2018 01:36
Styrene	ND	0.50	1	10/19/2018 01:36
1,1,1,2-Tetrachloroethane	ND	0.50	1	10/19/2018 01:36
1,1,2,2-Tetrachloroethane	ND	0.50	1	10/19/2018 01:36
Tetrachloroethene	**5.1**	0.50	1	10/19/2018 01:36
Toluene	ND	0.50	1	10/19/2018 01:36
1,2,3-Trichlorobenzene	ND	0.50	1	10/19/2018 01:36
1,2,4-Trichlorobenzene	ND	0.50	1	10/19/2018 01:36
1,1,1-Trichloroethane	ND	0.50	1	10/19/2018 01:36
1,1,2-Trichloroethane	ND	0.50	1	10/19/2018 01:36
Trichloroethene	ND	0.50	1	10/19/2018 01:36
Trichlorofluoromethane	ND	0.50	1	10/19/2018 01:36
1,2,3-Trichloropropane	ND	0.50	1	10/19/2018 01:36
1,2,4-Trimethylbenzene	ND	0.50	1	10/19/2018 01:36
1,3,5-Trimethylbenzene	ND	0.50	1	10/19/2018 01:36
Vinyl Chloride	ND	0.50	1	10/19/2018 01:36
m,p-Xylene	ND	0.50	1	10/19/2018 01:36
o-Xylene	ND	0.50	1	10/19/2018 01:36
Xylenes, Total	ND	0.50	1	10/19/2018 01:36

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Received:	10/15/18 16:00	**Extraction Method:**	SW5030B
Date Prepared:	10/19/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW10	**1810751-001B**	**Water**	**10/13/2018 11:15**	**GC38 10181827.D**	**166928**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	117	78-134		10/19/2018 01:36
Toluene-d8	116	82-120		10/19/2018 01:36
4-BFB	118	69-131		10/19/2018 01:36

Analyst(s): TK

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Received:	10/15/18 16:00	**Extraction Method:**	SW5030B
Date Prepared:	10/19/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW11	1810751-002B	Water	10/13/2018 10:30	GC38 10191814.D	166928

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	10/19/2018 16:50
tert-Amyl methyl ether (TAME)	ND	0.50	1	10/19/2018 16:50
Benzene	ND	0.50	1	10/19/2018 16:50
Bromobenzene	ND	0.50	1	10/19/2018 16:50
Bromochloromethane	ND	0.50	1	10/19/2018 16:50
Bromodichloromethane	ND	0.50	1	10/19/2018 16:50
Bromoform	ND	0.50	1	10/19/2018 16:50
Bromomethane	ND	0.50	1	10/19/2018 16:50
2-Butanone (MEK)	ND	2.0	1	10/19/2018 16:50
t-Butyl alcohol (TBA)	ND	2.0	1	10/19/2018 16:50
n-Butyl benzene	ND	0.50	1	10/19/2018 16:50
sec-Butyl benzene	ND	0.50	1	10/19/2018 16:50
tert-Butyl benzene	ND	0.50	1	10/19/2018 16:50
Carbon Disulfide	ND	0.50	1	10/19/2018 16:50
Carbon Tetrachloride	ND	0.50	1	10/19/2018 16:50
Chlorobenzene	ND	0.50	1	10/19/2018 16:50
Chloroethane	ND	0.50	1	10/19/2018 16:50
Chloroform	ND	0.50	1	10/19/2018 16:50
Chloromethane	ND	0.50	1	10/19/2018 16:50
2-Chlorotoluene	ND	0.50	1	10/19/2018 16:50
4-Chlorotoluene	ND	0.50	1	10/19/2018 16:50
Dibromochloromethane	ND	0.50	1	10/19/2018 16:50
1,2-Dibromo-3-chloropropane	ND	0.20	1	10/19/2018 16:50
1,2-Dibromoethane (EDB)	ND	0.50	1	10/19/2018 16:50
Dibromomethane	ND	0.50	1	10/19/2018 16:50
1,2-Dichlorobenzene	ND	0.50	1	10/19/2018 16:50
1,3-Dichlorobenzene	ND	0.50	1	10/19/2018 16:50
1,4-Dichlorobenzene	ND	0.50	1	10/19/2018 16:50
Dichlorodifluoromethane	ND	0.50	1	10/19/2018 16:50
1,1-Dichloroethane	ND	0.50	1	10/19/2018 16:50
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	10/19/2018 16:50
1,1-Dichloroethene	ND	0.50	1	10/19/2018 16:50
cis-1,2-Dichloroethene	ND	0.50	1	10/19/2018 16:50
trans-1,2-Dichloroethene	ND	0.50	1	10/19/2018 16:50
1,2-Dichloropropane	ND	0.50	1	10/19/2018 16:50
1,3-Dichloropropane	ND	0.50	1	10/19/2018 16:50
2,2-Dichloropropane	ND	0.50	1	10/19/2018 16:50

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Received:	10/15/18 16:00	**Extraction Method:**	SW5030B
Date Prepared:	10/19/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW11	**1810751-002B**	**Water**	**10/13/2018 10:30**	**GC38 10191814.D**	**166928**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	10/19/2018 16:50
cis-1,3-Dichloropropene	ND	0.50	1	10/19/2018 16:50
trans-1,3-Dichloropropene	ND	0.50	1	10/19/2018 16:50
Diisopropyl ether (DIPE)	ND	0.50	1	10/19/2018 16:50
Ethylbenzene	ND	0.50	1	10/19/2018 16:50
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	10/19/2018 16:50
Freon 113	ND	0.50	1	10/19/2018 16:50
Hexachlorobutadiene	ND	0.50	1	10/19/2018 16:50
Hexachloroethane	ND	0.50	1	10/19/2018 16:50
2-Hexanone	ND	0.50	1	10/19/2018 16:50
Isopropylbenzene	ND	0.50	1	10/19/2018 16:50
4-Isopropyl toluene	ND	0.50	1	10/19/2018 16:50
Methyl-t-butyl ether (MTBE)	ND	0.50	1	10/19/2018 16:50
Methylene chloride	ND	2.0	1	10/19/2018 16:50
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	10/19/2018 16:50
Naphthalene	ND	0.50	1	10/19/2018 16:50
n-Propyl benzene	ND	0.50	1	10/19/2018 16:50
Styrene	ND	0.50	1	10/19/2018 16:50
1,1,1,2-Tetrachloroethane	ND	0.50	1	10/19/2018 16:50
1,1,2,2-Tetrachloroethane	ND	0.50	1	10/19/2018 16:50
Tetrachloroethene	ND	0.50	1	10/19/2018 16:50
Toluene	ND	0.50	1	10/19/2018 16:50
1,2,3-Trichlorobenzene	ND	0.50	1	10/19/2018 16:50
1,2,4-Trichlorobenzene	ND	0.50	1	10/19/2018 16:50
1,1,1-Trichloroethane	ND	0.50	1	10/19/2018 16:50
1,1,2-Trichloroethane	ND	0.50	1	10/19/2018 16:50
Trichloroethene	**9.3**	0.50	1	10/19/2018 16:50
Trichlorofluoromethane	ND	0.50	1	10/19/2018 16:50
1,2,3-Trichloropropane	ND	0.50	1	10/19/2018 16:50
1,2,4-Trimethylbenzene	ND	0.50	1	10/19/2018 16:50
1,3,5-Trimethylbenzene	ND	0.50	1	10/19/2018 16:50
Vinyl Chloride	ND	0.50	1	10/19/2018 16:50
m,p-Xylene	ND	0.50	1	10/19/2018 16:50
o-Xylene	ND	0.50	1	10/19/2018 16:50
Xylenes, Total	ND	0.50	1	10/19/2018 16:50

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Received:	10/15/18 16:00	**Extraction Method:**	SW5030B
Date Prepared:	10/19/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW11	**1810751-002B**	**Water**	**10/13/2018 10:30**	**GC38 10191814.D**	**166928**

Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)	Qualifiers	Limits		
Dibromofluoromethane	113		78-134		10/19/2018 16:50
Toluene-d8	122	S	82-120		10/19/2018 16:50
4-BFB	123		69-131		10/19/2018 16:50

Analyst(s): TK

Analytical Comments: c12

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Received:	10/15/18 16:00	**Extraction Method:**	SW5030B
Date Prepared:	10/18/18	**Analytical Method:**	SW8021B/8015Bm
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Unit:**	µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW10	**1810751-001A**	**Water**	**10/13/2018 11:15**	**GC3 10171828.D**	**166860**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	10/18/2018 02:10
MTBE	---	5.0	1	10/18/2018 02:10
Benzene	---	0.50	1	10/18/2018 02:10
Toluene	---	0.50	1	10/18/2018 02:10
Ethylbenzene	---	0.50	1	10/18/2018 02:10
m,p-Xylene	---	1.0	1	10/18/2018 02:10
o-Xylene	---	0.50	1	10/18/2018 02:10
Xylenes	---	0.50	1	10/18/2018 02:10

Surrogates	REC (%)	Limits	
aaa-TFT	99	90-117	10/18/2018 02:10

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW11	**1810751-002A**	**Water**	**10/13/2018 10:30**	**GC3 10171835.D**	**166860**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	10/18/2018 05:44
MTBE	---	5.0	1	10/18/2018 05:44
Benzene	---	0.50	1	10/18/2018 05:44
Toluene	---	0.50	1	10/18/2018 05:44
Ethylbenzene	---	0.50	1	10/18/2018 05:44
m,p-Xylene	---	1.0	1	10/18/2018 05:44
o-Xylene	---	0.50	1	10/18/2018 05:44
Xylenes	---	0.50	1	10/18/2018 05:44

Surrogates	REC (%)	Qualifiers	Limits	
aaa-TFT	170	S	90-117	10/18/2018 05:44

Analyst(s): IA   Analytical Comments: c4

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Received:	10/15/18 16:00	**Extraction Method:**	SW3510C
Date Prepared:	10/15/18	**Analytical Method:**	SW8015B
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW10	**1810751-001A**	**Water**	**10/13/2018 11:15**	**GC6B 10171823.D**	**166628**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	10/17/2018 18:43
TPH-Motor Oil (C18-C36)	ND	250	1	10/17/2018 18:43
TPH-Bunker Oil (C10-C36)	ND	250	1	10/17/2018 18:43

Surrogates	REC (%)	Limits	Date Analyzed
C9	94	61-139	10/17/2018 18:43

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW11	**1810751-002A**	**Water**	**10/13/2018 10:30**	**GC6B 10171825.D**	**166628**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**76**	50	1	10/17/2018 19:22
TPH-Motor Oil (C18-C36)	ND	250	1	10/17/2018 19:22
TPH-Bunker Oil (C10-C36)	ND	250	1	10/17/2018 19:22

Surrogates	REC (%)	Limits	Date Analyzed
C9	94	61-139	10/17/2018 19:22

Analyst(s): JIS

Analytical Comments: e2

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Prepared:	10/18/18	**BatchID:**	166928
Date Analyzed:	10/18/18	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Sample ID:**	MB/LCS/LCSD-166928

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	10	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.50	-	-	-
Benzene	ND	0.50	-	-	-
Bromobenzene	ND	0.50	-	-	-
Bromochloromethane	ND	0.50	-	-	-
Bromodichloromethane	ND	0.50	-	-	-
Bromoform	ND	0.50	-	-	-
Bromomethane	ND	0.50	-	-	-
2-Butanone (MEK)	ND	2.0	-	-	-
t-Butyl alcohol (TBA)	ND	2.0	-	-	-
n-Butyl benzene	ND	0.50	-	-	-
sec-Butyl benzene	ND	0.50	-	-	-
tert-Butyl benzene	ND	0.50	-	-	-
Carbon Disulfide	ND	0.50	-	-	-
Carbon Tetrachloride	ND	0.50	-	-	-
Chlorobenzene	ND	0.50	-	-	-
Chloroethane	ND	0.50	-	-	-
Chloroform	ND	0.50	-	-	-
Chloromethane	ND	0.50	-	-	-
2-Chlorotoluene	ND	0.50	-	-	-
4-Chlorotoluene	ND	0.50	-	-	-
Dibromochloromethane	ND	0.50	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.20	-	-	-
1,2-Dibromoethane (EDB)	ND	0.50	-	-	-
Dibromomethane	ND	0.50	-	-	-
1,2-Dichlorobenzene	ND	0.50	-	-	-
1,3-Dichlorobenzene	ND	0.50	-	-	-
1,4-Dichlorobenzene	ND	0.50	-	-	-
Dichlorodifluoromethane	ND	0.50	-	-	-
1,1-Dichloroethane	ND	0.50	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.50	-	-	-
1,1-Dichloroethene	ND	0.50	-	-	-
cis-1,2-Dichloroethene	ND	0.50	-	-	-
trans-1,2-Dichloroethene	ND	0.50	-	-	-
1,2-Dichloropropane	ND	0.50	-	-	-
1,3-Dichloropropane	ND	0.50	-	-	-
2,2-Dichloropropane	ND	0.50	-	-	-
1,1-Dichloropropene	ND	0.50	-	-	-

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Prepared:	10/18/18	**BatchID:**	166928
Date Analyzed:	10/18/18	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Sample ID:**	MB/LCS/LCSD-166928

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
cis-1,3-Dichloropropene	ND	0.50	-	-	-
trans-1,3-Dichloropropene	ND	0.50	-	-	-
Diisopropyl ether (DIPE)	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.50	-	-	-
Freon 113	ND	0.50	-	-	-
Hexachlorobutadiene	ND	0.50	-	-	-
Hexachloroethane	ND	0.50	-	-	-
2-Hexanone	ND	0.50	-	-	-
Isopropylbenzene	ND	0.50	-	-	-
4-Isopropyl toluene	ND	0.50	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.50	-	-	-
Methylene chloride	ND	2.0	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.50	-	-	-
Naphthalene	ND	0.50	-	-	-
n-Propyl benzene	ND	0.50	-	-	-
Styrene	ND	0.50	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.50	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.50	-	-	-
Tetrachloroethene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
1,2,3-Trichlorobenzene	ND	0.50	-	-	-
1,2,4-Trichlorobenzene	ND	0.50	-	-	-
1,1,1-Trichloroethane	ND	0.50	-	-	-
1,1,2-Trichloroethane	ND	0.50	-	-	-
Trichloroethene	ND	0.50	-	-	-
Trichlorofluoromethane	ND	0.50	-	-	-
1,2,3-Trichloropropane	ND	0.50	-	-	-
1,2,4-Trimethylbenzene	ND	0.50	-	-	-
1,3,5-Trimethylbenzene	ND	0.50	-	-	-
Vinyl Chloride	ND	0.50	-	-	-
m,p-Xylene	ND	0.50	-	-	-
o-Xylene	ND	0.50	-	-	-
Xylenes, Total	ND	0.50	-	-	-

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Prepared:	10/18/18	**BatchID:**	166928
Date Analyzed:	10/18/18	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Sample ID:**	MB/LCS/LCSD-166928

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery					
Dibromofluoromethane	30		25	119	91-133
Toluene-d8	30		25	119	87-127
4-BFB	2.9		2.5	116	66-140

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Prepared:	10/18/18	**BatchID:**	166928
Date Analyzed:	10/18/18	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Sample ID:**	MB/LCS/LCSD-166928

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	190	190	200	94	97	47-122	2.78	20
tert-Amyl methyl ether (TAME)	9.7	10	10	97	102	62-121	4.86	20
Benzene	12	12	10	116	124, F2	74-121	7.11	20
Bromobenzene	12	12	10	115	116	63-127	0.443	20
Bromochloromethane	12	13	10	119	126	70-126	5.80	20
Bromodichloromethane	10	11	10	101	106	66-127	4.95	20
Bromoform	11	10	10	107	102	60-119	4.79	20
Bromomethane	7.3	7.9	10	73	79	32-155	8.37	20
2-Butanone (MEK)	41	42	40	102	104	51-117	1.98	20
t-Butyl alcohol (TBA)	37	39	40	93	97	41-122	4.02	20
n-Butyl benzene	12	12	10	119	119	73-137	0	20
sec-Butyl benzene	12	12	10	117	120	71-137	2.69	20
tert-Butyl benzene	12	12	10	118	121	61-136	2.75	20
Carbon Disulfide	12	13	10	120	129	61-139	7.71	20
Carbon Tetrachloride	10	11	10	103	109	69-137	5.80	20
Chlorobenzene	11	11	10	114	114	71-122	0	20
Chloroethane	8.4	9.0	10	84	90	54-132	6.86	20
Chloroform	10	11	10	100	107	73-122	6.58	20
Chloromethane	7.2	7.8	10	72	78	48-136	7.37	20
2-Chlorotoluene	11	12	10	113	117	65-134	3.02	20
4-Chlorotoluene	11	12	10	113	115	65-130	2.18	20
Dibromochloromethane	11	10	10	107	105	65-121	2.11	20
1,2-Dibromo-3-chloropropane	4.4	4.2	4	111	105	41-132	5.23	20
1,2-Dibromoethane (EDB)	11	10	10	106	104	67-125	2.17	20
Dibromomethane	11	12	10	114	118	68-121	3.47	20
1,2-Dichlorobenzene	11	11	10	112	113	69-128	0.663	20
1,3-Dichlorobenzene	12	12	10	115	116	71-131	1.07	20
1,4-Dichlorobenzene	11	11	10	110	112	70-128	1.39	20
Dichlorodifluoromethane	2.5	3.5	10	25	35	21-158	31.9,F2	20
1,1-Dichloroethane	11	12	10	113	122	73-123	7.33	20
1,2-Dichloroethane (1,2-DCA)	10	10	10	100	104	61-127	4.05	20
1,1-Dichloroethene	11	12	10	106	115	68-130	8.30	20
cis-1,2-Dichloroethene	12	13	10	121	129, F2	72-123	6.47	20
trans-1,2-Dichloroethene	12	13	10	120	130	64-138	7.71	20
1,2-Dichloropropane	11	12	10	115	122, F2	71-121	6.19	20
1,3-Dichloropropane	11	11	10	115	113	69-120	1.61	20
2,2-Dichloropropane	12	13	10	121	130	64-142	7.00	20
1,1-Dichloropropene	12	13	10	118	128	70-130	7.78	20

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Prepared:	10/18/18	**BatchID:**	166928
Date Analyzed:	10/18/18	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Sample ID:**	MB/LCS/LCSD-166928

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	11	11	10	110	111	58-136	1.06	20
trans-1,3-Dichloropropene	11	10	10	106	104	66-119	1.91	20
Diisopropyl ether (DIPE)	11	12	10	111	117	66-123	5.16	20
Ethylbenzene	12	12	10	117	118	71-125	0.720	20
Ethyl tert-butyl ether (ETBE)	9.5	10	10	95	100	67-122	5.02	20
Freon 113	10	11	10	104	113	68-132	7.90	20
Hexachlorobutadiene	12	12	10	118	120	56-155	2.07	20
Hexachloroethane	10	10	10	102	103	61-129	0.961	20
2-Hexanone	10	10	10	101	100	51-115	0.400	20
Isopropylbenzene	13	13	10	129	133	66-134	3.05	20
4-Isopropyl toluene	12	12	10	120	122	70-136	1.82	20
Methyl-t-butyl ether (MTBE)	12	12	10	115	121, F2	64-118	4.33	20
Methylene chloride	11	11	10	107	113	62-121	5.41	20
4-Methyl-2-pentanone (MIBK)	10	9.9	10	104	99	51-115	4.49	20
Naphthalene	12	11	10	117	112	55-137	4.74	20
n-Propyl benzene	12	12	10	116	119	63-140	2.05	20
Styrene	11	11	10	115	114	62-133	0.243	20
1,1,1,2-Tetrachloroethane	11	11	10	107	106	69-128	0.669	20
1,1,2,2-Tetrachloroethane	12	12	10	120, F2	118	60-118	1.64	20
Tetrachloroethene	12	12	10	118	121	63-136	2.83	20
Toluene	11	11	10	108	108	67-124	0	20
1,2,3-Trichlorobenzene	12	12	10	120	118	57-145	2.27	20
1,2,4-Trichlorobenzene	12	12	10	123	121	60-144	1.93	20
1,1,1-Trichloroethane	12	12	10	116	124	70-133	6.93	20
1,1,2-Trichloroethane	12	12	10	117	115	65-125	1.66	20
Trichloroethene	12	13	10	118	127	67-133	7.40	20
Trichlorofluoromethane	9.9	10	10	99	105	59-145	5.95	20
1,2,3-Trichloropropane	11	11	10	109	107	65-115	1.82	20
1,2,4-Trimethylbenzene	11	11	10	111	113	67-136	1.76	20
1,3,5-Trimethylbenzene	12	12	10	116	117	68-135	1.02	20
Vinyl Chloride	7.7	8.4	10	77	84	53-146	9.36	20
m,p-Xylene	20	22	20	101	110	66-129	8.94	20
o-Xylene	11	11	10	113	113	71-128	0	20
Xylenes, Total	31	33	30	105	111	68-128	5.93	20

(Cont.)

Quality Control Report

Client: P & D Environmental
Date Prepared: 10/18/18
Date Analyzed: 10/18/18
Instrument: GC38
Matrix: Water
Project: 0772; The Phoenix 801 Pine St. Oakland, CA

WorkOrder: 1810751
BatchID: 166928
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS/LCSD-166928

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
Dibromofluoromethane	29	31	25	116	123	91-133	5.92	20
Toluene-d8	29	30	25	117	118	87-127	1.02	20
4-BFB	3.0	3.1	2.5	121	122	66-140	0.868	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Prepared:	10/17/18	**BatchID:**	166860
Date Analyzed:	10/17/18	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Sample ID:**	MB/LCS/LCSD-166860

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	50	-	-	-
MTBE	ND	5.0	-	-	-
Benzene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
m,p-Xylene	ND	1.0	-	-	-
o-Xylene	ND	0.50	-	-	-
Xylenes	ND	0.50	-	-	-
Surrogate Recovery					
aaa-TFT	9.6		10	96	89-116

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	65	65	60	109	109	78-116	0	20
MTBE	9.6	9.7	10	96	97	72-122	0.725	20
Benzene	10	10	10	104	104	81-123	0	20
Toluene	11	11	10	107	107	83-129	0	20
Ethylbenzene	10	10	10	104	105	88-126	1.14	20
m,p-Xylene	21	21	20	104	105	80-120	0.588	20
o-Xylene	10	10	10	101	102	80-120	1.10	20
Xylenes	31	31	30	103	104	87-131	0.755	20
Surrogate Recovery								
aaa-TFT	9.4	9.3	10	94	93	89-116	0.815	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Prepared:	10/15/18	**BatchID:**	166628
Date Analyzed:	10/15/18	**Extraction Method:**	SW3510C
Instrument:	GC6B	**Analytical Method:**	SW8015B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Sample ID:**	MB/LCS/LCSD-166628

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	50	-	-	-
TPH-Motor Oil (C18-C36)	ND	250	-	-	-
Surrogate Recovery					
C9	550		625	88	68-127

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	1100	1100	1000	115	107	86-142	7.06	30
Surrogate Recovery								
C9	540	540	625	86	86	68-127	0	30

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1810751 **ClientCode: PDEO**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ▨ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
▨ Detection Summary ▨ Dry-Weight

Report to:
Michael Deschenes
P & D Environmental
55 Santa Clara Ave, Ste.240
Oakland, CA 94610
(510) 658-6916 FAX: 510-834-0152

Email: lab@pdenviro.com; Paul.King@pdenviro.c
cc/3rd Party:
PO:
Project: 0772; The Phoenix 801 Pine St. Oakland, CA

Bill to:
Accounts Payable
P & D Environmental
55 Santa Clara Ave, Ste.240
Oakland, CA 94610

Requested TAT: **5 days;**

Date Received: **10/15/2018**
Date Logged: **10/15/2018**

					Requested Tests (See legend below)											
Lab ID	**Client ID**	**Matrix**	**Collection Date**	**Hold**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
1810751-001	GW10	Water	10/13/2018 11:15	☐	B	A	A									
1810751-002	GW11	Water	10/13/2018 10:30	☐	B	A	A									

Test Legend:

1	**8260B_W**	**2**	**G-MBTEX_W**	**3**	**TPH_W**	**4**	
5		**6**		**7**		**8**	
9		**10**		**11**		**12**	

Prepared by: Julia Danielsson

The following SampIDs: 001A, 002A contain testgroup Multi Range_W.

Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL

Client Contact: Michael Deschenes

Contact's Email: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

Project: 0772; The Phoenix 801 Pine St. Oakland, CA

Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

Work Order: 1810751

QC Level: LEVEL 2

Date Logged: 10/15/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1810751-001A	GW10	Water	Multi-Range TPH(g,d,mo)	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	☐	10/13/2018 11:15	5 days	Present	☐	
1810751-001B	GW10	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	10/13/2018 11:15	5 days	Present	☐	
1810751-002A	GW11	Water	Multi-Range TPH(g,d,mo)	1	2 VOAs w/HCL + 2-aVOAs (multi-range)	☐	10/13/2018 10:30	5 days	Present	☐	
1810751-002B	GW11	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	10/13/2018 10:30	5 days	Present	☐	

NOTES:
- **STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**
- **MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.**

CHAIN OF CUSTODY RECORD 1810751

PAGE 1 OF 1

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME: The Phoenix
801 PINE STREET
OAKLAND, CA

SAMPLED BY: (PRINTED & SIGNATURE) Michael Bass-Deschenes MICHAEL BASS-DESCHENES

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): TPH-MULTIRANGE (G,D,MO,Bo)	VOCs BY 8260							PRESERVATIVE	REMARKS
+ GW10	10/13/18	1115	H2O		7	X	X							ICE	NORMAL TAT
+ GW11	10/13/18	1030	H2O		7	X	X							ICE	" "

RELINQUISHED BY: (SIGNATURE) Michael Bass-Deschenes	DATE 10/15/18	TIME 0930	RECEIVED BY: (SIGNATURE) LAP 10/15/18 0950	Total No. of Samples (This Shipment): 2 Total No. of Containers (This Shipment): 14	LABORATORY: McCAMPBELL ANALYTICAL
RELINQUISHED BY: (SIGNATURE) LAP	DATE 10/15/18	TIME 1600	RECEIVED BY: (SIGNATURE)	LABORATORY CONTACT: ANGELA RYDELIUS	LABORATORY PHONE NUMBER: (925) 252-9292
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES [✓ (X) NO]	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: 4 VOAS WITH HCL
2 VOAS AMBER (NON-PRESERVED)
1 LITER AMBER (NON-PRESERVED)

3.3 wet

Sample Receipt Checklist

Client Name:	**P & D Environmental**	Date and Time Received	**10/15/2018 16:00**
Project:	**0772; The Phoenix 801 Pine St. Oakland, CA**	Date Logged:	**10/15/2018**
		Received by:	Julia Danielsson
WorkOrder №:	**1810751** Matrix: Water	Logged by:	Julia Danielsson
Carrier:	Lorenzo Perez (MAI Courier)		

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Sample IDs noted by Client on COC?	Yes ☑	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐	
Sampler's name noted on COC?	Yes ☑	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		
Sample/Temp Blank temperature	Temp: 3.3°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	NA ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
UCMR Samples:			
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes ☐	No ☐	NA ☑

Comments:

ENTHALPY

ANALYTICAL

Enthalpy Analytical
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 300421
ANALYTICAL REPORT

P&D Environmental
55 Santa Clara Avenue
Oakland, CA 94610

Project : 0772
Location : 801 Pine Streets Oakland, Ca.
Level : II

Sample ID	Lab ID
SG6	300421-001
SG6-DUP	300421-002
SG7	300421-003
SG8	300421-004
SG9	300421-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: LAS

Lauren Smith
Project Manager
lauren.smith@enthalpy.com

Date: 06/14/2018

CA ELAP# 2896, NELAP# 4044-001

CASE NARRATIVE

Laboratory number:	**300421**
Client:	**P&D Environmental**
Project:	**0772**
Location:	**801 Pine Streets Oakland, Ca.**
Request Date:	**06/06/18**
Samples Received:	**06/06/18**

This data package contains sample and QC results for five air samples, requested for the above referenced project on 06/06/18. The samples were received cold and intact.

Volatile Organics in Air by MS (EPA TO-15):
No analytical problems were encountered.

Volatile Organics in Air GC (ASTM D1946-90 and EPA TO-3):
Gasoline range organics C6-C12 was detected between the MDL and the RL in the method blank for batch 260467. No other analytical problems were encountered.

CHAIN OF CUSTODY RECORD

300421

PAGE 1 OF 2

P&D ENVIRONMENTAL, INC.

55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME:
The Phoenix
801 Pine Street
Oakland, CA

SAMPLED BY: (PRINTED & SIGNATURE) Lindsey Deschenes

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION Initial Vacuum	Final Vacuum	Summa	NUMBER OF CONTAINERS	ANALYSIS(ES): VOCs incl. BTEX, PCE, TCE, cis-1,2 DCE, trans-1,2 DCE, & vinyl chloride			Carbon dioxide, oxygen, nitrogen & helium by ASTM D-1946					PRESERVATIVE	REMARKS
SG6	6/4/18	12:31:40	Soil Gas	-27		126	1	X			X					None	Normal TAT
		12:41:01	" "		-5												
SG6 - REP	6/4/18	13:41:20	" "	-28		338	1	X			X					"	" "
		13:50:12	" "		-5												
SG6 - DUP	6/4/18	14:04:36	" "	-30		271	1	X			X					"	" "
		14:13:25	" "		-5												
SG6-DUP, REP	6/4/18	14:24:15	" "	-23		420	1	X			X					"	" "
		14:33:10	" "		-5												
SG7	6/4/18	15:06:15	" "	-28		341	1	X			X					"	" "
		15:14:18	" "		-5												

RELINQUISHED BY: (SIGNATURE) DATE 6-5 TIME 16:18 RECEIVED BY: (SIGNATURE)

Total No. of Samples (This Shipment) 10

Total No. of Containers (This Shipment) 10

LABORATORY: Enthalpy Analytical

RELINQUISHED BY: (SIGNATURE) DATE TIME RECEIVED BY: (SIGNATURE)

LABORATORY CONTACT: Lauren Smith

LABORATORY PHONE NUMBER: (510) 486-0900

RELINQUISHED BY: (SIGNATURE) DATE TIME RECEIVED FOR LABORATORY BY: (SIGNATURE)

SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES [✓ NO]

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS:

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME:
The Phoenix
801 Pine Street
Oakland, CA

SAMPLED BY: (PRINTED & SIGNATURE) Lindsey Deschenes

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION Initial Vacuum	Final Vacuum	Summa	NUMBER OF CONTAINERS	ANALYSIS(ES): VOCs incl. BTEX, PCE, TCE, cis-1,2 DCE	trans-1,2 DCE, & vinyl chloride		Carbon dioxide, oxygen, nitrogen	& helium by ASTM D-1946				PRESERVATIVE	REMARKS
SG7-REP	6/4/18	15:28:57	Soil Gas	-28		142	1	X			X					None	Normal TAT
		15:37:00	" "		-5												
SG8	6/5/18	12:32:30	" "	-29		442	1	X			X					"	" "
		12:40:25	" "		-5												
SG8-REP	6/5/18	12:52:30	" "	-29		324	1	X			X					"	" "
		13:06:58	" "		-5												
SG9	6/5/18	13:56:00	" "	-30		434	1	X			X					"	" "
		14:02:27	" "		-4.5												
SG9-REP	6/5/18	14:20:45	" "	-30		117	1	X			X					"	" "
		14:26:50	" "		-5												

RELINQUISHED BY: (SIGNATURE)	DATE 6·5	TIME 16:18	RECEIVED BY: (SIGNATURE)	Total No. of Samples (This Shipment) 10 Total No. of Containers (This Shipment) 10	LABORATORY: Enthalpy Analytical
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	LABORATORY CONTACT: Lauren Smith	LABORATORY PHONE NUMBER: (510) 486-0900
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES [✓ NO]	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 300421 Date Received 06/06/18 Number of coolers 0
Client PDE Project 0772

Date Opened 06/06/18 By (print) BNL (sign)
Date Logged in ↓ By (print) ↓ (sign) ↓
Date Labeled ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) YES [✓ NO]
Shipping info

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☑ NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO [✓ N/A]

3. Were custody papers dry and intact when received? [✓ YES] NO

4. Were custody papers filled out properly (ink, signed, etc)? [✓ YES] NO

5. Is the project identifiable from custody papers? (If so fill out top of form) [✓ YES] NO

6. Indicate the packing in cooler: (if other, describe)

☐ Bubble Wrap ☐ Foam blocks ☐ Bags ☐ None
☐ Cloth material ☑ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☐ Wet ☐ Blue/Gel ☑ None Temp(°C)

☐ Temperature blank(s) included? ☐ Thermometer# ☐ IR Gun#

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES [✓ NO]
If YES, what time were they transferred to freezer?

9. Did all bottles arrive unbroken/unopened? [✓ YES] NO

10. Are there any missing / extra samples? YES [✓ NO]

11. Are samples in the appropriate containers for indicated tests? [✓ YES] NO

12. Are sample labels present, in good condition and complete? [✓ YES] NO

13. Do the sample labels agree with custody papers? [✓ YES] NO

14. Was sufficient amount of sample sent for tests requested? [✓ YES] NO

15. Are the samples appropriately preserved? YES NO [✓ N/A]

16. Did you check preservatives for all bottles for each sample? YES NO [✓ N/A]

17. Did you document your preservative check? (pH strip lot#) YES NO [✓ N/A]

18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO [✓ N/A]

19. Did you change the hold time in LIMS for preserved terracores? YES NO [✓ N/A]

20. Are bubbles > 6mm absent in VOA samples? YES NO [✓ N/A]

21. Was the client contacted concerning this sample delivery? YES [✓ NO]
If YES, Who was called? By Date:

COMMENTS

Detections Summary for 300421

Results for any subcontracted analyses are not included in this summary.

Client : P&D Environmental
Project : 0772
Location : 801 Pine Streets Oakland, Ca.

Client Sample ID : SG6 Laboratory Sample ID : 300421-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Benzene	0.20	J	3.1	0.052	ppbv	As Recd	6.240	EPA TO-15	METHOD
Trichloroethene	490		3.1	0.055	ppbv	As Recd	6.240	EPA TO-15	METHOD
Toluene	0.85	J	3.1	0.066	ppbv	As Recd	6.240	EPA TO-15	METHOD
Tetrachloroethene	5.2		3.1	0.052	ppbv	As Recd	6.240	EPA TO-15	METHOD
Ethylbenzene	0.28	J	3.1	0.059	ppbv	As Recd	6.240	EPA TO-15	METHOD
m,p-Xylenes	1.1	J	3.1	0.10	ppbv	As Recd	6.240	EPA TO-15	METHOD
o-Xylene	0.66	J	3.1	0.077	ppbv	As Recd	6.240	EPA TO-15	METHOD
Carbon Dioxide	75,000		2,100		ppmv	As Recd	2.080	ASTM D1946-90	METHOD
Oxygen	99,000		2,100		ppmv	As Recd	2.080	ASTM D1946-90	METHOD
Gasoline Range Organics C6-C12	140		100	15	ppbv	As Recd	2.080	EPA TO-3	METHOD

Client Sample ID : SG6-DUP Laboratory Sample ID : 300421-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Benzene	0.17	J	3.5	0.058	ppbv	As Recd	7.020	EPA TO-15	METHOD
Trichloroethene	490		3.5	0.062	ppbv	As Recd	7.020	EPA TO-15	METHOD
Toluene	0.60	J	3.5	0.075	ppbv	As Recd	7.020	EPA TO-15	METHOD
Tetrachloroethene	5.1		3.5	0.058	ppbv	As Recd	7.020	EPA TO-15	METHOD
Ethylbenzene	0.25	J	3.5	0.067	ppbv	As Recd	7.020	EPA TO-15	METHOD
m,p-Xylenes	1.1	J	3.5	0.11	ppbv	As Recd	7.020	EPA TO-15	METHOD
o-Xylene	0.67	J	3.5	0.086	ppbv	As Recd	7.020	EPA TO-15	METHOD
Carbon Dioxide	74,000		2,300		ppmv	As Recd	2.340	ASTM D1946-90	METHOD
Oxygen	97,000		2,300		ppmv	As Recd	2.340	ASTM D1946-90	METHOD
Gasoline Range Organics C6-C12	190		120	17	ppbv	As Recd	2.340	EPA TO-3	METHOD

Client Sample ID : SG7 Laboratory Sample ID : 300421-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Benzene	0.050	J	1.1	0.050	ppbv	As Recd	2.280	EPA TO-15	METHOD
Trichloroethene	0.12	J	1.1	0.033	ppbv	As Recd	2.280	EPA TO-15	METHOD
Toluene	0.11	J	1.1	0.046	ppbv	As Recd	2.280	EPA TO-15	METHOD
Tetrachloroethene	5.4		1.1	0.046	ppbv	As Recd	2.280	EPA TO-15	METHOD
m,p-Xylenes	0.11	J	1.1	0.046	ppbv	As Recd	2.280	EPA TO-15	METHOD
o-Xylene	0.10	J	1.1	0.028	ppbv	As Recd	2.280	EPA TO-15	METHOD
Carbon Dioxide	29,000		2,300		ppmv	As Recd	2.280	ASTM D1946-90	METHOD
Oxygen	140,000		2,300		ppmv	As Recd	2.280	ASTM D1946-90	METHOD
Gasoline Range Organics C6-C12	27	J	110	17	ppbv	As Recd	2.280	EPA TO-3	METHOD

Client Sample ID : SG8 Laboratory Sample ID : 300421-004

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Benzene	0.082	J	1.1	0.050	ppbv	As Recd	2.280	EPA TO-15	METHOD
Toluene	0.37	J	1.1	0.046	ppbv	As Recd	2.280	EPA TO-15	METHOD
Tetrachloroethene	0.66	J	1.1	0.046	ppbv	As Recd	2.280	EPA TO-15	METHOD
Ethylbenzene	0.050	J	1.1	0.033	ppbv	As Recd	2.280	EPA TO-15	METHOD
m,p-Xylenes	0.23	J	1.1	0.046	ppbv	As Recd	2.280	EPA TO-15	METHOD
o-Xylene	0.075	J	1.1	0.028	ppbv	As Recd	2.280	EPA TO-15	METHOD
Carbon Dioxide	33,000		2,300		ppmv	As Recd	2.280	ASTM D1946-90	METHOD
Oxygen	140,000		2,300		ppmv	As Recd	2.280	ASTM D1946-90	METHOD
Gasoline Range Organics C6-C12	49	J	110	17	ppbv	As Recd	2.280	EPA TO-3	METHOD

Client Sample ID : SG9 Laboratory Sample ID : 300421-005

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Trichloroethene	0.043	J	1.1	0.031	ppbv	As Recd	2.140	EPA TO-15	METHOD
Toluene	0.12	J	1.1	0.043	ppbv	As Recd	2.140	EPA TO-15	METHOD
Tetrachloroethene	3.9		1.1	0.043	ppbv	As Recd	2.140	EPA TO-15	METHOD
Ethylbenzene	0.047	J	1.1	0.031	ppbv	As Recd	2.140	EPA TO-15	METHOD
m,p-Xylenes	0.079	J	1.1	0.043	ppbv	As Recd	2.140	EPA TO-15	METHOD
o-Xylene	0.034	J	1.1	0.026	ppbv	As Recd	2.140	EPA TO-15	METHOD
Carbon Dioxide	23,000		2,100		ppmv	As Recd	2.140	ASTM D1946-90	METHOD
Oxygen	150,000		2,100		ppmv	As Recd	2.140	ASTM D1946-90	METHOD

J = Estimated value

Volatile Organics in Air

Lab #:	300421	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Units (M):	ug/m3
Units (V):	ppbv	Received:	06/06/18

Field ID:	SG6	Batch#:	260302
Type:	SAMPLE	Sampled:	06/04/18
Lab ID:	300421-001	Analyzed:	06/08/18
Diln Fac:	6.240		

Analyte	Result (V)	RL	MDL	Result (M)	RL	MDL
Vinyl Chloride	ND	3.1	0.062	ND	8.0	0.16
trans-1,2-Dichloroethene	ND	3.1	0.066	ND	12	0.26
cis-1,2-Dichloroethene	ND	3.1	0.052	ND	12	0.21
Benzene	0.20 J	3.1	0.052	0.64 J	10	0.17
Trichloroethene	490	3.1	0.055	2,600	17	0.29
Toluene	0.85 J	3.1	0.066	3.2 J	12	0.25
Tetrachloroethene	5.2	3.1	0.052	35	21	0.35
Ethylbenzene	0.28 J	3.1	0.059	1.2 J	14	0.26
m,p-Xylenes	1.1 J	3.1	0.10	4.9 J	14	0.44
o-Xylene	0.66 J	3.1	0.077	2.9 J	14	0.33

Surrogate	%REC	Limits
Bromofluorobenzene	99	70-130

Field ID:	SG6-DUP	Batch#:	260302
Type:	SAMPLE	Sampled:	06/04/18
Lab ID:	300421-002	Analyzed:	06/08/18
Diln Fac:	7.020		

Analyte	Result (V)	RL	MDL	Result (M)	RL	MDL
Vinyl Chloride	ND	3.5	0.069	ND	9.0	0.18
trans-1,2-Dichloroethene	ND	3.5	0.074	ND	14	0.29
cis-1,2-Dichloroethene	ND	3.5	0.058	ND	14	0.23
Benzene	0.17 J	3.5	0.058	0.54 J	11	0.19
Trichloroethene	490	3.5	0.062	2,600	19	0.33
Toluene	0.60 J	3.5	0.075	2.3 J	13	0.28
Tetrachloroethene	5.1	3.5	0.058	35	24	0.40
Ethylbenzene	0.25 J	3.5	0.067	1.1 J	15	0.29
m,p-Xylenes	1.1 J	3.5	0.11	5.0 J	15	0.49
o-Xylene	0.67 J	3.5	0.086	2.9 J	15	0.37

Surrogate	%REC	Limits
Bromofluorobenzene	101	70-130

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit
Result M= Result in mass units
Result V= Result in volume units

Volatile Organics in Air

Lab #:	300421	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Units (M):	ug/m3
Units (V):	ppbv	Received:	06/06/18

Field ID:	SG7	Batch#:	260252
Type:	SAMPLE	Sampled:	06/04/18
Lab ID:	300421-003	Analyzed:	06/07/18
Diln Fac:	2.280		

Analyte	Result (V)	RL	MDL	Result (M)	RL	MDL
Vinyl Chloride	ND	1.1	0.036	ND	2.9	0.092
trans-1,2-Dichloroethene	ND	1.1	0.066	ND	4.5	0.26
cis-1,2-Dichloroethene	ND	1.1	0.034	ND	4.5	0.14
Benzene	0.050 J	1.1	0.050	0.16 J	3.6	0.16
Trichloroethene	0.12 J	1.1	0.033	0.64 J	6.1	0.18
Toluene	0.11 J	1.1	0.046	0.42 J	4.3	0.17
Tetrachloroethene	5.4	1.1	0.046	36	7.7	0.31
Ethylbenzene	ND	1.1	0.033	ND	5.0	0.14
m,p-Xylenes	0.11 J	1.1	0.046	0.47 J	5.0	0.20
o-Xylene	0.10 J	1.1	0.028	0.45 J	5.0	0.12

Surrogate	%REC	Limits
Bromofluorobenzene	105	70-130

Field ID:	SG8	Batch#:	260252
Type:	SAMPLE	Sampled:	06/05/18
Lab ID:	300421-004	Analyzed:	06/07/18
Diln Fac:	2.280		

Analyte	Result (V)	RL	MDL	Result (M)	RL	MDL
Vinyl Chloride	ND	1.1	0.036	ND	2.9	0.092
trans-1,2-Dichloroethene	ND	1.1	0.066	ND	4.5	0.26
cis-1,2-Dichloroethene	ND	1.1	0.034	ND	4.5	0.14
Benzene	0.082 J	1.1	0.050	0.26 J	3.6	0.16
Trichloroethene	ND	1.1	0.033	ND	6.1	0.18
Toluene	0.37 J	1.1	0.046	1.4 J	4.3	0.17
Tetrachloroethene	0.66 J	1.1	0.046	4.5 J	7.7	0.31
Ethylbenzene	0.050 J	1.1	0.033	0.22 J	5.0	0.14
m,p-Xylenes	0.23 J	1.1	0.046	0.98 J	5.0	0.20
o-Xylene	0.075 J	1.1	0.028	0.33 J	5.0	0.12

Surrogate	%REC	Limits
Bromofluorobenzene	108	70-130

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit
Result M= Result in mass units
Result V= Result in volume units

Volatile Organics in Air

Lab #:	300421	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Units (M):	ug/m3
Units (V):	ppbv	Received:	06/06/18

Field ID:	SG9	Batch#:	260252
Type:	SAMPLE	Sampled:	06/05/18
Lab ID:	300421-005	Analyzed:	06/07/18
Diln Fac:	2.140		

Analyte	Result (V)	RL	MDL	Result (M)	RL	MDL
Vinyl Chloride	ND	1.1	0.034	ND	2.7	0.087
trans-1,2-Dichloroethene	ND	1.1	0.062	ND	4.2	0.24
cis-1,2-Dichloroethene	ND	1.1	0.032	ND	4.2	0.13
Benzene	ND	1.1	0.047	ND	3.4	0.15
Trichloroethene	0.043 J	1.1	0.031	0.23 J	5.7	0.17
Toluene	0.12 J	1.1	0.043	0.45 J	4.0	0.16
Tetrachloroethene	3.9	1.1	0.043	27	7.3	0.29
Ethylbenzene	0.047 J	1.1	0.031	0.20 J	4.6	0.13
m,p-Xylenes	0.079 J	1.1	0.043	0.34 J	4.6	0.19
o-Xylene	0.034 J	1.1	0.026	0.15 J	4.6	0.11

Surrogate	%REC	Limits
Bromofluorobenzene	100	70-130

Type:	BLANK	Batch#:	260252
Lab ID:	QC934888	Analyzed:	06/07/18
Diln Fac:	1.000		

Analyte	Result (V)	RL	MDL	Result (M)	RL	MDL
Vinyl Chloride	ND	0.50	0.016	ND	1.3	0.040
trans-1,2-Dichloroethene	ND	0.50	0.029	ND	2.0	0.11
cis-1,2-Dichloroethene	ND	0.50	0.015	ND	2.0	0.060
Benzene	ND	0.50	0.022	ND	1.6	0.069
Trichloroethene	ND	0.50	0.015	ND	2.7	0.078
Toluene	ND	0.50	0.020	ND	1.9	0.075
Tetrachloroethene	ND	0.50	0.020	ND	3.4	0.14
Ethylbenzene	ND	0.50	0.014	ND	2.2	0.062
m,p-Xylenes	ND	0.50	0.020	ND	2.2	0.087
o-Xylene	ND	0.50	0.012	ND	2.2	0.053

Surrogate	%REC	Limits
Bromofluorobenzene	95	70-130

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit
Result M= Result in mass units
Result V= Result in volume units

Volatile Organics in Air

Lab #:	300421	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Units (M):	ug/m3
Units (V):	ppbv	Received:	06/06/18

Type:	BLANK	Batch#:	260302
Lab ID:	QC935109	Analyzed:	06/08/18
Diln Fac:	1.000		

Analyte	Result (V)	RL	MDL	Result (M)	RL	MDL
Vinyl Chloride	ND	0.50	0.0099	ND	1.3	0.025
trans-1,2-Dichloroethene	ND	0.50	0.011	ND	2.0	0.042
cis-1,2-Dichloroethene	ND	0.50	0.0083	ND	2.0	0.033
Benzene	0.0090 J	0.50	0.0083	0.029 J	1.6	0.027
Trichloroethene	ND	0.50	0.0088	ND	2.7	0.047
Toluene	ND	0.50	0.011	ND	1.9	0.040
Tetrachloroethene	ND	0.50	0.0083	ND	3.4	0.056
Ethylbenzene	ND	0.50	0.0095	ND	2.2	0.041
m,p-Xylenes	ND	0.50	0.016	ND	2.2	0.070
o-Xylene	ND	0.50	0.012	ND	2.2	0.053

Surrogate	%REC	Limits
Bromofluorobenzene	95	70-130

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit
Result M= Result in mass units
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	300421	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	260252
Units (V):	ppbv	Analyzed:	06/07/18
Diln Fac:	1.000		

Type:	BS	Lab ID:	QC934886

Analyte	Spiked	Result (V)	%REC	Limits
Vinyl Chloride	5.000	5.127	103	70-130
trans-1,2-Dichloroethene	5.000	5.104	102	70-130
cis-1,2-Dichloroethene	5.000	5.523	110	70-130
Benzene	5.000	3.917	78	70-130
Trichloroethene	5.000	4.566	91	70-130
Toluene	5.000	5.563	111	70-130
Tetrachloroethene	5.000	5.020	100	70-130
Ethylbenzene	5.000	5.211	104	70-130
m,p-Xylenes	10.00	9.655	97	70-130
o-Xylene	5.000	4.630	93	70-130

Surrogate	%REC	Limits
Bromofluorobenzene	101	70-130

Type:	BSD	Lab ID:	QC934887

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Vinyl Chloride	5.000	5.189	104	70-130	1	20
trans-1,2-Dichloroethene	5.000	5.192	104	70-130	2	20
cis-1,2-Dichloroethene	5.000	5.583	112	70-130	1	20
Benzene	5.000	3.791	76	70-130	3	20
Trichloroethene	5.000	4.148	83	70-130	10	20
Toluene	5.000	5.626	113	70-130	1	20
Tetrachloroethene	5.000	5.171	103	70-130	3	20
Ethylbenzene	5.000	5.135	103	70-130	1	20
m,p-Xylenes	10.00	9.570	96	70-130	1	32
o-Xylene	5.000	4.439	89	70-130	4	20

Surrogate	%REC	Limits
Bromofluorobenzene	101	70-130

RPD= Relative Percent Difference
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	300421	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	260302
Units (V):	ppbv	Analyzed:	06/08/18
Diln Fac:	1.000		

Type: BS   Lab ID: QC935107

Analyte	Spiked	Result (V)	%REC	Limits
Vinyl Chloride	5.000	5.552	111	70-130
trans-1,2-Dichloroethene	5.000	6.403	128	70-130
cis-1,2-Dichloroethene	5.000	5.438	109	70-130
Benzene	5.000	5.275	106	70-130
Trichloroethene	5.000	5.348	107	70-130
Toluene	5.000	5.527	111	70-130
Tetrachloroethene	5.000	5.713	114	70-130
Ethylbenzene	5.000	5.548	111	70-130
m,p-Xylenes	10.00	11.75	117	70-130
o-Xylene	5.000	5.816	116	70-130

Surrogate	%REC	Limits
Bromofluorobenzene	101	70-130

Type: BSD   Lab ID: QC935108

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Vinyl Chloride	5.000	5.507	110	70-130	1	20
trans-1,2-Dichloroethene	5.000	6.322	126	70-130	1	20
cis-1,2-Dichloroethene	5.000	5.412	108	70-130	0	20
Benzene	5.000	5.235	105	70-130	1	20
Trichloroethene	5.000	5.381	108	70-130	1	20
Toluene	5.000	5.534	111	70-130	0	20
Tetrachloroethene	5.000	5.559	111	70-130	3	20
Ethylbenzene	5.000	5.586	112	70-130	1	20
m,p-Xylenes	10.00	11.61	116	70-130	1	32
o-Xylene	5.000	5.765	115	70-130	1	20

Surrogate	%REC	Limits
Bromofluorobenzene	101	70-130

RPD= Relative Percent Difference
Result V= Result in volume units

Fixed Gas Analysis

Lab #:	300421	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Matrix:	Air	Batch#:	260227
Units:	ppmv	Received:	06/06/18
Units (Mol %):	MOL %	Analyzed:	06/06/18

Field ID: SG6 Diln Fac: 2.080
Type: SAMPLE Sampled: 06/04/18
Lab ID: 300421-001

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,100	ND	0.21
Carbon Dioxide	75,000	2,100	7.5	0.21
Oxygen	99,000	2,100	9.9	0.21
Methane	ND	2,100	ND	0.21

Field ID: SG6-DUP Diln Fac: 2.340
Type: SAMPLE Sampled: 06/04/18
Lab ID: 300421-002

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,300	ND	0.23
Carbon Dioxide	74,000	2,300	7.4	0.23
Oxygen	97,000	2,300	9.7	0.23
Methane	ND	2,300	ND	0.23

Field ID: SG7 Diln Fac: 2.280
Type: SAMPLE Sampled: 06/04/18
Lab ID: 300421-003

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,300	ND	0.23
Carbon Dioxide	29,000	2,300	2.9	0.23
Oxygen	140,000	2,300	14	0.23
Methane	ND	2,300	ND	0.23

ND= Not Detected
RL= Reporting Limit
Result Mol %= Result in Mole Percent

Fixed Gas Analysis

Lab #:	300421	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Matrix:	Air	Batch#:	260227
Units:	ppmv	Received:	06/06/18
Units (Mol %):	MOL %	Analyzed:	06/06/18

Field ID: SG8
Type: SAMPLE
Lab ID: 300421-004
Diln Fac: 2.280
Sampled: 06/05/18

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,300	ND	0.23
Carbon Dioxide	33,000	2,300	3.3	0.23
Oxygen	140,000	2,300	14	0.23
Methane	ND	2,300	ND	0.23

Field ID: SG9
Type: SAMPLE
Lab ID: 300421-005
Diln Fac: 2.140
Sampled: 06/05/18

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,100	ND	0.21
Carbon Dioxide	23,000	2,100	2.3	0.21
Oxygen	150,000	2,100	15	0.21
Methane	ND	2,100	ND	0.21

Type: BLANK
Lab ID: QC934788
Diln Fac: 1.000

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	1,000	ND	0.10
Carbon Dioxide	ND	1,000	ND	0.10
Oxygen	ND	1,000	ND	0.10
Methane	ND	1,000	ND	0.10

ND= Not Detected
RL= Reporting Limit
Result Mol %= Result in Mole Percent

Aromatic / Petroleum Hydrocarbons in Air

Lab #:	300421	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-3
Analyte:	Gasoline Range Organics C6-C12	Batch#:	260467
Matrix:	Air	Received:	06/06/18
Units (V):	ppbv	Analyzed:	06/13/18
Units (M):	ug/m3		

Field ID	Type	Lab ID	Result (V)	RL	MDL	Result (M)	RL	MDL	Diln Fac	Sampled
SG6	SAMPLE	300421-001	140	100	15	580	430	63	2.080	06/04/18
SG6-DUP	SAMPLE	300421-002	190	120	17	770	480	71	2.340	06/04/18
SG7	SAMPLE	300421-003	27 J	110	17	110 J	470	69	2.280	06/04/18
SG8	SAMPLE	300421-004	49 J	110	17	200 J	470	69	2.280	06/05/18
SG9	SAMPLE	300421-005	ND	110	16	ND	440	65	2.140	06/05/18
	BLANK	QC935780	16 J	50	7.4	63 J	200	30	1.000	

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit
Result M= Result in mass units
Result V= Result in volume units

Batch QC Report

Fixed Gas Analysis

Lab #:	300421	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Matrix:	Air	Batch#:	260227
Units:	ppmv	Analyzed:	06/06/18
Diln Fac:	1.000		

Type: BS Lab ID: QC934785

Analyte	Spiked	Result	%REC	Limits
Helium	100,000	73,600	74	70-130
Carbon Dioxide		NA		
Oxygen		NA		
Methane		NA		

Type: BSD Lab ID: QC934786

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Helium	100,000	73,660	74	70-130	0	20
Carbon Dioxide		NA				
Oxygen		NA				
Methane		NA				

NA= Not Analyzed
RPD= Relative Percent Difference

Batch QC Report

Fixed Gas Analysis

Lab #:	300421	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Field ID:	SG6	Units (Mol %):	MOL %
Type:	SDUP	Diln Fac:	2.080
MSS Lab ID:	300421-001	Batch#:	260227
Lab ID:	QC934787	Sampled:	06/04/18
Matrix:	Air	Received:	06/06/18
Units:	ppmv	Analyzed:	06/06/18

Analyte	MSS Result	Result	RL	Result (Mol %)	RL	RPD	Lim
Helium	<2,080	ND	2,080	ND	0.2080	NC	30
Carbon Dioxide	74,560	74,540	2,080	7.454	0.2080	0	30
Oxygen	99,460	99,410	2,080	9.941	0.2080	0	20
Methane	<2,080	ND	2,080	ND	0.2080	NC	30

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit
RPD= Relative Percent Difference
Result Mol %= Result in Mole Percent

Batch QC Report

Fixed Gas Analysis

Lab #:	300421	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC934789	Batch#:	260227
Matrix:	Air	Analyzed:	06/06/18
Units:	ppmv		

Analyte	Spiked	Result	%REC	Limits
Helium	NA			
Carbon Dioxide	2,000	1,784	89	70-130
Oxygen	2,000	1,712	86	70-130
Methane	2,000	1,792	90	70-130

NA= Not Analyzed

Batch QC Report

Aromatic / Petroleum Hydrocarbons in Air

Lab #:	300421	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-3
Analyte:	Gasoline Range Organics C6-C12	Diln Fac:	1.000
Matrix:	Air	Batch#:	260467
Units (V):	ppbv	Analyzed:	06/13/18

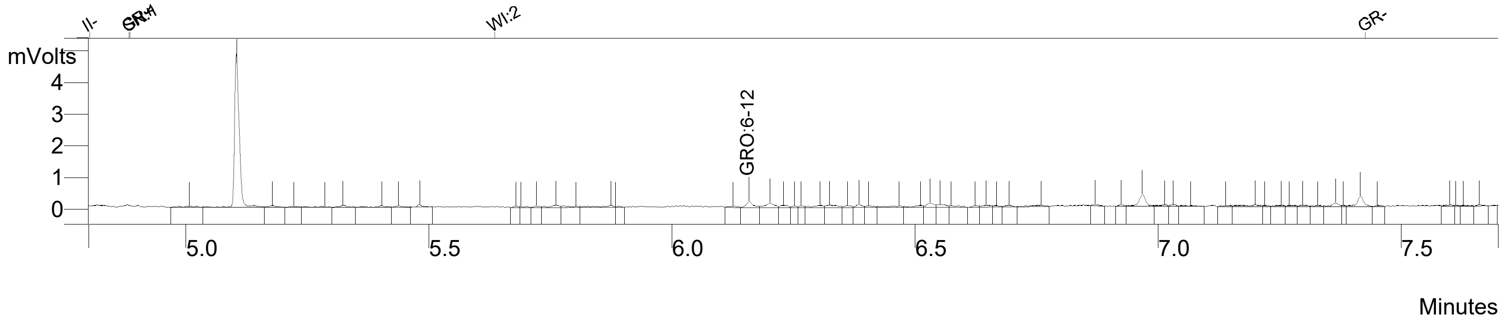
Type	Lab ID	Spiked	Result (V)	%REC	Limits	RPD	Lim
BS	QC935778	2,100	1,914	91	70-130		
BSD	QC935779	2,100	1,940	92	70-130	1	25

RPD= Relative Percent Difference
Result V= Result in volume units

GRO by TO-3

Page: 1 Of 1

Sample ID:	300421-001,260467		
Data File:	c:\varianws\data\061318ical\164_019.run		
Sample List:	c:\varianws\061318.smp		
Method:	c:\varianws\methods\to3_061318.mth		
Acquisition Date:	06/13/2018 17:46:41		
Calculation Date:	06/13/2018 17:56:35		
Instrument ID:	GC32	Operator:	TO-15
Injection Notes:	2.08x,c00126		
Multiplier:	1.000	Divisor:	1.000



Channel: **Front = FID RESULTS**

#	RT (min)	Peak Name	Area	Result (ppbv)
1	6.155	GRO:6-12	7002	68.769
		Totals	**7002**	**68.769**

Integration Parameters

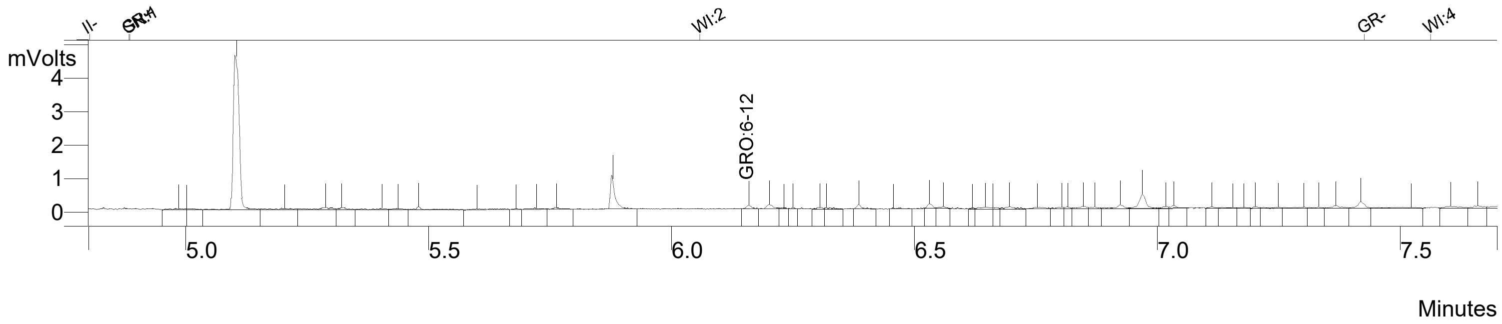
Initial Tangent %:	0
Initial Peak Width (sec):	4
Initial Peak Reject Value:	50.000
Initial S/N Ratio:	5

Data Handling Time Events

Time (min)	Event
0.012	II on
4.802	II off
4.883	GR on
4.885	SN 1
5.635	WI 2.0 sec
7.426	GR off

GRO by TO-3

Sample ID: 300421-002,260467
Data File: c:\varianws\data\061318ical\164_020.run
Sample List: c:\varianws\061318.smp
Method: c:\varianws\methods\to3_061318.mth
Acquisition Date: 06/13/2018 18:00:25
Calculation Date: 06/13/2018 18:10:18
Instrument ID: GC32
Operator: TO-15
Injection Notes: 2.34x,c00271
Multiplier: 1.000
Divisor: 1.000



Channel: **Front = FID RESULTS**

#	RT (min)	Peak Name	Area	Result (ppbv)
1	6.155	GRO:6-12	8222	80.750
		Totals	**8222**	**80.750**

Integration Parameters

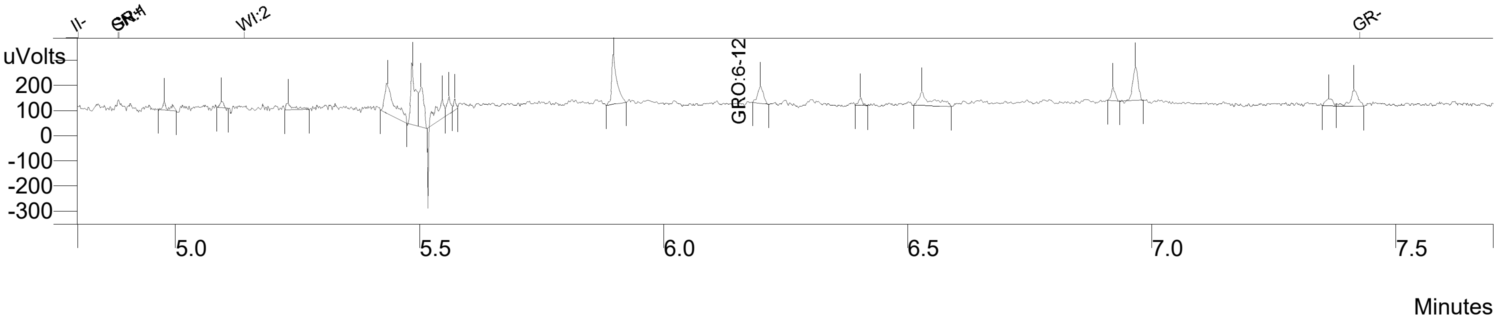
Initial Tangent %:	0
Initial Peak Width (sec):	4
Initial Peak Reject Value:	50.000
Initial S/N Ratio:	5

Data Handling Time Events

```
Time
(min)   Event
------- ---------------
 0.012  II  on
 4.802  II  off
 4.883  GR  on
 4.885  SN  1
 6.058  WI  2.0 sec
 7.426  GR  off
 7.563  WI  4.0 sec
 9.385  WI  2.0 sec
```

GRO by TO-3

Sample ID:	300421-003,260467		
Data File:	c:\varianws\data\061318ical\164_021.run		
Sample List:	c:\varianws\061318.smp		
Method:	c:\varianws\methods\to3_061318.mth		
Acquisition Date:	06/13/2018 18:14:54		
Calculation Date:	06/13/2018 18:24:49		
Instrument ID:	GC32	Operator:	TO-15
Injection Notes:	2.28x,c00341		
Multiplier:	1.000	Divisor:	1.000



Channel: **Front = FID RESULTS**

#	RT (min)	Peak Name	Area	Result (ppbv)
1	6.155	GRO:6-12	1199	11.773
		Totals	**1199**	**11.773**

Integration Parameters

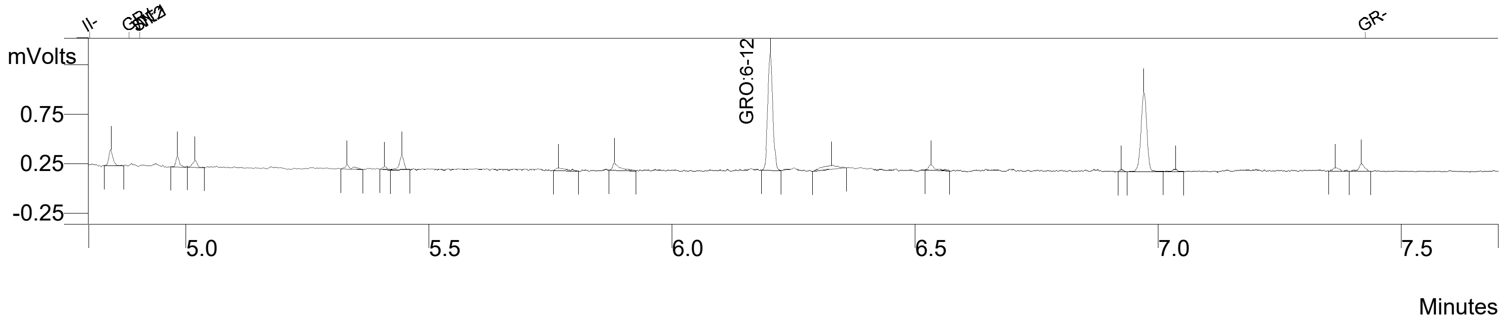
Initial Tangent %:	0
Initial Peak Width (sec):	4
Initial Peak Reject Value:	50.000
Initial S/N Ratio:	5

Data Handling Time Events

Time (min)	Event
0.012	II on
4.802	II off
4.883	GR on
4.885	SN 1
5.142	WI 2.0 sec
7.426	GR off

GRO by TO-3

Sample ID:	300421-004,260467		
Data File:	c:\varianws\data\061318ical\164_022.run		
Sample List:	c:\varianws\061318.smp		
Method:	c:\varianws\methods\to3_061318.mth		
Acquisition Date:	06/13/2018 18:27:51		
Calculation Date:	06/13/2018 18:37:44		
Instrument ID:	GC32	Operator:	TO-15
Injection Notes:	2.28x,c00442		
Multiplier:	1.000	Divisor:	1.000



Channel: **Front = FID RESULTS**

#	RT (min)	Peak Name	Area	Result (ppbv)
1	6.155	GRO:6-12	2191	21.521
		Totals	**2191**	**21.521**

Integration Parameters

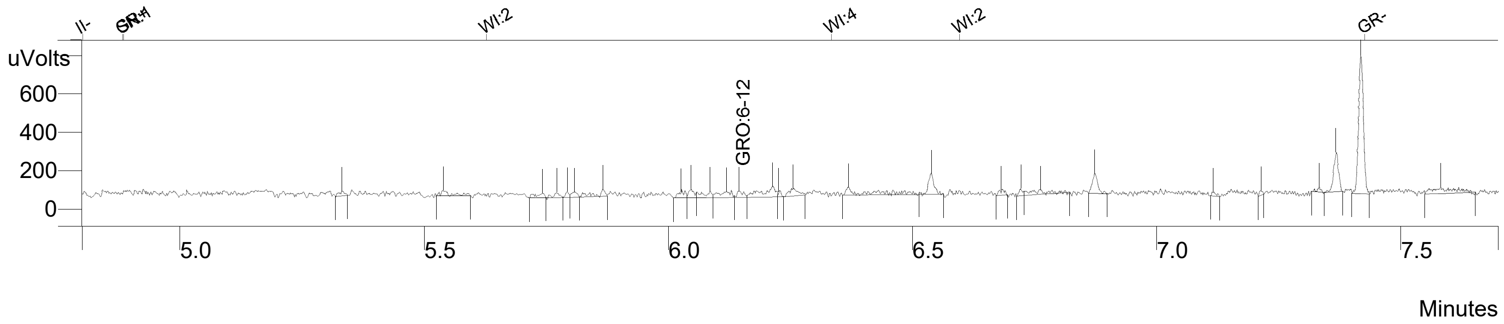
Initial Tangent %:	0
Initial Peak Width (sec):	4
Initial Peak Reject Value:	50.000
Initial S/N Ratio:	5

Data Handling Time Events

```
Time
(min)   Event
------- ---------------
 0.012  II  on
 4.802  II  off
 4.883  GR  on
 4.905  WI  2.0 sec
 4.905  SN  1
 7.426  GR  off
```

GRO by TO-3

Sample ID:	mb,qc935780,260467		
Data File:	c:\varianws\data\061318ical\164_018.run		
Sample List:	c:\varianws\061318.smp		
Method:	c:\varianws\methods\to3_061318.mth		
Acquisition Date:	06/13/2018 17:32:57		
Calculation Date:	06/13/2018 17:42:51		
Instrument ID:	GC32	Operator:	TO-15
Injection Notes:	c00355,1x		
Multiplier:	1.000	Divisor:	1.000



Channel: **Front = FID RESULTS**

#	RT (min)	Peak Name	Area	Result (ppbv)
1	6.155	GRO:6-12	1580	15.513
		Totals	**1580**	**15.513**

Integration Parameters

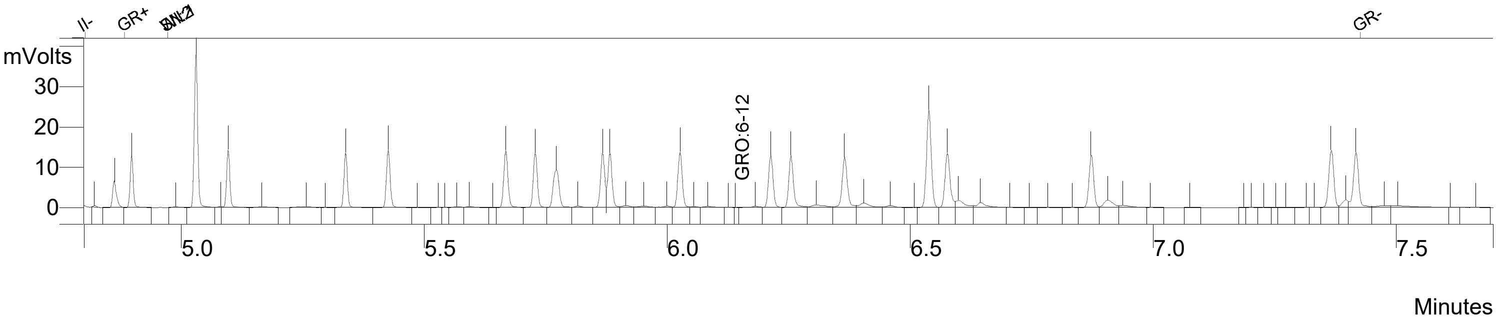
Initial Tangent %:	0
Initial Peak Width (sec):	4
Initial Peak Reject Value:	50.000
Initial S/N Ratio:	5

Data Handling Time Events

Time (min)	Event
0.012	II on
4.802	II off
4.883	GR on
4.885	SN 1
5.628	WI 2.0 sec
6.334	WI 4.0 sec
6.597	WI 2.0 sec
7.426	GR off
8.117	WI 4.0 sec
9.863	WI 2.0 sec

GRO by TO-3

Sample ID:	ccv/bs,qc935778		
Data File:	c:\varianws\data\061318ical\164_016.run		
Sample List:	c:\varianws\061318.smp		
Method:	c:\varianws\methods\to3_061318.mth		
Acquisition Date:	06/13/2018 17:06:07		
Calculation Date:	06/13/2018 17:17:12		
Instrument ID:	GC32	Operator:	TO-15
Injection Notes:	260467,s37307,1x		
Multiplier:	1.000	Divisor:	1.000



Channel: **Front = FID RESULTS**

#	RT (min)	Peak Name	Area	Result (ppbv)
1	6.155	GRO:6-12	194924	1914.335
		Totals	**194924**	**1914.335**

Integration Parameters

Initial Tangent %:	0
Initial Peak Width (sec):	4
Initial Peak Reject Value:	50.000
Initial S/N Ratio:	5

Data Handling Time Events

Time (min)	Event
-------	---------------
0.012	II on
4.802	II off
4.883	GR on
4.972	WI 2.0 sec
4.972	SN 1
7.426	GR off

ENTHALPY

ANALYTICAL

Enthalpy Analytical
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 302994
ANALYTICAL REPORT

P&D Environmental
55 Santa Clara Avenue
Oakland, CA 94610

Project : 0772
Location : 801 Pine Streets Oakland, Ca.
Level : II

Sample ID	Lab ID
SG4	302994-001
SG5	302994-002
SG5-DUP	302994-003

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: ____________________ Date: 09/13/2018

Mike Dahlquist
Project Manager
mike.dahlquist@enthalpy.com
(510) 204-2225 Ext 13101

CA ELAP# 2896, NELAP# 4044-001

CASE NARRATIVE

Laboratory number:	**302994**
Client:	**P&D Environmental**
Project:	**0772**
Location:	**801 Pine Streets Oakland, Ca.**
Request Date:	**09/06/18**
Samples Received:	**09/06/18**

This data package contains sample and QC results for three air samples, requested for the above referenced project on 09/06/18. The samples were received cold and intact.

Volatile Organics in Air by MS (EPA TO-15):
High ICAL percent RSD (relative standard deviation) was observed for n-heptane in the calibration analyzed 08/28/18 16:53; affected data was qualified with "b". High responses were observed for acrolein and styrene in the ICV analyzed 08/29/18 12:27; affected data was qualified with "b". Low responses were observed for acrolein and styrene in the ICV analyzed 08/27/18 14:45; affected data was qualified with "b". High response was observed for 2-hexanone; affected data was qualified with "b". High responses were observed for many analytes in the CCV analyzed 09/12/18 21:58; affected data was qualified with "b". Low responses were observed for a number of analytes in the CCV analyzed 09/11/18 12:47; affected data was qualified with "b". Low recoveries were observed for a number of analytes in the BS/BSD for batch 263342; the associated RPDs were within limits, and these low recoveries were not associated with any reported results. High recoveries were also observed for a number of analytes in the BSD for batch 263342; the associated RPDs were within limits, and these analytes were not detected at or above the RL in the associated samples. High recoveries were observed for many analytes in the BS/BSD for batch 263397; the associated RPDs were within limits. High RPD was observed for acrolein; this analyte was not detected at or above the RL in the associated samples. No other analytical problems were encountered.

Volatile Organics in Air GC (ASTM D1946-90):
No analytical problems were encountered.

CHAIN OF CUSTODY RECORD

302994

PAGE 1 OF 1

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME:
The Phoenix
801 Pine Street
Oakland, CA

SAMPLED BY: (PRINTED & SIGNATURE) Lindsey Deschenes

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION Initial Vacuum	Final Vacuum	Summa#	PID (PPM)	NUMBER OF CONTAINERS	ANALYSIS(ES): VOCs incl. BTEX, PCE, TCE, cis-1,2DCE,	trans-1,2 DCE, & vinyl chloride		Carbon dioxide, oxygen, & helium	by ASTM D-1946				PRESERVATIVE	REMARKS
SG4	9/6/18	15:10:12	Soil Gas	-30		113		1	X			X					None	3 day Rush TAT
		15:19:01	" "		-5		49.7											
SG5	9/6/18	16:41:52	" "	-30		306		1	X			X					"	" " " "
		17:09:00			-5		1.6											
SG5-DUP	9/6/18	16:41:52	" "	-30		412		1	X			X					"	" " " "
		17:09:00			-5		1.6											

RELINQUISHED BY: (SIGNATURE) DATE 09/06/18 TIME 1800 RECEIVED BY: (SIGNATURE)

Total No. of Samples (This Shipment): 3

Total No. of Containers (This Shipment): 3

LABORATORY: Enthalpy Analytical

RELINQUISHED BY: (SIGNATURE) DATE TIME RECEIVED BY: (SIGNATURE)

LABORATORY CONTACT: John Goyette

LABORATORY PHONE NUMBER: (510) 486-0900

RELINQUISHED BY: (SIGNATURE) DATE TIME RECEIVED FOR LABORATORY BY: (SIGNATURE)

SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES [✓ NO]

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS:

SAMPLE RECEIPT CHECKLIST

ENTHALPY

Section 1: Login # 302994 Client: PDE

Date Received: 09/06/18 Project: 0772

Section 2: Samples received in a cooler? o Yes, how many? ______ [✓ No] (skip Section 3 below)

If no cooler Sample Temp (°C): ______ using IR Gun # o A, or o B

o Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened ______ By (print) ______ (sign) ______

Shipping info (if applicable) ______

Are custody seals present? o No, or o Yes. If yes, where? o on cooler, o on samples, o on package

o Date: ______ How many ______ o Signature, o Initials, o None

Were custody seals intact upon arrival? o Yes o No o N/A

Section 3: Important : Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) Box

o Bubble Wrap, o Foam blocks, o Bags, o None, o Cloth material, [✓ Cardboard], o Styrofoam, o Paper towels

o Samples received on ice directly from the field. Cooling process had begun

Type of ice used : o Wet, o Blue/Gel, o None Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using o Thermometer ID: ______, or IR Gun # o A o B

Cooler Temp (°C): #1: ______, #2: ______, #3: ______, #4: ______, #5: ______, #6: ______, #7: ______

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	X		▨
Were Method 5035 sampling containers present?		X	▨
If YES, what time were they transferred to freezer? ______	▨	▨	▨
Did all bottles arrive unbroken/unopened?	X		▨
Are there any missing / extra samples?	X		▨
Are samples in the appropriate containers for indicated tests?	X		▨
Are sample labels present, in good condition and complete?	X		▨
Does the container count match the COC?	X		
Do the sample labels agree with custody papers?	X		▨
Was sufficient amount of sample sent for tests requested?	X		▨
Did you change the hold time in LIMS for unpreserved VOAs?			X
Did you change the hold time in LIMS for preserved terracores?			X
Are bubbles > 6mm absent in VOA samples?			X
Was the client contacted concerning this sample delivery?		X	▨
If YES, who was called? ______ By ______ Date: ______	▨	▨	▨

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			▨
Did you document your preservative check?			▨

pH strip lot# ______, pH strip lot# ______, pH strip lot# ______

Preservative added:

o H2SO4 lot# ______ added to samples ______ on/at ______

o HCL lot# ______ added to samples ______ on/at ______

o HNO3 lot# ______ added to samples ______ on/at ______

o NaOH lot# ______ added to samples ______ on/at ______

Section 6:

Explanations/Comments: ______

Date Logged in 09/06/18 By (print) BNL (sign)

Date Labeled ↓ By (print) ↓ (sign)

Detections Summary for 302994

Results for any subcontracted analyses are not included in this summary.

Client : P&D Environmental
Project : 0772
Location : 801 Pine Streets Oakland, Ca.

Client Sample ID : SG4 Laboratory Sample ID : 302994-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
2-Butanone	5.7	b	1.1	ppbv	As Recd	2.100	EPA TO-15	METHOD
Trichloroethene	1.4		1.1	ppbv	As Recd	2.100	EPA TO-15	METHOD
Tetrachloroethene	590		6.3	ppbv	As Recd	12.60	EPA TO-15	METHOD
Carbon Dioxide	35,000		2,100	ppmv	As Recd	2.100	ASTM D1946-90	METHOD
Oxygen	150,000		2,100	ppmv	As Recd	2.100	ASTM D1946-90	METHOD

Client Sample ID : SG5 Laboratory Sample ID : 302994-002

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Trichloroethene	17		0.99	ppbv	As Recd	1.970	EPA TO-15	METHOD
Tetrachloroethene	1.1		0.99	ppbv	As Recd	1.970	EPA TO-15	METHOD
Carbon Dioxide	12,000		2,000	ppmv	As Recd	1.970	ASTM D1946-90	METHOD
Oxygen	170,000		2,000	ppmv	As Recd	1.970	ASTM D1946-90	METHOD

Client Sample ID : SG5-DUP Laboratory Sample ID : 302994-003

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Trichloroethene	17		0.97	ppbv	As Recd	1.940	EPA TO-15	METHOD
Tetrachloroethene	1.0		0.97	ppbv	As Recd	1.940	EPA TO-15	METHOD
Carbon Dioxide	12,000		1,900	ppmv	As Recd	1.940	ASTM D1946-90	METHOD
Oxygen	170,000		1,900	ppmv	As Recd	1.940	ASTM D1946-90	METHOD

b = See narrative

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Field ID:	SG4	Batch#:	263397
Lab ID:	302994-001	Sampled:	09/06/18
Matrix:	Air	Received:	09/06/18
Units (V):	ppbv	Analyzed:	09/13/18
Units (M):	ug/m3		

Analyte	Result (V)	RL	Result (M)	RL	Diln Fac
Freon 12	ND	1.1	ND	5.2	2.100
Freon 114	ND	1.1	ND	7.3	2.100
Chloromethane	ND	1.1	ND	2.2	2.100
Vinyl Chloride	ND	1.1	ND	2.7	2.100
Bromomethane	ND	1.1	ND	4.1	2.100
Chloroethane	ND	1.1	ND	2.8	2.100
Trichlorofluoromethane	ND	1.1	ND	5.9	2.100
Acrolein	ND	4.2	ND	9.6	2.100
1,1-Dichloroethene	ND	1.1	ND	4.2	2.100
Freon 113	ND	1.1	ND	8.0	2.100
Acetone	ND	11	ND	25	2.100
Carbon Disulfide	ND	1.1	ND	3.3	2.100
Isopropanol	ND	11	ND	26	2.100
Methylene Chloride	ND	1.1	ND	3.6	2.100
trans-1,2-Dichloroethene	ND	1.1	ND	4.2	2.100
MTBE	ND	1.1	ND	3.8	2.100
n-Hexane	ND	1.1	ND	3.7	2.100
1,1-Dichloroethane	ND	1.1	ND	4.2	2.100
Vinyl Acetate	ND	1.1	ND	3.7	2.100
cis-1,2-Dichloroethene	ND	1.1	ND	4.2	2.100
2-Butanone	5.7 b	1.1	17	3.1	2.100
Ethyl Acetate	ND	1.1	ND	3.8	2.100
Tetrahydrofuran	ND	1.1	ND	3.1	2.100
Chloroform	ND	1.1	ND	5.1	2.100
1,1,1-Trichloroethane	ND	1.1	ND	5.7	2.100
Cyclohexane	ND	1.1	ND	3.6	2.100
Carbon Tetrachloride	ND	1.1	ND	6.6	2.100
Benzene	ND	1.1	ND	3.4	2.100
1,2-Dichloroethane	ND	1.1	ND	4.2	2.100
n-Heptane	ND	1.1	ND	4.3	2.100
Trichloroethene	1.4	1.1	7.6	5.6	2.100
1,2-Dichloropropane	ND	1.1	ND	4.9	2.100
Bromodichloromethane	ND	1.1	ND	7.0	2.100
cis-1,3-Dichloropropene	ND	1.1	ND	4.8	2.100

b= See narrative
ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Field ID:	SG4	Batch#:	263397
Lab ID:	302994-001	Sampled:	09/06/18
Matrix:	Air	Received:	09/06/18
Units (V):	ppbv	Analyzed:	09/13/18
Units (M):	ug/m3		

Analyte	Result (V)	RL	Result (M)	RL	Diln Fac
4-Methyl-2-Pentanone	ND	1.1	ND	4.3	2.100
Toluene	ND	1.1	ND	4.0	2.100
trans-1,3-Dichloropropene	ND	1.1	ND	4.8	2.100
1,1,2-Trichloroethane	ND	1.1	ND	5.7	2.100
Tetrachloroethene	590	6.3	4,000	43	12.60
2-Hexanone	ND	1.1	ND	4.3	2.100
Dibromochloromethane	ND	1.1	ND	8.9	2.100
1,2-Dibromoethane	ND	1.1	ND	8.1	2.100
Chlorobenzene	ND	1.1	ND	4.8	2.100
Ethylbenzene	ND	1.1	ND	4.6	2.100
m,p-Xylenes	ND	1.1	ND	4.6	2.100
o-Xylene	ND	1.1	ND	4.6	2.100
Styrene	ND	1.1	ND	4.5	2.100
Bromoform	ND	1.1	ND	11	2.100
1,1,2,2-Tetrachloroethane	ND	1.1	ND	7.2	2.100
4-Ethyltoluene	ND	1.1	ND	5.2	2.100
1,3,5-Trimethylbenzene	ND	1.1	ND	5.2	2.100
1,2,4-Trimethylbenzene	ND	1.1	ND	5.2	2.100
1,3-Dichlorobenzene	ND	1.1	ND	6.3	2.100
1,4-Dichlorobenzene	ND	1.1	ND	6.3	2.100
Benzyl chloride	ND	1.1	ND	5.4	2.100
1,2-Dichlorobenzene	ND	1.1	ND	6.3	2.100
1,2,4-Trichlorobenzene	ND	1.1	ND	7.8	2.100
Hexachlorobutadiene	ND	1.1	ND	11	2.100
Naphthalene	ND	4.2	ND	22	2.100

Surrogate	%REC	Limits	Diln Fac
Bromofluorobenzene	113	70-130	2.100

b= See narrative
ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Field ID:	SG5	Units (M):	ug/m3
Lab ID:	302994-002	Diln Fac:	1.970
Matrix:	Air	Sampled:	09/06/18
Units (V):	ppbv	Received:	09/06/18

Analyte	Result (V)	RL	Result (M)	RL	Batch#	Analyzed
Freon 12	ND	0.99	ND	4.9	263342	09/11/18
Freon 114	ND	0.99	ND	6.9	263342	09/11/18
Chloromethane	ND	0.99	ND	2.0	263342	09/11/18
Vinyl Chloride	ND	0.99	ND	2.5	263342	09/11/18
Bromomethane	ND	0.99	ND	3.8	263397	09/13/18
Chloroethane	ND	0.99	ND	2.6	263342	09/11/18
Trichlorofluoromethane	ND	0.99	ND	5.5	263342	09/11/18
Acrolein	ND	3.9	ND	9.0	263397	09/13/18
1,1-Dichloroethene	ND	0.99	ND	3.9	263342	09/11/18
Freon 113	ND	0.99	ND	7.5	263342	09/11/18
Acetone	ND	9.9	ND	23	263342	09/11/18
Carbon Disulfide	ND	0.99	ND	3.1	263342	09/11/18
Isopropanol	ND	9.9	ND	24	263342	09/11/18
Methylene Chloride	ND	0.99	ND	3.4	263342	09/11/18
trans-1,2-Dichloroethene	ND	0.99	ND	3.9	263342	09/11/18
MTBE	ND	0.99	ND	3.6	263342	09/11/18
n-Hexane	ND	0.99	ND	3.5	263397	09/13/18
1,1-Dichloroethane	ND	0.99	ND	4.0	263342	09/11/18
Vinyl Acetate	ND	0.99	ND	3.5	263342	09/11/18
cis-1,2-Dichloroethene	ND	0.99	ND	3.9	263342	09/11/18
2-Butanone	ND	3.3	ND	9.7	263342	09/11/18
Ethyl Acetate	ND	3.3	ND	12	263342	09/11/18
Tetrahydrofuran	ND	0.99	ND	2.9	263342	09/11/18
Chloroform	ND	0.99	ND	4.8	263342	09/11/18
1,1,1-Trichloroethane	ND	0.99	ND	5.4	263342	09/11/18
Cyclohexane	ND	0.99	ND	3.4	263342	09/11/18
Carbon Tetrachloride	ND	0.99	ND	6.2	263342	09/11/18
Benzene	ND	0.99	ND	3.1	263342	09/11/18
1,2-Dichloroethane	ND	0.99	ND	4.0	263342	09/11/18
n-Heptane	ND	0.99	ND	4.0	263342	09/11/18
Trichloroethene	17	0.99	90	5.3	263342	09/11/18
1,2-Dichloropropane	ND	0.99	ND	4.6	263342	09/11/18
Bromodichloromethane	ND	0.99	ND	6.6	263342	09/11/18
cis-1,3-Dichloropropene	ND	0.99	ND	4.5	263342	09/11/18
4-Methyl-2-Pentanone	ND	0.99	ND	4.0	263342	09/11/18
Toluene	ND	0.99	ND	3.7	263342	09/11/18

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Field ID:	SG5	Units (M):	ug/m3
Lab ID:	302994-002	Diln Fac:	1.970
Matrix:	Air	Sampled:	09/06/18
Units (V):	ppbv	Received:	09/06/18

Analyte	Result (V)	RL	Result (M)	RL	Batch#	Analyzed
trans-1,3-Dichloropropene	ND	0.99	ND	4.5	263342	09/11/18
1,1,2-Trichloroethane	ND	0.99	ND	5.4	263342	09/11/18
Tetrachloroethene	1.1	0.99	7.2	6.7	263342	09/11/18
2-Hexanone	ND	0.99	ND	4.0	263342	09/11/18
Dibromochloromethane	ND	0.99	ND	8.4	263342	09/11/18
1,2-Dibromoethane	ND	0.99	ND	7.6	263342	09/11/18
Chlorobenzene	ND	0.99	ND	4.5	263342	09/11/18
Ethylbenzene	ND	0.99	ND	4.3	263342	09/11/18
m,p-Xylenes	ND	0.99	ND	4.3	263342	09/11/18
o-Xylene	ND	0.99	ND	4.3	263342	09/11/18
Styrene	ND	0.99	ND	4.2	263397	09/13/18
Bromoform	ND	0.99	ND	10	263397	09/13/18
1,1,2,2-Tetrachloroethane	ND	0.99	ND	6.8	263342	09/11/18
4-Ethyltoluene	ND	0.99	ND	4.8	263342	09/11/18
1,3,5-Trimethylbenzene	ND	0.99	ND	4.8	263342	09/11/18
1,2,4-Trimethylbenzene	ND	0.99	ND	4.8	263342	09/11/18
1,3-Dichlorobenzene	ND	0.99	ND	5.9	263342	09/11/18
1,4-Dichlorobenzene	ND	0.99	ND	5.9	263342	09/11/18
Benzyl chloride	ND	0.99	ND	5.1	263342	09/11/18
1,2-Dichlorobenzene	ND	0.99	ND	5.9	263342	09/11/18
1,2,4-Trichlorobenzene	ND	0.99	ND	7.3	263342	09/11/18
Hexachlorobutadiene	ND	0.99	ND	11	263342	09/11/18
Naphthalene	ND	3.9	ND	21	263342	09/11/18

Surrogate	%REC	Limits	Batch#	Analyzed
Bromofluorobenzene	106	70-130	263342	09/11/18

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Field ID:	SG5-DUP	Units (M):	ug/m3
Lab ID:	302994-003	Diln Fac:	1.940
Matrix:	Air	Sampled:	09/06/18
Units (V):	ppbv	Received:	09/06/18

Analyte	Result (V)	RL	Result (M)	RL	Batch#	Analyzed
Freon 12	ND	0.97	ND	4.8	263342	09/11/18
Freon 114	ND	0.97	ND	6.8	263342	09/11/18
Chloromethane	ND	0.97	ND	2.0	263342	09/11/18
Vinyl Chloride	ND	0.97	ND	2.5	263342	09/11/18
Bromomethane	ND	0.97	ND	3.8	263397	09/13/18
Chloroethane	ND	0.97	ND	2.6	263342	09/11/18
Trichlorofluoromethane	ND	0.97	ND	5.4	263342	09/11/18
Acrolein	ND	3.9	ND	8.9	263397	09/13/18
1,1-Dichloroethene	ND	0.97	ND	3.8	263342	09/11/18
Freon 113	ND	0.97	ND	7.4	263342	09/11/18
Acetone	ND	9.7	ND	23	263342	09/11/18
Carbon Disulfide	ND	0.97	ND	3.0	263342	09/11/18
Isopropanol	ND	9.7	ND	24	263342	09/11/18
Methylene Chloride	ND	0.97	ND	3.4	263342	09/11/18
trans-1,2-Dichloroethene	ND	0.97	ND	3.8	263342	09/11/18
MTBE	ND	0.97	ND	3.5	263342	09/11/18
n-Hexane	ND	0.97	ND	3.4	263397	09/13/18
1,1-Dichloroethane	ND	0.97	ND	3.9	263342	09/11/18
Vinyl Acetate	ND	0.97	ND	3.4	263342	09/11/18
cis-1,2-Dichloroethene	ND	0.97	ND	3.8	263342	09/11/18
2-Butanone	ND	3.2	ND	9.5	263342	09/11/18
Ethyl Acetate	ND	3.2	ND	12	263342	09/11/18
Tetrahydrofuran	ND	0.97	ND	2.9	263342	09/11/18
Chloroform	ND	0.97	ND	4.7	263342	09/11/18
1,1,1-Trichloroethane	ND	0.97	ND	5.3	263342	09/11/18
Cyclohexane	ND	0.97	ND	3.3	263342	09/11/18
Carbon Tetrachloride	ND	0.97	ND	6.1	263342	09/11/18
Benzene	ND	0.97	ND	3.1	263342	09/11/18
1,2-Dichloroethane	ND	0.97	ND	3.9	263342	09/11/18
n-Heptane	ND	0.97	ND	4.0	263342	09/11/18
Trichloroethene	17	0.97	90	5.2	263342	09/11/18
1,2-Dichloropropane	ND	0.97	ND	4.5	263342	09/11/18
Bromodichloromethane	ND	0.97	ND	6.5	263342	09/11/18
cis-1,3-Dichloropropene	ND	0.97	ND	4.4	263342	09/11/18
4-Methyl-2-Pentanone	ND	0.97	ND	4.0	263342	09/11/18
Toluene	ND	0.97	ND	3.7	263342	09/11/18

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Field ID:	SG5-DUP	Units (M):	ug/m3
Lab ID:	302994-003	Diln Fac:	1.940
Matrix:	Air	Sampled:	09/06/18
Units (V):	ppbv	Received:	09/06/18

Analyte	Result (V)	RL	Result (M)	RL	Batch#	Analyzed
trans-1,3-Dichloropropene	ND	0.97	ND	4.4	263342	09/11/18
1,1,2-Trichloroethane	ND	0.97	ND	5.3	263342	09/11/18
Tetrachloroethene	1.0	0.97	7.1	6.6	263342	09/11/18
2-Hexanone	ND	0.97	ND	4.0	263342	09/11/18
Dibromochloromethane	ND	0.97	ND	8.3	263342	09/11/18
1,2-Dibromoethane	ND	0.97	ND	7.5	263342	09/11/18
Chlorobenzene	ND	0.97	ND	4.5	263342	09/11/18
Ethylbenzene	ND	0.97	ND	4.2	263342	09/11/18
m,p-Xylenes	ND	0.97	ND	4.2	263342	09/11/18
o-Xylene	ND	0.97	ND	4.2	263342	09/11/18
Styrene	ND	0.97	ND	4.1	263397	09/13/18
Bromoform	ND	0.97	ND	10	263397	09/13/18
1,1,2,2-Tetrachloroethane	ND	0.97	ND	6.7	263342	09/11/18
4-Ethyltoluene	ND	0.97	ND	4.8	263342	09/11/18
1,3,5-Trimethylbenzene	ND	0.97	ND	4.8	263342	09/11/18
1,2,4-Trimethylbenzene	ND	0.97	ND	4.8	263342	09/11/18
1,3-Dichlorobenzene	ND	0.97	ND	5.8	263342	09/11/18
1,4-Dichlorobenzene	ND	0.97	ND	5.8	263342	09/11/18
Benzyl chloride	ND	0.97	ND	5.0	263342	09/11/18
1,2-Dichlorobenzene	ND	0.97	ND	5.8	263342	09/11/18
1,2,4-Trichlorobenzene	ND	0.97	ND	7.2	263342	09/11/18
Hexachlorobutadiene	ND	0.97	ND	10	263342	09/11/18
Naphthalene	ND	3.9	ND	20	263342	09/11/18

Surrogate	%REC	Limits	Batch#	Analyzed
Bromofluorobenzene	104	70-130	263342	09/11/18

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #: 302994
Location: 801 Pine Streets Oakland, Ca.
Client: P&D Environmental
Prep: METHOD
Project#: 0772
Analysis: EPA TO-15
Matrix: Air
Batch#: 263342
Units (V): ppbv
Analyzed: 09/11/18
Diln Fac: 1.000

Type: BS
Lab ID: QC947042

Analyte	Spiked	Result (V)	%REC	Limits
Freon 12	5.000	5.204	104	70-130
Freon 114	5.000	5.367	107	70-130
Chloromethane	5.000	4.110	82	70-130
Vinyl Chloride	5.000	4.553	91	70-130
Bromomethane	5.000	3.340 b	67 *	70-130
Chloroethane	5.000	4.336	87	70-130
Trichlorofluoromethane	5.000	5.115	102	70-130
Acrolein	5.000	2.877 b	58 *	70-130
1,1-Dichloroethene	5.000	4.680	94	70-130
Freon 113	5.000	4.991	100	70-130
Acetone	5.000	3.645	73	70-130
Carbon Disulfide	5.000	4.475	90	70-130
Isopropanol	5.000	3.712	74	70-130
Methylene Chloride	5.000	4.398	88	70-130
trans-1,2-Dichloroethene	5.000	5.152	103	70-130
MTBE	5.000	4.806	96	70-130
n-Hexane	5.000	3.424 b	68 *	70-130
1,1-Dichloroethane	5.000	5.026	101	70-130
Vinyl Acetate	5.000	4.064	81	70-130
cis-1,2-Dichloroethene	5.000	5.061	101	70-130
2-Butanone	5.000	3.848	77	70-130
Ethyl Acetate	5.000	3.871	77	70-130
Tetrahydrofuran	5.000	6.501	130	70-130
Chloroform	5.000	4.914	98	70-130
1,1,1-Trichloroethane	5.000	6.337	127	70-130
Cyclohexane	5.000	6.088	122	70-130
Carbon Tetrachloride	5.000	4.858	97	70-130
Benzene	5.000	5.755	115	70-130
1,2-Dichloroethane	5.000	5.667	113	70-130
n-Heptane	5.000	6.519	130	70-130
Trichloroethene	5.000	6.165	123	70-130
1,2-Dichloropropane	5.000	6.323	126	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	263342
Units (V):	ppbv	Analyzed:	09/11/18
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits
Bromodichloromethane	5.000	5.893	118	70-130
cis-1,3-Dichloropropene	5.000	6.294	126	70-130
4-Methyl-2-Pentanone	5.000	5.827	117	70-130
Toluene	5.000	4.789	96	70-130
trans-1,3-Dichloropropene	5.000	5.767	115	70-130
1,1,2-Trichloroethane	5.000	4.682	94	70-130
Tetrachloroethene	5.000	3.973	79	70-130
2-Hexanone	5.000	4.797 b	96	70-130
Dibromochloromethane	5.000	4.800	96	70-130
1,2-Dibromoethane	5.000	4.511	90	70-130
Chlorobenzene	5.000	5.049	101	70-130
Ethylbenzene	5.000	5.358	107	70-130
m,p-Xylenes	10.00	11.43	114	70-130
o-Xylene	5.000	5.582	112	70-130
Styrene	5.000	4.477 b	90	70-130
Bromoform	5.000	3.042 b	61 *	70-130
1,1,2,2-Tetrachloroethane	5.000	4.296	86	70-130
4-Ethyltoluene	5.000	5.445	109	70-130
1,3,5-Trimethylbenzene	5.000	5.520	110	70-130
1,2,4-Trimethylbenzene	5.000	5.469	109	70-130
1,3-Dichlorobenzene	5.000	4.986	100	70-130
1,4-Dichlorobenzene	5.000	5.052	101	70-130
Benzyl chloride	5.000	4.970	99	70-130
1,2-Dichlorobenzene	5.000	4.894	98	70-130
1,2,4-Trichlorobenzene	5.000	4.571	91	70-130
Hexachlorobutadiene	5.000	4.961	99	70-130
Naphthalene	5.000	4.499	90	70-130

Surrogate	%REC	Limits
Bromofluorobenzene	99	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	263342
Units (V):	ppbv	Analyzed:	09/11/18
Diln Fac:	1.000		

Type: BSD   Lab ID: QC947043

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Freon 12	5.000	5.143	103	70-130	1	25
Freon 114	5.000	5.188	104	70-130	3	25
Chloromethane	5.000	4.063	81	70-130	1	25
Vinyl Chloride	5.000	4.543	91	70-130	0	25
Bromomethane	5.000	3.365 b	67 *	70-130	1	25
Chloroethane	5.000	4.390	88	70-130	1	25
Trichlorofluoromethane	5.000	5.021	100	70-130	2	25
Acrolein	5.000	3.136 b	63 *	70-130	9	25
1,1-Dichloroethene	5.000	4.505	90	70-130	4	25
Freon 113	5.000	4.873	97	70-130	2	25
Acetone	5.000	3.703	74	70-130	2	25
Carbon Disulfide	5.000	4.429	89	70-130	1	25
Isopropanol	5.000	4.077	82	70-130	9	25
Methylene Chloride	5.000	4.321	86	70-130	2	25
trans-1,2-Dichloroethene	5.000	5.049	101	70-130	2	25
MTBE	5.000	4.913	98	70-130	2	25
n-Hexane	5.000	3.353 b	67 *	70-130	2	25
1,1-Dichloroethane	5.000	4.930	99	70-130	2	25
Vinyl Acetate	5.000	4.139	83	70-130	2	25
cis-1,2-Dichloroethene	5.000	4.932	99	70-130	3	25
2-Butanone	5.000	3.863	77	70-130	0	25
Ethyl Acetate	5.000	3.845	77	70-130	1	25
Tetrahydrofuran	5.000	6.726	135 *	70-130	3	25
Chloroform	5.000	4.822	96	70-130	2	25
1,1,1-Trichloroethane	5.000	6.427	129	70-130	1	25
Cyclohexane	5.000	6.263	125	70-130	3	25
Carbon Tetrachloride	5.000	5.005	100	70-130	3	25
Benzene	5.000	5.674	113	70-130	1	25
1,2-Dichloroethane	5.000	6.000	120	70-130	6	25
n-Heptane	5.000	6.680	134 *	70-130	2	25
Trichloroethene	5.000	6.284	126	70-130	2	25
1,2-Dichloropropane	5.000	6.583	132 *	70-130	4	25

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	263342
Units (V):	ppbv	Analyzed:	09/11/18
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Bromodichloromethane	5.000	6.093	122	70-130	3	25
cis-1,3-Dichloropropene	5.000	6.540	131 *	70-130	4	25
4-Methyl-2-Pentanone	5.000	6.097	122	70-130	5	25
Toluene	5.000	4.726	95	70-130	1	25
trans-1,3-Dichloropropene	5.000	6.235	125	70-130	8	25
1,1,2-Trichloroethane	5.000	4.644	93	70-130	1	25
Tetrachloroethene	5.000	3.805	76	70-130	4	25
2-Hexanone	5.000	4.940 b	99	70-130	3	25
Dibromochloromethane	5.000	4.916	98	70-130	2	25
1,2-Dibromoethane	5.000	4.569	91	70-130	1	25
Chlorobenzene	5.000	4.906	98	70-130	3	25
Ethylbenzene	5.000	5.502	110	70-130	3	25
m,p-Xylenes	10.00	11.26	113	70-130	1	25
o-Xylene	5.000	5.635	113	70-130	1	25
Styrene	5.000	4.509 b	90	70-130	1	25
Bromoform	5.000	3.063 b	61 *	70-130	1	25
1,1,2,2-Tetrachloroethane	5.000	4.333	87	70-130	1	25
4-Ethyltoluene	5.000	5.334	107	70-130	2	25
1,3,5-Trimethylbenzene	5.000	5.348	107	70-130	3	25
1,2,4-Trimethylbenzene	5.000	5.349	107	70-130	2	25
1,3-Dichlorobenzene	5.000	5.000	100	70-130	0	25
1,4-Dichlorobenzene	5.000	5.034	101	70-130	0	25
Benzyl chloride	5.000	4.953	99	70-130	0	25
1,2-Dichlorobenzene	5.000	5.002	100	70-130	2	25
1,2,4-Trichlorobenzene	5.000	4.431	89	70-130	3	25
Hexachlorobutadiene	5.000	4.943	99	70-130	0	25
Naphthalene	5.000	4.417	88	70-130	2	25

Surrogate	%REC	Limits
Bromofluorobenzene	96	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC947044	Diln Fac:	1.000
Matrix:	Air	Batch#:	263342
Units (V):	ppbv	Analyzed:	09/11/18

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	0.50	ND	2.5
Freon 114	ND	0.50	ND	3.5
Chloromethane	ND	0.50	ND	1.0
Vinyl Chloride	ND	0.50	ND	1.3
Bromomethane	ND	0.50	ND	1.9
Chloroethane	ND	0.50	ND	1.3
Trichlorofluoromethane	ND	0.50	ND	2.8
Acrolein	ND	2.0	ND	4.6
1,1-Dichloroethene	ND	0.50	ND	2.0
Freon 113	ND	0.50	ND	3.8
Acetone	ND	5.0	ND	12
Carbon Disulfide	ND	0.50	ND	1.6
Isopropanol	ND	5.0	ND	12
Methylene Chloride	ND	0.50	ND	1.7
trans-1,2-Dichloroethene	ND	0.50	ND	2.0
MTBE	ND	0.50	ND	1.8
n-Hexane	ND	0.50	ND	1.8
1,1-Dichloroethane	ND	0.50	ND	2.0
Vinyl Acetate	ND	0.50	ND	1.8
cis-1,2-Dichloroethene	ND	0.50	ND	2.0
2-Butanone	ND	1.7	ND	4.9
Ethyl Acetate	ND	1.7	ND	6.0
Tetrahydrofuran	ND	0.50	ND	1.5
Chloroform	ND	0.50	ND	2.4
1,1,1-Trichloroethane	ND	0.50	ND	2.7
Cyclohexane	ND	0.50	ND	1.7
Carbon Tetrachloride	ND	0.50	ND	3.1
Benzene	ND	0.50	ND	1.6
1,2-Dichloroethane	ND	0.50	ND	2.0
n-Heptane	ND	0.50	ND	2.0
Trichloroethene	ND	0.50	ND	2.7
1,2-Dichloropropane	ND	0.50	ND	2.3
Bromodichloromethane	ND	0.50	ND	3.4
cis-1,3-Dichloropropene	ND	0.50	ND	2.3
4-Methyl-2-Pentanone	ND	0.50	ND	2.0

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC947044	Diln Fac:	1.000
Matrix:	Air	Batch#:	263342
Units (V):	ppbv	Analyzed:	09/11/18

Analyte	Result (V)	RL	Result (M)	RL
Toluene	ND	0.50	ND	1.9
trans-1,3-Dichloropropene	ND	0.50	ND	2.3
1,1,2-Trichloroethane	ND	0.50	ND	2.7
Tetrachloroethene	ND	0.50	ND	3.4
2-Hexanone	ND	0.50	ND	2.0
Dibromochloromethane	ND	0.50	ND	4.3
1,2-Dibromoethane	ND	0.50	ND	3.8
Chlorobenzene	ND	0.50	ND	2.3
Ethylbenzene	ND	0.50	ND	2.2
m,p-Xylenes	ND	0.50	ND	2.2
o-Xylene	ND	0.50	ND	2.2
Styrene	ND	0.50	ND	2.1
Bromoform	ND	0.50	ND	5.2
1,1,2,2-Tetrachloroethane	ND	0.50	ND	3.4
4-Ethyltoluene	ND	0.50	ND	2.5
1,3,5-Trimethylbenzene	ND	0.50	ND	2.5
1,2,4-Trimethylbenzene	ND	0.50	ND	2.5
1,3-Dichlorobenzene	ND	0.50	ND	3.0
1,4-Dichlorobenzene	ND	0.50	ND	3.0
Benzyl chloride	ND	0.50	ND	2.6
1,2-Dichlorobenzene	ND	0.50	ND	3.0
1,2,4-Trichlorobenzene	ND	0.50	ND	3.7
Hexachlorobutadiene	ND	0.50	ND	5.3
Naphthalene	ND	2.0	ND	10

Surrogate	%REC	Limits
Bromofluorobenzene	98	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	263397
Units (V):	ppbv	Analyzed:	09/12/18
Diln Fac:	1.000		

Type: BS

Lab ID: QC947271

Analyte	Spiked	Result (V)	%REC	Limits
Freon 12	1.667	1.807	108	70-130
Freon 114	1.667	1.824	109	70-130
Chloromethane	1.667	1.925	116	70-130
Vinyl Chloride	1.667	1.889	113	70-130
Bromomethane	1.667	1.861	112	70-130
Chloroethane	1.667	2.317 b	139 *	70-130
Trichlorofluoromethane	1.667	1.925	116	70-130
Acrolein	1.667	2.118 b	127	70-130
1,1-Dichloroethene	1.667	1.849	111	70-130
Freon 113	1.667	2.507 b	150 *	70-130
Acetone	1.667	2.240 b	134 *	70-130
Carbon Disulfide	1.667	1.830	110	70-130
Isopropanol	1.667	2.374 b	142 *	70-130
Methylene Chloride	1.667	1.639	98	70-130
trans-1,2-Dichloroethene	1.667	2.216 b	133 *	70-130
MTBE	1.667	2.744 b	165 *	70-130
n-Hexane	1.667	2.262 b	136 *	70-130
1,1-Dichloroethane	1.667	2.202 b	132 *	70-130
Vinyl Acetate	1.667	3.238 b	194 *	70-130
cis-1,2-Dichloroethene	1.667	1.916	115	70-130
2-Butanone	1.667	3.196 b	192 *	70-130
Ethyl Acetate	1.667	3.570 b	214 *	70-130
Tetrahydrofuran	1.667	1.903	114	70-130
Chloroform	1.667	2.070	124	70-130
1,1,1-Trichloroethane	1.667	2.110	127	70-130
Cyclohexane	1.667	2.233 b	134 *	70-130
Carbon Tetrachloride	1.667	2.145	129	70-130
Benzene	1.667	2.013	121	70-130
1,2-Dichloroethane	1.667	1.954	117	70-130
n-Heptane	1.667	2.218 b	133 *	70-130
Trichloroethene	1.667	2.040	122	70-130
1,2-Dichloropropane	1.667	2.149	129	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	263397
Units (V):	ppbv	Analyzed:	09/12/18
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits
Bromodichloromethane	1.667	2.216 b	133 *	70-130
cis-1,3-Dichloropropene	1.667	2.478 b	149 *	70-130
4-Methyl-2-Pentanone	1.667	2.272 b	136 *	70-130
Toluene	1.667	2.394 b	144 *	70-130
trans-1,3-Dichloropropene	1.667	2.265 b	136 *	70-130
1,1,2-Trichloroethane	1.667	2.965 b	178 *	70-130
Tetrachloroethene	1.667	1.950	117	70-130
2-Hexanone	1.667	2.715 b	163 *	70-130
Dibromochloromethane	1.667	2.616 b	157 *	70-130
1,2-Dibromoethane	1.667	2.704 b	162 *	70-130
Chlorobenzene	1.667	1.866	112	70-130
Ethylbenzene	1.667	2.115	127	70-130
m,p-Xylenes	3.333	3.991	120	70-130
o-Xylene	1.667	2.003	120	70-130
Styrene	1.667	2.180 b	131 *	70-130
Bromoform	1.667	2.716 b	163 *	70-130
1,1,2,2-Tetrachloroethane	1.667	2.143	129	70-130
4-Ethyltoluene	1.667	2.269 b	136 *	70-130
1,3,5-Trimethylbenzene	1.667	2.120	127	70-130
1,2,4-Trimethylbenzene	1.667	2.172	130	70-130
1,3-Dichlorobenzene	1.667	2.434 b	146 *	70-130
1,4-Dichlorobenzene	1.667	2.542 b	153 *	70-130
Benzyl chloride	1.667	2.124	127	70-130
1,2-Dichlorobenzene	1.667	2.324 b	139 *	70-130
1,2,4-Trichlorobenzene	1.667	2.435 b	146 *	70-130
Hexachlorobutadiene	1.667	2.256 b	135 *	70-130
Naphthalene	1.667	2.398 b	144 *	70-130

Surrogate	%REC	Limits
Bromofluorobenzene	108	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #: 302994
Location: 801 Pine Streets Oakland, Ca.
Client: P&D Environmental
Prep: METHOD
Project#: 0772
Analysis: EPA TO-15
Matrix: Air
Batch#: 263397
Units (V): ppbv
Analyzed: 09/12/18
Diln Fac: 1.000

Type: BSD
Lab ID: QC947272

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Freon 12	1.667	1.797	108	70-130	1	25
Freon 114	1.667	1.727	104	70-130	5	25
Chloromethane	1.667	1.809	109	70-130	6	25
Vinyl Chloride	1.667	1.742	105	70-130	8	25
Bromomethane	1.667	1.669	100	70-130	11	25
Chloroethane	1.667	2.109 b	127	70-130	9	25
Trichlorofluoromethane	1.667	1.898	114	70-130	1	25
Acrolein	1.667	1.381 b	83	70-130	42 *	25
1,1-Dichloroethene	1.667	1.757	105	70-130	5	25
Freon 113	1.667	2.331 b	140 *	70-130	7	25
Acetone	1.667	2.144 b	129	70-130	4	25
Carbon Disulfide	1.667	1.732	104	70-130	6	25
Isopropanol	1.667	2.268 b	136 *	70-130	5	25
Methylene Chloride	1.667	1.577	95	70-130	4	25
trans-1,2-Dichloroethene	1.667	1.998 b	120	70-130	10	25
MTBE	1.667	2.699 b	162 *	70-130	2	25
n-Hexane	1.667	2.313 b	139 *	70-130	2	25
1,1-Dichloroethane	1.667	2.061 b	124	70-130	7	25
Vinyl Acetate	1.667	3.128 b	188 *	70-130	3	25
cis-1,2-Dichloroethene	1.667	1.966	118	70-130	3	25
2-Butanone	1.667	3.313 b	199 *	70-130	4	25
Ethyl Acetate	1.667	3.458 b	207 *	70-130	3	25
Tetrahydrofuran	1.667	1.903	114	70-130	0	25
Chloroform	1.667	2.029	122	70-130	2	25
1,1,1-Trichloroethane	1.667	2.204	132 *	70-130	4	25
Cyclohexane	1.667	2.210 b	133 *	70-130	1	25
Carbon Tetrachloride	1.667	2.277	137 *	70-130	6	25
Benzene	1.667	2.148	129	70-130	6	25
1,2-Dichloroethane	1.667	2.036	122	70-130	4	25
n-Heptane	1.667	2.390 b	143 *	70-130	7	25
Trichloroethene	1.667	2.187	131 *	70-130	7	25
1,2-Dichloropropane	1.667	2.239	134 *	70-130	4	25

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	263397
Units (V):	ppbv	Analyzed:	09/12/18
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Bromodichloromethane	1.667	2.392 b	144 *	70-130	8	25
cis-1,3-Dichloropropene	1.667	2.596 b	156 *	70-130	5	25
4-Methyl-2-Pentanone	1.667	2.453 b	147 *	70-130	8	25
Toluene	1.667	2.179 b	131 *	70-130	9	25
trans-1,3-Dichloropropene	1.667	2.628 b	158 *	70-130	15	25
1,1,2-Trichloroethane	1.667	2.627 b	158 *	70-130	12	25
Tetrachloroethene	1.667	2.074	124	70-130	6	25
2-Hexanone	1.667	2.759 b	166 *	70-130	2	25
Dibromochloromethane	1.667	2.282 b	137 *	70-130	14	25
1,2-Dibromoethane	1.667	2.543 b	153 *	70-130	6	25
Chlorobenzene	1.667	1.825	110	70-130	2	25
Ethylbenzene	1.667	2.043	123	70-130	3	25
m,p-Xylenes	3.333	3.823	115	70-130	4	25
o-Xylene	1.667	1.900	114	70-130	5	25
Styrene	1.667	1.826 b	110	70-130	18	25
Bromoform	1.667	2.586 b	155 *	70-130	5	25
1,1,2,2-Tetrachloroethane	1.667	2.222	133 *	70-130	4	25
4-Ethyltoluene	1.667	2.214 b	133 *	70-130	2	25
1,3,5-Trimethylbenzene	1.667	2.069	124	70-130	2	25
1,2,4-Trimethylbenzene	1.667	2.340	140 *	70-130	7	25
1,3-Dichlorobenzene	1.667	2.338 b	140 *	70-130	4	25
1,4-Dichlorobenzene	1.667	2.433 b	146 *	70-130	4	25
Benzyl chloride	1.667	2.208	132 *	70-130	4	25
1,2-Dichlorobenzene	1.667	2.257 b	135 *	70-130	3	25
1,2,4-Trichlorobenzene	1.667	2.671 b	160 *	70-130	9	25
Hexachlorobutadiene	1.667	2.189 b	131 *	70-130	3	25
Naphthalene	1.667	2.597 b	156 *	70-130	8	25

Surrogate	%REC	Limits
Bromofluorobenzene	101	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC947273	Diln Fac:	1.000
Matrix:	Air	Batch#:	263397
Units (V):	ppbv	Analyzed:	09/13/18

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	0.50	ND	2.5
Freon 114	ND	0.50	ND	3.5
Chloromethane	ND	0.50	ND	1.0
Vinyl Chloride	ND	0.50	ND	1.3
Bromomethane	ND	0.50	ND	1.9
Chloroethane	ND	0.50	ND	1.3
Trichlorofluoromethane	ND	0.50	ND	2.8
Acrolein	ND	2.0	ND	4.6
1,1-Dichloroethene	ND	0.50	ND	2.0
Freon 113	ND	0.50	ND	3.8
Acetone	ND	5.0	ND	12
Carbon Disulfide	ND	0.50	ND	1.6
Isopropanol	ND	5.0	ND	12
Methylene Chloride	ND	0.50	ND	1.7
trans-1,2-Dichloroethene	ND	0.50	ND	2.0
MTBE	ND	0.50	ND	1.8
n-Hexane	ND	0.50	ND	1.8
1,1-Dichloroethane	ND	0.50	ND	2.0
Vinyl Acetate	ND	0.50	ND	1.8
cis-1,2-Dichloroethene	ND	0.50	ND	2.0
2-Butanone	ND	0.50	ND	1.5
Ethyl Acetate	ND	0.50	ND	1.8
Tetrahydrofuran	ND	0.50	ND	1.5
Chloroform	ND	0.50	ND	2.4
1,1,1-Trichloroethane	ND	0.50	ND	2.7
Cyclohexane	ND	0.50	ND	1.7
Carbon Tetrachloride	ND	0.50	ND	3.1
Benzene	ND	0.50	ND	1.6
1,2-Dichloroethane	ND	0.50	ND	2.0
n-Heptane	ND	0.50	ND	2.0
Trichloroethene	ND	0.50	ND	2.7
1,2-Dichloropropane	ND	0.50	ND	2.3
Bromodichloromethane	ND	0.50	ND	3.4
cis-1,3-Dichloropropene	ND	0.50	ND	2.3
4-Methyl-2-Pentanone	ND	0.50	ND	2.0

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC947273	Diln Fac:	1.000
Matrix:	Air	Batch#:	263397
Units (V):	ppbv	Analyzed:	09/13/18

Analyte	**Result (V)**	**RL**	**Result (M)**	**RL**
Toluene	ND	0.50	ND	1.9
trans-1,3-Dichloropropene	ND	0.50	ND	2.3
1,1,2-Trichloroethane	ND	0.50	ND	2.7
Tetrachloroethene	ND	0.50	ND	3.4
2-Hexanone	ND	0.50	ND	2.0
Dibromochloromethane	ND	0.50	ND	4.3
1,2-Dibromoethane	ND	0.50	ND	3.8
Chlorobenzene	ND	0.50	ND	2.3
Ethylbenzene	ND	0.50	ND	2.2
m,p-Xylenes	ND	0.50	ND	2.2
o-Xylene	ND	0.50	ND	2.2
Styrene	ND	0.50	ND	2.1
Bromoform	ND	0.50	ND	5.2
1,1,2,2-Tetrachloroethane	ND	0.50	ND	3.4
4-Ethyltoluene	ND	0.50	ND	2.5
1,3,5-Trimethylbenzene	ND	0.50	ND	2.5
1,2,4-Trimethylbenzene	ND	0.50	ND	2.5
1,3-Dichlorobenzene	ND	0.50	ND	3.0
1,4-Dichlorobenzene	ND	0.50	ND	3.0
Benzyl chloride	ND	0.50	ND	2.6
1,2-Dichlorobenzene	ND	0.50	ND	3.0
1,2,4-Trichlorobenzene	ND	0.50	ND	3.7
Hexachlorobutadiene	ND	0.50	ND	5.3
Naphthalene	ND	2.0	ND	10

Surrogate	**%REC**	**Limits**
Bromofluorobenzene	113	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

ENTHALPY
ANALYTICAL

Fixed Gas Analysis

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Matrix:	Air	Sampled:	09/06/18
Units:	ppmv	Received:	09/06/18
Units (Mol %):	MOL %	Analyzed:	09/07/18
Batch#:	263272		

Field ID: SG4
Type: SAMPLE
Lab ID: 302994-001
Diln Fac: 2.100

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,100	ND	0.21
Carbon Dioxide	35,000	2,100	3.5	0.21
Oxygen	150,000	2,100	15	0.21

Field ID: SG5
Type: SAMPLE
Lab ID: 302994-002
Diln Fac: 1.970

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,000	ND	0.20
Carbon Dioxide	12,000	2,000	1.2	0.20
Oxygen	170,000	2,000	17	0.20

Field ID: SG5-DUP
Type: SAMPLE
Lab ID: 302994-003
Diln Fac: 1.940

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	1,900	ND	0.19
Carbon Dioxide	12,000	1,900	1.2	0.19
Oxygen	170,000	1,900	17	0.19

Type: BLANK
Diln Fac: 1.000
Lab ID: QC946785

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	1,000	ND	0.10
Carbon Dioxide	ND	1,000	ND	0.10
Oxygen	ND	1,000	ND	0.10

ND= Not Detected
RL= Reporting Limit
Result Mol %= Result in Mole Percent

Batch QC Report

Fixed Gas Analysis

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Matrix:	Air	Batch#:	263272
Units:	ppmv	Analyzed:	09/07/18
Diln Fac:	1.000		

Type: BS   Lab ID: QC946782

Analyte	Spiked	Result	%REC	Limits
Helium	100,000	76,260	76	70-130
Carbon Dioxide	NA			
Oxygen	NA			

Type: BSD   Lab ID: QC946783

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Helium	100,000	76,650	77	70-130	1	30
Carbon Dioxide	NA					
Oxygen	NA					

NA= Not Analyzed
RPD= Relative Percent Difference

Batch QC Report

Fixed Gas Analysis

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC946784	Batch#:	263272
Matrix:	Air	Analyzed:	09/07/18
Units:	ppmv		

Analyte	Spiked		Result	%REC	Limits
Helium		NA			
Carbon Dioxide	2,000		1,837	92	70-130
Oxygen	2,000		1,763	88	70-130

NA= Not Analyzed

Batch QC Report

Fixed Gas Analysis

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Field ID:	ZZZZZZZZZZ	Units (Mol %):	MOL %
Type:	SDUP	Diln Fac:	2.020
MSS Lab ID:	303017-001	Batch#:	263272
Lab ID:	QC946786	Sampled:	09/05/18
Matrix:	Air	Received:	09/07/18
Units:	ppmv	Analyzed:	09/07/18

Analyte	MSS Result	Result	RL	Result (Mol %)	RL	RPD	Lim
Helium	<2,020	ND	2,020	ND	0.2020	NC	30
Carbon Dioxide	11,190	11,180	2,020	1.118	0.2020	0	30
Oxygen	166,700	166,000	2,020	16.60	0.2020	0	20

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit
RPD= Relative Percent Difference
Result Mol %= Result in Mole Percent

ENTHALPY

ANALYTICAL

Enthalpy Analytical
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 304310
ANALYTICAL REPORT

P&D Environmental
55 Santa Clara Avenue
Oakland, CA 94610

Project : 0772
Location : 801 Pine Streets Oakland, Ca.
Level : II

Sample ID	Lab ID
SG-2	304310-001
SG-4	304310-002
SG-5	304310-003
SG-6	304310-004
SG-6 DUP	304310-005
SG-10	304310-006
SG-11	304310-007
SG-12	304310-008
SG-13	304310-009
SG-14	304310-010

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Will Rice

Date: 10/26/2018

Will Rice
Project Manager
will.rice@enthalpy.com
(510) 204-2221 Ext 13102

CA ELAP# 2896, NELAP# 4044-001

CASE NARRATIVE

Laboratory number:	**304310**
Client:	**P&D Environmental**
Project:	**0772**
Location:	**801 Pine Streets Oakland, Ca.**
Request Date:	**10/18/18**
Samples Received:	**10/18/18**

This data package contains sample and QC results for ten air samples, requested for the above referenced project on 10/18/18. The samples were received cold and intact.

Volatile Organics in Air by MS (EPA TO-15):
No analytical problems were encountered.

Volatile Organics in Air GC (ASTM D1946-90):
No analytical problems were encountered.

CHAIN OF CUSTODY RECORD 304310

PAGE 1 OF 2

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME: THE PHOENIX
801 PINE ST.
OAKLAND

SAMPLED BY: (PRINTED & SIGNATURE) MICHAEL BASS-DESCHENES Michael Bass-Deschenes

ANALYSIS(ES):

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION INIT VACUUM	FINAL VACUUM	SUMMA #	NUMBER OF CONTAINERS	VOCs incl. BTEX, PCE, TCE, cis-1,2 DCE	TRANS-1,2 DCE, AND VINYL CHLORIDE		CARBON DIOXIDE, OXYGEN, AND	HELIUM BY ASTM D-1946				PRESERVATIVE	REMARKS
SG-2	10/17/18	123200	SOIL GAS	-30		92	1	X			X					NONE	NORMAL TAT
		124327	"		-5												
SG-4	10/17/18	141540	"	-30		284	1	X			X					"	"
		142105			-5												
SG-5	10/17/18	152900	"	-30		166	1	X			X					"	"
		153715	"		-5												
SG-6	10/17/18	163830	"	-30		180	1	X			X					"	"
		170732	"		-5												
SG-6 DUP	10/17/18	163830	"	-30		304	1	X			X					"	"
		170732	"		-5												

RELINQUISHED BY: (SIGNATURE) Michael Bass-Deschenes	DATE 10.18	TIME 17:20	RECEIVED BY: (SIGNATURE)	Total No. of Samples (This Shipment) 9 Total No. of Containers (This Shipment) 9	LABORATORY: ENTHALPY ANALYTICAL
RELINQUISHED BY: (SIGNATURE)	DATE 10.18	TIME 1809	RECEIVED BY: (SIGNATURE)	LABORATORY CONTACT: LAUREN SMITH	LABORATORY PHONE NUMBER: (510) 486-0900
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES [✓ NO]	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: PID (PPM)
SG2: 51
SG4: 3
SG5: 9
SG6: 1

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME: THE PHOENIX
801 PINE ST.
OAKLAND

SAMPLED BY: (PRINTED & SIGNATURE) MICHAEL BASS-DESCHENES Michael Bass-Deschenes

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION INIT VAC	FINAL VAC	SUMMA #	NUMBER OF CONTAINERS	ANALYSIS(ES): VOCs include BTEX, PCE, TCE, cis-1,2DCE, TRANS-1,2DCE, AND VINYL CHLORIDE	CARBON DIOXIDE, OXYGEN, AND HELIUM BY ASTM-D 1946	PRESERVATIVE	REMARKS
SG-10	10/18/18	091910	SOIL GAS	-30		507	1	X	X	NONE	NORMAL TAT
		092825	"		-5						
SG-11	10/18/18	104020	"	-30		519	1	X	X	"	" "
		105010	"		-5						
SG-12	10/18/18	115600	"	-30		279	1	X	X	"	" "
		120737	"		-5						
SG-13	10/18/18	151302	"	-30		509	1	X	X	"	" "
		152731	"		-5						
SG-14	10/18/18	134412	"	-30		340		X	X	"	" "
		135455	"		-5						

RELINQUISHED BY: (SIGNATURE) Michael Bass-Deschenes	DATE 10.18	TIME 1720	RECEIVED BY: (SIGNATURE)	Total No. of Samples (This Shipment) 9 Total No. of Containers (This Shipment) 9	LABORATORY: ENTHALPY ANALYTICAL
RELINQUISHED BY: (SIGNATURE)	DATE 10.18	TIME 1809	RECEIVED BY: (SIGNATURE)	LABORATORY CONTACT: LAUREN SMITH	LABORATORY PHONE NUMBER: (510) 486-0900
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES [✓ NO]	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: PID (PPM)
SG-10 0
SG-11 4
SG-12: 8
SG-13: 13
SG-14: 13

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 304310 Date Received 10/18/18 Number of coolers 0
Client RPE Project 0772

Date Opened 10/18/18 By (print) BNL (sign)
Date Logged in ↓ By (print) ↓ (sign)
Date Labeled ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) YES [✓ NO]
Shipping info

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☑ NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO [✓ N/A]

3. Were custody papers dry and intact when received? [✓ YES] NO

4. Were custody papers filled out properly (ink, signed, etc)? [✓ YES] NO

5. Is the project identifiable from custody papers? (If so fill out top of form) [✓ YES] NO

6. Indicate the packing in cooler: (if other, describe)

☐ Bubble Wrap ☐ Foam blocks ☐ Bags ☐ None
☐ Cloth material ☑ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☐ Wet ☐ Blue/Gel ☑ None Temp(°C)

☐ Temperature blank(s) included? ☐ Thermometer# ☐ IR Gun#

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES [✓ NO]
If YES, what time were they transferred to freezer?

9. Did all bottles arrive unbroken/unopened? [✓ YES] NO

10. Are there any missing / extra samples? YES [✓ NO]

11. Are samples in the appropriate containers for indicated tests? [✓ YES] NO

12. Are sample labels present, in good condition and complete? [✓ YES] NO

13. Do the sample labels agree with custody papers? [✓ YES] NO

14. Was sufficient amount of sample sent for tests requested? [✓ YES] NO

15. Are the samples appropriately preserved? YES NO [✓ N/A]

16. Did you check preservatives for all bottles for each sample? YES NO [✓ N/A]

17. Did you document your preservative check? (pH strip lot#) YES NO [✓ N/A]

18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO [✓ N/A]

19. Did you change the hold time in LIMS for preserved terracores? YES NO [✓ N/A]

20. Are bubbles > 6mm absent in VOA samples? YES NO [✓ N/A]

21. Was the client contacted concerning this sample delivery? YES [✓ NO]
If YES, Who was called? By Date:

COMMENTS

Detections Summary for 304310

Results for any subcontracted analyses are not included in this summary.

Client : P&D Environmental
Project : 0772
Location : 801 Pine Streets Oakland, Ca.

Client Sample ID : SG-2 Laboratory Sample ID : 304310-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Trichloroethene	110		1.0	ppbv	As Recd	2.050	EPA TO-15	METHOD
Tetrachloroethene	6.6		1.0	ppbv	As Recd	2.050	EPA TO-15	METHOD
Carbon Dioxide	19,000		2,100	ppmv	As Recd	2.050	ASTM D1946-90	METHOD
Oxygen	160,000		2,100	ppmv	As Recd	2.050	ASTM D1946-90	METHOD

Client Sample ID : SG-4 Laboratory Sample ID : 304310-002

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Tetrachloroethene	440		3.2	ppbv	As Recd	6.420	EPA TO-15	METHOD
Carbon Dioxide	28,000		2,100	ppmv	As Recd	2.140	ASTM D1946-90	METHOD
Oxygen	150,000		2,100	ppmv	As Recd	2.140	ASTM D1946-90	METHOD

Client Sample ID : SG-5 Laboratory Sample ID : 304310-003

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Trichloroethene	8.9		1.0	ppbv	As Recd	2.050	EPA TO-15	METHOD
Tetrachloroethene	1.4		1.0	ppbv	As Recd	2.050	EPA TO-15	METHOD
Carbon Dioxide	9,800		2,100	ppmv	As Recd	2.050	ASTM D1946-90	METHOD
Oxygen	170,000		2,100	ppmv	As Recd	2.050	ASTM D1946-90	METHOD

Client Sample ID : SG-6 Laboratory Sample ID : 304310-004

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Trichloroethene	400		2.1	ppbv	As Recd	4.180	EPA TO-15	METHOD
Tetrachloroethene	4.3		2.1	ppbv	As Recd	4.180	EPA TO-15	METHOD
Helium	11,000		2,100	ppmv	As Recd	2.090	ASTM D1946-90	METHOD
Carbon Dioxide	81,000		2,100	ppmv	As Recd	2.090	ASTM D1946-90	METHOD
Oxygen	110,000		2,100	ppmv	As Recd	2.090	ASTM D1946-90	METHOD

Client Sample ID : SG-6 DUP Laboratory Sample ID : 304310-005

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Trichloroethene	390		2.0	ppbv	As Recd	4.080	EPA TO-15	METHOD
Tetrachloroethene	4.4		2.0	ppbv	As Recd	4.080	EPA TO-15	METHOD
Helium	11,000		2,000	ppmv	As Recd	2.040	ASTM D1946-90	METHOD
Carbon Dioxide	81,000		2,000	ppmv	As Recd	2.040	ASTM D1946-90	METHOD
Oxygen	110,000		2,000	ppmv	As Recd	2.040	ASTM D1946-90	METHOD

Client Sample ID : SG-10 Laboratory Sample ID : 304310-006

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Tetrachloroethene	120		0.94	ppbv	As Recd	1.870	EPA TO-15	METHOD
m,p-Xylenes	1.5		0.94	ppbv	As Recd	1.870	EPA TO-15	METHOD
o-Xylene	1.1		0.94	ppbv	As Recd	1.870	EPA TO-15	METHOD
Carbon Dioxide	22,000		1,900	ppmv	As Recd	1.870	ASTM D1946-90	METHOD
Oxygen	160,000		1,900	ppmv	As Recd	1.870	ASTM D1946-90	METHOD

Client Sample ID : SG-11 Laboratory Sample ID : 304310-007

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Tetrachloroethene	170		1.0	ppbv	As Recd	2.070	EPA TO-15	METHOD
Carbon Dioxide	26,000		2,100	ppmv	As Recd	2.070	ASTM D1946-90	METHOD
Oxygen	150,000		2,100	ppmv	As Recd	2.070	ASTM D1946-90	METHOD

Client Sample ID : SG-12 Laboratory Sample ID : 304310-008

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Tetrachloroethene	41		1.0	ppbv	As Recd	2.040	EPA TO-15	METHOD
Carbon Dioxide	24,000		2,000	ppmv	As Recd	2.040	ASTM D1946-90	METHOD
Oxygen	150,000		2,000	ppmv	As Recd	2.040	ASTM D1946-90	METHOD

Client Sample ID : SG-13 Laboratory Sample ID : 304310-009

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Tetrachloroethene	1.2		0.91	ppbv	As Recd	1.810	EPA TO-15	METHOD
Carbon Dioxide	17,000		1,800	ppmv	As Recd	1.810	ASTM D1946-90	METHOD
Oxygen	160,000		1,800	ppmv	As Recd	1.810	ASTM D1946-90	METHOD

Client Sample ID : SG-14 Laboratory Sample ID : 304310-010

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Benzene	2.2		1.0	ppbv	As Recd	2.040	EPA TO-15	METHOD
m,p-Xylenes	2.7		1.0	ppbv	As Recd	2.040	EPA TO-15	METHOD
o-Xylene	1.6		1.0	ppbv	As Recd	2.040	EPA TO-15	METHOD
Carbon Dioxide	100,000		2,000	ppmv	As Recd	2.040	ASTM D1946-90	METHOD
Oxygen	28,000		2,000	ppmv	As Recd	2.040	ASTM D1946-90	METHOD
Methane	8,200		2,000	ppmv	As Recd	2.040	ASTM D1946-90	METHOD

Volatile Organics in Air

Lab #: 304310
Client: P&D Environmental
Project#: 0772
Location: 801 Pine Streets Oakland, Ca.
Prep: METHOD
Analysis: EPA TO-15
Matrix: Air
Units (V): ppbv
Units (M): ug/m3
Batch#: 264859
Received: 10/18/18

Field ID: SG-2
Type: SAMPLE
Lab ID: 304310-001
Diln Fac: 2.050
Sampled: 10/17/18
Analyzed: 10/25/18

Analyte	Result (V)	RL	Result (M)	RL
Vinyl Chloride	ND	1.0	ND	2.6
trans-1,2-Dichloroethene	ND	1.0	ND	4.1
cis-1,2-Dichloroethene	ND	1.0	ND	4.1
Benzene	ND	1.0	ND	3.3
Trichloroethene	110	1.0	570	5.5
Toluene	ND	1.0	ND	3.9
Tetrachloroethene	6.6	1.0	45	7.0
Ethylbenzene	ND	1.0	ND	4.5
m,p-Xylenes	ND	1.0	ND	4.5
o-Xylene	ND	1.0	ND	4.5

Surrogate	%REC	Limits
Bromofluorobenzene	97	70-130

Field ID: SG-4
Type: SAMPLE
Lab ID: 304310-002
Diln Fac: 6.420
Sampled: 10/17/18
Analyzed: 10/26/18

Analyte	Result (V)	RL	Result (M)	RL
Vinyl Chloride	ND	3.2	ND	8.2
trans-1,2-Dichloroethene	ND	3.2	ND	13
cis-1,2-Dichloroethene	ND	3.2	ND	13
Benzene	ND	3.2	ND	10
Trichloroethene	ND	3.2	ND	17
Toluene	ND	3.2	ND	12
Tetrachloroethene	440	3.2	3,000	22
Ethylbenzene	ND	3.2	ND	14
m,p-Xylenes	ND	3.2	ND	14
o-Xylene	ND	3.2	ND	14

Surrogate	%REC	Limits
Bromofluorobenzene	100	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Volatile Organics in Air

Lab #:	304310	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	264859
Units (V):	ppbv	Received:	10/18/18
Units (M):	ug/m3		

Field ID:	SG-5	Diln Fac:	2.050
Type:	SAMPLE	Sampled:	10/17/18
Lab ID:	304310-003	Analyzed:	10/25/18

Analyte	Result (V)	RL	Result (M)	RL
Vinyl Chloride	ND	1.0	ND	2.6
trans-1,2-Dichloroethene	ND	1.0	ND	4.1
cis-1,2-Dichloroethene	ND	1.0	ND	4.1
Benzene	ND	1.0	ND	3.3
Trichloroethene	8.9	1.0	48	5.5
Toluene	ND	1.0	ND	3.9
Tetrachloroethene	1.4	1.0	9.8	7.0
Ethylbenzene	ND	1.0	ND	4.5
m,p-Xylenes	ND	1.0	ND	4.5
o-Xylene	ND	1.0	ND	4.5

Surrogate	%REC	Limits
Bromofluorobenzene	98	70-130

Field ID:	SG-6	Diln Fac:	4.180
Type:	SAMPLE	Sampled:	10/17/18
Lab ID:	304310-004	Analyzed:	10/26/18

Analyte	Result (V)	RL	Result (M)	RL
Vinyl Chloride	ND	2.1	ND	5.3
trans-1,2-Dichloroethene	ND	2.1	ND	8.3
cis-1,2-Dichloroethene	ND	2.1	ND	8.3
Benzene	ND	2.1	ND	6.7
Trichloroethene	400	2.1	2,100	11
Toluene	ND	2.1	ND	7.9
Tetrachloroethene	4.3	2.1	29	14
Ethylbenzene	ND	2.1	ND	9.1
m,p-Xylenes	ND	2.1	ND	9.1
o-Xylene	ND	2.1	ND	9.1

Surrogate	%REC	Limits
Bromofluorobenzene	103	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Volatile Organics in Air

Lab #:	304310	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	264859
Units (V):	ppbv	Received:	10/18/18
Units (M):	ug/m3		

Field ID:	SG-6 DUP	Diln Fac:	4.080
Type:	SAMPLE	Sampled:	10/17/18
Lab ID:	304310-005	Analyzed:	10/26/18

Analyte	Result (V)	RL	Result (M)	RL
Vinyl Chloride	ND	2.0	ND	5.2
trans-1,2-Dichloroethene	ND	2.0	ND	8.1
cis-1,2-Dichloroethene	ND	2.0	ND	8.1
Benzene	ND	2.0	ND	6.5
Trichloroethene	390	2.0	2,100	11
Toluene	ND	2.0	ND	7.7
Tetrachloroethene	4.4	2.0	30	14
Ethylbenzene	ND	2.0	ND	8.9
m,p-Xylenes	ND	2.0	ND	8.9
o-Xylene	ND	2.0	ND	8.9

Surrogate	%REC	Limits
Bromofluorobenzene	100	70-130

Field ID:	SG-10	Diln Fac:	1.870
Type:	SAMPLE	Sampled:	10/18/18
Lab ID:	304310-006	Analyzed:	10/25/18

Analyte	Result (V)	RL	Result (M)	RL
Vinyl Chloride	ND	0.94	ND	2.4
trans-1,2-Dichloroethene	ND	0.94	ND	3.7
cis-1,2-Dichloroethene	ND	0.94	ND	3.7
Benzene	ND	0.94	ND	3.0
Trichloroethene	ND	0.94	ND	5.0
Toluene	ND	0.94	ND	3.5
Tetrachloroethene	120	0.94	810	6.3
Ethylbenzene	ND	0.94	ND	4.1
m,p-Xylenes	1.5	0.94	6.4	4.1
o-Xylene	1.1	0.94	4.9	4.1

Surrogate	%REC	Limits
Bromofluorobenzene	101	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Volatile Organics in Air

Lab #:	304310	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	264859
Units (V):	ppbv	Received:	10/18/18
Units (M):	ug/m3		

Field ID:	SG-11	Diln Fac:	2.070
Type:	SAMPLE	Sampled:	10/18/18
Lab ID:	304310-007	Analyzed:	10/26/18

Analyte	Result (V)	RL	Result (M)	RL
Vinyl Chloride	ND	1.0	ND	2.6
trans-1,2-Dichloroethene	ND	1.0	ND	4.1
cis-1,2-Dichloroethene	ND	1.0	ND	4.1
Benzene	ND	1.0	ND	3.3
Trichloroethene	ND	1.0	ND	5.6
Toluene	ND	1.0	ND	3.9
Tetrachloroethene	170	1.0	1,100	7.0
Ethylbenzene	ND	1.0	ND	4.5
m,p-Xylenes	ND	1.0	ND	4.5
o-Xylene	ND	1.0	ND	4.5

Surrogate	%REC	Limits
Bromofluorobenzene	94	70-130

Field ID:	SG-12	Diln Fac:	2.040
Type:	SAMPLE	Sampled:	10/18/18
Lab ID:	304310-008	Analyzed:	10/26/18

Analyte	Result (V)	RL	Result (M)	RL
Vinyl Chloride	ND	1.0	ND	2.6
trans-1,2-Dichloroethene	ND	1.0	ND	4.0
cis-1,2-Dichloroethene	ND	1.0	ND	4.0
Benzene	ND	1.0	ND	3.3
Trichloroethene	ND	1.0	ND	5.5
Toluene	ND	1.0	ND	3.8
Tetrachloroethene	41	1.0	280	6.9
Ethylbenzene	ND	1.0	ND	4.4
m,p-Xylenes	ND	1.0	ND	4.4
o-Xylene	ND	1.0	ND	4.4

Surrogate	%REC	Limits
Bromofluorobenzene	100	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Volatile Organics in Air

Lab #:	304310	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	264859
Units (V):	ppbv	Received:	10/18/18
Units (M):	ug/m3		

Field ID:	SG-13	Diln Fac:	1.810
Type:	SAMPLE	Sampled:	10/18/18
Lab ID:	304310-009	Analyzed:	10/26/18

Analyte	Result (V)	RL	Result (M)	RL
Vinyl Chloride	ND	0.91	ND	2.3
trans-1,2-Dichloroethene	ND	0.91	ND	3.6
cis-1,2-Dichloroethene	ND	0.91	ND	3.6
Benzene	ND	0.91	ND	2.9
Trichloroethene	ND	0.91	ND	4.9
Toluene	ND	0.91	ND	3.4
Tetrachloroethene	1.2	0.91	8.4	6.1
Ethylbenzene	ND	0.91	ND	3.9
m,p-Xylenes	ND	0.91	ND	3.9
o-Xylene	ND	0.91	ND	3.9

Surrogate	%REC	Limits
Bromofluorobenzene	98	70-130

Field ID:	SG-14	Diln Fac:	2.040
Type:	SAMPLE	Sampled:	10/18/18
Lab ID:	304310-010	Analyzed:	10/26/18

Analyte	Result (V)	RL	Result (M)	RL
Vinyl Chloride	ND	1.0	ND	2.6
trans-1,2-Dichloroethene	ND	1.0	ND	4.0
cis-1,2-Dichloroethene	ND	1.0	ND	4.0
Benzene	2.2	1.0	6.9	3.3
Trichloroethene	ND	1.0	ND	5.5
Toluene	ND	1.0	ND	3.8
Tetrachloroethene	ND	1.0	ND	6.9
Ethylbenzene	ND	1.0	ND	4.4
m,p-Xylenes	2.7	1.0	12	4.4
o-Xylene	1.6	1.0	6.9	4.4

Surrogate	%REC	Limits
Bromofluorobenzene	109	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Volatile Organics in Air

Lab #:	304310	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	264859
Units (V):	ppbv	Received:	10/18/18
Units (M):	ug/m3		

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC953098	Analyzed:	10/25/18

Analyte	Result (V)	RL	Result (M)	RL
Vinyl Chloride	ND	0.50	ND	1.3
trans-1,2-Dichloroethene	ND	0.50	ND	2.0
cis-1,2-Dichloroethene	ND	0.50	ND	2.0
Benzene	ND	0.50	ND	1.6
Trichloroethene	ND	0.50	ND	2.7
Toluene	ND	0.50	ND	1.9
Tetrachloroethene	ND	0.50	ND	3.4
Ethylbenzene	ND	0.50	ND	2.2
m,p-Xylenes	ND	0.50	ND	2.2
o-Xylene	ND	0.50	ND	2.2

Surrogate	%REC	Limits
Bromofluorobenzene	98	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	304310	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	264859
Units (V):	ppbv	Analyzed:	10/25/18
Diln Fac:	1.000		

Type: BS	Lab ID: QC953096

Analyte	Spiked	Result (V)	%REC	Limits
Vinyl Chloride	5.000	5.159	103	70-130
trans-1,2-Dichloroethene	5.000	5.762	115	70-130
cis-1,2-Dichloroethene	5.000	5.222	104	70-130
Benzene	5.000	5.042	101	70-130
Trichloroethene	5.000	5.287	106	70-130
Toluene	5.000	5.296	106	70-130
Tetrachloroethene	5.000	5.374	107	70-130
Ethylbenzene	5.000	5.229	105	70-130
m,p-Xylenes	10.00	10.33	103	70-130
o-Xylene	5.000	5.176	104	70-130

Surrogate	%REC	Limits
Bromofluorobenzene	100	70-130

Type: BSD	Lab ID: QC953097

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Vinyl Chloride	5.000	5.229	105	70-130	1	20
trans-1,2-Dichloroethene	5.000	5.840	117	70-130	1	20
cis-1,2-Dichloroethene	5.000	5.277	106	70-130	1	20
Benzene	5.000	4.959	99	70-130	2	20
Trichloroethene	5.000	5.196	104	70-130	2	20
Toluene	5.000	5.084	102	70-130	4	20
Tetrachloroethene	5.000	5.179	104	70-130	4	20
Ethylbenzene	5.000	5.095	102	70-130	3	20
m,p-Xylenes	10.00	10.01	100	70-130	3	32
o-Xylene	5.000	5.181	104	70-130	0	20

Surrogate	%REC	Limits
Bromofluorobenzene	100	70-130

RPD= Relative Percent Difference
Result V= Result in volume units

Fixed Gas Analysis

Lab #: 304310
Client: P&D Environmental
Project#: 0772
Location: 801 Pine Streets Oakland, Ca.
Prep: METHOD
Analysis: ASTM D1946-90

Matrix: Air
Units: ppmv
Units (Mol %): MOL %
Batch#: 264678
Received: 10/18/18
Analyzed: 10/19/18

Field ID: SG-2
Type: SAMPLE
Lab ID: 304310-001
Diln Fac: 2.050
Sampled: 10/17/18

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,100	ND	0.21
Carbon Monoxide	ND	2,100	ND	0.21
Carbon Dioxide	19,000	2,100	1.9	0.21
Oxygen	160,000	2,100	16	0.21
Methane	ND	2,100	ND	0.21

Field ID: SG-4
Type: SAMPLE
Lab ID: 304310-002
Diln Fac: 2.140
Sampled: 10/17/18

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,100	ND	0.21
Carbon Monoxide	ND	2,100	ND	0.21
Carbon Dioxide	28,000	2,100	2.8	0.21
Oxygen	150,000	2,100	15	0.21
Methane	ND	2,100	ND	0.21

Field ID: SG-5
Type: SAMPLE
Lab ID: 304310-003
Diln Fac: 2.050
Sampled: 10/17/18

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,100	ND	0.21
Carbon Monoxide	ND	2,100	ND	0.21
Carbon Dioxide	9,800	2,100	0.98	0.21
Oxygen	170,000	2,100	17	0.21
Methane	ND	2,100	ND	0.21

Field ID: SG-6
Type: SAMPLE
Lab ID: 304310-004
Diln Fac: 2.090
Sampled: 10/17/18

Analyte	Result	RL	Result (Mol %)	RL
Helium	11,000	2,100	1.1	0.21
Carbon Monoxide	ND	2,100	ND	0.21
Carbon Dioxide	81,000	2,100	8.1	0.21
Oxygen	110,000	2,100	11	0.21
Methane	ND	2,100	ND	0.21

ND= Not Detected
RL= Reporting Limit
Result Mol %= Result in Mole Percent

Fixed Gas Analysis

Lab #:	304310	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Matrix:	Air	Batch#:	264678
Units:	ppmv	Received:	10/18/18
Units (Mol %):	MOL %	Analyzed:	10/19/18

Field ID: SG-6 DUP
Type: SAMPLE
Lab ID: 304310-005
Diln Fac: 2.040
Sampled: 10/17/18

Analyte	Result	RL	Result (Mol %)	RL
Helium	11,000	2,000	1.1	0.20
Carbon Monoxide	ND	2,000	ND	0.20
Carbon Dioxide	81,000	2,000	8.1	0.20
Oxygen	110,000	2,000	11	0.20
Methane	ND	2,000	ND	0.20

Field ID: SG-10
Type: SAMPLE
Lab ID: 304310-006
Diln Fac: 1.870
Sampled: 10/18/18

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	1,900	ND	0.19
Carbon Monoxide	ND	1,900	ND	0.19
Carbon Dioxide	22,000	1,900	2.2	0.19
Oxygen	160,000	1,900	16	0.19
Methane	ND	1,900	ND	0.19

Field ID: SG-11
Type: SAMPLE
Lab ID: 304310-007
Diln Fac: 2.070
Sampled: 10/18/18

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,100	ND	0.21
Carbon Monoxide	ND	2,100	ND	0.21
Carbon Dioxide	26,000	2,100	2.6	0.21
Oxygen	150,000	2,100	15	0.21
Methane	ND	2,100	ND	0.21

Field ID: SG-12
Type: SAMPLE
Lab ID: 304310-008
Diln Fac: 2.040
Sampled: 10/18/18

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,000	ND	0.20
Carbon Monoxide	ND	2,000	ND	0.20
Carbon Dioxide	24,000	2,000	2.4	0.20
Oxygen	150,000	2,000	15	0.20
Methane	ND	2,000	ND	0.20

ND= Not Detected
RL= Reporting Limit
Result Mol %= Result in Mole Percent

Fixed Gas Analysis

Lab #:	304310	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Matrix:	Air	Batch#:	264678
Units:	ppmv	Received:	10/18/18
Units (Mol %):	MOL %	Analyzed:	10/19/18

Field ID: SG-13
Type: SAMPLE
Lab ID: 304310-009
Diln Fac: 1.810
Sampled: 10/18/18

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	1,800	ND	0.18
Carbon Monoxide	ND	1,800	ND	0.18
Carbon Dioxide	17,000	1,800	1.7	0.18
Oxygen	160,000	1,800	16	0.18
Methane	ND	1,800	ND	0.18

Field ID: SG-14
Type: SAMPLE
Lab ID: 304310-010
Diln Fac: 2.040
Sampled: 10/18/18

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,000	ND	0.20
Carbon Monoxide	ND	2,000	ND	0.20
Carbon Dioxide	100,000	2,000	10	0.20
Oxygen	28,000	2,000	2.8	0.20
Methane	8,200	2,000	0.82	0.20

Type: BLANK
Lab ID: QC952350
Diln Fac: 1.000

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	1,000	ND	0.10
Carbon Monoxide	ND	1,000	ND	0.10
Carbon Dioxide	ND	1,000	ND	0.10
Oxygen	ND	1,000	ND	0.10
Methane	ND	1,000	ND	0.10

ND= Not Detected
RL= Reporting Limit
Result Mol %= Result in Mole Percent

Batch QC Report

Fixed Gas Analysis

Lab #:	304310	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Matrix:	Air	Batch#:	264678
Units:	ppmv	Analyzed:	10/19/18
Diln Fac:	1.000		

Type: BS

Lab ID: QC952347

Analyte	Spiked	Result	%REC	Limits
Helium	100,000	82,400	82	70-130
Carbon Monoxide		NA		
Carbon Dioxide		NA		
Oxygen		NA		
Methane		NA		

Type: BSD

Lab ID: QC952348

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Helium	100,000	82,450	82	70-130	0	20
Carbon Monoxide		NA				
Carbon Dioxide		NA				
Oxygen		NA				
Methane		NA				

NA= Not Analyzed

RPD= Relative Percent Difference

Batch QC Report

Fixed Gas Analysis

Lab #:	304310	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC952349	Batch#:	264678
Matrix:	Air	Analyzed:	10/19/18
Units:	ppmv		

Analyte	Spiked	Result	%REC	Limits
Helium		NA		
Carbon Monoxide	2,000	1,849	92	70-130
Carbon Dioxide	2,000	1,839	92	70-130
Oxygen	2,000	1,828	91	70-130
Methane	2,000	1,867	93	70-130

NA= Not Analyzed

Batch QC Report

Fixed Gas Analysis

Lab #:	304310	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Field ID:	SG-14	Units (Mol %):	MOL %
Type:	SDUP	Diln Fac:	2.040
MSS Lab ID:	304310-010	Batch#:	264678
Lab ID:	QC952351	Sampled:	10/18/18
Matrix:	Air	Received:	10/18/18
Units:	ppmv	Analyzed:	10/19/18

Analyte	MSS Result	Result	RL	Result (Mol %)	RL	RPD	Lim
Helium	<2,040	ND	2,040	ND	0.2040	NC	30
Carbon Monoxide	<2,040	ND	2,040	ND	0.2040	NC	30
Carbon Dioxide	103,600	103,700	2,040	10.37	0.2040	0	30
Oxygen	28,030	28,000	2,040	2.800	0.2040	0	20
Methane	8,242	8,267	2,040	0.8267	0.2040	0	30

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit
RPD= Relative Percent Difference
Result Mol %= Result in Mole Percent

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1812906

Report Created for: P & D Environmental

55 Santa Clara Ave, Ste.240
Oakland, CA 94610

Project Contact: Paul King
Project P.O.:
Project: 0772; The Phoenix

Project Received: 12/17/2018

Analytical Report reviewed & approved for release on 12/27/2018 by:

Christine Askari
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

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CA ELAP 1644 ♦ NELAP 4033 ORELAP

Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: 0772; The Phoenix
WorkOrder: 1812906

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 μm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Glossary of Terms & Qualifier Definitions

Client:	P & D Environmental
Project:	0772; The Phoenix
WorkOrder:	1812906

Analytical Qualifiers

j1	See attached narrative

Quality Control Qualifiers

F2	LCS/LCSD recovery and/or RPD/RSD is out of acceptance criteria.

Case Narrative

Client: P & D Environmental
Project: 0772; The Phoenix

Work Order: 1812906
December 27, 2018

j1:

TO-15 ANALYSIS

All summa canisters are EVACUATED 5 days after the reporting of the results. Please call or email if a longer retention time is required.

Polymer (Tedlar) bags are not recommended for TO15 samples. The disadvantages are listed in Appendix B of the DTSC Active Soil Gas Advisory of July 2015.

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	ASTM D 1946-90
Date Prepared:	12/21/18	**Analytical Method:**	ASTM D 1946-90
Project:	0772; The Phoenix	**Unit:**	%

Atmospheric Gases

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 15	**1812906-001A**	**SoilGas**	**12/15/2018 20:49**	**GC26 1221180708.D**	**170426**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.63	**25.28**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Oxygen	**15**	0.40	1	12/21/2018 08:40

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 16	**1812906-002A**	**SoilGas**	**12/15/2018 22:07**	**GC26 1221180710.D**	**170426**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.75	**24.48**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Oxygen	**18**	0.40	1	12/21/2018 09:03

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 17	**1812906-003A**	**SoilGas**	**12/15/2018 23:25**	**GC26 1221180712.D**	**170426**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.23	**24.46**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Oxygen	**17**	0.40	1	12/21/2018 09:24

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	ASTM D 1946-90
Date Prepared:	12/21/18	**Analytical Method:**	ASTM D 1946-90
Project:	0772; The Phoenix	**Unit:**	%

Atmospheric Gases

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 20	**1812906-004A**	**SoilGas**	**12/15/2018 18:59**	**GC26 1221180714.D**	**170426**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.72	**29.35**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Oxygen	**18**	0.40	1	12/21/2018 09:47

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 20 DUP	**1812906-005A**	**SoilGas**	**12/15/2018 18:59**	**GC26 1221180716.D**	**170426**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.57	**29.13**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Oxygen	**18**	0.40	1	12/21/2018 10:08

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	ASTM D 1946-90
Date Prepared:	12/20/18	**Analytical Method:**	ASTM D 1946-90
Project:	0772; The Phoenix	**Unit:**	%

Helium

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 15	**1812906-001A**	**SoilGas**	**12/15/2018 20:49**	**GC26 1220180224.D**	**170417**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.63	**25.28**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Helium	ND	0.050	1	12/20/2018 17:42

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 16	**1812906-002A**	**SoilGas**	**12/15/2018 22:07**	**GC26 1220180226.D**	**170417**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.75	**24.48**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Helium	ND	0.050	1	12/20/2018 17:55

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 17	**1812906-003A**	**SoilGas**	**12/15/2018 23:25**	**GC26 1220180228.D**	**170417**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.23	**24.46**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Helium	ND	0.050	1	12/20/2018 18:08

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	ASTM D 1946-90
Date Prepared:	12/20/18	**Analytical Method:**	ASTM D 1946-90
Project:	0772; The Phoenix	**Unit:**	%

Helium

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 20	**1812906-004A**	**SoilGas**	**12/15/2018 18:59**	**GC26 1220180230.D**	**170417**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.72	**29.35**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Helium	ND	0.050	1	12/20/2018 18:20

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 20 DUP	**1812906-005A**	**SoilGas**	**12/15/2018 18:59**	**GC26 1220180232.D**	**170417**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.57	**29.13**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Helium	ND	0.050	1	12/20/2018 18:33

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	ASTM D 1946-90
Date Prepared:	12/21/18	**Analytical Method:**	ASTM D 1946-90
Project:	0772; The Phoenix	**Unit:**	%

Light Gases

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 15	**1812906-001A**	**SoilGas**	**12/15/2018 20:49**	**GC26 1221180106.D**	**170623**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.63	**25.28**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	**5.1**	0.080	20	12/21/2018 14:01

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 16	**1812906-002A**	**SoilGas**	**12/15/2018 22:07**	**GC26 1221180108.D**	**170623**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.75	**24.48**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	**0.82**	0.080	20	12/21/2018 14:24

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 17	**1812906-003A**	**SoilGas**	**12/15/2018 23:25**	**GC26 1221180110.D**	**170623**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.23	**24.46**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	**0.99**	0.080	20	12/21/2018 14:45

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	ASTM D 1946-90
Date Prepared:	12/21/18	**Analytical Method:**	ASTM D 1946-90
Project:	0772; The Phoenix	**Unit:**	%

Light Gases

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 20	**1812906-004A**	**SoilGas**	**12/15/2018 18:59**	**GC26 1221180112.D**	**170623**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.72	**29.35**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	**2.6**	0.080	20	12/21/2018 15:06

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 20 DUP	**1812906-005A**	**SoilGas**	**12/15/2018 18:59**	**GC26 1221180114.D**	**170623**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.57	**29.13**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	**2.5**	0.080	20	12/21/2018 15:27

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 15	**1812906-001A**	**SoilGas**	**12/15/2018 20:49**	**GC24 12211827.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.63	**25.28**	**AK**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	12/22/2018 10:18
Acrolein	ND	5.8	1	12/22/2018 10:18
Acrylonitrile	ND	1.1	1	12/22/2018 10:18
tert-Amyl methyl ether (TAME)	ND	2.1	1	12/22/2018 10:18
Benzene	ND	1.6	1	12/22/2018 10:18
Benzyl chloride	ND	2.6	1	12/22/2018 10:18
Bromodichloromethane	ND	3.5	1	12/22/2018 10:18
Bromoform	ND	5.2	1	12/22/2018 10:18
Bromomethane	ND	2.0	1	12/22/2018 10:18
1,3-Butadiene	ND	1.1	1	12/22/2018 10:18
2-Butanone (MEK)	ND	75	1	12/22/2018 10:18
t-Butyl alcohol (TBA)	ND	31	1	12/22/2018 10:18
Carbon Disulfide	**4.2**	1.6	1	12/22/2018 10:18
Carbon Tetrachloride	ND	3.2	1	12/22/2018 10:18
Chlorobenzene	ND	2.4	1	12/22/2018 10:18
Chloroethane	ND	1.3	1	12/22/2018 10:18
Chloroform	ND	2.4	1	12/22/2018 10:18
Chloromethane	ND	1.0	1	12/22/2018 10:18
Cyclohexane	ND	18	1	12/22/2018 10:18
Dibromochloromethane	ND	4.4	1	12/22/2018 10:18
1,2-Dibromo-3-chloropropane	ND	0.12	1	12/22/2018 10:18
1,2-Dibromoethane (EDB)	ND	3.9	1	12/22/2018 10:18
1,2-Dichlorobenzene	ND	3.0	1	12/22/2018 10:18
1,3-Dichlorobenzene	ND	3.0	1	12/22/2018 10:18
1,4-Dichlorobenzene	ND	3.0	1	12/22/2018 10:18
Dichlorodifluoromethane	ND	2.5	1	12/22/2018 10:18
1,1-Dichloroethane	ND	2.0	1	12/22/2018 10:18
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	12/22/2018 10:18
1,1-Dichloroethene	ND	2.0	1	12/22/2018 10:18
cis-1,2-Dichloroethene	ND	2.0	1	12/22/2018 10:18
trans-1,2-Dichloroethene	ND	2.0	1	12/22/2018 10:18
1,2-Dichloropropane	ND	2.4	1	12/22/2018 10:18
cis-1,3-Dichloropropene	ND	2.3	1	12/22/2018 10:18
trans-1,3-Dichloropropene	ND	2.3	1	12/22/2018 10:18

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 15	**1812906-001A**	**SoilGas**	**12/15/2018 20:49**	**GC24 12211827.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.63	**25.28**	**AK**

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	12/22/2018 10:18
Diisopropyl ether (DIPE)	ND	2.1	1	12/22/2018 10:18
1,4-Dioxane	ND	1.8	1	12/22/2018 10:18
Ethanol	ND	96	1	12/22/2018 10:18
Ethyl acetate	ND	1.8	1	12/22/2018 10:18
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	12/22/2018 10:18
Ethylbenzene	ND	2.2	1	12/22/2018 10:18
4-Ethyltoluene	ND	2.5	1	12/22/2018 10:18
Freon 113	ND	3.9	1	12/22/2018 10:18
Heptane	ND	21	1	12/22/2018 10:18
Hexachlorobutadiene	ND	5.4	1	12/22/2018 10:18
Hexane	ND	18	1	12/22/2018 10:18
2-Hexanone	ND	2.1	1	12/22/2018 10:18
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	12/22/2018 10:18
Methyl-t-butyl ether (MTBE)	ND	1.8	1	12/22/2018 10:18
Methylene chloride	ND	8.8	1	12/22/2018 10:18
Methyl methacrylate	ND	2.1	1	12/22/2018 10:18
Naphthalene	ND	5.3	1	12/22/2018 10:18
Propene	ND	88	1	12/22/2018 10:18
Styrene	ND	2.2	1	12/22/2018 10:18
1,1,1,2-Tetrachloroethane	ND	3.5	1	12/22/2018 10:18
1,1,2,2-Tetrachloroethane	ND	3.5	1	12/22/2018 10:18
Tetrachloroethene	ND	3.4	1	12/22/2018 10:18
Tetrahydrofuran	ND	3.0	1	12/22/2018 10:18
Toluene	ND	1.9	1	12/22/2018 10:18
1,2,4-Trichlorobenzene	ND	3.8	1	12/22/2018 10:18
1,1,1-Trichloroethane	ND	2.8	1	12/22/2018 10:18
1,1,2-Trichloroethane	ND	2.8	1	12/22/2018 10:18
Trichloroethene	ND	2.8	1	12/22/2018 10:18
Trichlorofluoromethane	ND	2.8	1	12/22/2018 10:18
1,2,4-Trimethylbenzene	ND	2.5	1	12/22/2018 10:18
1,3,5-Trimethylbenzene	ND	2.5	1	12/22/2018 10:18
Vinyl Acetate	ND	18	1	12/22/2018 10:18
Vinyl Chloride	ND	1.3	1	12/22/2018 10:18

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 15	**1812906-001A**	**SoilGas**	**12/15/2018 20:49**	**GC24 12211827.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.63	**25.28**	**AK**

Analytes	Result	RL	DF	Date Analyzed
m,p-Xylene	ND	4.4	1	12/22/2018 10:18
o-Xylene	ND	2.2	1	12/22/2018 10:18
Xylenes, Total	ND	2.2	1	12/22/2018 10:18

Surrogates	REC (%)	Limits	
1,2-DCA-d4	89	70-130	12/22/2018 10:18
Toluene-d8	99	70-130	12/22/2018 10:18
4-BFB	99	70-130	12/22/2018 10:18

Analytical Comments: j1

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 16	**1812906-002A**	**SoilGas**	**12/15/2018 22:07**	**GC24 12211828.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.75	**24.48**	**AK**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	12/22/2018 10:59
Acrolein	ND	5.8	1	12/22/2018 10:59
Acrylonitrile	ND	1.1	1	12/22/2018 10:59
tert-Amyl methyl ether (TAME)	ND	2.1	1	12/22/2018 10:59
Benzene	ND	1.6	1	12/22/2018 10:59
Benzyl chloride	ND	2.6	1	12/22/2018 10:59
Bromodichloromethane	ND	3.5	1	12/22/2018 10:59
Bromoform	ND	5.2	1	12/22/2018 10:59
Bromomethane	ND	2.0	1	12/22/2018 10:59
1,3-Butadiene	ND	1.1	1	12/22/2018 10:59
2-Butanone (MEK)	ND	75	1	12/22/2018 10:59
t-Butyl alcohol (TBA)	ND	31	1	12/22/2018 10:59
Carbon Disulfide	ND	1.6	1	12/22/2018 10:59
Carbon Tetrachloride	ND	3.2	1	12/22/2018 10:59
Chlorobenzene	ND	2.4	1	12/22/2018 10:59
Chloroethane	ND	1.3	1	12/22/2018 10:59
Chloroform	ND	2.4	1	12/22/2018 10:59
Chloromethane	ND	1.0	1	12/22/2018 10:59
Cyclohexane	ND	18	1	12/22/2018 10:59
Dibromochloromethane	ND	4.4	1	12/22/2018 10:59
1,2-Dibromo-3-chloropropane	ND	0.12	1	12/22/2018 10:59
1,2-Dibromoethane (EDB)	ND	3.9	1	12/22/2018 10:59
1,2-Dichlorobenzene	ND	3.0	1	12/22/2018 10:59
1,3-Dichlorobenzene	ND	3.0	1	12/22/2018 10:59
1,4-Dichlorobenzene	ND	3.0	1	12/22/2018 10:59
Dichlorodifluoromethane	ND	2.5	1	12/22/2018 10:59
1,1-Dichloroethane	ND	2.0	1	12/22/2018 10:59
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	12/22/2018 10:59
1,1-Dichloroethene	ND	2.0	1	12/22/2018 10:59
cis-1,2-Dichloroethene	ND	2.0	1	12/22/2018 10:59
trans-1,2-Dichloroethene	ND	2.0	1	12/22/2018 10:59
1,2-Dichloropropane	ND	2.4	1	12/22/2018 10:59
cis-1,3-Dichloropropene	ND	2.3	1	12/22/2018 10:59
trans-1,3-Dichloropropene	ND	2.3	1	12/22/2018 10:59

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 16	**1812906-002A**	**SoilGas**	**12/15/2018 22:07**	**GC24 12211828.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.75	**24.48**	**AK**

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	12/22/2018 10:59
Diisopropyl ether (DIPE)	ND	2.1	1	12/22/2018 10:59
1,4-Dioxane	ND	1.8	1	12/22/2018 10:59
Ethanol	ND	96	1	12/22/2018 10:59
Ethyl acetate	ND	1.8	1	12/22/2018 10:59
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	12/22/2018 10:59
Ethylbenzene	ND	2.2	1	12/22/2018 10:59
4-Ethyltoluene	ND	2.5	1	12/22/2018 10:59
Freon 113	ND	3.9	1	12/22/2018 10:59
Heptane	ND	21	1	12/22/2018 10:59
Hexachlorobutadiene	ND	5.4	1	12/22/2018 10:59
Hexane	ND	18	1	12/22/2018 10:59
2-Hexanone	ND	2.1	1	12/22/2018 10:59
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	12/22/2018 10:59
Methyl-t-butyl ether (MTBE)	ND	1.8	1	12/22/2018 10:59
Methylene chloride	ND	8.8	1	12/22/2018 10:59
Methyl methacrylate	ND	2.1	1	12/22/2018 10:59
Naphthalene	ND	5.3	1	12/22/2018 10:59
Propene	ND	88	1	12/22/2018 10:59
Styrene	ND	2.2	1	12/22/2018 10:59
1,1,1,2-Tetrachloroethane	ND	3.5	1	12/22/2018 10:59
1,1,2,2-Tetrachloroethane	ND	3.5	1	12/22/2018 10:59
Tetrachloroethene	ND	3.4	1	12/22/2018 10:59
Tetrahydrofuran	ND	3.0	1	12/22/2018 10:59
Toluene	ND	1.9	1	12/22/2018 10:59
1,2,4-Trichlorobenzene	ND	3.8	1	12/22/2018 10:59
1,1,1-Trichloroethane	ND	2.8	1	12/22/2018 10:59
1,1,2-Trichloroethane	ND	2.8	1	12/22/2018 10:59
Trichloroethene	ND	2.8	1	12/22/2018 10:59
Trichlorofluoromethane	ND	2.8	1	12/22/2018 10:59
1,2,4-Trimethylbenzene	ND	2.5	1	12/22/2018 10:59
1,3,5-Trimethylbenzene	ND	2.5	1	12/22/2018 10:59
Vinyl Acetate	ND	18	1	12/22/2018 10:59
Vinyl Chloride	ND	1.3	1	12/22/2018 10:59

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 16	**1812906-002A**	**SoilGas**	**12/15/2018 22:07**	**GC24 12211828.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.75	**24.48**	**AK**

Analytes	Result	RL	DF	Date Analyzed
m,p-Xylene	ND	4.4	1	12/22/2018 10:59
o-Xylene	ND	2.2	1	12/22/2018 10:59
Xylenes, Total	ND	2.2	1	12/22/2018 10:59

Surrogates	REC (%)	Limits	
1,2-DCA-d4	91	70-130	12/22/2018 10:59
Toluene-d8	100	70-130	12/22/2018 10:59
4-BFB	99	70-130	12/22/2018 10:59

Analytical Comments: j1

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 17	**1812906-003A**	**SoilGas**	**12/15/2018 23:25**	**GC24 12211829.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.23	**24.46**	**AK**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	12/22/2018 11:39
Acrolein	ND	5.8	1	12/22/2018 11:39
Acrylonitrile	ND	1.1	1	12/22/2018 11:39
tert-Amyl methyl ether (TAME)	ND	2.1	1	12/22/2018 11:39
Benzene	ND	1.6	1	12/22/2018 11:39
Benzyl chloride	ND	2.6	1	12/22/2018 11:39
Bromodichloromethane	ND	3.5	1	12/22/2018 11:39
Bromoform	ND	5.2	1	12/22/2018 11:39
Bromomethane	ND	2.0	1	12/22/2018 11:39
1,3-Butadiene	ND	1.1	1	12/22/2018 11:39
2-Butanone (MEK)	ND	75	1	12/22/2018 11:39
t-Butyl alcohol (TBA)	ND	31	1	12/22/2018 11:39
Carbon Disulfide	ND	1.6	1	12/22/2018 11:39
Carbon Tetrachloride	ND	3.2	1	12/22/2018 11:39
Chlorobenzene	ND	2.4	1	12/22/2018 11:39
Chloroethane	ND	1.3	1	12/22/2018 11:39
Chloroform	**20**	2.4	1	12/22/2018 11:39
Chloromethane	ND	1.0	1	12/22/2018 11:39
Cyclohexane	ND	18	1	12/22/2018 11:39
Dibromochloromethane	ND	4.4	1	12/22/2018 11:39
1,2-Dibromo-3-chloropropane	ND	0.12	1	12/22/2018 11:39
1,2-Dibromoethane (EDB)	ND	3.9	1	12/22/2018 11:39
1,2-Dichlorobenzene	ND	3.0	1	12/22/2018 11:39
1,3-Dichlorobenzene	ND	3.0	1	12/22/2018 11:39
1,4-Dichlorobenzene	ND	3.0	1	12/22/2018 11:39
Dichlorodifluoromethane	**2.6**	2.5	1	12/22/2018 11:39
1,1-Dichloroethane	ND	2.0	1	12/22/2018 11:39
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	12/22/2018 11:39
1,1-Dichloroethene	ND	2.0	1	12/22/2018 11:39
cis-1,2-Dichloroethene	ND	2.0	1	12/22/2018 11:39
trans-1,2-Dichloroethene	ND	2.0	1	12/22/2018 11:39
1,2-Dichloropropane	ND	2.4	1	12/22/2018 11:39
cis-1,3-Dichloropropene	ND	2.3	1	12/22/2018 11:39
trans-1,3-Dichloropropene	ND	2.3	1	12/22/2018 11:39

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 17	1812906-003A	SoilGas	12/15/2018 23:25	GC24 12211829.D	170549

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.23	24.46	AK

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	12/22/2018 11:39
Diisopropyl ether (DIPE)	ND	2.1	1	12/22/2018 11:39
1,4-Dioxane	ND	1.8	1	12/22/2018 11:39
Ethanol	ND	96	1	12/22/2018 11:39
Ethyl acetate	ND	1.8	1	12/22/2018 11:39
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	12/22/2018 11:39
Ethylbenzene	ND	2.2	1	12/22/2018 11:39
4-Ethyltoluene	ND	2.5	1	12/22/2018 11:39
Freon 113	ND	3.9	1	12/22/2018 11:39
Heptane	ND	21	1	12/22/2018 11:39
Hexachlorobutadiene	ND	5.4	1	12/22/2018 11:39
Hexane	**60**	18	1	12/22/2018 11:39
2-Hexanone	ND	2.1	1	12/22/2018 11:39
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	12/22/2018 11:39
Methyl-t-butyl ether (MTBE)	ND	1.8	1	12/22/2018 11:39
Methylene chloride	ND	8.8	1	12/22/2018 11:39
Methyl methacrylate	ND	2.1	1	12/22/2018 11:39
Naphthalene	ND	5.3	1	12/22/2018 11:39
Propene	ND	88	1	12/22/2018 11:39
Styrene	ND	2.2	1	12/22/2018 11:39
1,1,1,2-Tetrachloroethane	ND	3.5	1	12/22/2018 11:39
1,1,2,2-Tetrachloroethane	ND	3.5	1	12/22/2018 11:39
Tetrachloroethene	ND	3.4	1	12/22/2018 11:39
Tetrahydrofuran	ND	3.0	1	12/22/2018 11:39
Toluene	ND	1.9	1	12/22/2018 11:39
1,2,4-Trichlorobenzene	ND	3.8	1	12/22/2018 11:39
1,1,1-Trichloroethane	ND	2.8	1	12/22/2018 11:39
1,1,2-Trichloroethane	ND	2.8	1	12/22/2018 11:39
Trichloroethene	ND	2.8	1	12/22/2018 11:39
Trichlorofluoromethane	ND	2.8	1	12/22/2018 11:39
1,2,4-Trimethylbenzene	ND	2.5	1	12/22/2018 11:39
1,3,5-Trimethylbenzene	ND	2.5	1	12/22/2018 11:39
Vinyl Acetate	ND	18	1	12/22/2018 11:39
Vinyl Chloride	ND	1.3	1	12/22/2018 11:39

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 17	**1812906-003A**	**SoilGas**	**12/15/2018 23:25**	**GC24 12211829.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.23	**24.46**	**AK**

Analytes	Result	RL	DF	Date Analyzed
m,p-Xylene	ND	4.4	1	12/22/2018 11:39
o-Xylene	ND	2.2	1	12/22/2018 11:39
Xylenes, Total	ND	2.2	1	12/22/2018 11:39

Surrogates	REC (%)	Limits	
1,2-DCA-d4	92	70-130	12/22/2018 11:39
Toluene-d8	100	70-130	12/22/2018 11:39
4-BFB	99	70-130	12/22/2018 11:39

Analytical Comments: j1

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 20	**1812906-004A**	**SoilGas**	**12/15/2018 18:59**	**GC24 12211830.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.72	**29.35**	**AK**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	12/22/2018 12:20
Acrolein	ND	5.8	1	12/22/2018 12:20
Acrylonitrile	ND	1.1	1	12/22/2018 12:20
tert-Amyl methyl ether (TAME)	ND	2.1	1	12/22/2018 12:20
Benzene	ND	1.6	1	12/22/2018 12:20
Benzyl chloride	ND	2.6	1	12/22/2018 12:20
Bromodichloromethane	ND	3.5	1	12/22/2018 12:20
Bromoform	ND	5.2	1	12/22/2018 12:20
Bromomethane	ND	2.0	1	12/22/2018 12:20
1,3-Butadiene	ND	1.1	1	12/22/2018 12:20
2-Butanone (MEK)	ND	75	1	12/22/2018 12:20
t-Butyl alcohol (TBA)	ND	31	1	12/22/2018 12:20
Carbon Disulfide	ND	1.6	1	12/22/2018 12:20
Carbon Tetrachloride	ND	3.2	1	12/22/2018 12:20
Chlorobenzene	ND	2.4	1	12/22/2018 12:20
Chloroethane	ND	1.3	1	12/22/2018 12:20
Chloroform	ND	2.4	1	12/22/2018 12:20
Chloromethane	ND	1.0	1	12/22/2018 12:20
Cyclohexane	ND	18	1	12/22/2018 12:20
Dibromochloromethane	ND	4.4	1	12/22/2018 12:20
1,2-Dibromo-3-chloropropane	ND	0.12	1	12/22/2018 12:20
1,2-Dibromoethane (EDB)	ND	3.9	1	12/22/2018 12:20
1,2-Dichlorobenzene	ND	3.0	1	12/22/2018 12:20
1,3-Dichlorobenzene	ND	3.0	1	12/22/2018 12:20
1,4-Dichlorobenzene	ND	3.0	1	12/22/2018 12:20
Dichlorodifluoromethane	ND	2.5	1	12/22/2018 12:20
1,1-Dichloroethane	ND	2.0	1	12/22/2018 12:20
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	12/22/2018 12:20
1,1-Dichloroethene	ND	2.0	1	12/22/2018 12:20
cis-1,2-Dichloroethene	ND	2.0	1	12/22/2018 12:20
trans-1,2-Dichloroethene	ND	2.0	1	12/22/2018 12:20
1,2-Dichloropropane	ND	2.4	1	12/22/2018 12:20
cis-1,3-Dichloropropene	ND	2.3	1	12/22/2018 12:20
trans-1,3-Dichloropropene	ND	2.3	1	12/22/2018 12:20

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 20	**1812906-004A**	**SoilGas**	**12/15/2018 18:59**	**GC24 12211830.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.72	**29.35**	**AK**

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	12/22/2018 12:20
Diisopropyl ether (DIPE)	ND	2.1	1	12/22/2018 12:20
1,4-Dioxane	ND	1.8	1	12/22/2018 12:20
Ethanol	ND	96	1	12/22/2018 12:20
Ethyl acetate	ND	1.8	1	12/22/2018 12:20
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	12/22/2018 12:20
Ethylbenzene	ND	2.2	1	12/22/2018 12:20
4-Ethyltoluene	ND	2.5	1	12/22/2018 12:20
Freon 113	ND	3.9	1	12/22/2018 12:20
Heptane	ND	21	1	12/22/2018 12:20
Hexachlorobutadiene	ND	5.4	1	12/22/2018 12:20
Hexane	ND	18	1	12/22/2018 12:20
2-Hexanone	ND	2.1	1	12/22/2018 12:20
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	12/22/2018 12:20
Methyl-t-butyl ether (MTBE)	ND	1.8	1	12/22/2018 12:20
Methylene chloride	ND	8.8	1	12/22/2018 12:20
Methyl methacrylate	ND	2.1	1	12/22/2018 12:20
Naphthalene	ND	5.3	1	12/22/2018 12:20
Propene	ND	88	1	12/22/2018 12:20
Styrene	ND	2.2	1	12/22/2018 12:20
1,1,1,2-Tetrachloroethane	ND	3.5	1	12/22/2018 12:20
1,1,2,2-Tetrachloroethane	ND	3.5	1	12/22/2018 12:20
Tetrachloroethene	ND	3.4	1	12/22/2018 12:20
Tetrahydrofuran	ND	3.0	1	12/22/2018 12:20
Toluene	ND	1.9	1	12/22/2018 12:20
1,2,4-Trichlorobenzene	ND	3.8	1	12/22/2018 12:20
1,1,1-Trichloroethane	ND	2.8	1	12/22/2018 12:20
1,1,2-Trichloroethane	ND	2.8	1	12/22/2018 12:20
Trichloroethene	ND	2.8	1	12/22/2018 12:20
Trichlorofluoromethane	ND	2.8	1	12/22/2018 12:20
1,2,4-Trimethylbenzene	ND	2.5	1	12/22/2018 12:20
1,3,5-Trimethylbenzene	ND	2.5	1	12/22/2018 12:20
Vinyl Acetate	ND	18	1	12/22/2018 12:20
Vinyl Chloride	ND	1.3	1	12/22/2018 12:20

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 20	**1812906-004A**	**SoilGas**	**12/15/2018 18:59**	**GC24 12211830.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.72	**29.35**	**AK**

Analytes	Result	RL	DF	Date Analyzed
m,p-Xylene	ND	4.4	1	12/22/2018 12:20
o-Xylene	ND	2.2	1	12/22/2018 12:20
Xylenes, Total	ND	2.2	1	12/22/2018 12:20

Surrogates	REC (%)	Limits	
1,2-DCA-d4	92	70-130	12/22/2018 12:20
Toluene-d8	100	70-130	12/22/2018 12:20
4-BFB	99	70-130	12/22/2018 12:20

Analytical Comments: j1

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 20 DUP	**1812906-005A**	**SoilGas**	**12/15/2018 18:59**	**GC24 12211826.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.57	**29.13**	**AK**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	12/22/2018 09:38
Acrolein	ND	5.8	1	12/22/2018 09:38
Acrylonitrile	ND	1.1	1	12/22/2018 09:38
tert-Amyl methyl ether (TAME)	ND	2.1	1	12/22/2018 09:38
Benzene	ND	1.6	1	12/22/2018 09:38
Benzyl chloride	ND	2.6	1	12/22/2018 09:38
Bromodichloromethane	ND	3.5	1	12/22/2018 09:38
Bromoform	ND	5.2	1	12/22/2018 09:38
Bromomethane	ND	2.0	1	12/22/2018 09:38
1,3-Butadiene	ND	1.1	1	12/22/2018 09:38
2-Butanone (MEK)	ND	75	1	12/22/2018 09:38
t-Butyl alcohol (TBA)	ND	31	1	12/22/2018 09:38
Carbon Disulfide	ND	1.6	1	12/22/2018 09:38
Carbon Tetrachloride	ND	3.2	1	12/22/2018 09:38
Chlorobenzene	ND	2.4	1	12/22/2018 09:38
Chloroethane	ND	1.3	1	12/22/2018 09:38
Chloroform	ND	2.4	1	12/22/2018 09:38
Chloromethane	ND	1.0	1	12/22/2018 09:38
Cyclohexane	ND	18	1	12/22/2018 09:38
Dibromochloromethane	ND	4.4	1	12/22/2018 09:38
1,2-Dibromo-3-chloropropane	ND	0.12	1	12/22/2018 09:38
1,2-Dibromoethane (EDB)	ND	3.9	1	12/22/2018 09:38
1,2-Dichlorobenzene	ND	3.0	1	12/22/2018 09:38
1,3-Dichlorobenzene	ND	3.0	1	12/22/2018 09:38
1,4-Dichlorobenzene	ND	3.0	1	12/22/2018 09:38
Dichlorodifluoromethane	ND	2.5	1	12/22/2018 09:38
1,1-Dichloroethane	ND	2.0	1	12/22/2018 09:38
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	12/22/2018 09:38
1,1-Dichloroethene	ND	2.0	1	12/22/2018 09:38
cis-1,2-Dichloroethene	ND	2.0	1	12/22/2018 09:38
trans-1,2-Dichloroethene	ND	2.0	1	12/22/2018 09:38
1,2-Dichloropropane	ND	2.4	1	12/22/2018 09:38
cis-1,3-Dichloropropene	ND	2.3	1	12/22/2018 09:38
trans-1,3-Dichloropropene	ND	2.3	1	12/22/2018 09:38

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 20 DUP	**1812906-005A**	**SoilGas**	**12/15/2018 18:59**	**GC24 12211826.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.57	**29.13**	**AK**

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	12/22/2018 09:38
Diisopropyl ether (DIPE)	ND	2.1	1	12/22/2018 09:38
1,4-Dioxane	ND	1.8	1	12/22/2018 09:38
Ethanol	ND	96	1	12/22/2018 09:38
Ethyl acetate	ND	1.8	1	12/22/2018 09:38
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	12/22/2018 09:38
Ethylbenzene	ND	2.2	1	12/22/2018 09:38
4-Ethyltoluene	ND	2.5	1	12/22/2018 09:38
Freon 113	ND	3.9	1	12/22/2018 09:38
Heptane	ND	21	1	12/22/2018 09:38
Hexachlorobutadiene	ND	5.4	1	12/22/2018 09:38
Hexane	ND	18	1	12/22/2018 09:38
2-Hexanone	ND	2.1	1	12/22/2018 09:38
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	12/22/2018 09:38
Methyl-t-butyl ether (MTBE)	ND	1.8	1	12/22/2018 09:38
Methylene chloride	ND	8.8	1	12/22/2018 09:38
Methyl methacrylate	ND	2.1	1	12/22/2018 09:38
Naphthalene	ND	5.3	1	12/22/2018 09:38
Propene	ND	88	1	12/22/2018 09:38
Styrene	ND	2.2	1	12/22/2018 09:38
1,1,1,2-Tetrachloroethane	ND	3.5	1	12/22/2018 09:38
1,1,2,2-Tetrachloroethane	ND	3.5	1	12/22/2018 09:38
Tetrachloroethene	ND	3.4	1	12/22/2018 09:38
Tetrahydrofuran	ND	3.0	1	12/22/2018 09:38
Toluene	ND	1.9	1	12/22/2018 09:38
1,2,4-Trichlorobenzene	ND	3.8	1	12/22/2018 09:38
1,1,1-Trichloroethane	ND	2.8	1	12/22/2018 09:38
1,1,2-Trichloroethane	ND	2.8	1	12/22/2018 09:38
Trichloroethene	ND	2.8	1	12/22/2018 09:38
Trichlorofluoromethane	ND	2.8	1	12/22/2018 09:38
1,2,4-Trimethylbenzene	ND	2.5	1	12/22/2018 09:38
1,3,5-Trimethylbenzene	ND	2.5	1	12/22/2018 09:38
Vinyl Acetate	ND	18	1	12/22/2018 09:38
Vinyl Chloride	ND	1.3	1	12/22/2018 09:38

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 20 DUP	**1812906-005A**	**SoilGas**	**12/15/2018 18:59**	**GC24 12211826.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.57	**29.13**	**AK**

Analytes	Result	RL	DF	Date Analyzed
m,p-Xylene	ND	4.4	1	12/22/2018 09:38
o-Xylene	ND	2.2	1	12/22/2018 09:38
Xylenes, Total	ND	2.2	1	12/22/2018 09:38

Surrogates	REC (%)	Limits	Date Analyzed
1,2-DCA-d4	89	70-130	12/22/2018 09:38
Toluene-d8	100	70-130	12/22/2018 09:38
4-BFB	100	70-130	12/22/2018 09:38

Analytical Comments: j1

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Prepared:	12/21/18	**BatchID:**	170426
Date Analyzed:	12/21/18	**Extraction Method:**	ASTM D 1946-90
Instrument:	GC26	**Analytical Method:**	ASTM D 1946-90
Matrix:	SoilGas	**Unit:**	%
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170426

QC Summary Report for ASTM D1946-90

Analyte	MB Result	RL			
Oxygen	ND	0.20	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Oxygen	1.9	1.9	2.1	89	88	70-130	0.558	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Prepared:	12/20/18	**BatchID:**	170417
Date Analyzed:	12/20/18	**Extraction Method:**	ASTM D 1946-90
Instrument:	GC26	**Analytical Method:**	ASTM D 1946-90
Matrix:	Soilgas	**Unit:**	%
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170417

QC Summary Report for ASTM D1946-90

Analyte	MB Result	RL			
Helium	ND	0.025	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Helium	0.11	0.11	0.10	106	107	60-140	0.466	20

Quality Control Report

Client: P & D Environmental
Date Prepared: 12/21/18
Date Analyzed: 12/21/18
Instrument: GC26
Matrix: SoilGas
Project: 0772; The Phoenix

WorkOrder: 1812906
BatchID: 170623
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: %
Sample ID: MB/LCS/LCSD-170623

QC Summary Report for ASTM D1946-90

Analyte	MB Result	RL			
Carbon Dioxide	ND	0.0020	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Carbon Dioxide	0.012	0.012	0.010	124	124	70-130	0	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Prepared:	12/21/18 - 12/22/18	**BatchID:**	170549
Date Analyzed:	12/21/18 - 12/22/18	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170549

QC Summary Report for TO15

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	30	-	-	-
Acrolein	ND	2.9	-	-	-
Acrylonitrile	ND	0.55	-	-	-
tert-Amyl methyl ether (TAME)	ND	1.0	-	-	-
Benzene	ND	0.80	-	-	-
Benzyl chloride	ND	1.3	-	-	-
Bromodichloromethane	ND	1.8	-	-	-
Bromoform	ND	2.6	-	-	-
Bromomethane	ND	1.0	-	-	-
1,3-Butadiene	ND	0.55	-	-	-
2-Butanone (MEK)	ND	38	-	-	-
t-Butyl alcohol (TBA)	ND	16	-	-	-
Carbon Disulfide	ND	0.80	-	-	-
Carbon Tetrachloride	ND	1.6	-	-	-
Chlorobenzene	ND	1.2	-	-	-
Chloroethane	ND	0.65	-	-	-
Chloroform	ND	1.2	-	-	-
Chloromethane	ND	0.50	-	-	-
Cyclohexane	ND	9.0	-	-	-
Dibromochloromethane	ND	2.2	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.060	-	-	-
1,2-Dibromoethane (EDB)	ND	2.0	-	-	-
1,2-Dichlorobenzene	ND	1.5	-	-	-
1,3-Dichlorobenzene	ND	1.5	-	-	-
1,4-Dichlorobenzene	ND	1.5	-	-	-
Dichlorodifluoromethane	ND	1.2	-	-	-
1,1-Dichloroethane	ND	1.0	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	1.0	-	-	-
1,1-Dichloroethene	ND	1.0	-	-	-
cis-1,2-Dichloroethene	ND	1.0	-	-	-
trans-1,2-Dichloroethene	ND	1.0	-	-	-
1,2-Dichloropropane	ND	1.2	-	-	-
cis-1,3-Dichloropropene	ND	1.2	-	-	-
trans-1,3-Dichloropropene	ND	1.2	-	-	-
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	1.8	-	-	-
Diisopropyl ether (DIPE)	ND	1.0	-	-	-
1,4-Dioxane	ND	0.90	-	-	-
Ethanol	ND	48	-	-	-

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Prepared:	12/21/18 - 12/22/18	**BatchID:**	170549
Date Analyzed:	12/21/18 - 12/22/18	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170549

QC Summary Report for TO15

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Ethyl acetate	ND	0.90	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	1.0	-	-	-
Ethylbenzene	ND	1.1	-	-	-
4-Ethyltoluene	ND	1.2	-	-	-
Freon 113	ND	2.0	-	-	-
Heptane	ND	10	-	-	-
Hexachlorobutadiene	ND	2.7	-	-	-
Hexane	ND	9.0	-	-	-
2-Hexanone	ND	1.0	-	-	-
Isopropyl Alcohol	ND	25	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	1.0	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.90	-	-	-
Methylene chloride	ND	4.4	-	-	-
Methyl methacrylate	ND	1.0	-	-	-
Naphthalene	ND	2.6	-	-	-
Propene	ND	44	-	-	-
Styrene	ND	1.1	-	-	-
1,1,1,2-Tetrachloroethane	ND	1.8	-	-	-
1,1,2,2-Tetrachloroethane	ND	1.8	-	-	-
Tetrachloroethene	ND	1.7	-	-	-
Tetrahydrofuran	ND	1.5	-	-	-
Toluene	ND	0.95	-	-	-
1,2,4-Trichlorobenzene	ND	1.9	-	-	-
1,1,1-Trichloroethane	ND	1.4	-	-	-
1,1,2-Trichloroethane	ND	1.4	-	-	-
Trichloroethene	ND	1.4	-	-	-
Trichlorofluoromethane	ND	1.4	-	-	-
1,2,4-Trimethylbenzene	ND	1.2	-	-	-
1,3,5-Trimethylbenzene	ND	1.2	-	-	-
Vinyl Acetate	ND	9.0	-	-	-
Vinyl Chloride	ND	0.65	-	-	-
m,p-Xylene	ND	2.2	-	-	-
o-Xylene	ND	1.1	-	-	-
Xylenes, Total	ND	1.1	-	-	-

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Prepared:	12/21/18 - 12/22/18	**BatchID:**	170549
Date Analyzed:	12/21/18 - 12/22/18	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170549

QC Summary Report for TO15

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery					
1,2-DCA-d4	430		500	86	70-130
Toluene-d8	500		500	100	70-130
4-BFB	490		500	99	70-130

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Prepared:	12/21/18 - 12/22/18	**BatchID:**	170549
Date Analyzed:	12/21/18 - 12/22/18	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170549

QC Summary Report for TO15

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	6.2	6.5	6	104	108	60-140	3.66	30
Acrolein	5.6	5.6	5.8	96	97	60-140	0.410	30
Acrylonitrile	5.4	5.1	5.5	98	94	60-140	4.35	30
tert-Amyl methyl ether (TAME)	10	10	10.5	95	97	60-140	1.55	30
Benzene	7.6	7.7	8	95	96	60-140	1.21	30
Benzyl chloride	7.6	7.7	13.3	57, F2	58, F2	60-140	1.75	30
Bromodichloromethane	15	15	17.5	85	88	60-140	3.37	30
Bromoform	22	22	26.3	83	83	60-140	0	30
Bromomethane	8.8	9.3	9.8	90	95	60-140	5.12	30
1,3-Butadiene	4.8	5.5	5.5	88	100	60-140	12.8	30
2-Butanone (MEK)	7.3	7.6	7.5	97	102	60-140	4.24	30
t-Butyl alcohol (TBA)	7.5	7.8	7.8	96	100	60-140	3.42	30
Carbon Disulfide	7.6	7.6	8	95	95	60-140	0	30
Carbon Tetrachloride	13	13	16	83	84	60-140	1.41	30
Chlorobenzene	12	12	11.8	100	101	60-140	0.921	30
Chloroethane	6.9	7.1	6.8	101	105	60-140	3.54	30
Chloroform	12	12	12.3	96	98	60-140	2.05	30
Chloromethane	5.2	5.4	5.3	98	102	60-140	3.73	30
Cyclohexane	8.8	9.0	8.8	100	103	60-140	2.17	30
Dibromochloromethane	19	20	21.8	89	90	60-140	1.59	30
1,2-Dibromo-3-chloropropane	22	22	24.5	88	88	60-140	0	30
1,2-Dibromoethane (EDB)	18	18	19.5	93	93	60-140	0	30
1,2-Dichlorobenzene	15	14	15.3	100	93	60-140	7.34	30
1,3-Dichlorobenzene	14	15	15.3	94	95	60-140	1.38	30
1,4-Dichlorobenzene	14	14	15.3	92	93	60-140	0.887	30
Dichlorodifluoromethane	13	13	12.5	102	103	60-140	1.18	30
1,1-Dichloroethane	9.8	10	10.3	95	98	60-140	3.09	30
1,2-Dichloroethane (1,2-DCA)	9.4	9.6	10.3	91	93	60-140	2.21	30
1,1-Dichloroethene	11	11	10	105	107	60-140	1.79	30
cis-1,2-Dichloroethene	9.8	10	10	98	102	60-140	3.45	30
trans-1,2-Dichloroethene	9.9	10	10	99	101	60-140	1.53	30
1,2-Dichloropropane	11	11	11.8	94	94	60-140	0	30
cis-1,3-Dichloropropene	9.8	10	11.5	86	87	60-140	1.22	30
trans-1,3-Dichloropropene	9.0	9.2	11.5	78	80	60-140	1.67	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane	18	19	17.8	103	106	60-140	2.66	30
Diisopropyl ether (DIPE)	11	12	10.5	108	110	60-140	1.92	30
1,4-Dioxane	8.2	8.3	9.3	89	90	60-140	1.22	30
Ethanol	4.7	5.0	4.8	98	105	60-140	6.62	30

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Prepared:	12/21/18 - 12/22/18	**BatchID:**	170549
Date Analyzed:	12/21/18 - 12/22/18	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170549

QC Summary Report for TO15

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Ethyl acetate	8.7	8.7	9.3	93	94	60-140	0.850	30
Ethyl tert-butyl ether (ETBE)	11	11	10.5	100	103	60-140	2.24	30
Ethylbenzene	10	10	11	94	94	60-140	0	30
4-Ethyltoluene	12	12	12.5	96	97	60-140	0.821	30
Freon 113	20	20	19.5	102	105	60-140	2.56	30
Heptane	10	10	10.5	95	97	60-140	1.77	30
Hexachlorobutadiene	24	25	27	91	92	60-140	1.23	30
Hexane	9.5	9.8	9	105	108	60-140	2.68	30
2-Hexanone	8.4	8.5	10.5	80	81	60-140	0.673	30
Isopropyl Alcohol	5.7	5.8	6.3	90	92	60-140	1.99	30
4-Methyl-2-pentanone (MIBK)	9.4	9.5	10.5	90	91	60-140	1.31	30
Methyl-t-butyl ether (MTBE)	8.9	9.0	9.3	96	97	60-140	1.46	30
Methylene chloride	8.7	8.9	8.8	99	101	60-140	2.28	30
Methyl methacrylate	9.0	9.0	10.4	86	86	60-140	0	30
Naphthalene	23	23	26.5	87	88	60-140	1.60	30
Propene	4.6	4.7	4.3	107	109	60-140	2.20	30
Styrene	9.3	9.5	10.8	86	88	60-140	2.26	30
1,1,1,2-Tetrachloroethane	16	16	17.5	93	94	60-140	0.851	30
1,1,2,2-Tetrachloroethane	16	16	17.5	93	94	60-140	1.30	30
Tetrachloroethene	17	17	17.2	98	99	60-140	0.732	30
Tetrahydrofuran	7.3	7.5	7.5	98	100	60-140	2.02	30
Toluene	9.2	9.3	9.5	97	98	60-140	1.29	30
1,2,4-Trichlorobenzene	16	16	18.8	85	86	60-140	1.04	30
1,1,1-Trichloroethane	12	12	13.8	87	89	60-140	2.01	30
1,1,2-Trichloroethane	13	13	13.8	95	97	60-140	1.71	30
Trichloroethene	13	13	13.8	96	97	60-140	1.55	30
Trichlorofluoromethane	14	14	14.3	98	100	60-140	2.32	30
1,2,4-Trimethylbenzene	12	12	12.5	95	96	60-140	1.36	30
1,3,5-Trimethylbenzene	12	12	12.5	97	99	60-140	2.03	30
Vinyl Acetate	8.4	8.4	9	93	94	60-140	0.111	30
Vinyl Chloride	5.1	5.5	6.5	79	85	60-140	6.74	30
m,p-Xylene	22	23	22	102	105	60-140	2.75	30
o-Xylene	11	11	11	98	98	60-140	0	30
Xylenes, Total	33	34	33	101	103	60-140	2.05	30

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Prepared:	12/21/18 - 12/22/18	**BatchID:**	170549
Date Analyzed:	12/21/18 - 12/22/18	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170549

QC Summary Report for TO15

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
1,2-DCA-d4	470	470	500	93	93	70-130	0	30
Toluene-d8	500	510	500	100	102	70-130	1.45	30
4-BFB	500	510	500	100	102	70-130	2.30	30

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1812906 **ClientCode: PDEO**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ▨ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
▨ Detection Summary ▨ Dry-Weight

Report to:
Paul King
P & D Environmental
55 Santa Clara Ave, Ste.240
Oakland, CA 94610
(510) 658-6916 FAX: 510-834-0152

Email: lab@pdenviro.com; Paul.King@pdenviro.c
cc/3rd Party:
PO:
Project: 0772; The Phoenix

Bill to:
Accounts Payable
P & D Environmental
55 Santa Clara Ave, Ste.240
Oakland, CA 94610

Requested TAT: **5 days;**

Date Received: **12/17/2018**
Date Logged: **12/18/2018**

					Requested Tests (See legend below)											
Lab ID	**Client ID**	**Matrix**	**Collection Date**	**Hold**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
1812906-001	SG 15	SoilGas	12/15/2018 20:49	☐	A	A	A	A	A							
1812906-002	SG 16	SoilGas	12/15/2018 22:07	☐	A	A	A	A	A							
1812906-003	SG 17	SoilGas	12/15/2018 23:25	☐	A	A	A	A	A							
1812906-004	SG 20	SoilGas	12/15/2018 18:59	☐	A	A	A	A	A							
1812906-005	SG 20 DUP	SoilGas	12/15/2018 18:59	☐	A	A	A	A	A							

Test Legend:

1	**ATMOSPHERICGAS_SG(%)**	**2**	**HELIUM_LC_SOILGAS(%)**	**3**	**LG_SUMMA_SOILGAS(%)**	**4**	**TO15_Scan-SIM_SOIL(UG/M3) [N]**
5	**TO15-8260_SOIL(UG/M3) [N]**	**6**		**7**		**8**	
9		**10**		**11**		**12**	

Prepared by: Kena Ponce

The following SampIDs: 001A, 002A, 003A, 004A, 005A contain testgroup TO15He_O2_CO2_SG.

Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL
Project: 0772; The Phoenix
Work Order: 1812906
Client Contact: Paul King
QC Level: LEVEL 2
Contact's Email: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Date Logged: 12/18/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1812906-001A	SG 15	SoilGas	TO15 w/ Helium, O2, CO2	1	1L Summa	☐	12/15/2018 20:49	5 days		☐	
1812906-002A	SG 16	SoilGas	TO15 w/ Helium, O2, CO2	1	1L Summa	☐	12/15/2018 22:07	5 days		☐	
1812906-003A	SG 17	SoilGas	TO15 w/ Helium, O2, CO2	1	1L Summa	☐	12/15/2018 23:25	5 days		☐	
1812906-004A	SG 20	SoilGas	TO15 w/ Helium, O2, CO2	1	1L Summa	☐	12/15/2018 18:59	5 days		☐	
1812906-005A	SG 20 DUP	SoilGas	TO15 w/ Helium, O2, CO2	1	1L Summa	☐	12/15/2018 18:59	5 days		☐	

NOTES:
- **STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**
- **MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.**

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME: The Phoenix
801 Pine St
Oakland, CA

SAMPLED BY: (PRINTED & SIGNATURE) Paul H. King Paul H. King

1812906

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION Initial Vac Final Vac Summa# PID	NUMBER OF CONTAINERS	ANALYSIS(ES): VOCs by TO-15	CO2, O2, He by ASTM D-1946							PRESERVATIVE	REMARKS
SG 15	12/15/18	20:49	Soil Gas	-29.5 2004-2668	1	X	X							None	Normal TAT
				-5 4											
SG 16	12/15/18	22:07	"	-29.5 1998-2625	1	X	X							"	" "
				-5 7											
SG 17	12/15/18	23:25	"	-29.5 2031-2655	1	X	X							"	" "
				-5 4											
SG 20	12/15/18	18:59	"	-29.5 1958-2589	1	X	X							"	" "
				-5 3											
SG 20 DUP	12/15/18	18:59	"	-29.5 1988-2615	1	X	X							"	" "
				-5 3											

RELINQUISHED BY: (SIGNATURE) Paul H. King	DATE 12/17/18	TIME 0945	RECEIVED BY: (SIGNATURE) UAP 12/17/18 0945	Total No. of Samples (This Shipment) 5 Total No. of Containers (This Shipment) 5	LABORATORY: McCampbell Analytical
RELINQUISHED BY: (SIGNATURE) UAP	DATE 12/17/18	TIME 1630	RECEIVED BY: (SIGNATURE)	LABORATORY CONTACT: Angela Rydelius	LABORATORY PHONE NUMBER: (925) 252-9262
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES (X) NO	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: PID values are in ppmv after sample collection. PID calibrated with a 100 ppmv isobutylene standard.
Detection Limits to be equal to or less than Feb 2016 SFRWQCB Residential Soil gas ESLs.

Sample Receipt Checklist

Client Name: **P & D Environmental**
Project: **0772; The Phoenix**
WorkOrder №: **1812906** Matrix: SoilGas
Carrier: Lorenzo Perez (MAI Courier)

Date and Time Received **12/17/2018 16:30**
Date Logged: **12/18/2018**
Received by: Kena Ponce
Logged by: Kena Ponce

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Sample IDs noted by Client on COC?	Yes ☑	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐	
Sampler's name noted on COC?	Yes ☑	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	NA ☐
Samples Received on Ice?	Yes ☐	No ☑	
Sample/Temp Blank temperature	Temp:		NA ☑
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
UCMR Samples:			
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes ☐	No ☐	NA ☑

Comments:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder:	1812907
Report Created for:	P & D Environmental
	55 Santa Clara Ave, Ste.240 Oakland, CA 94610
Project Contact:	Paul King
Project P.O.:	
Project:	0772; The Phoenix
Project Received:	12/17/2018

Analytical Report reviewed & approved for release on 12/27/2018 by:

Christine Askari
Project Manager

Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: 0772; The Phoenix
WorkOrder: 1812907

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 μm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: 0772; The Phoenix
WorkOrder: 1812907

Analytical Qualifiers

j1	See attached narrative

Quality Control Qualifiers

F2	LCS/LCSD recovery and/or RPD/RSD is out of acceptance criteria.

Case Narrative

Client:	P & D Environmental	**Work Order:**	1812907
Project:	0772; The Phoenix	December 27, 2018	

j1:

TO-15 ANALYSIS

All summa canisters are EVACUATED 5 days after the reporting of the results. Please call or email if a longer retention time is required.

Polymer (Tedlar) bags are not recommended for TO15 samples. The disadvantages are listed in Appendix B of the DTSC Active Soil Gas Advisory of July 2015.

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Received:	12/17/18 16:30	**Extraction Method:**	ASTM D 1946-90
Date Prepared:	12/21/18	**Analytical Method:**	ASTM D 1946-90
Project:	0772; The Phoenix	**Unit:**	%

Atmospheric Gases

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 18	**1812907-001A**	**SoilGas**	**12/10/2018 15:08**	**GC26 1221180718.D**	**170426**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.38	**24.69**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Oxygen	**14**	0.40	1	12/21/2018 10:33

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Received:	12/17/18 16:30	**Extraction Method:**	ASTM D 1946-90
Date Prepared:	12/20/18	**Analytical Method:**	ASTM D 1946-90
Project:	0772; The Phoenix	**Unit:**	%

Helium

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 18	**1812907-001A**	**SoilGas**	**12/10/2018 15:08**	**GC26 1220180234.D**	**170417**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.38	**24.69**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Helium	ND	0.050	1	12/20/2018 18:46

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Received:	12/17/18 16:30	**Extraction Method:**	ASTM D 1946-90
Date Prepared:	12/21/18	**Analytical Method:**	ASTM D 1946-90
Project:	0772; The Phoenix	**Unit:**	%

Light Gases

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 18	**1812907-001A**	**SoilGas**	**12/10/2018 15:08**	**GC26 1221180116.D**	**170623**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.38	**24.69**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	**8.3**	0.080	20	12/21/2018 15:48

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 18	**1812907-001A**	**SoilGas**	**12/10/2018 15:08**	**GC24 12211817.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.38	**24.69**	**AK**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	12/22/2018 03:43
Acrolein	ND	5.8	1	12/22/2018 03:43
Acrylonitrile	ND	1.1	1	12/22/2018 03:43
tert-Amyl methyl ether (TAME)	ND	2.1	1	12/22/2018 03:43
Benzene	ND	1.6	1	12/22/2018 03:43
Benzyl chloride	ND	2.6	1	12/22/2018 03:43
Bromodichloromethane	ND	3.5	1	12/22/2018 03:43
Bromoform	ND	5.2	1	12/22/2018 03:43
Bromomethane	ND	2.0	1	12/22/2018 03:43
1,3-Butadiene	ND	1.1	1	12/22/2018 03:43
2-Butanone (MEK)	ND	75	1	12/22/2018 03:43
t-Butyl alcohol (TBA)	ND	31	1	12/22/2018 03:43
Carbon Disulfide	ND	1.6	1	12/22/2018 03:43
Carbon Tetrachloride	ND	3.2	1	12/22/2018 03:43
Chlorobenzene	ND	2.4	1	12/22/2018 03:43
Chloroethane	ND	1.3	1	12/22/2018 03:43
Chloroform	ND	2.4	1	12/22/2018 03:43
Chloromethane	ND	1.0	1	12/22/2018 03:43
Cyclohexane	ND	18	1	12/22/2018 03:43
Dibromochloromethane	ND	4.4	1	12/22/2018 03:43
1,2-Dibromo-3-chloropropane	ND	0.12	1	12/22/2018 03:43
1,2-Dibromoethane (EDB)	ND	3.9	1	12/22/2018 03:43
1,2-Dichlorobenzene	ND	3.0	1	12/22/2018 03:43
1,3-Dichlorobenzene	ND	3.0	1	12/22/2018 03:43
1,4-Dichlorobenzene	ND	3.0	1	12/22/2018 03:43
Dichlorodifluoromethane	ND	2.5	1	12/22/2018 03:43
1,1-Dichloroethane	ND	2.0	1	12/22/2018 03:43
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	12/22/2018 03:43
1,1-Dichloroethene	ND	2.0	1	12/22/2018 03:43
cis-1,2-Dichloroethene	ND	2.0	1	12/22/2018 03:43
trans-1,2-Dichloroethene	ND	2.0	1	12/22/2018 03:43
1,2-Dichloropropane	ND	2.4	1	12/22/2018 03:43
cis-1,3-Dichloropropene	ND	2.3	1	12/22/2018 03:43
trans-1,3-Dichloropropene	ND	2.3	1	12/22/2018 03:43

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 18	**1812907-001A**	**SoilGas**	**12/10/2018 15:08**	**GC24 12211817.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.38	**24.69**	**AK**

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	12/22/2018 03:43
Diisopropyl ether (DIPE)	ND	2.1	1	12/22/2018 03:43
1,4-Dioxane	ND	1.8	1	12/22/2018 03:43
Ethanol	ND	96	1	12/22/2018 03:43
Ethyl acetate	ND	1.8	1	12/22/2018 03:43
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	12/22/2018 03:43
Ethylbenzene	ND	2.2	1	12/22/2018 03:43
4-Ethyltoluene	ND	2.5	1	12/22/2018 03:43
Freon 113	ND	3.9	1	12/22/2018 03:43
Heptane	ND	21	1	12/22/2018 03:43
Hexachlorobutadiene	ND	5.4	1	12/22/2018 03:43
Hexane	ND	18	1	12/22/2018 03:43
2-Hexanone	ND	2.1	1	12/22/2018 03:43
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	12/22/2018 03:43
Methyl-t-butyl ether (MTBE)	ND	1.8	1	12/22/2018 03:43
Methylene chloride	ND	8.8	1	12/22/2018 03:43
Methyl methacrylate	ND	2.1	1	12/22/2018 03:43
Naphthalene	ND	5.3	1	12/22/2018 03:43
Propene	ND	88	1	12/22/2018 03:43
Styrene	ND	2.2	1	12/22/2018 03:43
1,1,1,2-Tetrachloroethane	ND	3.5	1	12/22/2018 03:43
1,1,2,2-Tetrachloroethane	ND	3.5	1	12/22/2018 03:43
Tetrachloroethene	ND	3.4	1	12/22/2018 03:43
Tetrahydrofuran	ND	3.0	1	12/22/2018 03:43
Toluene	ND	1.9	1	12/22/2018 03:43
1,2,4-Trichlorobenzene	ND	3.8	1	12/22/2018 03:43
1,1,1-Trichloroethane	ND	2.8	1	12/22/2018 03:43
1,1,2-Trichloroethane	ND	2.8	1	12/22/2018 03:43
Trichloroethene	ND	2.8	1	12/22/2018 03:43
Trichlorofluoromethane	ND	2.8	1	12/22/2018 03:43
1,2,4-Trimethylbenzene	ND	2.5	1	12/22/2018 03:43
1,3,5-Trimethylbenzene	ND	2.5	1	12/22/2018 03:43
Vinyl Acetate	ND	18	1	12/22/2018 03:43
Vinyl Chloride	ND	1.3	1	12/22/2018 03:43

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 18	**1812907-001A**	**SoilGas**	**12/10/2018 15:08**	**GC24 12211817.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.38	**24.69**	**AK**

Analytes	Result	RL	DF	Date Analyzed
m,p-Xylene	ND	4.4	1	12/22/2018 03:43
o-Xylene	ND	2.2	1	12/22/2018 03:43
Xylenes, Total	ND	2.2	1	12/22/2018 03:43

Surrogates	REC (%)	Limits	Date Analyzed
1,2-DCA-d4	92	70-130	12/22/2018 03:43
Toluene-d8	100	70-130	12/22/2018 03:43
4-BFB	99	70-130	12/22/2018 03:43

Analytical Comments: j1

Quality Control Report

Client: P & D Environmental
Date Prepared: 12/21/18
Date Analyzed: 12/21/18
Instrument: GC26
Matrix: SoilGas
Project: 0772; The Phoenix

WorkOrder: 1812907
BatchID: 170426
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: %
Sample ID: MB/LCS/LCSD-170426

QC Summary Report for ASTM D1946-90

Analyte	MB Result	RL			
Oxygen	ND	0.20	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Oxygen	1.9	1.9	2.1	89	88	70-130	0.558	20

Quality Control Report

Client: P & D Environmental
Date Prepared: 12/20/18
Date Analyzed: 12/20/18
Instrument: GC26
Matrix: Soilgas
Project: 0772; The Phoenix

WorkOrder: 1812907
BatchID: 170417
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: %
Sample ID: MB/LCS/LCSD-170417

QC Summary Report for ASTM D1946-90

Analyte	MB Result	RL			
Helium	ND	0.025	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Helium	0.11	0.11	0.10	106	107	60-140	0.466	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Prepared:	12/21/18	**BatchID:**	170623
Date Analyzed:	12/21/18	**Extraction Method:**	ASTM D 1946-90
Instrument:	GC26	**Analytical Method:**	ASTM D 1946-90
Matrix:	SoilGas	**Unit:**	%
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170623

QC Summary Report for ASTM D1946-90

Analyte	MB Result	RL			
Carbon Dioxide	ND	0.0020	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Carbon Dioxide	0.012	0.012	0.010	124	124	70-130	0	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Prepared:	12/21/18 - 12/22/18	**BatchID:**	170549
Date Analyzed:	12/21/18 - 12/22/18	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170549

QC Summary Report for TO15

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	30	-	-	-
Acrolein	ND	2.9	-	-	-
Acrylonitrile	ND	0.55	-	-	-
tert-Amyl methyl ether (TAME)	ND	1.0	-	-	-
Benzene	ND	0.80	-	-	-
Benzyl chloride	ND	1.3	-	-	-
Bromodichloromethane	ND	1.8	-	-	-
Bromoform	ND	2.6	-	-	-
Bromomethane	ND	1.0	-	-	-
1,3-Butadiene	ND	0.55	-	-	-
2-Butanone (MEK)	ND	38	-	-	-
t-Butyl alcohol (TBA)	ND	16	-	-	-
Carbon Disulfide	ND	0.80	-	-	-
Carbon Tetrachloride	ND	1.6	-	-	-
Chlorobenzene	ND	1.2	-	-	-
Chloroethane	ND	0.65	-	-	-
Chloroform	ND	1.2	-	-	-
Chloromethane	ND	0.50	-	-	-
Cyclohexane	ND	9.0	-	-	-
Dibromochloromethane	ND	2.2	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.060	-	-	-
1,2-Dibromoethane (EDB)	ND	2.0	-	-	-
1,2-Dichlorobenzene	ND	1.5	-	-	-
1,3-Dichlorobenzene	ND	1.5	-	-	-
1,4-Dichlorobenzene	ND	1.5	-	-	-
Dichlorodifluoromethane	ND	1.2	-	-	-
1,1-Dichloroethane	ND	1.0	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	1.0	-	-	-
1,1-Dichloroethene	ND	1.0	-	-	-
cis-1,2-Dichloroethene	ND	1.0	-	-	-
trans-1,2-Dichloroethene	ND	1.0	-	-	-
1,2-Dichloropropane	ND	1.2	-	-	-
cis-1,3-Dichloropropene	ND	1.2	-	-	-
trans-1,3-Dichloropropene	ND	1.2	-	-	-
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	1.8	-	-	-
Diisopropyl ether (DIPE)	ND	1.0	-	-	-
1,4-Dioxane	ND	0.90	-	-	-
Ethanol	ND	48	-	-	-

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Prepared:	12/21/18 - 12/22/18	**BatchID:**	170549
Date Analyzed:	12/21/18 - 12/22/18	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170549

QC Summary Report for TO15

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Ethyl acetate	ND	0.90	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	1.0	-	-	-
Ethylbenzene	ND	1.1	-	-	-
4-Ethyltoluene	ND	1.2	-	-	-
Freon 113	ND	2.0	-	-	-
Heptane	ND	10	-	-	-
Hexachlorobutadiene	ND	2.7	-	-	-
Hexane	ND	9.0	-	-	-
2-Hexanone	ND	1.0	-	-	-
Isopropyl Alcohol	ND	25	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	1.0	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.90	-	-	-
Methylene chloride	ND	4.4	-	-	-
Methyl methacrylate	ND	1.0	-	-	-
Naphthalene	ND	2.6	-	-	-
Propene	ND	44	-	-	-
Styrene	ND	1.1	-	-	-
1,1,1,2-Tetrachloroethane	ND	1.8	-	-	-
1,1,2,2-Tetrachloroethane	ND	1.8	-	-	-
Tetrachloroethene	ND	1.7	-	-	-
Tetrahydrofuran	ND	1.5	-	-	-
Toluene	ND	0.95	-	-	-
1,2,4-Trichlorobenzene	ND	1.9	-	-	-
1,1,1-Trichloroethane	ND	1.4	-	-	-
1,1,2-Trichloroethane	ND	1.4	-	-	-
Trichloroethene	ND	1.4	-	-	-
Trichlorofluoromethane	ND	1.4	-	-	-
1,2,4-Trimethylbenzene	ND	1.2	-	-	-
1,3,5-Trimethylbenzene	ND	1.2	-	-	-
Vinyl Acetate	ND	9.0	-	-	-
Vinyl Chloride	ND	0.65	-	-	-
m,p-Xylene	ND	2.2	-	-	-
o-Xylene	ND	1.1	-	-	-
Xylenes, Total	ND	1.1	-	-	-

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Prepared:	12/21/18 - 12/22/18	**BatchID:**	170549
Date Analyzed:	12/21/18 - 12/22/18	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170549

QC Summary Report for TO15

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery					
1,2-DCA-d4	430		500	86	70-130
Toluene-d8	500		500	100	70-130
4-BFB	490		500	99	70-130

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Prepared:	12/21/18 - 12/22/18	**BatchID:**	170549
Date Analyzed:	12/21/18 - 12/22/18	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170549

QC Summary Report for TO15

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	6.2	6.5	6	104	108	60-140	3.66	30
Acrolein	5.6	5.6	5.8	96	97	60-140	0.410	30
Acrylonitrile	5.4	5.1	5.5	98	94	60-140	4.35	30
tert-Amyl methyl ether (TAME)	10	10	10.5	95	97	60-140	1.55	30
Benzene	7.6	7.7	8	95	96	60-140	1.21	30
Benzyl chloride	7.6	7.7	13.3	57, F2	58, F2	60-140	1.75	30
Bromodichloromethane	15	15	17.5	85	88	60-140	3.37	30
Bromoform	22	22	26.3	83	83	60-140	0	30
Bromomethane	8.8	9.3	9.8	90	95	60-140	5.12	30
1,3-Butadiene	4.8	5.5	5.5	88	100	60-140	12.8	30
2-Butanone (MEK)	7.3	7.6	7.5	97	102	60-140	4.24	30
t-Butyl alcohol (TBA)	7.5	7.8	7.8	96	100	60-140	3.42	30
Carbon Disulfide	7.6	7.6	8	95	95	60-140	0	30
Carbon Tetrachloride	13	13	16	83	84	60-140	1.41	30
Chlorobenzene	12	12	11.8	100	101	60-140	0.921	30
Chloroethane	6.9	7.1	6.8	101	105	60-140	3.54	30
Chloroform	12	12	12.3	96	98	60-140	2.05	30
Chloromethane	5.2	5.4	5.3	98	102	60-140	3.73	30
Cyclohexane	8.8	9.0	8.8	100	103	60-140	2.17	30
Dibromochloromethane	19	20	21.8	89	90	60-140	1.59	30
1,2-Dibromo-3-chloropropane	22	22	24.5	88	88	60-140	0	30
1,2-Dibromoethane (EDB)	18	18	19.5	93	93	60-140	0	30
1,2-Dichlorobenzene	15	14	15.3	100	93	60-140	7.34	30
1,3-Dichlorobenzene	14	15	15.3	94	95	60-140	1.38	30
1,4-Dichlorobenzene	14	14	15.3	92	93	60-140	0.887	30
Dichlorodifluoromethane	13	13	12.5	102	103	60-140	1.18	30
1,1-Dichloroethane	9.8	10	10.3	95	98	60-140	3.09	30
1,2-Dichloroethane (1,2-DCA)	9.4	9.6	10.3	91	93	60-140	2.21	30
1,1-Dichloroethene	11	11	10	105	107	60-140	1.79	30
cis-1,2-Dichloroethene	9.8	10	10	98	102	60-140	3.45	30
trans-1,2-Dichloroethene	9.9	10	10	99	101	60-140	1.53	30
1,2-Dichloropropane	11	11	11.8	94	94	60-140	0	30
cis-1,3-Dichloropropene	9.8	10	11.5	86	87	60-140	1.22	30
trans-1,3-Dichloropropene	9.0	9.2	11.5	78	80	60-140	1.67	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane	18	19	17.8	103	106	60-140	2.66	30
Diisopropyl ether (DIPE)	11	12	10.5	108	110	60-140	1.92	30
1,4-Dioxane	8.2	8.3	9.3	89	90	60-140	1.22	30
Ethanol	4.7	5.0	4.8	98	105	60-140	6.62	30

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Prepared:	12/21/18 - 12/22/18	**BatchID:**	170549
Date Analyzed:	12/21/18 - 12/22/18	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170549

QC Summary Report for TO15

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Ethyl acetate	8.7	8.7	9.3	93	94	60-140	0.850	30
Ethyl tert-butyl ether (ETBE)	11	11	10.5	100	103	60-140	2.24	30
Ethylbenzene	10	10	11	94	94	60-140	0	30
4-Ethyltoluene	12	12	12.5	96	97	60-140	0.821	30
Freon 113	20	20	19.5	102	105	60-140	2.56	30
Heptane	10	10	10.5	95	97	60-140	1.77	30
Hexachlorobutadiene	24	25	27	91	92	60-140	1.23	30
Hexane	9.5	9.8	9	105	108	60-140	2.68	30
2-Hexanone	8.4	8.5	10.5	80	81	60-140	0.673	30
Isopropyl Alcohol	5.7	5.8	6.3	90	92	60-140	1.99	30
4-Methyl-2-pentanone (MIBK)	9.4	9.5	10.5	90	91	60-140	1.31	30
Methyl-t-butyl ether (MTBE)	8.9	9.0	9.3	96	97	60-140	1.46	30
Methylene chloride	8.7	8.9	8.8	99	101	60-140	2.28	30
Methyl methacrylate	9.0	9.0	10.4	86	86	60-140	0	30
Naphthalene	23	23	26.5	87	88	60-140	1.60	30
Propene	4.6	4.7	4.3	107	109	60-140	2.20	30
Styrene	9.3	9.5	10.8	86	88	60-140	2.26	30
1,1,1,2-Tetrachloroethane	16	16	17.5	93	94	60-140	0.851	30
1,1,2,2-Tetrachloroethane	16	16	17.5	93	94	60-140	1.30	30
Tetrachloroethene	17	17	17.2	98	99	60-140	0.732	30
Tetrahydrofuran	7.3	7.5	7.5	98	100	60-140	2.02	30
Toluene	9.2	9.3	9.5	97	98	60-140	1.29	30
1,2,4-Trichlorobenzene	16	16	18.8	85	86	60-140	1.04	30
1,1,1-Trichloroethane	12	12	13.8	87	89	60-140	2.01	30
1,1,2-Trichloroethane	13	13	13.8	95	97	60-140	1.71	30
Trichloroethene	13	13	13.8	96	97	60-140	1.55	30
Trichlorofluoromethane	14	14	14.3	98	100	60-140	2.32	30
1,2,4-Trimethylbenzene	12	12	12.5	95	96	60-140	1.36	30
1,3,5-Trimethylbenzene	12	12	12.5	97	99	60-140	2.03	30
Vinyl Acetate	8.4	8.4	9	93	94	60-140	0.111	30
Vinyl Chloride	5.1	5.5	6.5	79	85	60-140	6.74	30
m,p-Xylene	22	23	22	102	105	60-140	2.75	30
o-Xylene	11	11	11	98	98	60-140	0	30
Xylenes, Total	33	34	33	101	103	60-140	2.05	30

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Prepared:	12/21/18 - 12/22/18	**BatchID:**	170549
Date Analyzed:	12/21/18 - 12/22/18	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170549

QC Summary Report for TO15

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
1,2-DCA-d4	470	470	500	93	93	70-130	0	30
Toluene-d8	500	510	500	100	102	70-130	1.45	30
4-BFB	500	510	500	100	102	70-130	2.30	30

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1812907 **ClientCode: PDEO**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ▨ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ▨ J-flag
▨ Detection Summary ▨ Dry-Weight

Report to:
Paul King
P & D Environmental
55 Santa Clara Ave, Ste.240
Oakland, CA 94610
(510) 658-6916 FAX: 510-834-0152

Email: lab@pdenviro.com; Paul.King@pdenviro.c
cc/3rd Party:
PO:
Project: 0772; The Phoenix

Bill to:
Accounts Payable
P & D Environmental
55 Santa Clara Ave, Ste.240
Oakland, CA 94610

Requested TAT: **5 days;**

Date Received: **12/17/2018**
Date Logged: **12/18/2018**

					Requested Tests (See legend below)											
Lab ID	**Client ID**	**Matrix**	**Collection Date**	**Hold**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
1812907-001	SG 18	SoilGas	12/10/2018 15:08	☐	A	A	A		A	A						
1812907-002	UNUSED SUMMA	SoilGas	<Not Provided>	☐				A			A					
1812907-003	UNUSED SUMMA	SoilGas	<Not Provided>	☐				A			A					
1812907-004	UNUSED SUMMA	SoilGas	<Not Provided>	☐				A			A					

Test Legend:

1	**ATMOSPHERICGAS_SG(%)**	2	**HELIUM_LC_SOILGAS(%)**	3	**LG_SUMMA_SOILGAS(%)**	4	**PRUNUSEDSUMMA**
5	**TO15_Scan-SIM_SOIL(UG/M3) [N]**	6	**TO15-8260_SOIL(UG/M3) [N]**	7	**UNUSED_SUMMA**	8	
9		10		11		12	

Project Manager: Jennifer Lagerbom **Prepared by: Kena Ponce**

The following SampID: 001A contains testgroup TO15He_O2_CO2_SG.

Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL
Project: 0772; The Phoenix
Work Order: 1812907
Client Contact: Paul King
QC Level: LEVEL 2
Contact's Email: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Date Logged: 12/18/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ▨ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ▨ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1812907-001A	SG 18	SoilGas	TO15 w/ Helium, O2, CO2	1	1L Summa	☐	12/10/2018 15:08	5 days		☐	
1812907-002A	UNUSED SUMMA	SoilGas	Unused Summa	1	1L Summa	☐	<Not Provided>	5 days		☐	
1812907-003A	UNUSED SUMMA	SoilGas	Unused Summa	1	1L Summa	☐	<Not Provided>	5 days		☐	
1812907-004A	UNUSED SUMMA	SoilGas	Unused Summa	1	1L Summa	☐	<Not Provided>	5 days		☐	

NOTES:
- **STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**
- **MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.**

CHAIN OF CUSTODY RECORD

1812907 PAGE 1 OF 1

P&D ENVIRONMENTAL, INC.

55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772.

PROJECT NAME: The Phoenix 801 Pine St Oakland, CA

SAMPLED BY: (PRINTED & SIGNATURE) MICHAEL BASS-AESCHLENES Michael Bass-Desch

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION INIT VAC FINAL VAC SUMMA # PID	NUMBER OF CONTAINERS	ANALYSIS(ES): VOCs by TO-15	CO2, O2, He by ASTM D-1946							PRESERVATIVE	REMARKS
SG18	12/10/18	150200	SOIL GAS	-29.5	1	X	X							NONE	NORMAL TAT
		150848	"	-5 2001-2628 113											

RELINQUISHED BY: (SIGNATURE) Michael Bass-Desch	DATE 12/7/18	TIME 0945	RECEIVED BY: (SIGNATURE) LAP 12/7/18 0945	Total No. of Samples (This Shipment) 1 Total No. of Containers (This Shipment) 1	LABORATORY: McCAMPBELL ANALYTICAL, INC.
RELINQUISHED BY: (SIGNATURE) LAP	DATE 12/7/18	TIME 1630	RECEIVED BY: (SIGNATURE)	LABORATORY CONTACT: ANGELA RYDELIUS.	LABORATORY PHONE NUMBER: (925) 252-9262
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES [✓ (x) NO]	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: PID VALUES ARE IN PPMV AFTER SAMPLE COLLECTION. PID CALIBRATED WITH A 100 PPM ISOBUTYLENE STANDARD.
DETECTION LIMITS TO BE EQUAL TO OR LESS THAN FEB 2016 SFRWQCB RESIDENTIAL SOIL GAS ESLs.

Sample Receipt Checklist

Client Name: **P & D Environmental**
Project: **0772; The Phoenix**
WorkOrder №: **1812907** Matrix: SoilGas
Carrier: Lorenzo Perez (MAI Courier)

Date and Time Received **12/17/2018 16:30**
Date Logged: **12/18/2018**
Received by: Kena Ponce
Logged by: Kena Ponce

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Sample IDs noted by Client on COC?	Yes ☑	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐	
Sampler's name noted on COC?	Yes ☑	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	NA ☐
Samples Received on Ice?	Yes ☐	No ☑	
Sample/Temp Blank temperature	Temp:		NA ☑
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
UCMR Samples:			
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes ☐	No ☐	NA ☑

Comments:

AEI Consultants

March 26, 2019

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Property Information:
Site bounded by 9th Street (north), Pine Street (east), Shorey Street (south), Frontage Road (west)
Oakland, Alameda County, California 94607

Project Information:
AEI Project No. 402500

Prepared For:
Urban Designs, LLC
1500 Park Avenue, #100
Emeryville, California 94608

Prepared By:
AEI Consultants
2500 Camino Diablo, Suite 100
Walnut Creek, California 94597-3940

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March 26, 2019

Jamie Hiteshew
Urban Designs, LLC
1500 Park Avenue, #100
Emeryville, California 94608

Subject: Phase I Environmental Site Assessment
Site bounded by 9th Street (north), Pine Street (east), Shorey Street (south), Frontage Road (west)
Oakland, California 94607
AEI Project No. 402500

Dear Jamie Hiteshew:

AEI Consultants is pleased to provide the *Phase I Environmental Site Assessment* of the above referenced property. This assessment was authorized and performed in accordance with the scope of services engaged.

We appreciate the opportunity to provide services to you. If you have any questions concerning this report, or if we can assist you in any other matter, please contact me at (925) 746-6028 or jasmith@aeiconsultants.com.

Sincerely,

Jeremy Smith

Jeremy Smith
Department Manager
AEI Consultants

PROJECT SUMMARY

Site bounded by 9th Street (north), Pine Street (east), Shorey Street (south),
Frontage Road (west), Oakland, Alameda County, California 94607
AEI Project No. 402500

Report Section		REC	CREC	HREC	OEC	Recommended Action
1.0	Introduction					None
2.0	Site and Vicinity Description					None
3.0	Historical Review of Site and Vicinity	✓				Continue Voluntary Remedial Action activities
4.0	Regulatory Agency Records Review	✓				As above
5.0	Regulatory Database Records Review	✓				As above
6.0	Interviews and User Provided Information					None
7.0	Site Reconnaissance					None
8.1	Asbestos-Containing Building Materials					None
8.2	Lead-Based Paint					None
8.3	Radon					None
8.4	Mold					None

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EXECUTIVE SUMMARY

AEI Consultants (AEI) was retained by Urban Designs, LLC to conduct a Phase I ESA in conformance with AEI's contract and the scope and limitations of ASTM Standard Practice E1527-13 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) for the property located at Site bounded by 9th Street (north), Pine Street (east), Shorey Street (south), Frontage Road (west), Oakland, Alameda County, California (the "subject property"). Any exceptions to, or deletions from, this practice are described in Sections 1.4, 1.5, and 1.6 of this report.

Pertinent subject property information is noted below:

PROPERTY INFORMATION	
Site Address(es)	Site bounded by 9th Street (north), Pine Street (east), Shorey Street (south), Frontage Road (west), Oakland, Alameda County, California 94607
Property ID (APN or Block/Lot)	6-47-1
Location	Southwest of 9th Street, northwest of Pine Street, west of Frontage Road, and northeast of Shorey Street
Property Type	Vacant Land
SITE AND BUILDING INFORMATION	
Approximate Site Acreage/Source	4.65/Client
Number of Buildings	None
Building Construction Date(s)	N/A
Building Square Footage (SF)/Source	N/A/N/A
Number of Floors/Stories	N/A
Basement or Subgrade Area(s)	None identified
Number of Units	One
Additional Improvements	None
On-site Occupant(s)	Vacant
Current On-site Operations/Use	None
Current Use of Hazardous Substances	None identified
REGULATORY INFORMATION	
Regulatory Database Listing(s)	Envirostor, VCP, HAZNET, US Brownfields, RCRA-SQG, FINDS, ECHO, Historic Cortese (x 2), CPS-SLIC, CERS (x 2), Alameda County CS (x 2), Historic UST, LUST, SWEEPS UST, CA FID UST

A chronological summary of historical subject property information is as follows:

Date Range	Subject Property Description and Use (Historical Addresses)	Source(s)
Prior to 1889	Unknown use/Data failure; refer to Section 1.6.1	Aerial photographs, Sanborn maps, agency records
1889-1902	Various residential structures/Residential use	Sanborn maps
1912	Various residential structures and a bedding & upholstering facility/Residential and industrial use	Sanborn map

Date Range	Subject Property Description and Use (Historical Addresses)	Source(s)
1920s-1995	Prior industrial building/Various industrial tenants	Aerial photographs, Sanborn maps, agency records
1995-Present	Unimproved land	Aerial photographs, city directories, site observation

Based on a review of historical sources, the subject property was identified to consist of residential structures from at least 1889 until 1902. By 1912, the California Bedding & Upholstering Co. was located on the northern portion of the subject property. Beginning in the 1920s, the subject property was developed with industrial structures and occupied for a variety of industrial uses including auto parts manufacturing, steel and ironworks fabrication, and fireworks manufacturing. All structures were demolished by 1995, and the subject property has since been unimproved land. The subject property was initially portion of a larger parcel which extended towards the west; the western portion of the subject property was developed with the existing freeway and frontage road.

The immediately surrounding properties consist of the following:

Direction	Tenant/Use (Address)	Regulatory Database Listing(s)
Northeast	9th Street followed by: Salvage yard/warehouse (no visible address) Trapeze Arts / Velocity Circus (1829 9th Street) Residence (903 Pine Street)	SEMS-Archive, Envirostor (1832 Shorey Street)
Southeast	Pine Street followed by residences (multiple addresses), unimproved lots, and Art Studios (800 Pine Street)	None identified
Southwest	Shorey Street followed by St. Luke's Missionary Church (767 Pine Street) and unimproved land	Response, Envirostor, CERS (Shorey Street) EDR Historic Auto (1807 Shorey Street)
West	Frontage Road and Highway 880 (Nimitz Freeway)	Envirostor, VCP (1823 Shorey Street)

If the surrounding properties are listed in the regulatory database, please refer to Section 5.1 for discussion.

FINDINGS

Recognized Environmental Condition (REC) is defined by the ASTM Standard Practice E1527-13 as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

- The subject property was formerly utilized for a variety of industrial purposes between 1920 and the 1990s, including auto parts manufacturing, steel and ironworks fabrication, and fireworks manufacturing. The subject property was formerly a portion of the Phoenix Iron Works plant that occupied the entire block bounded by Shorey, 9th, Pine, and Cedar Streets. The Phoenix facility previously extended towards the southwest; this area was subsequently used for construction of the Cypress Freeway and the existing Frontage Road. Multiple environmental investigations have been conducted at the subject property beginning in 1992. Five USTs were removed from the subject property and the former portion of the subject property, now the adjacent property to the west. Soil and groundwater has been impacted from historical industrial use and from off-site sources. Elevated concentrations of petroleum-related compounds, including TRPH, TPHd, and TPHmo have been detected at concentrations exceeding screening levels (RWQCB ESLs) on the western portion of the subject property, with TRPH and TPHmo at maximum concentrations of 1,100 mg/kg and 990 mg/kg, respectively. Lead was detected in soil at concentrations exceeding residential ESLs along the western portion of the subject property, at a maximum concentration of 1,690 mg/kg.

Petroleum hydrocarbons and VOCs are present in groundwater at concentrations exceeding ESLs beneath the eastern and southern portions of the subject property, with TPHmo, TCE, chloroform, and PCE detected at maximum concentrations of 120 µg/L, 140 µg/L, 23 µg/L, and 5.1 µg/L, respectively. Additionally, dissolved metals have historically been detected at concentrations exceeding ESLs beneath the eastern and southern portions of the subject property. TCE and chloroform have been detected in soil gas samples at maximum concentrations of 4,000 µg/m^3 and 2,600 µg/m^3 , respectively.

The subject property was formerly managed as a DTSC Envirostor case, with Caltrans as the responsible party. In November 2017, the responsible party, identified as Urban Designs LLC, entered into a Voluntary Remedial Action Agreement with with ACDEH as the regulatory oversight agency. The purpose of the Voluntary Remedial Action Agreement is to investigate the extent of soil, groundwater, and soil gas contamination and to facilitate the redevelopment of the subject property with a 316-unit residential development. The most recent document in the ACDEH file is a *Limited Subsurface Investigation Report*, prepared by P & D Environmental, Inc. and dated February 14, 2019. The report documents the results of data gaps sampling conducted in 2018, and recommends the preparation of a Corrective Action Plan for redevelopment of the subject property for residential use. The release of hazardous substances and petroleum products to the subsurface of the subject property is considered a recognized environmental condition. In addition, VOCs in the subsurface may present a health hazard to future residential receptors at the subject property, if not addressed by corrective action or engineering controls.

Controlled Recognized Environmental Condition (CREC) is defined by the ASTM Standard Practice E1527-13 as a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

- AEI did not identify evidence of CRECs during the course of this assessment.

Historical Recognized Environmental Condition (HREC) is defined by the ASTM Standard Practice E1527-13 as a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls.

- AEI did not identify evidence of HRECs during the course of this assessment.

Other Environmental Considerations (OEC) warrant discussion, but do not qualify as RECs as defined by the ASTM Standard Practice E1527-13. These include, but are not limited to, de minimis conditions and/or environmental considerations such as the presence of ACMs, LBP, radon, mold, and lead in drinking water, which can affect the liabilities and financial obligations of the client, the health and safety of site occupants, and the value and marketability of the subject property.

- AEI did not identify evidence of Other Environmental Considerations during the course of this assessment.

CONCLUSIONS, OPINIONS, AND RECOMMENDATIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Standard Practice E1527-13 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) of Site bounded by 9th Street (north), Pine Street (east), Shorey Street (south), Frontage Road (west), Oakland, Alameda County, California, the *subject property*. Any exceptions to, or deletions from, this practice are described in Sections 1.4, 1.5, and 1.6 of this report.

AEI did not identify evidence of RECs or CRECs in connection with the property except for those previously identified in the Findings section. AEI recommends the following:

- In accordance with the Voluntary Remedial Action Agreement, the responsible party should continue to abide by regulatory directives until such time that case closure is achieved, and appropriate corrective action and engineering controls should be implemented to prevent unacceptable health risks to future residents of the subject property.

1.0 INTRODUCTION

This report documents the methods and findings of the Phase I Environmental Site Assessment performed in conformance with AEI's contract and scope and limitations of ASTM Standard Practice E1527-13 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) for the property located at Site bounded by 9th Street (north), Pine Street (east), Shorey Street (south), Frontage Road (west), Oakland, Alameda County, California (Appendix A: Figures and Appendix B: Property Photographs).

1.1 SCOPE OF WORK

The purpose of the Phase I ESA is to assist the client in identifying potential RECs, in accordance with ASTM E1527-13, associated with the presence of any hazardous substances or petroleum products, their use, storage, and disposal at and in the vicinity of the subject property. Property assessment activities focused on: 1) a review of federal, state, tribal, and local databases that identify and describe underground fuel tank sites, leaking underground fuel tank sites, hazardous waste generation sites, and hazardous waste storage and disposal facility sites within the ASTM approximate minimum search distance; 2) a property and surrounding site reconnaissance, and interviews with the past and present owners and current occupants and operators to identify potential environmental contamination; and 3) a review of historical sources to help ascertain previous land use at the site and in the surrounding area.

1.2 ADDITIONAL SERVICES

Other Environmental Considerations such as ACMs, LBP, lead in drinking water, radon, mold, and wetlands can result in business environmental risks for property owners which may disrupt current or planned operations or cash flow and are generally beyond the scope of a Phase I assessment as defined by ASTM E1527-13. Based upon the agreed-on scope of services this ESA did not include subsurface or other invasive assessments, business environmental risks, or other services not specifically identified and discussed herein.

1.3 SIGNIFICANT ASSUMPTIONS

The following assumptions are made by AEI in this report. AEI relied on information derived from secondary sources including governmental agencies, the client, designated representatives of the client, property contact, property owner, property owner representatives, computer databases, and personal interviews. AEI has reviewed and evaluated the thoroughness and reliability of the information derived from secondary sources including government agencies, the client, designated representatives of the client, property contact, property owner, property owner representatives, computer databases, or personal interviews. It appears that all information obtained from outside sources and reviewed for this assessment is thorough and reliable. However, AEI cannot guarantee the thoroughness or reliability of this information.

Groundwater flow, unless otherwise specified by on-site well data or well data from the subject property or nearby sites, is inferred from contour information depicted on the USGS topographic maps. AEI assumes the property has been correctly and accurately identified by the client, designated representative of the client, property contact, property owner, and property owner's representatives.

1.4 LIMITATIONS

Property conditions, as well as local, state, tribal, and federal regulations can change significantly over time. Therefore, the recommendations and conclusions presented as a result of this assessment apply strictly to the environmental regulations and property conditions existing at the time the assessment was performed. Available information has been analyzed using currently accepted assessment techniques and it is believed that the inferences made are reasonably representative of the property. AEI makes no warranty, expressed or implied, except that the services have been performed in accordance with generally accepted environmental property assessment practices applicable at the time and location of the assessment.

Considerations identified by ASTM as beyond the scope of a Phase I ESA that may affect business environmental risk at a given property include the following: ACMs, radon, LBP, lead in drinking water, wetlands, regulatory compliance, cultural and historical resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, mold, and high voltage lines. These environmental issues or conditions may warrant assessment based on the type of the property transaction; however, they are considered non-scope issues under ASTM Standard Practice E1527-13.

If requested by the client, these non-scope issues are discussed herein. Otherwise, the purpose of this assessment is solely to satisfy one of the requirements for qualification of the innocent landowner defense, contiguous property owner or bona fide prospective purchaser under CERCLA. ASTM Standard Practice E1527-13 and the United States EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) constitute the "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in:

1. 42 U.S.C. § 9601(35)(B), referenced in the ASTM Standard Practice E1527-13.
2. Sections 101(35)(B) (ii) and (iii) of CERCLA and referenced in the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312).
3. 42 U.S.C. § 9601(40) and 42 U.S.C. § 9607(q).

The Phase I Environmental Site Assessment is not, and should not be construed as, a warranty or guarantee about the presence or absence of environmental contaminants that may affect the property. Neither is the assessment intended to assure clear title to the property in question. The sole purpose of assessment into property title records is to ascertain a historical basis of prior land use. All findings, conclusions, and recommendations stated in this report are based upon facts, circumstances, and industry-accepted procedures for such services as they existed at the time this report was prepared (i.e., federal, state, and local laws, rules, regulations, market conditions, economic conditions, political climate, and other applicable matters). All findings, conclusions, and recommendations stated in this report are based on the data and information provided, current subject property use, and observations and conditions that existed on the date and time of the property reconnaissance.

Responses received from local, state, or federal agencies or other secondary sources of information after the issuance of this report may change certain facts, findings, conclusions, or circumstances to the report. A change in any fact, circumstance, or industry-accepted procedure upon which this report was based may adversely affect the findings, conclusions, and recommendations expressed in this report.

AEI's limited radon screening, if included, is intended to provide a preliminary screening to evaluate the potential presence of elevated radon concentrations at the site. The proposed scope is not intended to define the full extent of the presence of radon at the subject property. As such, the results should be used for lending purposes only. The recommendations and conclusions presented as a result of the limited preliminary radon screening apply strictly to the property conditions existing at the time the sampling was performed. The sample analytical results are only valid for the time, place, and condition of the site at the time of collection and AEI does not warrant that the results will be repeatable or are representative of past or future conditions.

1.5 LIMITING CONDITIONS/DEVIATIONS

The performance of this assessment was limited by the following:

- The User did not complete the ASTM User Questionnaire or provide the User information to AEI. AEI assumes that qualification for the LLPs is being established by the User in documentation outside of this assessment.
- The subject property owner or key site manager was not interviewed during this assessment. Based on information obtained from other sources, including agency records, this limiting condition is not expected to alter the overall findings of this assessment.

1.6 DATA FAILURE AND DATA GAPS

According to ASTM E1527-13, data gaps occur when the Environmental Professional is unable to obtain information required by the Standard, despite good faith efforts to gather such information. Pursuant to ASTM E1527-13, only significant data gaps, defined as those that affect the ability of the Environmental Professional to identify RECs, need to be documented.

Data failure is one type of data gap. According to ASTM E1527-13, data failure occurs when all of the standard historical sources that are reasonably ascertainable and likely to be useful have been reviewed and yet the objectives have not been met. Pursuant to ASTM E1527-13, historical sources are required to document property use back to the property's first developed use or back to 1940, whichever is earlier, or periods of five years or greater.

1.6.1 DATA FAILURE

The following data failure was identified during the course of this assessment:

Data Failure	The earliest historical resource obtained during this assessment was a Sanborn map from 1889 indicating that the subject property was developed with residences. The lack of historical sources for the subject property dating back to first developed use represents historical data source failure. However, as it is assumed that the subject property would have been previously used for residential purposes, if not undeveloped, this data failure is not expected to significantly alter the findings of this assessment.
Information/Sources Consulted	City directories, Sanborn fire insurance maps, aerial photographs, agency records

1.6.2 SIGNIFICANT DATA GAPS

AEI did not identify significant data gaps which affected our ability to identify RECs.

1.7 RELIANCE

All reports, both verbal and written, are for the benefit of Urban Designs, LLC. This report has no other purpose and may not be relied upon by any other person or entity without the written consent of AEI. Either verbally or in writing, third parties may come into possession of this report or all or part of the information generated as a result of this work. In the absence of a written agreement with AEI granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action against AEI, its officers, employees, vendors, successors or assigns. Reliance is provided in accordance with AEI's contract and Terms and Conditions executed by Urban Designs, LLC on March 12, 2019. The limitation of liability defined in the Terms and Conditions is the aggregate limit of AEI's liability to the client and all relying parties.

2.0 SITE AND VICINITY DESCRIPTION

2.1 SITE LOCATION AND DESCRIPTION

PROPERTY INFORMATION	
Site Address(es)	Site bounded by 9th Street (north), Pine Street (east), Shorey Street (south), Frontage Road (west), Oakland, Alameda County, California 94607
Property ID (APN or Block/Lot)	6-47-1
Location	Southwest of 9th Street, northwest of Pine Street, west of Frontage Road, and northeast of Shorey Street
Property Type	Vacant Land
SITE AND BUILDING INFORMATION	
Approximate Site Acreage/Source	4.65/Client
Number of Buildings	None
Building Construction Date(s)	N/A
Building Square Footage (SF)/Source	N/A/N/A
Number of Floors/Stories	N/A
Basement or Subgrade Area(s)	None identified
Number of Units	One
Additional Improvements	None
On-site Occupant(s)	Vacant
Current On-site Operations/Use	None
Current Use of Hazardous Substances	None identified
REGULATORY INFORMATION	
Regulatory Database Listing(s)	Envirostor, VCP, HAZNET, US Brownfields, RCRA-SQG, FINDS, ECHO, Historic Cortese (x 2), CPS-SLIC, CERS (x 2), Alameda County CS (x 2), Historic UST, LUST, SWEEPS UST, CA FID UST

2.2 ON-SITE UTILITIES

Utility	Source/System Information
Heating System	N/A
Cooling System	N/A
Potable Water	N/A
Sewage Disposal/Treatment	N/A

The subject property is unimproved land; no active heating or cooling systems are located on the subject property, and no domestic water or sanitary service is provided.

2.3 SITE AND VICINITY CHARACTERISTICS

The subject property is located in a mixed commercial and industrial area of Oakland, California. The immediately surrounding properties consist of the following:

Direction	Tenant/Use (Address)	Regulatory Database Listing(s)
Northeast	9th Street followed by: Salvage yard/warehouse (no visible address) Trapeze Arts / Velocity Circus (1829 9th Street) Residence (903 Pine Street)	SEMS-Archive, Envirostor (1832 Shorey Street)
Southeast	Pine Street followed by residences (multiple addresses), unimproved lots, and Art Studios (800 Pine Street)	None identified
Southwest	Shorey Street followed by St. Luke's Missionary Church (767 Pine Street) and unimproved land	Response, Envirostor, CERS (Shorey Street) EDR Historic Auto (1807 Shorey Street)
West	Frontage Road and Highway 880 (Nimitz Freeway)	Envirostor, VCP (1823 Shorey Street)

If the surrounding properties are listed in the regulatory database, please refer to Section 5.1 for discussion.

2.4 PHYSICAL SETTING

Geologic Unit: Description/Source	Qm: Merritt Sand, described as beach or near-shore deposits of slightly clayey, silty sand/USGS and United States Department of the Interior
Soil Series: Description/Source	Urban Land/USDA Soil Survey Based on a review of the USDA Soil Survey for the area of the subject property, the soils in the vicinity of the subject property are classified as Urban Land. The Urban Land designation indicates that more than 85 percent of the original soils have been disturbed or covered by paved surfaces, buildings or other structures. Due to the variability of the soil material, on-site investigation would be required to determine the specific soil composition at the subject property.
Groundwater Flow Direction/Source	West/Topographic map interpretation
Estimated Depth to Groundwater/ Source	Eight to 10 feet bgs/Site-specific groundwater monitoring
Surface waters on the subject property or adjacent sites	None

Note: Groundwater flow direction can be influenced locally and regionally by the presence of local wetland features, surface topography, recharge and discharge areas, horizontal and vertical inconsistencies in the types and location of subsurface soils, and proximity to water pumping wells. Depth and gradient of the water table can change seasonally in response to variation in precipitation and recharge, and over time, in response to urban development such as storm water controls, impervious surfaces, pumping wells, cleanup activities, dewatering, seawater intrusion barrier projects near the coast, and other factors.

3.0 HISTORICAL REVIEW OF SITE AND VICINITY

Reasonably ascertainable standard historical sources as outlined in ASTM Standard E1527-13 were used to determine previous uses and occupancies of the subject property that are likely to have led to RECs in connection with the subject property. A chronological summary of historical data found, including but not limited to aerial photographs, historical city directories, Sanborn fire insurance maps, and agency records, is as follows:

Date Range	Subject Property Description and Use (Historical Addresses)	Source(s)
Prior to 1889	Unknown use/Data failure; refer to Section 1.6.1	Aerial photographs, Sanborn maps, agency records
1889-1902	Various residential structures/Residential use	Sanborn maps
1912	Various residential structures and a bedding & upholstering facility/Residential and industrial use	Sanborn map
1920s-1995	Prior industrial building/Various industrial tenants	Aerial photographs, Sanborn maps, agency records
1995-Present	Unimproved land	Aerial photographs, city directories, site observation

Based on a review of historical sources, the subject property was identified to consist of residential structures from at least 1889 until 1902. By 1912, the California Bedding & Upholstering Co. was located on the northern portion of the subject property. Beginning in the 1920s, the subject property was developed with industrial structures and occupied for a variety of industrial uses including auto parts manufacturing, steel and ironworks fabrication, and fireworks manufacturing. All structures were demolished by 1995, and the subject property has since been unimproved land. The subject property was initially portion of a larger parcel which extended towards the west; the western portion of the subject property was developed with the existing freeway and frontage road.

Environmental concerns associated with the historical industrial use of the subject property are discussed in Section 4.1.

If available, copies of historical sources are provided in the report appendices.

3.1 AERIAL PHOTOGRAPHS

AEI reviewed aerial photographs of the subject property and surrounding area. A search was made of the EDR collection of aerial photographs. Aerial photographs were reviewed for the following years:

Year(s)	Subject Property Description	Adjacent Site Descriptions
1939	Developed with multiple industrial- and residential-type structures	NORTHEAST: Roadway followed by industrial-type structures and apparent dwellings SOUTHEAST: Roadway followed by apparent dwellings SOUTHWEST: Roadway followed by apparent dwellings WEST: Railroad tracks followed by unimproved land
1946	Developed with an industrial-type structure, with the southwestern portion unimproved land	NORTHEAST: No significant changes visible SOUTHEAST: No significant changes visible SOUTHWEST: No significant changes visible WEST: Developed with warehouse-type structures and railways
1958, 1963, 1968, 1975, 1982, 1993	Developed with an industrial-type structure, which extends towards the west	NORTHEAST: No significant changes visible SOUTHEAST: No significant changes visible SOUTHWEST: No significant changes visible WEST: No significant changes visible
1998	Unimproved land, with an apparent storage yard on the northwestern portion	NORTHEAST: Roadway followed by warehouse-type structures and dwellings SOUTHEAST: No significant changes visible SOUTHWEST: No significant changes visible WEST: Developed with the existing freeway and frontage road
2005, 2009, 2012, 2016	Unimproved land	NORTHEAST: No significant changes visible SOUTHEAST: No significant changes visible SOUTHWEST: No significant changes visible WEST: No significant changes visible

Environmental concerns associated with the historical industrial use of the subject property are discussed in Section 4.1.

3.2 SANBORN FIRE INSURANCE MAPS

Sanborn Fire Insurance maps were developed in the late 1800s and early 1900s for use as an assessment tool for fire insurance rates in urbanized areas. A search was made of the EDR collection of Sanborn Fire Insurance maps.

The following maps were reviewed:

Year(s)	Subject Property Description (Listed Address)	Adjacent Site Descriptions
1889	Depicted as developed with multiple dwellings on the northeastern portion, with the remaining area depicted as unimproved land or vacant lots; Chase Street bisects the subject property in an approximate northwest-southeast direction	NORTHEAST: 9th Street followed by dwellings and vacant lots SOUTHEAST: Pine Street followed by dwellings SOUTHWEST: Division Street and Shorey Street followed by dwellings WEST: Vacant lots and railroad tracks followed by San Francisco Bay
1902	Additional dwellings are depicted near the central portion of the subject property; no other significant changes depicted	NORTHEAST: 9th Street followed by the Standard Oil Co. and dwellings SOUTHEAST: No significant changes depicted SOUTHWEST: No significant changes depicted WEST: No significant changes depicted
1912	Depicted as developed with the California Bedding & Upholstering Co. on the northern portion, dwellings on the northeastern portion, and scattered dwellings and unimproved land on the southern portion	NORTHEAST: 9th Street followed by the Standard Oil Co. and dwellings SOUTHEAST: No significant changes depicted SOUTHWEST: No significant changes depicted WEST: No significant changes depicted
1951, 1952	Depicted as developed with the Independent Iron Works Limited facility, including an erection shop, sheet metal shop, drafting shop, and portions of warehouses	NORTHEAST: 9th Street followed by warehouses, a blacksmith shop, and dwellings SOUTHEAST: No significant changes depicted SOUTHWEST: No significant changes depicted WEST: Railroad tracks are depicted adjacent to the northern portion, with the remaining Independent Iron Works Limited building adjacent to the southern portion
1957, 1958, 1961	No significant changes depicted	NORTHEAST: No significant changes depicted SOUTHEAST: No significant changes depicted SOUTHWEST: Shorey Street followed by dwellings and an auto repair facility WEST: No significant changes depicted
1970	No significant changes depicted	NORTHEAST: 9th Street followed by the Irving Subway Grating Company, warehouse, and dwellings beyond SOUTHEAST: No significant changes depicted SOUTHWEST: No significant changes depicted WEST: No significant changes depicted

Environmental concerns associated with the historical industrial use of the subject property are discussed in Section 4.1.

3.3 CITY DIRECTORIES

A search of historical city directories was conducted for the subject property at the Oakland Public Library. The following table summarizes the results of the city directory search.

Year(s)	Address - Occupant Listed
1973	Addresses not listed
1978, 1983	888 Cedar Street - XXXX
1987, 1993	800 Cedar Street - Gregs Mechanical Services, J & A Machine Shop
1998, 2003, 2008, 2013	Addresses not listed

If listed above, XXXX indicates that the address is valid but there is no occupancy information available.

AEI did not identify potential environmental concerns in association with the historical use of the subject property during the city directory review.

3.4 HISTORICAL TOPOGRAPHIC MAPS

Based on the quality of information obtained from other sources, historical topographic maps were not reviewed as a part of this assessment.

3.5 CHAIN OF TITLE

Based on the quality of information obtained from other sources, a chain of title search was not performed as part of this assessment.

4.0 REGULATORY AGENCY RECORDS REVIEW

Local and state agencies, such as environmental health departments, fire prevention bureaus, and building and planning departments are contacted to identify any current or previous reports of hazardous substance use, storage, and/or unauthorized releases that may have impacted the subject property. In addition, information pertaining to AULs, defined as legal or physical restrictions, or limitations on the use of, or access to, a site or facility, is requested.

4.1 LOCAL ENVIRONMENTAL HEALTH DEPARTMENT AND/OR STATE ENVIRONMENTAL AGENCY

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
Alameda County Department of Public Health (ACDEH)	March 15, 2019	Website/Email	Ms. Yvonne Cummings	Records discussed below

The subject property, identified as The Phoenix at 800 Pine Street and Phoenix Iron Works at 888 Cedar Street, is identified on the ACDEH LOP database. In addition, various addresses associated with the subject property are identified on the RWQCB Geotracker database and the DTSC Envirostor database. Documentation from all three agencies was reviewed during the course of this assessment, and discussed below. Pertinent documentation reviewed included:

Phase I Environmental Site Assessment, 800 Cedar Street, APN 006-047-001, prepared by Northgate Environmental Management, Inc. (December 16, 2011)

Phase II Soil Investigation Report, 800 Cedar Street, APN 006-047-001, prepared by Northgate Environmental Management, Inc. (November 9, 2011)

Limited Subsurface Investigation Report, Former Phoenix Iron Works, 800 Pine Street, Oakland, CA, prepared by P & D Environmental, Inc. (September 5, 2017)

Soil and Groundwater Management Plan, Urban Designs, LLC, 800 Cedar Street, Oakland, CA, prepared by P & D Environmental, Inc. (December 1, 2017)

Limited Subsurface Investigation Report, The Phoenix, 801 Pine Street, Oakland, CA, prepared by P & D Environmental, Inc. (February 14, 2019)

The subject property was formerly utilized for a variety of industrial purposes between 1920 and the 1990s, including auto parts manufacturing, steel and ironworks fabrication, and fireworks manufacturing. The subject property was formerly a portion of the Phoenix Iron Works plant that occupied the entire block bounded by Shorey, 9th, Pine, and Cedar Streets. The Phoenix facility previously extended towards the southwest; this area was subsequently used for construction of the Cypress Freeway and the existing Frontage Road. Multiple environmental investigations have been conducted at the subject property beginning in 1992. Five USTs were removed from the subject property and the former portion of the subject property, now the adjacent property to the west. Soil and groundwater has been impacted from historical industrial use and from off-site sources. Elevated concentrations of petroleum-related compounds, including TRPH, TPHd, and TPHmo have been detected at concentrations exceeding screening levels (RWQCB ESLs) on the western portion of the subject property, with TRPH and TPHmo at maximum concentrations of 1,100 mg/kg and 990 mg/kg, respectively. Lead was detected in soil at concentrations exceeding residential ESLs along the western portion of the subject property, at a maximum concentration of 1,690 mg/kg.

Petroleum hydrocarbons and VOCs are present in groundwater at concentrations exceeding ESLs beneath the eastern and southern portions of the subject property, with TPHmo, TCE, chloroform, and PCE detected at maximum concentrations of 120 µg/L, 140 µg/L, 23 µg/L, and 5.1 µg/L, respectively. Additionally, dissolved metals have historically been detected at concentrations exceeding ESLs beneath the eastern and southern portions of the subject property. TCE and chloroform have been detected in soil gas samples at maximum concentrations of 4,000 µg/m^3 and 2,600 µg/m^3 , respectively.

The subject property was formerly managed as a DTSC Envirostor case, with Caltrans as the responsible party. In November 2017, the responsible party, identified as Urban Designs LLC, entered into a Voluntary Remedial Action Agreement (VRAA) with with ACDEH as the regulatory oversight agency. The purpose of the VRAA is to investigate the extent of soil, groundwater, and soil gas contamination and to facilitate the redevelopment of the subject property with a 316-unit residential development. The most recent document in the ACDEH file is a *Limited Subsurface Investigation Report*, prepared by P & D Environmental, Inc. and dated February 14, 2019. The report documents the results of data gaps sampling conducted in 2018, and recommends the preparation of a Corrective Action Plan for redevelopment of the subject property for residential use. The release of hazardous substances and petroleum products to the subsurface of the subject property is considered a recognized environmental condition. In addition, VOCs in the subsurface may present a health hazard to future residential receptors at the subject property, if not addressed by corrective action or engineering controls.

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
California Environmental Protection Agency (Cal/EPA)	March 25, 2019	Website	https://siteportal.calepa.ca.gov	The subject property, identified as Phoenix Iron Works at 888 Cedar Street and The Phoenix at 801 Pine Street, is identified on the Cal/EPA CERS database. Additional information is provided above.

4.2 FIRE DEPARTMENT

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
Oakland Fire Department (OFD)	March 15, 2019	Telephone	N/A	No hazardous materials records on file

4.3 BUILDING DEPARTMENT

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
Oakland Building Department (OBD)	March 22, 2019	Office visit	N/A	Records discussed below

Records Summary

Year(s)	Owner/Applicant	Description of Permit and Building Use
1995	N/A	Demolish Phoenix Iron Works
1995	N/A	Relocate three homes to 800 Cedar Street
2018	N/A	Multiple soil boring permits

Evidence indicating current or prior use or storage of hazardous substances was not on file for the subject property with the OBD.

4.4 PLANNING DEPARTMENT

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
Oakland Planning Department (OPD)	March 22, 2019	Office visit	N/A	No evidence indicating the existence of AULs on file for the subject property

4.5 ASSESSOR'S OFFICE

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
Alameda County Assessor's Office	March 22, 2019	Office visit	N/A	Information obtained is discussed below

Records Summary

APN	6-47-1
Acreage	5.5 acres
Construction Date	N/A
Building Square Footage	N/A
Current Owner	State of California
Additional Information	The acreage appears to include the portion of the former parent parcel now occupied by the freeway and frontage road; the current subject property is approximately 4.65 acres.

4.6 OTHER AGENCIES SEARCHED

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
CA State Water Resources Control Board (SWRCB) GeoTracker	March 21, 2019	Website	N/A	The subject property, identified as The Phoenix at 801 Pine Street, is identified on the Geotracker database; additional information is provided in Section 4.1.
CA Department of Toxic Substances Control (DTSC) Hazardous Waste Tracking System (HWTS)	March 25, 2019	Website	N/A	Records discussed below
CA DTSC Envirostor	March 21, 2019	Website	N/A	The subject property, identified as Dept of Transportation at 800 Cedar Street, is identified on the Envirostor database; additional information is provided in Section 4.1.
Bay Area Air Quality Management District (BAAQMD)	March 15, 2019	Website	Ms. Rochelle Reed	No records on file

The subject property is identified on the HWTS as follows:

- Caltrans was issued EPA ID CAC001029656, which is listed as inactive as of October 25, 2000. Approximately 9.4 tons of alkaline solution, organic waste, and empty containers were generated under this EPA ID in 1995.
- Department of Transportation was issued EPA ID CAC001479328, which is listed as inactive as of October 2000. Approximately 1,8 tons of contaminated soil from site clean-up was generated under this EPA ID in 2000.
- Caltrans, District 4 Environmental was issued EPA ID CAC002888702, which is listed as inactive as of March 2017. No RCRA hazardous waste was generated under this EPA ID.
- Greg Walker was issued EPA ID CAL000018992, which is listed as inactive as of June 1995. No RCRA hazardous waste was generated under this EPA ID.
- Caltrans was issued EPA ID CAR000011692, which is listed as inactive as of June 1998. No RCRA hazardous waste was generated under this EPA ID.

4.7 OIL AND GAS WELLS

Agency	Date Referenced	Resource	Oil or gas wells located within 500 feet of the subject property
California Department of Oil, Gas & Geothermal Resources (CA DOGGR)	March 22, 2019	CA DOGGR Map	No

4.8 OIL AND GAS PIPELINES

Agency	Date Referenced	Resource	Pipelines located within 500 feet of the subject property
National Pipeline Mapping System (NPMS)	March 22, 2019	NPMS Public Map Viewer	No

4.9 STATE ENVIRONMENTAL SUPERLIENS

In accordance with our approved scope of services, AEI did not assess whether the subject property is subject to any state environmental superliens.

4.10 STATE PROPERTY TRANSFER LAWS

In accordance with our approved scope of services, AEI did not assess whether the subject property is subject to any state property transfer laws.

5.0 REGULATORY DATABASE RECORDS REVIEW

AEI contracted EDR to conduct a search of publicly available information from federal, state, tribal, and local databases containing known and suspected sites of environmental contamination and sites of potential environmental significance. Data gathered during the current regulatory database search is compiled by EDR into one regulatory database report. Location information for listed sites is designated using geocoded information provided by federal, state, or local agencies and commonly used mapping databases with the exception of "Orphan" sites. Due to poor or inadequate address information, Orphan sites are identified but not geocoded/mapped by EDR, rather, information is provided based upon vicinity zip codes, city name, and state. The number of listed sites identified within the approximate minimum search distance from the federal and state environmental records database listings specified in ASTM Standard E1527-13 is summarized in Section 5.1, along with the total number of Orphan sites. A copy of the regulatory database report, which includes detailed descriptions of the databases noted below, is included in Appendix C of this report.

In determining if a listed site is a potential environmental concern to the subject property, AEI generally applies the following criteria to classify the site as lower potential environmental concern: 1) the site only holds an operating permit (which does not imply a release), 2) the site's distance from, and/or topographic position relative to, the subject property, and/or 3) the site has recently been granted "No Further Action" by the appropriate regulatory agency.

Regulatory database listings associated with the subject property, adjacent site(s) and/or nearby sites of concern that were determined to warrant additional discussion are identified and further discussed in Section 5.1.

5.1 RECORDS SUMMARY

Database	Search Distance (Miles)	Listings Within Search Distance	Subject Property	Adjacent Site(s)	Other Nearby Sites of Concern
NPL	1.0	1			
DELISTED NPL	0.5	0			
SEMS/CERCLIS	0.5	1			
SEMS-ARCHIVE/CERCLIS NFRAP	0.5	4		✓	
RCRA CORRACTS	1.0	0			
RCRA-TSDF	0.5	0			
RCRA LQG, SQG, CESQGs, NLR	SP/ADJ	1	✓		
US ENG CONTROLS	SP	0			
US INST CONTROLS	SP	0			
ERNS	SP	0			
STATE/TRIBAL HWS	1.0	103	✓	✓	
STATE/TRIBAL SWLF	0.5	2			
STATE/TRIBAL REGISTERED STORAGE TANKS	SP/ADJ	0			
STATE/TRIBAL LUST	0.5	24	✓		

Database	Search Distance (Miles)	Listings Within Search Distance	Subject Property	Adjacent Site(s)	Other Nearby Sites of Concern
STATE/TRIBAL EC and IC	SP	0			
STATE/TRIBAL VCP	0.5	15	✓	✓	
STATE/TRIBAL BROWNFIELD	0.5	4	✓		
ORPHAN	N/A	4			
ADDITIONAL ENVIRONMENTAL RECORD SOURCES	SP/ADJ	13	✓	✓	

Facility Name	Department of Transportation / 800 Cedar Street / Caltrans / The Phoenix / Pep Boys / Phoenix Iron Works
Address	800 Cedar Street / 801 Pine Street / 1818 Shorey Street / 888 Cedar Street
Distance & Direction	Subject Property
Hydrologic Position	N/A
Databases Listed	Envirostor, VCP, HAZNET, US Brownfields, RCRA-SQG, FINDS, ECHO, Historic Cortese (x 2), CPS-SLIC, CERS (x 2), Alameda County CS (x 2), Historic UST, LUST, SWEEPS UST, CA FID UST
Comments	The Envirostor and VCP listings pertains to the former VCP for the subject property, which has been superseded by the existing VRRA between Urban Designs, LLC and ACDEH. The LUST, CPS-SLIC, and Historic Cortese listings pertain to the current and former release cases. The RCRA and HAZNET listings indicates the subject property generated hazardous waste; additional information regarding quantities and hazardous waste streams is provided in Section 4.6. The US Brownfields listing indicates the City of Oakland was provided a grant under the Brownfields Assessment Cooperative Agreement to conduct Phase I and Phase II Site Assessments; these documents are discussed in Section 4.1. The SWEEPS UST, CA FID UST, and Historic UST listings pertain to the former USTs at the subject property. As discussed in Section 4.1, The release of hazardous substances and petroleum products to the subsurface of the subject property is considered a recognized environmental condition. Additional information regarding historical and ongoing site assessment and remedial action at the subject property is provided in Section 4.1.

Facility Name	Batavia Property
Address	1832 Shorey Street
Distance & Direction	Adjacent to the east
Hydrologic Position	Up-gradient
Databases Listed	SEMS-Archive, Envirostor

Comments	These listings pertain to the adjacent property to the east, across 9th Street. According to these listings, a Preliminary Assessment / Site Inspection (PA/SI) was conducted by EPA in 1997; no contamination was found. DTSC certified the investigation as complete with no further action in 1998. Based on the lack of a documented release, the review of regulatory agency files for this site was not deemed necessary, and the site is not expected to represent a significant environmental concern.

Facility Name	Vacant Auto Repair
Address	Shorey Street
Distance & Direction	Adjacent to the southwest
Hydrologic Position	Down-gradient
Databases Listed	Response, Envirostor, CERS
Comments	These listings are assumed to pertain to the adjacent property to the southwest, across Shorey Street, which has since been redeveloped with the Nimitz Freeway and Frontage Road. According to these listings, a site screening was conducted in 1994; no contaminants were found. DTSC certified the investigation as complete with no further action in 1994. Based on the lack of a documented release, the inferred direction of groundwater flow, and redevelopment of this property. the review of regulatory agency files for this site was not deemed necessary, and the site is not expected to represent a significant environmental concern.

Facility Name	Eds Automotive
Address	1807 Shorey Street
Distance & Direction	Adjacent to the southwest
Hydrologic Position	Down-gradient
Databases Listed	EDR Historic Auto
Comments	This listing pertains to a property adjacent to the southwest, across Shorey Street, which has since been redeveloped with the Nimitz Freeway and Frontage Road. According to this listing, this tenant occupied this location in 1967. Based on the lack of a documented release, the inferred direction of groundwater flow, and redevelopment of this property. the review of regulatory agency files for this site was not deemed necessary, and the site is not expected to represent a significant environmental concern.

Facility Name	B & A Auto Dismantlers
Address	1823 Shorey Street
Distance & Direction	Adjacent to the southwest
Hydrologic Position	Down-gradient
Databases Listed	Envirostor, VCP

Comments	These listings pertain to the adjacent property to the southwest, across Shorey Street. This area has since been used for construction of the Nimitz Freeway and Frontage Road. According to these listings, soil and groundwater investigations conducted in December 1992 found elevated concentrations of petroleum hydrocarbons and lead. Approximately 670 cubic yards of soil was excavated and transported for off-site disposal. This area was subsequently redeveloped with the existing frontage road. DTSC certified the remediation as complete with no further action in January 1997. Based on the case closure, the inferred direction of groundwater flow, and redevelopment of this property. the review of regulatory agency files for this site was not deemed necessary, and the site is not expected to represent a significant environmental concern.

5.2 VAPOR MIGRATION

AEI reviewed reasonably ascertainable information for the subject and nearby properties, including a regulatory database, files for nearby release sites, and/or historical documentation, to determine if potential vapor-phase migration concerns may be present which could impact the subject property.

Potential vapor migration concerns for the subject property are discussed in Section 4.1.

6.0 INTERVIEWS AND USER PROVIDED INFORMATION

6.1 INTERVIEWS

Pursuant to ASTM E1527-13, the following interviews were performed during this assessment in order to obtain information indicating RECs in connection with the subject property.

6.1.1 OWNER AND KEY SITE MANAGER

Relation to Property	Name	Date Interviewed	Method of Contact	Year First Associated w/ Property	Notes
Owner/Owner Representative	State of California	N/A	N/A	N/A	Not interviewed; refer to Section 1.5
Key Site Manager	N/A	N/A	N/A	N/A	No Key Site Manager identified

Interview Summary

Question	Owner (Representative) Response/ Comment	Key Site Manager Response/ Comment
Do you have any knowledge of USTs, clarifiers or oil/water separators, sumps, or other subsurface features?	N/A	N/A
Do you have any knowledge of previous environmental investigations conducted on site?	N/A	N/A
Do you have any knowledge of current or past industrial operations and/or other operations which would involve the use of hazardous substances and/or petroleum products?	N/A	N/A
Are you aware of any known plans for site redevelopment or change in site use?	N/A	N/A
Are you aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?	N/A	N/A
Are you aware of any pending, threatened or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?	N/A	N/A
Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	N/A	N/A
Are you aware of any incidents of flooding, leaks, or other water intrusion, and/or complaints related to indoor air quality?	N/A	N/A
Additional information provided:	N/A	N/A

6.1.2 PAST OWNERS, OPERATORS, AND OCCUPANTS

AEI did not attempt to interview past owners, operators, and occupants of the subject property because information from these sources would likely be duplicative of information already obtained from other sources.

6.1.3 INTERVIEW WITH OTHERS

Information obtained during interviews with local government officials is incorporated into the appropriate segments of this report.

6.2 USER PROVIDED INFORMATION

User provided information is intended to help identify the possibility of RECs in connection with the subject property. According to ASTM E1527-13 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), certain items should be researched by the prospective landowner or grantee, and the results of such inquiries may be provided to the Environmental Professional. The responsibility for qualifying for LLPs by conducting the inquiries ultimately rests with the User, and providing the information to the Environmental Professional would be prudent if such information is available.

The User did not complete the ASTM User Questionnaire or provide the User information to AEI. AEI assumes that qualification for the LLPs is being established by the User in documentation outside of this assessment.

Question	Response/ Comment
1. Environmental liens that are filed or recorded against the property (40 CFR 312.25) Did a search of recorded land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the property under federal, tribal, state or local law?	Yes - Although not a lien, User referred to Notice and Memorandum of Environmental Contamination
2. Activity and use limitations that are in place on the property or that have been filed or recorded against the property (40 CFR 312.26(a)(1)(v) and vi)). Did a search of recorded land title records (or judicial records where appropriate) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?	No
3. Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28). Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?	No
4. Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29). Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?	Yes

Question	Response/ Comment
5. Commonly known or reasonably ascertainable information about the property (40 CFR 312.30). Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example: (a) Do you know the past uses of the property? (b) Do you know of specific chemicals that are present or once were present at the property? (c) Do you know of spills or other chemical releases that have taken place at the property? (d) Do you know of any environmental cleanups that have taken place at the property?	Yes - User referred to documentation from ACHD
6. The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31). Based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?	Yes - User referred to documentation from ACHD

6.3 PREVIOUS REPORTS AND OTHER PROVIDED DOCUMENTATION

No prior reports or other relevant documentation in association with the subject property was made available to AEI during the course of this assessment.

6.4 ENVIRONMENTAL LIEN SEARCH

In accordance with our approved scope of services, an environmental lien search was not performed as part of this assessment.

7.0 SITE RECONNAISSANCE

Site Reconnaissance Date	March 22, 2019
AEI Site Assessor(s)	Erik Brown
Property Escort(s)/ Relationship(s) to Property	AEI was not escorted during the site reconnaissance
Units/Areas Observed	All exterior areas
Area(s) not accessed and reason(s)	None
Other Physical Constraints	None

Reconnaissance Findings Summary

Feature	Observed on Subject Property (see Section 7.1)	Observed on Adjacent Property (see Section 7.2)
Regulated Hazardous Substances/Wastes and/or Petroleum Products in Connection with Property Use		
Aboveground/Underground Hazardous Substance or Petroleum Product Storage Tanks (ASTs/USTs)		
Hazardous Substance and Petroleum Product Containers Not in Connection with Property Use		
Unidentified Substance Containers	✓	
Electrical or Mechanical Equipment Likely to Contain Fluids		✓
Interior Stains or Corrosion		
Strong, Pungent, or Noxious Odors		
Pools of Liquid		
Drains, Sumps, and Clarifiers		✓
Pits, Ponds, and Lagoons		
Stained Soil or Pavement		
Stressed Vegetation		
Solid Waste Disposal or Evidence of Fill Materials		
Waste Water Discharges		
Wells		
Septic Systems		
Biomedical Wastes		
Other	✓	

7.1 SUBJECT PROPERTY RECONNAISSANCE FINDINGS

During the site reconnaissance, AEI observed the items listed in the above Reconnaissance Findings Summary table, which are further discussed below.

UNIDENTIFIED SUBSTANCE CONTAINERS

Substance/Waste (size/ quantity)	Container Condition	Location	Secondary Containment	Staining/Spills
Presumed soil cuttings (55-gallon drum/4)	Southeastern portion of subject property	On concrete pad	No	No

The four drums were located on the southeastern portion of the subject property, and were labeled as nonhazardous waste. The labeling on the drums was faded and illegible. The drums are presumably soil cuttings from environmental and/or geotechnical investigations conducted at the subject property. The drums appeared to be intact, with no signs of leaks or stains. The drums should be profiled and disposed of accordingly.

OTHER

Miscellaneous trash and debris was observed at various locations on the subject property. The trash and debris appeared to consist of household trash, mattresses and box springs, and dilapidated furniture. No hazardous substances were observed at the subject property.

7.2 ADJACENT PROPERTY RECONNAISSANCE FINDINGS

During the site reconnaissance, AEI observed the items listed in the above Reconnaissance Findings Summary table, which are further discussed below.

ELECTRICAL OR MECHANICAL EQUIPMENT LIKELY TO CONTAIN FLUIDS

Toxic PCBs were commonly used historically in electrical equipment such as transformers, fluorescent lamp ballasts, and capacitors. According to United States EPA regulation 40 CFR, Part 761, there are three categories for classifying such equipment: <50 ppm of PCBs is considered "Non-PCB"; between 50 and 500 ppm is considered "PCB-Contaminated"; and >500 ppm is considered "PCB-Containing". Pursuant to 15 U.S.C. 2605(e)(2)(A), the manufacture, process, or distribution in commerce or use of any polychlorinated biphenyl in any manner other than in a totally enclosed manner was prohibited after January 1, 1977.

Transformers

The management of potential PCB-containing transformers is the responsibility of the local utility or the transformer owner. Actual material samples need to be collected to determine if transformers are PCB-containing.

Several pole-mounted transformers were observed on the adjacent sites during the site reconnaissance. No spills, staining, or leaks were observed on or around the transformers. Based on the good condition of the equipment, the transformers are not expected to represent a significant environmental concern.

DRAINS, SUMPS, AND CLARIFIERS

Several storm drains were observed in the parking areas of the adjacent properties and adjacent roadways. AEI did not observe evidence of hazardous substances or petroleum products in the vicinity of the drains. Based on the use of the drains solely for storm water runoff, the presence of the drains is not expected to represent a significant environmental concern.

8.0 NON-ASTM SERVICES

8.1 ASBESTOS-CONTAINING BUILDING MATERIALS

The subject property is currently vacant land or lacks structures. Consequently, no building components containing suspect asbestos containing materials were identified during the site inspection.

8.2 LEAD-BASED PAINT

The subject property is currently vacant land or lacks structures. Consequently, AEI did not observe building components likely to contain suspect LBP during the site reconnaissance.

8.3 RADON

Radon is a naturally-occurring, odorless, and invisible gas. Natural radon levels vary and are closely related to geologic formations. Radon may enter buildings through basement sumps or other openings.

The United States EPA has prepared a map to assist National, State, and local organizations to target their resources and to implement radon-resistant building codes. The map divides the country into three radon zones, with Zone 1 being those areas with the average predicted indoor radon concentration in residential dwellings exceeding the EPA Action Limit of 4.0 pCi/L. It is important to note that the EPA has found homes with elevated levels of radon in all three zones, and the EPA recommends site specific testing in order to determine radon levels at a specific location. However, the map does give a valuable indication of the propensity of radon gas accumulation in structures.

Radon sampling was not requested as part of this assessment. According to the US EPA, the radon zone level for the area is Zone 2, which has a predicted average indoor screening level between 2 pCi/L and 4 pCi/L, equal to or below the action level of 4 pCi/L set forth by the US EPA.

8.4 MOLD

The subject property is currently vacant land or lacks structures. Consequently, mold was not addressed as part of this assessment.

9.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONALS

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR Part 312.

We have the specific qualifications based on education, training, and experience to assess a property of the nature, history and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

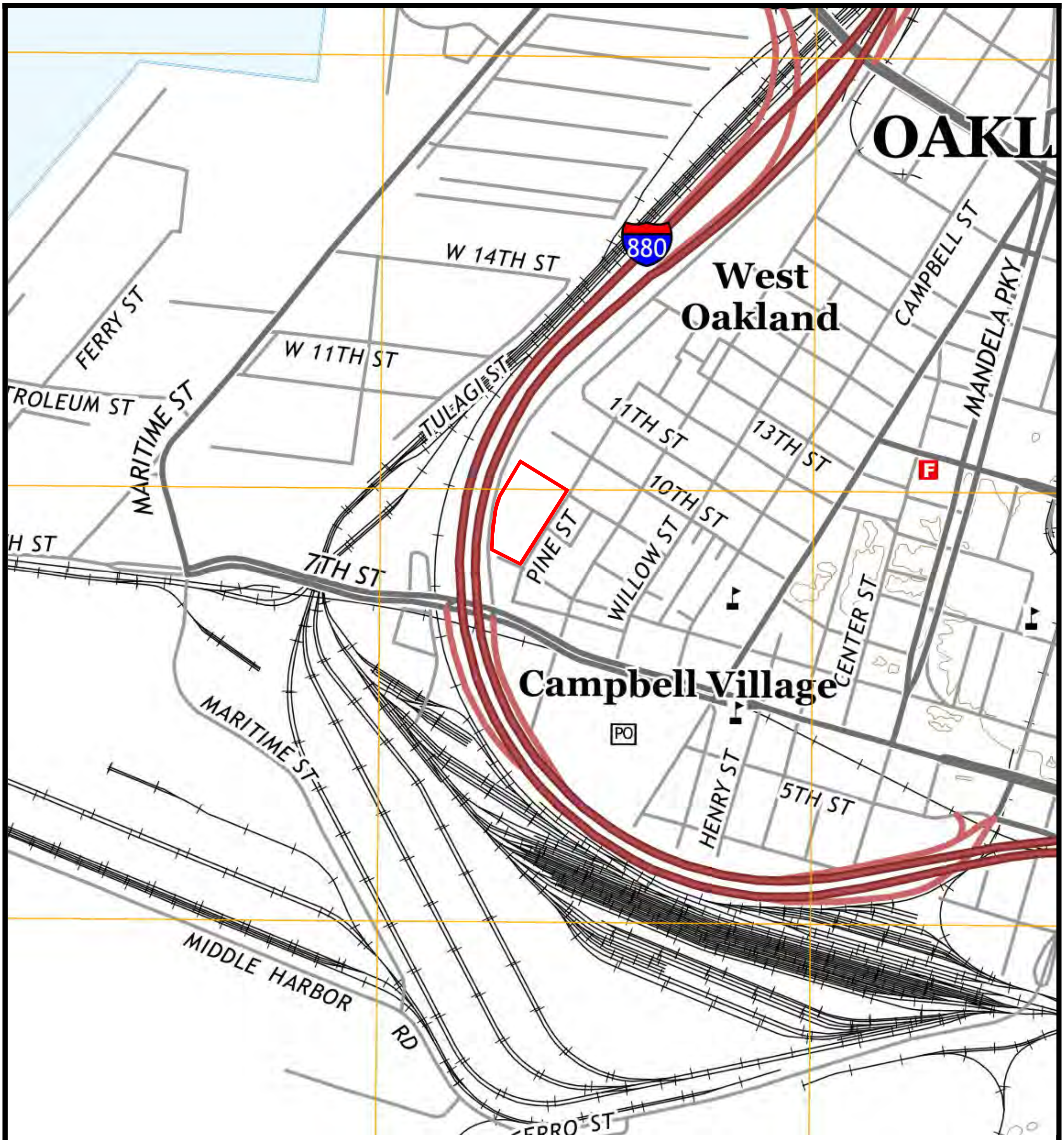
Prepared By:	Reviewed By:
Erik Brown Project Manager	Richard D. Fehler Senior Author

10.0 REFERENCES

Item	Date(s)	Source
Soils Information	Accessed March 2018	USDA Web Soil Survey http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
Topographic Map	2015	USGS, Oakland West
Depth to Groundwater Information	February 14, 2019	Limited Subsurface Investigation Report, The Phoenix, 801 Pine Street, Oakland, CA, prepared by P & D Environmental, Inc.
Aerial Photographs	1939-2016 (non-inclusive)	EDR
Sanborn Map Report/Search	1889-1970 (non-inclusive)	EDR
City Directories	1973-2018 (non-inclusive)	Oakland Public Library
Environmental Health Department	March 15, 2019	Alameda County Department of Public Health
State Environmental Agency	March 25, 2019	California Environmental Protection Agency
Fire Department	March 15, 2019	Oakland Fire Department
Building Department	March 22, 2019	Oakland Building Department
Planning Department	March 22, 2019	Oakland Planning Department
Assessor's Information and Parcel Map	March 22, 2019	Alameda County Assessor's Office
Other Agencies Searched	March 15, 21, and 25, 2019	SWRCB GeoTracker, DTSC HWTS, and DTSC Envirostor databases; BAAQMD
Oil and Gas Wells	March 22, 2019	California Department of Oil, Gas & Geothermal Resources
Oil and Gas Pipelines	March 22, 2019	NPMS Public Map Viewer https://www.npms.phmsa.dot.gov/PublicViewer/composite.jsf
State Environmental Superliens	March 21, 2019	NETR Online Environmental Lien and AUL State Statutes website http://environmental.netronline.com/lienStatutes.aspx
Regulatory Database Report	March 15, 2019	EDR
Interview with Owner	N/A	State of California
Interview with Key Site Manager	N/A	None identified
Radon Zone Information	1993	US EPA Map of Radon Zones https://www.epa.gov/radon

APPENDIX A

FIGURES



Legend

Approximate Property Boundary 🟥

Source: USGS Topographic Map *Oakland West, California* (2015)

N

Figure 1: TOPOGRAPHIC MAP

Site bounded by 9th Street (north), Pine Street (east), Shorey Street (south), Frontage Road (west)

Project Number: 402500

AEI Consultants

Legend

Estimated Groundwater Flow Direction ➡

Approximate Property Boundary —

Listed in Environmental Database Report *

Four Drums of Presumed Soil Cuttings

Former USTs

N

Figure 2: SITE MAP

Site bounded by 9th Street (north), Pine Street (east), Shorey Street (south), Frontage Road (west)

Project Number: 402500

AEI Consultants

APPENDIX B

PROPERTY PHOTOGRAPHS

1. View of the northern portion of the subject property

2. View of the northern portion of the subject property

3. View of the central portion of the subject property

4. View of the central portion of the subject property

5. View of the southern portion of the subject property

6. View of the southeastern portion of the subject property

7. View of four drums of presumed soil cuttings on the southeastern portion of the subject property

8. View of the southern portion of the subject property

9. View of residences adjacent to the southeast of the subject property

10. View of 800 Pine Street Art Studios adjacent to the south

11. View of the retaining wall to the west of the subject property, with Frontage Road beyond

12. View of Trapeze Arts / Velocity Circus adjacent to the northeast (1822 9th Street)

13. View of St. Luke's Missionary Church adjacent to the southwest (767 Pine Street)

APPENDIX C

REGULATORY DATABASE

402500 - 9th St North ,
Pine St East ,shorey St South ,frontage Rd West
Oakland, CA 94607

Inquiry Number: 5590975.2s
March 15, 2019

The EDR Radius Map™ Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

FORM-LBI-ASH

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GEOCHECK ADDENDUM

GeoCheck - Not Requested

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

PINE ST EAST ,SHOREY ST SOUTH ,FRONTAGE RD WEST
OAKLAND, CA 94607

COORDINATES

Latitude (North):	37.8097030 - 37˚ 48' 34.93''
Longitude (West):	122.3033680 - 122˚ 18' 12.12''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	561322.1
UTM Y (Meters):	4184724.8
Elevation:	13 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5641112 OAKLAND WEST, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140608
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
PINE ST EAST ,SHOREY ST SOUTH ,FRONTAGE RD WEST
OAKLAND, CA 94607

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
Reg	OAKLAND ARMY BASE (C		DOD	Same	2010, 0.381, NW
Reg	AMCO CHEMICAL	1414 THIRD STREET	NPL, SEMS, CA ENVIROSTOR, CA HIST Cal-Sites, CA...	Same	3004, 0.569, SE
A1	DEPT OF TRANSPORTATI	800 CEDAR ST	CA ENVIROSTOR, CA VCP, CA HAZNET	Higher	1 ft.
A2	800 CEDAR ST	800 CEDAR STREET	US BROWNFIELDS	Higher	1 ft.
A3	CALTRANS	800 CEDAR ST	RCRA-SQG, FINDS, ECHO	Higher	1 ft.
B4	PEP BOYS	1818 SHOREY	CA HIST CORTESE	Higher	1 ft.
C5	OCEAN CONLAINER SYST	801 CEDAR ST	RCRA-SQG, FINDS, ECHO	Higher	7, 0.001, North
B6	THE PHOENIX	801 PINE STREET	CA CPS-SLIC, CA CERS	Higher	10, 0.002, South
B7	VACANT AUTO REPAIR	SHOREY STREET	CA RESPONSE, CA ENVIROSTOR, CA CERS	Higher	27, 0.005, SSW
D8	BATAVIA PROPERTY	1832 9TH STREET	SEMS-ARCHIVE	Higher	32, 0.006, NE
B9	EDO S AUTOMOTIVE	1807 SHOREY ST	EDR Hist Auto	Higher	37, 0.007, South
C10	BATAVIA PROPERTY	1832 9TH STREET	CA ENVIROSTOR	Higher	48, 0.009, North
B11	THE PHOENIX	800 PINE ST	CA Alameda County CS	Higher	76, 0.014, SSE
B12	B & A AUTO DISMANTLE	1823 SHOREY STREET	CA ENVIROSTOR, CA VCP	Higher	98, 0.019, SSW
D13	PHOENIX IRON WKS	888 CEDAR ST	CA HIST UST	Higher	225, 0.043, NE
E14	RADOMSKY PROPERTY	930 PINE STREET	CA ENVIROSTOR	Higher	273, 0.052, ENE
F15	CALIFORNIA WASTE SOL	1819 10TH ST	CA CERS HAZ WASTE, CA CERS TANKS, CA CERS	Higher	292, 0.055, NNE
G16	PHOENIX IRON WKS.	888 CEDAR ST	CA LUST, CA Alameda County CS, CA SWEEPS UST, CA...	Higher	340, 0.064, SSW
E17	GLOBE METALS COMPANY	182010TH	CA HIST CORTESE	Higher	359, 0.068, NE
G18	CALTRANS	727 PINE ST	CA ENVIROSTOR, CA VCP, CA HAZNET	Higher	359, 0.068, SSW
G19	WILFRED’S AUTO WRECK	1834 7TH STREET	CA ENVIROSTOR, CA VCP	Higher	364, 0.069, SSW
G20	MIYAKE TAKITARO	1796 7TH ST	EDR Hist Cleaner	Higher	387, 0.073, South
H21	SUNLIGHT CLEANERS	801 WOOD ST	EDR Hist Cleaner	Higher	396, 0.075, SE
F22	GLOBE METALS CO.	1820 010TH ST	CA SWEEPS UST, CA FID UST	Higher	413, 0.078, NNE
F23	GLOBE METALS CO.	1820 10TH ST	CA HIST UST	Higher	424, 0.080, NNE
F24	CALIFORNIA WASTE SOL	1820 10TH ST	CA CPS-SLIC, CA Alameda County CS, CA PROC, CA...	Higher	424, 0.080, NNE
F25	GLOBE METALS CO	1820 TENTH STREET	CA HIST UST	Higher	424, 0.080, NNE
F26	CA WASTE SOLUTIONS 1	1820 10TH STREET (PA	CA SWF/LF	Higher	424, 0.080, NNE
F27	CALIFORNIA WASTE SOL	1820 10TH ST	CA CERS HAZ WASTE, CA CERS TANKS, CA CERS	Higher	424, 0.080, NNE
F28	CALIFORNIA WASTE SOL	1820 10TH ST.	CA SWF/LF	Higher	424, 0.080, NNE
F29	CALIFORNIA WASTE SOL	1820 10TH ST	CA AST	Higher	424, 0.080, NNE
I30	S.P. CO. DESERT YARD	515 BAY ST	CA SWEEPS UST, CA HIST UST	Higher	462, 0.087, SW
I31	W.O. RIP TRACK	515 BAY ST	CA LUST, CA Alameda County CS, CA SWEEPS UST, CA...	Higher	462, 0.087, SW
I32	W.O. RIP TRACK	515 BAY ST	CA HIST UST	Higher	462, 0.087, SW
H33	GOSSWOOD HOUSING ASS	1751 GOSS	CA LUST, CA Alameda County CS, CA SWEEPS UST, CA...	Higher	475, 0.090, SSE
E34	JENKINS AUTO WRECKER	1778 10TH STREET	CA ENVIROSTOR, CA ENF	Higher	482, 0.091, ENE
E35	1014 PINE STREET	1014 PINE STREET	US BROWNFIELDS, FINDS	Higher	490, 0.093, NE
J36	L AND E CLEANERS	1791 7TH ST	EDR Hist Cleaner	Higher	512, 0.097, South
J37	SAPATA LEONIDES	1787 7TH ST	EDR Hist Cleaner	Higher	518, 0.098, South

MAPPED SITES SUMMARY

Target Property Address:
PINE ST EAST ,SHOREY ST SOUTH ,FRONTAGE RD WEST
OAKLAND, CA 94607

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
J38	RAMSAY GRANT	1777 7TH ST	EDR Hist Cleaner	Higher	533, 0.101, South
J39	DAHL SAML	1775 7TH ST	EDR Hist Auto	Higher	537, 0.102, South
I40	PHOENIX 766 PROPERTY	766 CEDAR STREET	CA ENVIROSTOR, CA VCP, CA HIST CORTESE	Higher	553, 0.105, SW
J41	CHURCHS FRIED CHICKE	1766 7TH STREET	CA ENVIROSTOR, CA LUST, CA Alameda County CS, CA...	Higher	557, 0.105, SSE
I42	LIPS PROPELLERS	1899 7TH STREET	CA ENVIROSTOR, CA VCP, CA HIST CORTESE	Higher	579, 0.110, SW
J43	RITCHEY GUS	1753 7TH ST	EDR Hist Cleaner	Higher	581, 0.110, South
I44	SOUTHERN PACIFIC TRA	1912 7TH ST	CA LUST, CA Alameda County CS, CA HIST UST, CA...	Higher	608, 0.115, WSW
I45	SOUTHERN PACIFIC TRA	1912 7TH ST	CA LUST	Higher	608, 0.115, WSW
K46	GAINES PROPERTY	1795 11TH STREET	SEMS-ARCHIVE, CA HIST Cal-Sites, CA CERS	Higher	636, 0.120, NE
K47	MODESTO BEE	1795 11TH ST	CA RESPONSE, CA ENVIROSTOR, CA HAZNET	Higher	636, 0.120, NE
I48	SOUTHERN PACIFIC TRA	1912 007TH ST	CA SWEEPS UST, CA FID UST	Higher	638, 0.121, SW
L49	SOUTHERN PACIFIC TRA	721 CEDAR STREET	CA HIST UST	Higher	678, 0.128, SW
L50	SOUTHERN PACIFIC TRA	721 CEDAR ST	CA LUST, CA Alameda County CS, CA SWEEPS UST, CA...	Higher	678, 0.128, SW
K51	MORGAN RESIDENCE	1771 11TH STREET	RCRA-SQG, CA HAZNET	Higher	696, 0.132, ENE
K52	NAUTICAL ENGINEERING	1790 - 11TH STREET	RCRA-SQG	Higher	769, 0.146, NE
K53	PACIFIC CANNERY LOFT	1111-1199 PINE STREE	CA CPS-SLIC, CA CERS	Higher	784, 0.148, NE
K54	ADELPHI ALUMINUM CO.	1111 PINE ST	CA HIST UST	Higher	784, 0.148, NE
K55	BOHELLI WINDOWS	1111 PINE ST	CA LUST, CA Alameda County CS, CA SWEEPS UST, CA...	Higher	784, 0.148, NE
K56	MORGAN MARINE INC	1776 11TH ST INSIDE	RCRA-SQG	Higher	804, 0.152, NE
K57	MARITIME ADMINISTRAT	1776 11TH STREET	NY MANIFEST	Higher	804, 0.152, NE
K58	MORGAN CHEMICAL INC	1776 11TH ST OUTDOOR	RCRA-SQG, FINDS, ECHO	Higher	804, 0.152, NE
M59	OAKLAND GATEWAY DEVE	700 MURMANSK STREET,	CA RESPONSE, CA ENVIROSTOR, CA HIST Cal-Sites, CA...	Lower	849, 0.161, NNW
M60	OAKLAND ARMY BASE -	10TH STREET	CA UST	Lower	871, 0.165, NNW
M61	OAKLAND ARMY BASE -	10TH STREET	CA CERS TANKS, CA CERS	Lower	871, 0.165, NNW
M62	OAKLAND ARMY BASE -	10TH STREET	CA CERS TANKS, CA CERS	Lower	877, 0.166, NNW
M63	OAKLAND ARMY BASE -	10TH STREET	CA UST	Lower	877, 0.166, NNW
64	ALL-WEATHER ARCH. AL	1851 005TH ST	CA SWEEPS UST, CA FID UST	Higher	909, 0.172, WSW
L65	ALL WEATHER DOOR	1851 5TH ST	CA ENVIROSTOR, CA LUST, CA Alameda County CS, CA...	Lower	916, 0.173, SW
L66	ALL-WEATHER ARCH ALU	1851 5TH STREET	CA HIST UST, CA CHMIRS	Lower	916, 0.173, SW
L67	WEST OAKLAND YARD	1851 FIFTH ST.	CA AST	Lower	916, 0.173, SW
N68	SOUTHERN PACIFIC TRA	FOOT OF PINE STREET	CA HIST UST, CA CHMIRS	Higher	950, 0.180, NE
N69	COLE BROTHERS AUTO W	1797 12TH STREET	CA ENVIROSTOR	Higher	958, 0.181, NE
M70	OAKLAND ARMY BASE -	11TH STREET	CA UST	Lower	973, 0.184, NNW
M71	OAKLAND ARMY BASE -	11TH STREET	CA CERS TANKS, CA CERS	Lower	973, 0.184, NNW
N72	UNION PACIFIC RAILRO	0 PINE ST	CA Alameda County CS	Higher	1031, 0.195, NE
M73	OAKLAND ARMY BASE -	11TH STREET	CA UST	Lower	1039, 0.197, NNW
M74	OAKLAND ARMY BASE -	11TH STREET	CA CERS TANKS, CA CERS	Lower	1039, 0.197, NNW
O75	OAKLAND ARMY BASE -	11TH STREET	CA CERS TANKS, CA CERS	Lower	1040, 0.197, NNW
O76	OAKLAND ARMY BASE -	11TH STREET	CA UST	Lower	1040, 0.197, NNW

MAPPED SITES SUMMARY

Target Property Address:
PINE ST EAST ,SHOREY ST SOUTH ,FRONTAGE RD WEST
OAKLAND, CA 94607

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
77	SPT CO LOCO FUEL PLA	UNKNOWN PINE ST FOOT	CA LUST, CA HIST CORTESE	Lower	1046, 0.198, SSW
78	OAKLAND NORTHFIELD T	OAKLAND MUNICIPAL AI	CA HIST UST	Higher	1082, 0.205, ESE
P79	OAKLAND ARMY BASE -	TULAGI STREET, SE CO	CA CERS TANKS, CA CERS	Lower	1097, 0.208, WNW
P80	OAKLAND ARMY BASE -	TULAGI STREET, SE CO	CA UST	Lower	1097, 0.208, WNW
Q81	PHOENIX 524 PROPERTY	524 CEDAR STREET	CA ENVIROSTOR, CA VCP, CA HIST CORTESE	Lower	1150, 0.218, SSW
R82	OAKLAND ARMY BASE -	10TH STREET	CA UST	Lower	1168, 0.221, NW
R83	OAKLAND ARMY BASE -	10TH STREET	CA CERS TANKS, CA CERS	Lower	1168, 0.221, NW
P84	OAKLAND ARMY BASE -	SOUTHEAST CORNER OF	CA UST	Lower	1177, 0.223, NW
P85	OAKLAND ARMY BASE -	SOUTHEAST CORNER OF	CA CERS TANKS, CA CERS	Lower	1177, 0.223, NW
S86	OAKLAND ARMY BASE -	12TH STREET	CA CERS TANKS, CA CERS	Lower	1187, 0.225, NNW
S87	OAKLAND ARMY BASE -	12TH STREET	CA UST	Lower	1187, 0.225, NNW
S88	OAKLAND ARMY BASE -	OAKLAND ARMY BASE	CA CERS TANKS, CA CERS	Lower	1193, 0.226, North
S89	OAKLAND ARMY BASE -	OAKLAND ARMY BASE	CA UST	Lower	1193, 0.226, North
Q90	CAL-EAST FOODS	505 CEDAR STREET	CA ENVIROSTOR, CA LUST, CA Alameda County CS, CA...	Lower	1201, 0.227, SSW
R91	OAKLAND ARMY BASE -	10TH STREET	CA CERS TANKS, CA CERS	Lower	1209, 0.229, NW
R92	OAKLAND ARMY BASE -	10TH STREET	CA UST	Lower	1209, 0.229, NW
S93	OAKLAND ARMY BASE -	12TH STREET	CA UST	Lower	1212, 0.230, NNW
S94	OAKLAND ARMY BASE -	12TH STREET	CA CERS TANKS, CA CERS	Lower	1212, 0.230, NNW
R95	OAKLAND ARMY BASE -	11TH STREET	CA UST	Lower	1219, 0.231, NW
R96	OAKLAND ARMY BASE -	11TH STREET	CA CERS TANKS, CA CERS	Lower	1219, 0.231, NW
S97	OAKLAND ARMY BASE -	OAKLAND ARMY BASE	CA CERS TANKS, CA CERS	Lower	1269, 0.240, NNW
S98	OAKLAND ARMY BASE -	OAKLAND ARMY BASE	CA UST	Lower	1269, 0.240, NNW
R99	OAKLAND ARMY BASE -	10TH STREET	CA UST	Lower	1270, 0.241, NW
R100	OAKLAND ARMY BASE -	10TH STREET	CA CERS TANKS, CA CERS	Lower	1270, 0.241, NW
T101	OAKLAND MAIN OFFICE	1675 007TH ST	CA SWEEPS UST, CA FID UST	Higher	1275, 0.241, SE
102	STATION HOUSE SOUTH	WOOD STREET	CA CPS-SLIC	Lower	1285, 0.243, NNE
R103	OAKLAND ARMY BASE -	11TH STREET	CA UST	Lower	1304, 0.247, NW
R104	OAKLAND ARMY BASE -	11TH STREET	CA CERS TANKS, CA CERS	Lower	1304, 0.247, NW
T105	USPS - OAKLAND VMF	1675 7TH ST	CA UST	Higher	1310, 0.248, SE
T106	MAIN POST OFFICE	1675 7TH STREET	CA AST, CA HIST UST, CA HAZNET	Higher	1310, 0.248, SE
T107	US POSTAL SERVICE -	1675 7TH STREET	CA ENVIROSTOR, CA LUST, CA CPS-SLIC, CA Alameda...	Higher	1310, 0.248, SE
T108	USPS - OAKLAND VMF	1675 7TH ST	RCRA NonGen / NLR, PADS, FINDS	Higher	1310, 0.248, SE
T109	USPS - OAKLAND P&DC	1675 7TH ST	CA CERS HAZ WASTE, CA CERS	Higher	1310, 0.248, SE
T110	MAIN OFFICE VEHICLE	1675-7TH STREET	CA HIST UST	Higher	1310, 0.248, SE
T111	USPS - OAKLAND VMF	1675 7TH ST	CA CERS HAZ WASTE, CA CERS TANKS, CA CERS	Higher	1310, 0.248, SE
T112	MAIN POST OFFICE	1675 - 7TH STREET	CA HIST UST	Higher	1310, 0.248, SE
U113	TAYLOR ROOF STRUCTUR	1769 13TH STREET	CA Notify 65	Higher	1415, 0.268, ENE
U114	TAYLOR ROOF STRUCTUR	1746 13TH	CA LUST, CA Alameda County CS, CA HIST CORTESE, CA...	Higher	1507, 0.285, NE
115	14TH STREET APARTMEN	1801 14TH STREET	CA CPS-SLIC, CA DEED, CA CERS	Lower	1563, 0.296, NE

MAPPED SITES SUMMARY

Target Property Address:
PINE ST EAST ,SHOREY ST SOUTH ,FRONTAGE RD WEST
OAKLAND, CA 94607

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
V116	CENTRAL STATION LAND	1399-1707 WOOD STREE	CA CPS-SLIC	Lower	1693, 0.321, NE
V117	SOUTHERN PACIFIC TRA	1399 WOOD ST	CA LUST, CA Alameda County CS, CA HIST CORTESE, CA...	Lower	1693, 0.321, NE
W118	OAKLAND ARMY BASE	2475-D WEST 12TH STR	CA RESPONSE, CA ENVIROSTOR, CA HIST Cal-Sites, CA...	Lower	1750, 0.331, NNW
W119	OAKLAND ARMY BASE WA	TULAGI ST	SEMS, RCRA-SQG	Lower	1750, 0.331, NNW
X120	WILLOW PARK	1368 WILLOW STREET	CA ENVIROSTOR, CA VCP, CA HAZNET	Higher	1824, 0.345, ENE
X121	WILLOW PARK	14TH AND WILLOW ST W	US BROWNFIELDS, FINDS	Higher	1867, 0.354, ENE
Y122	LOT AT 530-542 LEWIS	530-542 LEWIS STREET	SEMS-ARCHIVE	Higher	1954, 0.370, SE
Y123	528 LEWIS STREET	528 LEWIS STREET	CA HIST Cal-Sites, CA CERS	Higher	1971, 0.373, SE
Y124	528 LEWIS STREET	528 LEWIS STREET	CA RESPONSE, CA ENVIROSTOR, CA HAZNET	Higher	1971, 0.373, SE
125	CYPRESS FREEWAY RECO	I-80/I-580/I-980	CA CPS-SLIC, CA NON-CASE INFO	Lower	2145, 0.406, SSE
Z126	UTILITY TRUCK BODIES	1530 WOOD	CA LUST, CA Alameda County CS, CA HIST CORTESE, CA...	Lower	2187, 0.414, NE
127	PORT OF OAKLAND - FO	MARITIME STREET AND	CA RESPONSE, CA ENVIROSTOR, CA DEED	Lower	2205, 0.418, NNW
AA128	YUSEN TERMINALS	1195 MARITIME ST	CA LUST, CA WDS	Lower	2205, 0.418, NW
AA129	STEVEDORING SVCS OF	1195 MARITIME	CA CHMIRS, CA HIST CORTESE	Lower	2205, 0.418, NW
AA130	PORT OF OAKLAND YUSE	1195 MARITIME ST	CA LUST, CA Alameda County CS, CA Notify 65, CA...	Lower	2205, 0.418, NW
AB131	BASF CORPORATION	1545 WILLOW ST	CA LUST, RCRA NonGen / NLR, FINDS, ECHO, CA CERS	Lower	2227, 0.422, NE
AB132	BASF CORPORATION	1545 WILLOW ST	CA ENVIROSTOR, CA LUST, CA Alameda County CS, CA...	Lower	2227, 0.422, NE
AC133	SMITH’S WRECKING YAR	1600 3RD STREET	CA ENVIROSTOR, CA VCP, CA HAZNET	Lower	2259, 0.428, SSE
Z134	CENTRAL STATION VILL	1401-1599 WOOD STREE	CA CPS-SLIC, CA CERS	Lower	2288, 0.433, NE
135	RELIABLE HANDI CAB	1520 7TH	CA LUST, CA Alameda County CS, CA HIST CORTESE, CA...	Higher	2290, 0.434, SE
136	PORT OF OAKLAND	801 MARITIME STREET	CA LUST, CA Alameda County CS, CA HIST CORTESE, CA...	Lower	2328, 0.441, West
AD137	PORT OF OAKLAND	2277 7TH ST	CA LUST, CA Alameda County CS, CA SWEEPS UST, CA...	Lower	2336, 0.442, WSW
AD138	PORT OF OAKLAND / NA	651 MARITIME ST	CA Alameda County CS, CA CHMIRS	Lower	2336, 0.442, WSW
AD139	PORT OF OAKLAND	651 MARITIME STREET	CA LUST, CA EMI, CA HIST CORTESE, CA CERS	Lower	2336, 0.442, WSW
AC140	SOUTHERN PACIFIC -WE	CYPRESS CORRIDOR	CA RESPONSE, CA ENVIROSTOR, CA HIST Cal-Sites, CA...	Lower	2368, 0.448, SSE
AE141	WEST RECYCLER BIN ST	1405 WOOD STREET	CA ENVIROSTOR	Lower	2453, 0.465, NE
AE142	WEST RECYCLER BIN ST	1405 WOOD STREET	SEMS-ARCHIVE	Lower	2453, 0.465, NE
143	PORT OF OAKLAND / NA	651 MARITIME STREET	CA LUST, CA SWEEPS UST, CA HIST CORTESE	Lower	2483, 0.470, West
144	WEST OAKLAND AREA I	7TH STREET BETWEEN P	US BROWNFIELDS, FINDS	Higher	2504, 0.474, East
AF145	CYPRESS FREEWAY-3RD	3RD STREET BETWEEN C	CA ENVIROSTOR, CA VCP	Lower	2540, 0.481, SSE
AF146	SO. PRESCOTT NEIGHBO	3RD STREET	CA ENVIROSTOR, CA VCP	Lower	2574, 0.488, SSE
147	WEST OAKLAND BART ST	1451 7TH STREET	CA ENVIROSTOR	Higher	2647, 0.501, SE
AF148	1536 THIRD STREET	1536 THIRD STREET	CA ENVIROSTOR	Lower	2657, 0.503, SSE
149	ACME GALVANIZING	1655 17TH	CA ENVIROSTOR, CA CPS-SLIC, CA Alameda County CS,...	Lower	2674, 0.506, ENE
150	FLEET INDUSTRIAL SUP	7TH & MARITIME	SEMS, ROD, NY MANIFEST	Lower	2710, 0.513, West
151	NEW OAKLAND FIRE STA	CENTER AND 14TH STRE	CA ENVIROSTOR, CA VCP	Higher	2717, 0.515, East
152	1614 CAMPBELL ST	1614 CAMPBELL ST	RCRA-LQG, CA ENVIROSTOR, CA Alameda County CS, CA...	Lower	2744, 0.520, ENE
153	SOUTHERN PACIFIC 3RD	1509/1513 THIRD STRE	CA ENVIROSTOR, CA VCP	Lower	2787, 0.528, SE
AG154	SP, W.OAKLAND YD.-(O	1707 WOOD STREET	CA Toxic Pits	Lower	2873, 0.544, NE

MAPPED SITES SUMMARY

Target Property Address:
PINE ST EAST ,SHOREY ST SOUTH ,FRONTAGE RD WEST
OAKLAND, CA 94607

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
AG155	SP, W.OAKLAND YARD-(	1707 WOOD STREET	CA Toxic Pits	Lower	2873, 0.544, NE
AG156	SOUTHERN PACIFIC TRA	1707 WOOD STREET	CA BOND EXP. PLAN	Lower	2873, 0.544, NE
AG157	SOUTHERN PACIFIC TRA	1707 WOOD ST	CA RESPONSE, CA ENVIROSTOR, CA CPS-SLIC, FTTS,...	Lower	2873, 0.544, NE
158	PACIFIC MARINE MAINT	1425 MARITIME STREET	CA EMI, CA Notify 65	Lower	2887, 0.547, North
159	MANNYSERVICES/MCKINN	1600 PERALTA	CA ENVIROSTOR	Higher	2960, 0.561, ENE
AH160	FOOD EXPRESS INC	1639 18TH ST	CA ENVIROSTOR, CA NPDES, CA CIWQS	Lower	3145, 0.596, ENE
AH161	MARK ABOUDI PROPERTY	1639 18TH STREET	CA ENVIROSTOR, CA VCP, CA DEED, CA HAZNET	Lower	3145, 0.596, ENE
162	BOBO’S JUNKYARD	1401 THIRD STREET	CA ENVIROSTOR, CA VCP, CA DEED	Lower	3222, 0.610, SE
163	BUILDING 331 EAST	7 MERRITIME	CA Notify 65	Lower	3239, 0.613, NNE
AI164	CALIFORNIA SODA COMP	355 MANDELA PARKWAY	CA ENVIROSTOR, CA HAZNET, CA CERS	Lower	3274, 0.620, SE
AI165	SF BAY AREA RAPID TR	349 MANDELA PKWY	CA RESPONSE, CA ENVIROSTOR, CA HIST Cal-Sites	Lower	3291, 0.623, SE
AH166	ALTA PLATING & CHEMI	1433 18TH STREET	CA ENVIROSTOR	Lower	3305, 0.626, ENE
AJ167	AUTO CHLOR PROJ	1350 14TH ST	CA ENVIROSTOR, CA CIWQS	Higher	3511, 0.665, East
AJ168	CARNATION DAIRIES	1310 14TH STREET/131	CA RESPONSE, CA ENVIROSTOR, CA CERS	Higher	3567, 0.676, East
AK169	SMILO CHEMICAL COMPA	500 KIRKHAM STREET	CA ENVIROSTOR, CA LUST, CA Alameda County CS, CA...	Higher	3597, 0.681, ESE
AK170	CONTAINER FREIGHT	1285 5TH ST	CA ENVIROSTOR, CA LUST, CA Alameda County CS, CA...	Higher	3822, 0.724, SE
AL171	NABISCO BRANDS, INC.	1267 14TH STREET	CA Notify 65	Higher	3832, 0.726, East
AL172	NABISCO	1267 14TH STREET	CA ENVIROSTOR, CA LUST, CA Alameda County CS, CA...	Higher	3832, 0.726, East
173	TRANS BAY CONTAINER	2500 7TH STREET	CA RESPONSE, CA ENVIROSTOR, CA HIST Cal-Sites, CA...	Lower	3863, 0.732, West
174	COMMAIR MECHANICAL S	1266 14TH STREET	CA ENVIROSTOR	Higher	3896, 0.738, East
175	PALM COURT	902 UNION STREET	CA ENVIROSTOR, CA VCP	Higher	3926, 0.744, ESE
176	FLEET INDUSTRIAL SUP	531 ACRES; EASTERN S	CA RESPONSE, CA ENVIROSTOR, CA HIST Cal-Sites	Lower	4022, 0.762, SW
177	CONDON FREIGHT	324 UNION ST	CA ENVIROSTOR, CA LUST, CA Alameda County CS, CA...	Higher	4103, 0.777, ESE
AM178	BNSF WOOD STREET YAR	WOOD STREET & WEST G	CA RESPONSE, CA ENVIROSTOR, CA HIST Cal-Sites, CA...	Lower	4103, 0.777, NE
AM179	LDS TRUCKING	2233 WOOD STREET	CA ENVIROSTOR, CA VCP	Lower	4182, 0.792, NE
180	AMTRAK MAINTENANCE F	3RD & UNION STREETS	CA ENVIROSTOR, CA VCP, CA DEED	Lower	4188, 0.793, SE
AM181	ARMY-NAVY DISTRIBUTI	2233 WOOD STREET	CA ENVIROSTOR	Lower	4218, 0.799, NE
AN182	MANDELA PARKWAY CORR	MANDELA PARKWAY BETW	CA ENVIROSTOR, CA VCP	Lower	4372, 0.828, ENE
183	SHEREX CHEMICAL COMP	1401 MIDDLE HARBOR R	SEMS-ARCHIVE, CA ENVIROSTOR, CA CPS-SLIC, CA...	Lower	4377, 0.829, SSE
184	C-103 YARD	2700 7TH STEET	CA Notify 65	Lower	4409, 0.835, West
AN185	MANDELA GRAND	MANDELA PARKWAY AND	CA ENVIROSTOR, CA VCP	Lower	4431, 0.839, ENE
186	WESTERN PACIFIC RAIL	UNION STREET	CA ENVIROSTOR, CA VCP, CA DEED	Lower	4538, 0.859, SE
187	U.S. NAVY, FLEET AND	NAVAL SUPPLY CENTER	CA ENVIROSTOR	Lower	4591, 0.870, SW
188	ARMY-NAVY DISTRIBUTI		FUDS	Lower	4613, 0.874, NE
189	CITY OF OAKLAND - SU	WAKE AVENUE AND WEST	CA RESPONSE, CA ENVIROSTOR, CA DEED	Lower	4679, 0.886, NNE
190	HEROIC WAR DEAD EBMU	2400 ENGINEER ROAD	CA RESPONSE, CA ENVIROSTOR, CA HIST Cal-Sites, CA...	Lower	4783, 0.906, North
191	SOUTHERN PACIFIC - D	CYPRESS CORRIDOR	CA RESPONSE, CA ENVIROSTOR, CA HIST Cal-Sites, CA...	Lower	5030, 0.953, NE
192	PORT OF OAKLAND / CY	I-80 FRONTAGE ROAD A	CA ENVIROSTOR, CA VCP	Lower	5040, 0.955, NNW
193	COMMERCIAL BUILDINGS	1250-1276, 1284 W. G	CA RESPONSE, CA ENVIROSTOR, CA HIST Cal-Sites, CA...	Lower	5065, 0.959, ENE

MAPPED SITES SUMMARY

Target Property Address:
PINE ST EAST ,SHOREY ST SOUTH ,FRONTAGE RD WEST
OAKLAND, CA 94607

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
AO194	KANTOR WAREHOUSE	2525 MANDELA	CA LUST, CA Alameda County CS, CA HIST CORTESE, CA...	Lower	5157, 0.977, NE
AO195	TKG CALIFORNIA STORA	2450 MANDELA PARKWAY	CA ENVIROSTOR, CA VCP, CA DEED	Lower	5157, 0.977, NE
196	RUSS ELLIOT, INC.	2526 WOOD STREET	CA ENVIROSTOR	Lower	5171, 0.979, NE
197	OAKLAND ARMY RESERVE	15 ENGINEER ROAD	CA RESPONSE, CA ENVIROSTOR, CA MCS	Lower	5228, 0.990, NNE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

Proposed NPL	Proposed National Priority List Sites
NPL LIENS	Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL	National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY	Federal Facility Site Information listing

Federal RCRA CORRACTS facilities list

CORRACTS	Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF	RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS	Land Use Control Information System
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls

Federal ERNS list

ERNS	Emergency Response Notification System

State and tribal leaking storage tank lists

INDIAN LUST	Leaking Underground Storage Tanks on Indian Land

EXECUTIVE SUMMARY

State and tribal registered storage tank lists

FEMA UST	Underground Storage Tank Listing
INDIAN UST	Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP	Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

CA BROWNFIELDS	Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

CA WMUDS/SWAT	Waste Management Unit Database
CA SWRCY	Recycler Database
CA HAULERS	Registered Waste Tire Haulers Listing
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
ODI	Open Dump Inventory
IHS OPEN DUMPS	Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL	Delisted National Clandestine Laboratory Register
CA SCH	School Property Evaluation Program
CA CDL	Clandestine Drug Labs
US CDL	National Clandestine Laboratory Register

Local Land Records

CA LIENS	Environmental Liens Listing
LIENS 2	CERCLA Lien Information

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CA LDS	Land Disposal Sites Listing
CA SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
RMP	Risk Management Plans

RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
ICIS	Integrated Compliance Information System
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
DOCKET HWC	Hazardous Waste Compliance Docket Listing
UXO	Unexploded Ordnance Sites
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA CUPA Listings	CUPA Resources List
CA DRYCLEANERS	Cleaner Facilities
CA Financial Assurance	Financial Assurance Information Listing
CA ICE	ICE
CA HWP	EnviroStor Permitted Facilities Listing
CA HWT	Registered Hazardous Waste Transporter Database
CA MINES	Mines Site Location Listing
CA MWMP	Medical Waste Management Program Listing
CA PEST LIC	Pesticide Regulation Licenses Listing
CA UIC	UIC Listing
CA UIC GEO	UIC GEO (GEOTRACKER)
CA WASTEWATER PITS	Oil Wastewater Pits Listing
CA MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
CA PROJECT	PROJECT (GEOTRACKER)
CA WDR	Waste Discharge Requirements Listing
CA WIP	Well Investigation Program Case List
CA OTHER OIL GAS	OTHER OIL & GAS (GEOTRACKER)
CA PROD WATER PONDS	PROD WATER PONDS (GEOTRACKER)
CA SAMPLING POINT	SAMPLING POINT (GEOTRACKER)
CA WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

CA RGA LF	Recovered Government Archive Solid Waste Facilities List
CA RGA LUST	Recovered Government Archive Leaking Underground Storage Tank

EXECUTIVE SUMMARY

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 12/12/2018 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMCO CHEMICAL Cerclis ID:: 905334 EPA Id: CA0001576081	***1414 THIRD STREET***	***SE 1/2 - 1 (0.569 mi.)***	***0***	***8***

Federal CERCLIS list

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 12/12/2018 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
OAKLAND ARMY BASE WA Site ID: 0902758 EPA Id: CA4210020661	***TULAGI ST***	***NNW 1/4 - 1/2 (0.331 mi.)***	***W119***	***366***

EXECUTIVE SUMMARY

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 12/13/2018 has revealed that there are 4 SEMS-ARCHIVE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BATAVIA PROPERTY Site ID: 0905364 EPA Id: CA0002059400	1832 9TH STREET	NE 0 - 1/8 (0.006 mi.)	D8	32
GAINES PROPERTY	***1795 11TH STREET***	***NE 0 - 1/8 (0.120 mi.)***	***K46***	***139***
LOT AT 530-542 LEWIS Site ID: 0905369 EPA Id: CA0002059467	530-542 LEWIS STREET	SE 1/4 - 1/2 (0.370 mi.)	Y122	381

Lower Elevation	Address	Direction / Distance	Map ID	Page
WEST RECYCLER BIN ST Site ID: 0905378 EPA Id: CA0002059525	1405 WOOD STREET	NE 1/4 - 1/2 (0.465 mi.)	AE142	452

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/01/2018 has revealed that there are 6 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CALTRANS EPA ID:: CAR000011692	***800 CEDAR ST***	***0 - 1/8 (0.000 mi.)***	***A3***	***25***
OCEAN CONLAINER SYST EPA ID:: CAD982338030	***801 CEDAR ST***	***N 0 - 1/8 (0.001 mi.)***	***C5***	***27***
MORGAN RESIDENCE EPA ID:: CAR000147827	***1771 11TH STREET***	***ENE 1/8 - 1/4 (0.132 mi.)***	***K51***	***151***
NAUTICAL ENGINEERING	1790 - 11TH STREET	NE 1/8 - 1/4 (0.146 mi.)	K52	153

EPA ID:: CAL000124582				
MORGAN MARINE INC EPA ID:: CAD099955387	1776 11TH ST INSIDE	NE 1/8 - 1/4 (0.152 mi.)	K56	160
MORGAN CHEMICAL INC EPA ID:: CAD982413163	***1776 11TH ST OUTDOOR***	***NE 1/8 - 1/4 (0.152 mi.)***	***K58***	***163***

State- and tribal - equivalent NPL

CA RESPONSE: Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

A review of the CA RESPONSE list, as provided by EDR, has revealed that there are 18 CA RESPONSE sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VACANT AUTO REPAIR Database: RESPONSE, Date of Government Version: 01/28/2019 Status: No Further Action Facility Id: 1750020	***SHOREY STREET***	***SSW 0 - 1/8 (0.005 mi.)***	***B7***	***30***
MODESTO BEE Database: RESPONSE, Date of Government Version: 01/28/2019 Status: Certified Facility Id: 1750030	***1795 11TH ST***	***NE 0 - 1/8 (0.120 mi.)***	***K47***	***145***
528 LEWIS STREET Database: RESPONSE, Date of Government Version: 01/28/2019 Status: Certified Facility Id: 1880002	***528 LEWIS STREET***	***SE 1/4 - 1/2 (0.373 mi.)***	***Y124***	***387***
CARNATION DAIRIES Database: RESPONSE, Date of Government Version: 01/28/2019 Status: Refer: Other Agency Facility Id: 60000370	***1310 14TH STREET/131***	***E 1/2 - 1 (0.676 mi.)***	***AJ168***	***515***

Lower Elevation	Address	Direction / Distance	Map ID	Page
OAKLAND GATEWAY DEVE AWP Facility Id: 01970016 Status: Active Facility Id: 1970016	***700 MURMANSK STREET,***	***NNW 1/8 - 1/4 (0.161 mi.)***	***M59***	***165***
OAKLAND ARMY BASE AWP Facility Id: 01970006 Status: Active Facility Id: 1970006	***2475-D WEST 12TH STR***	***NNW 1/4 - 1/2 (0.331 mi.)***	***W118***	***349***
PORT OF OAKLAND - FO Database: RESPONSE, Date of Government Version: 01/28/2019 Status: Certified O&M - Land Use Restrictions Only Facility Id: 80001200	***MARITIME STREET AND***	***NNW 1/4 - 1/2 (0.418 mi.)***	***127***	***394***
SOUTHERN PACIFIC -WE AWP Facility Id: 01400010 Status: Certified / Operation & Maintenance	***CYPRESS CORRIDOR***	***SSE 1/4 - 1/2 (0.448 mi.)***	***AC140***	***444***

Facility Id: 1400010

SOUTHERN PACIFIC TRA ***1707 WOOD ST*** ***NE 1/2 - 1 (0.544 mi.)*** ***AG157*** ***491***
Database: RESPONSE, Date of Government Version: 01/28/2019
Status: Refer: RWQCB
Facility Id: 1400001

SF BAY AREA RAPID TR ***349 MANDELA PKWY*** ***SE 1/2 - 1 (0.623 mi.)*** ***AI165*** ***508***
Database: RESPONSE, Date of Government Version: 01/28/2019
Status: Certified
Facility Id: 1750021

TRANS BAY CONTAINER ***2500 7TH STREET*** ***W 1/2 - 1 (0.732 mi.)*** ***173*** ***531***
AWP Facility Id: 01280092
Status: Certified / Operation & Maintenance
Facility Id: 1280092

FLEET INDUSTRIAL SUP ***531 ACRES; EASTERN S*** ***SW 1/2 - 1 (0.762 mi.)*** ***176*** ***545***
AWP Facility Id: 01420124
Status: Certified O&M - Land Use Restrictions Only
Facility Id: 1420124

BNSF WOOD STREET YAR ***WOOD STREET & WEST G*** ***NE 1/2 - 1 (0.777 mi.)*** ***AM178*** ***569***
AWP Facility Id: 01400017
Status: Certified O&M - Land Use Restrictions Only
Facility Id: 1400017

CITY OF OAKLAND - SU ***WAKE AVENUE AND WEST*** ***NNE 1/2 - 1 (0.886 mi.)*** ***189*** ***592***
Database: RESPONSE, Date of Government Version: 01/28/2019
Status: Certified O&M - Land Use Restrictions Only
Facility Id: 80001227

HEROIC WAR DEAD EBMU ***2400 ENGINEER ROAD*** ***N 1/2 - 1 (0.906 mi.)*** ***190*** ***604***
AWP Facility Id: 01970015
Status: No Further Action
Status: Certified / Operation & Maintenance
Facility Id: 1970015
Facility Id: 80001225

SOUTHERN PACIFIC - D ***CYPRESS CORRIDOR*** ***NE 1/2 - 1 (0.953 mi.)*** ***191*** ***635***
AWP Facility Id: 01400009
Status: Certified O&M - Land Use Restrictions Only
Facility Id: 1400009

COMMERCIAL BUILDINGS ***1250-1276, 1284 W. G*** ***ENE 1/2 - 1 (0.959 mi.)*** ***193*** ***644***
AWP Facility Id: 01720110
Status: Active
Facility Id: 1720110

OAKLAND ARMY RESERVE ***15 ENGINEER ROAD*** ***NNE 1/2 - 1 (0.990 mi.)*** ***197*** ***664***
Database: RESPONSE, Date of Government Version: 01/28/2019
Status: Certified
Facility Id: 71000002

State- and tribal - equivalent CERCLIS

CA ENVIROSTOR: The Department of Toxic Substances Control’s (DTSC’s) Site Mitigation and Brownfields Reuse Program’s (SMBRP’s) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the CA ENVIROSTOR list, as provided by EDR, and dated 01/28/2019 has revealed that there are 70 CA ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMCO CHEMICAL Facility Id: 1390001 Status: Active	***1414 THIRD STREET***	***SE 1/2 - 1 (0.569 mi.)***	***0***	***8***
DEPT OF TRANSPORTATI Facility Id: 1330037 Status: Inactive - Needs Evaluation	***800 CEDAR ST***	***0 - 1/8 (0.000 mi.)***	***A1***	***21***
VACANT AUTO REPAIR Facility Id: 1750020 Status: No Further Action	***SHOREY STREET***	***SSW 0 - 1/8 (0.005 mi.)***	***B7***	***30***
BATAVIA PROPERTY Facility Id: 1990021 Status: No Further Action	1832 9TH STREET	N 0 - 1/8 (0.009 mi.)	C10	33
B & A AUTO DISMANTLE Facility Id: 1500106 Status: Certified	***1823 SHOREY STREET***	***SSW 0 - 1/8 (0.019 mi.)***	***B12***	***35***
RADOMSKY PROPERTY Facility Id: 1880001 Status: No Action Required	930 PINE STREET	ENE 0 - 1/8 (0.052 mi.)	E14	37
CALTRANS Facility Id: 1920064 Status: Certified	***727 PINE ST***	***SSW 0 - 1/8 (0.068 mi.)***	***G18***	***88***
WILFRED’S AUTO WRECK Facility Id: 1500105 Status: Certified	***1834 7TH STREET***	***SSW 0 - 1/8 (0.069 mi.)***	***G19***	***91***
JENKINS AUTO WRECKER Facility Id: 1750025 Status: Inactive - Needs Evaluation	***1778 10TH STREET***	***ENE 0 - 1/8 (0.091 mi.)***	***E34***	***123***
PHOENIX 766 PROPERTY Facility Id: 1330036 Status: Certified	***766 CEDAR STREET***	***SW 0 - 1/8 (0.105 mi.)***	***I40***	***129***
CHURCHS FRIED CHICKE Facility Id: 1540002 Status: Certified	***1766 7TH STREET***	***SSE 0 - 1/8 (0.105 mi.)***	***J41***	***131***
LIPS PROPELLERS Facility Id: 1350121 Status: No Further Action	***1899 7TH STREET***	***SW 0 - 1/8 (0.110 mi.)***	***I42***	***134***
MODESTO BEE Facility Id: 1750030	***1795 11TH ST***	***NE 0 - 1/8 (0.120 mi.)***	***K47***	***145***

EXECUTIVE SUMMARY

Status: Certified				
COLE BROTHERS AUTO W Facility Id: 60000365 Status: No Action Required	1797 12TH STREET	NE 1/8 - 1/4 (0.181 mi.)	N69	192
US POSTAL SERVICE - Facility Id: 1430001 Status: Certified	***1675 7TH STREET***	***SE 1/8 - 1/4 (0.248 mi.)***	***T107***	***220***
WILLOW PARK Facility Id: 1990028 Status: No Further Action	***1368 WILLOW STREET***	***ENE 1/4 - 1/2 (0.345 mi.)***	***X120***	***371***
528 LEWIS STREET Facility Id: 1880002 Status: Certified	***528 LEWIS STREET***	***SE 1/4 - 1/2 (0.373 mi.)***	***Y124***	***387***
WEST OAKLAND BART ST Facility Id: 70000133 Status: Refer: Local Agency	1451 7TH STREET	SE 1/2 - 1 (0.501 mi.)	147	468
NEW OAKLAND FIRE STA Facility Id: 1920063 Status: Certified	***CENTER AND 14TH STRE***	***E 1/2 - 1 (0.515 mi.)***	***151***	***476***
MANNYSERVICES/MCKINN Facility Id: 1750027 Status: Refer: Other Agency	1600 PERALTA	ENE 1/2 - 1 (0.561 mi.)	159	496
AUTO CHLOR PROJ Facility Id: 60002513 Status: Active	***1350 14TH ST***	***E 1/2 - 1 (0.665 mi.)***	***AJ167***	***514***
CARNATION DAIRIES Facility Id: 60000370 Status: Refer: Other Agency	***1310 14TH STREET/131***	***E 1/2 - 1 (0.676 mi.)***	***AJ168***	***515***
SMILO CHEMICAL COMPA Facility Id: 1510022 Status: Active	***500 KIRKHAM STREET***	***ESE 1/2 - 1 (0.681 mi.)***	***AK169***	***518***
CONTAINER FREIGHT Facility Id: 1420128 Status: Inactive - Needs Evaluation	***1285 5TH ST***	***SE 1/2 - 1 (0.724 mi.)***	***AK170***	***523***
NABISCO Facility Id: 60000369 Status: No Further Action	***1267 14TH STREET***	***E 1/2 - 1 (0.726 mi.)***	***AL172***	***528***
COMMAIR MECHANICAL S Facility Id: 60000366 Status: No Action Required	1266 14TH STREET	E 1/2 - 1 (0.738 mi.)	174	542
PALM COURT Facility Id: 1990027 Status: No Further Action	***902 UNION STREET***	***ESE 1/2 - 1 (0.744 mi.)***	***175***	***543***
CONDON FREIGHT Facility Id: 1420126 Status: No Further Action	***324 UNION ST***	***ESE 1/2 - 1 (0.777 mi.)***	***177***	***563***

Lower Elevation	Address	Direction / Distance	Map ID	Page
OAKLAND GATEWAY DEVE	***700 MURMANSK STREET,***	***NNW 1/8 - 1/4 (0.161 mi.)***	***M59***	***165***

Facility Id: 1970016 Status: Active				
ALL WEATHER DOOR Facility Id: 1990013 Status: Inactive - Needs Evaluation	***1851 5TH ST***	***SW 1/8 - 1/4 (0.173 mi.)***	***L65***	***179***
PHOENIX 524 PROPERTY Facility Id: 1330038 Status: Inactive - Needs Evaluation	***524 CEDAR STREET***	***SSW 1/8 - 1/4 (0.218 mi.)***	***Q81***	***198***
CAL-EAST FOODS Facility Id: 1510024 Status: Certified	***505 CEDAR STREET***	***SSW 1/8 - 1/4 (0.227 mi.)***	***Q90***	***203***
OAKLAND ARMY BASE Facility Id: 1970006 Status: Active	***2475-D WEST 12TH STR***	***NNW 1/4 - 1/2 (0.331 mi.)***	***W118***	***349***
PORT OF OAKLAND - FO Facility Id: 80001200 Status: Certified O&M - Land Use Restrictions Only	***MARITIME STREET AND***	***NNW 1/4 - 1/2 (0.418 mi.)***	***127***	***394***
BASF CORPORATION Facility Id: 60000360 Status: Refer: RWQCB	***1545 WILLOW ST***	***NE 1/4 - 1/2 (0.422 mi.)***	***AB132***	***412***
SMITH'S WRECKING YAR Facility Id: 1990014 Status: Certified	***1600 3RD STREET***	***SSE 1/4 - 1/2 (0.428 mi.)***	***AC133***	***416***
SOUTHERN PACIFIC -WE Facility Id: 1400010 Status: Certified / Operation & Maintenance	***CYPRESS CORRIDOR***	***SSE 1/4 - 1/2 (0.448 mi.)***	***AC140***	***444***
WEST RECYCLER BIN ST Facility Id: 1890018 Status: Refer: RWQCB	1405 WOOD STREET	NE 1/4 - 1/2 (0.465 mi.)	AE141	451
CYPRESS FREEWAY-3RD Facility Id: 1400012 Status: Certified	***3RD STREET BETWEEN C***	***SSE 1/4 - 1/2 (0.481 mi.)***	***AF145***	***464***
SO. PRESCOTT NEIGHBO Facility Id: 1990019 Status: Certified	***3RD STREET***	***SSE 1/4 - 1/2 (0.488 mi.)***	***AF146***	***466***
1536 THIRD STREET Facility Id: 1880003 Status: Refer: Other Agency	1536 THIRD STREET	SSE 1/2 - 1 (0.503 mi.)	AF148	469
ACME GALVANIZING Facility Id: 60002571 Status: Active	***1655 17TH***	***ENE 1/2 - 1 (0.506 mi.)***	***149***	***470***
1614 CAMPBELL ST Facility Id: 70000082 Status: Certified	***1614 CAMPBELL ST***	***ENE 1/2 - 1 (0.520 mi.)***	***152***	***478***
SOUTHERN PACIFIC 3RD Facility Id: 1400013 Status: Certified	***1509/1513 THIRD STRE***	***SE 1/2 - 1 (0.528 mi.)***	***153***	***488***
SOUTHERN PACIFIC TRA Facility Id: 1400001	***1707 WOOD ST***	***NE 1/2 - 1 (0.544 mi.)***	***AG157***	***491***

Status: Refer: RWQCB

FOOD EXPRESS INC Facility Id: 60002775 Status: Active	***1639 18TH ST***	***ENE 1/2 - 1 (0.596 mi.)***	***AH160***	***497***
MARK ABOUDI PROPERTY Facility Id: 1420131 Status: Certified O&M - Land Use Restrictions Only	***1639 18TH STREET***	***ENE 1/2 - 1 (0.596 mi.)***	***AH161***	***500***
BOBO’S JUNKYARD Facility Id: 1400003 Status: Certified / Operation & Maintenance	***1401 THIRD STREET***	***SE 1/2 - 1 (0.610 mi.)***	***162***	***503***
CALIFORNIA SODA COMP Facility Id: 1280091 Status: No Further Action	***355 MANDELA PARKWAY***	***SE 1/2 - 1 (0.620 mi.)***	***AI164***	***505***
SF BAY AREA RAPID TR Facility Id: 1750021 Status: Certified	***349 MANDELA PKWY***	***SE 1/2 - 1 (0.623 mi.)***	***AI165***	***508***
ALTA PLATING & CHEMI Facility Id: 70000088 Status: Inactive - Needs Evaluation	1433 18TH STREET	ENE 1/2 - 1 (0.626 mi.)	AH166	513
TRANS BAY CONTAINER Facility Id: 1280092 Status: Certified / Operation & Maintenance	***2500 7TH STREET***	***W 1/2 - 1 (0.732 mi.)***	***173***	***531***
FLEET INDUSTRIAL SUP Facility Id: 1420124 Status: Certified O&M - Land Use Restrictions Only	***531 ACRES; EASTERN S***	***SW 1/2 - 1 (0.762 mi.)***	***176***	***545***
BNSF WOOD STREET YAR Facility Id: 1400017 Status: Certified O&M - Land Use Restrictions Only	***WOOD STREET & WEST G***	***NE 1/2 - 1 (0.777 mi.)***	***AM178***	***569***
LDS TRUCKING Facility Id: 1420127 Status: Certified	***2233 WOOD STREET***	***NE 1/2 - 1 (0.792 mi.)***	***AM179***	***572***
AMTRAK MAINTENANCE F Facility Id: 1400014 Status: Certified / Operation & Maintenance	***3RD & UNION STREETS***	***SE 1/2 - 1 (0.793 mi.)***	***180***	***574***
ARMY-NAVY DISTRIBUTI Facility Id: 80000374 Status: No Further Action	2233 WOOD STREET	NE 1/2 - 1 (0.799 mi.)	AM181	576
MANDELA PARKWAY CORR Facility Id: 1410118 Status: Certified	***MANDELA PARKWAY BETW***	***ENE 1/2 - 1 (0.828 mi.)***	***AN182***	***577***
SHEREX CHEMICAL COMP Facility Id: 1730096 Status: Refer: Local Agency	***1401 MIDDLE HARBOR R***	***SSE 1/2 - 1 (0.829 mi.)***	***183***	***579***
MANDELA GRAND Facility Id: 60000433 Status: Inactive - Needs Evaluation	***MANDELA PARKWAY AND***	***ENE 1/2 - 1 (0.839 mi.)***	***AN185***	***585***
WESTERN PACIFIC RAIL Facility Id: 1400008 Status: Certified / Operation & Maintenance	***UNION STREET***	***SE 1/2 - 1 (0.859 mi.)***	***186***	***588***
U.S. NAVY, FLEET AND	NAVAL SUPPLY CENTER	SW 1/2 - 1 (0.870 mi.)	187	590

Facility Id: 71003721 Status: Refer: Other Agency				
CITY OF OAKLAND - SU Facility Id: 80001227 Status: Certified O&M - Land Use Restrictions Only	***WAKE AVENUE AND WEST***	***NNE 1/2 - 1 (0.886 mi.)***	***189***	***592***
HEROIC WAR DEAD EBMU Facility Id: 80001225 Facility Id: 1970015 Status: Certified / Operation & Maintenance Status: No Further Action	***2400 ENGINEER ROAD***	***N 1/2 - 1 (0.906 mi.)***	***190***	***604***
SOUTHERN PACIFIC - D Facility Id: 1400009 Status: Certified O&M - Land Use Restrictions Only	***CYPRESS CORRIDOR***	***NE 1/2 - 1 (0.953 mi.)***	***191***	***635***
PORT OF OAKLAND / CY Facility Id: 1400011 Status: No Further Action	***I-80 FRONTAGE ROAD A***	***NNW 1/2 - 1 (0.955 mi.)***	***192***	***642***
COMMERCIAL BUILDINGS Facility Id: 1720110 Status: Active	***1250-1276, 1284 W. G***	***ENE 1/2 - 1 (0.959 mi.)***	***193***	***644***
TKG CALIFORNIA STORA Facility Id: 60000712 Status: Certified O&M - Land Use Restrictions Only	***2450 MANDELA PARKWAY***	***NE 1/2 - 1 (0.977 mi.)***	***AO195***	***652***
RUSS ELLIOT, INC. Facility Id: 60000363 Status: No Action Required	2526 WOOD STREET	NE 1/2 - 1 (0.979 mi.)	196	663
OAKLAND ARMY RESERVE Facility Id: 71000002 Status: Certified	***15 ENGINEER ROAD***	***NNE 1/2 - 1 (0.990 mi.)***	***197***	***664***

State and tribal landfill and/or solid waste disposal site lists

CA SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the CA SWF/LF list, as provided by EDR, has revealed that there are 2 CA SWF/LF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CA WASTE SOLUTIONS 1 Database: SWF/LF (SWIS), Date of Government Version: 02/11/2019 Facility ID: 01-AA-0329 Operational Status: Active Regulation Status: Notification	1820 10TH STREET (PA	NNE 0 - 1/8 (0.080 mi.)	F26	98
CALIFORNIA WASTE SOL Database: SWF/LF (SWIS), Date of Government Version: 02/11/2019 Facility ID: 01-AA-0324 Operational Status: Active Regulation Status: Permitted	1820 10TH ST.	NNE 0 - 1/8 (0.080 mi.)	F28	111

State and tribal leaking storage tank lists

CA LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CA LUST list, as provided by EDR, has revealed that there are 24 CA LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PHOENIX IRON WKS. Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST, Date of Government Version: 12/10/2018 Status: Open - Site Assessment Facility Id: 01-2420 Facility Status: Preliminary site assessment workplan submitted Global Id: T0600102229	***888 CEDAR ST***	***SSW 0 - 1/8 (0.064 mi.)***	***G16***	***84***
W.O. RIP TRACK Database: LUST, Date of Government Version: 12/10/2018 Status: Open - Site Assessment Global Id: T0600101306	***515 BAY ST***	***SW 0 - 1/8 (0.087 mi.)***	***I31***	***113***
GOSSWOOD HOUSING ASS Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Facility Id: 01-0944 Facility Status: Case Closed Global Id: T0600100869 date9: 8/11/1993	***1751 GOSS***	***SSE 0 - 1/8 (0.090 mi.)***	***H33***	***120***
CHURCHS FRIED CHICKE Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Global Id: T06019710161	***1766 7TH STREET***	***SSE 0 - 1/8 (0.105 mi.)***	***J41***	***131***
SOUTHERN PACIFIC TRA Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Global Id: T0600101295	***1912 7TH ST***	***WSW 0 - 1/8 (0.115 mi.)***	***I44***	***136***
SOUTHERN PACIFIC TRA Database: LUST REG 2, Date of Government Version: 09/30/2004 Facility Id: 01-1401 Facility Status: Case Closed date9: 5/14/1997	1912 7TH ST	WSW 0 - 1/8 (0.115 mi.)	I45	138
SOUTHERN PACIFIC TRA Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Facility Id: 01-1411 Facility Status: Case Closed Global Id: T0600101303 date9: 8/5/1996	***721 CEDAR ST***	***SW 1/8 - 1/4 (0.128 mi.)***	***L50***	***149***
BOHELLI WINDOWS Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST, Date of Government Version: 12/10/2018	***1111 PINE ST***	***NE 1/8 - 1/4 (0.148 mi.)***	***K55***	***156***

Status: Completed - Case Closed
Facility Id: 01-1824
Facility Status: Case Closed
Global Id: T0600101690
date9: 5/13/1998

US POSTAL SERVICE - ***1675 7TH STREET*** ***SE 1/8 - 1/4 (0.248 mi.)*** ***T107*** ***220***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Id: 01-0487
Facility Status: Preliminary site assessment underway
Global Id: T0600100443

TAYLOR ROOF STRUCTUR ***1746 13TH*** ***NE 1/4 - 1/2 (0.285 mi.)*** ***U114*** ***342***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Id: 01-1449
Facility Status: Case Closed
Global Id: T0600101338
date9: 12/7/1995

RELIABLE HANDI CAB ***1520 7TH*** ***SE 1/4 - 1/2 (0.434 mi.)*** ***135*** ***419***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Id: 01-1234
Facility Status: Case Closed
Global Id: T0600101133
date9: 6/14/1995

Lower Elevation **Address** **Direction / Distance** **Map ID** **Page**

ALL WEATHER DOOR ***1851 5TH ST*** ***SW 1/8 - 1/4 (0.173 mi.)*** ***L65*** ***179***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 12/10/2018
Status: Open - Site Assessment
Facility Id: 01-1713
Facility Status: Preliminary site assessment underway
Global Id: T0600101584

SPT CO LOCO FUEL PLA ***UNKNOWN PINE ST FOOT*** ***SSW 1/8 - 1/4 (0.198 mi.)*** ***77*** ***196***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Id: 01-2426
Facility Status: Preliminary site assessment underway

CAL-EAST FOODS ***505 CEDAR STREET*** ***SSW 1/8 - 1/4 (0.227 mi.)*** ***Q90*** ***203***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Id: 01-0214
Facility Status: Leak being confirmed
Global Id: T0600100200

SOUTHERN PACIFIC TRA ***1399 WOOD ST*** ***NE 1/4 - 1/2 (0.321 mi.)*** ***V117*** ***345***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed

EXECUTIVE SUMMARY

Facility Id: 01-1408
Facility Status: Pollution Characterization
Global Id: T0600101301

UTILITY TRUCK BODIES ***1530 WOOD*** ***NE 1/4 - 1/2 (0.414 mi.)*** ***Z126*** ***392***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Id: 01-1832
Facility Status: Preliminary site assessment underway
Global Id: T0600101698

YUSEN TERMINALS ***1195 MARITIME ST*** ***NW 1/4 - 1/2 (0.418 mi.)*** ***AA128*** ***405***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Id: 01-0939
Facility Status: Case Closed
date9: 1/10/1997

PORT OF OAKLAND YUSE ***1195 MARITIME ST*** ***NW 1/4 - 1/2 (0.418 mi.)*** ***AA130*** ***408***
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Global Id: T0600100864

BASF CORPORATION ***1545 WILLOW ST*** ***NE 1/4 - 1/2 (0.422 mi.)*** ***AB131*** ***409***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Id: 01-0152
Facility Status: Case Closed
date9: 11/4/1994

BASF CORPORATION ***1545 WILLOW ST*** ***NE 1/4 - 1/2 (0.422 mi.)*** ***AB132*** ***412***
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Global Id: T0600100141
Global Id: SLT19763584

PORT OF OAKLAND ***801 MARITIME STREET*** ***W 1/4 - 1/2 (0.441 mi.)*** ***136*** ***421***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Id: 01-1199
Facility Status: Post remedial action monitoring
Global Id: T0600101102

PORT OF OAKLAND ***2277 7TH ST*** ***WSW 1/4 - 1/2 (0.442 mi.)*** ***AD137*** ***424***
Database: LUST, Date of Government Version: 12/10/2018
Status: Open - Verification Monitoring
Global Id: T0600101866

PORT OF OAKLAND ***651 MARITIME STREET*** ***WSW 1/4 - 1/2 (0.442 mi.)*** ***AD139*** ***440***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Id: 01-2020
Facility Status: Preliminary site assessment underway

PORT OF OAKLAND / NA ***651 MARITIME STREET*** ***W 1/4 - 1/2 (0.470 mi.)*** ***143*** ***453***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Id: 01-0969
Facility Status: Preliminary site assessment underway
Global Id: T0600100892

EXECUTIVE SUMMARY

CA CPS-SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CA CPS-SLIC list, as provided by EDR, has revealed that there are 9 CA CPS-SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THE PHOENIX Database: CPS-SLIC, Date of Government Version: 12/10/2018 Facility Status: Open - Site Assessment Global Id: T10000011072	***801 PINE STREET***	***S 0 - 1/8 (0.002 mi.)***	***B6***	***28***
CALIFORNIA WASTE SOL Database: SLIC REG 2, Date of Government Version: 09/30/2004 Database: CPS-SLIC, Date of Government Version: 12/10/2018 Facility Status: Completed - Case Closed Facility Id: 01S0363 Global Id: T0600191528	***1820 10TH ST***	***NNE 0 - 1/8 (0.080 mi.)***	***F24***	***95***
PACIFIC CANNERY LOFT Database: CPS-SLIC, Date of Government Version: 12/10/2018 Facility Status: Completed - Case Closed Global Id: SL0600111446	***1111-1199 PINE STREE***	***NE 1/8 - 1/4 (0.148 mi.)***	***K53***	***154***
US POSTAL SERVICE - Database: CPS-SLIC, Date of Government Version: 12/10/2018 Facility Status: Open - Inactive Global Id: T10000001615	***1675 7TH STREET***	***SE 1/8 - 1/4 (0.248 mi.)***	***T107***	***220***

Lower Elevation	Address	Direction / Distance	Map ID	Page
STATION HOUSE SOUTH Database: CPS-SLIC, Date of Government Version: 12/10/2018 Facility Status: Open - Remediation Global Id: T10000007678	WOOD STREET	NNE 1/8 - 1/4 (0.243 mi.)	102	216
14TH STREET APARTMEN Database: CPS-SLIC, Date of Government Version: 12/10/2018 Facility Status: Completed - Case Closed Global Id: SL0600197637	***1801 14TH STREET***	***NE 1/4 - 1/2 (0.296 mi.)***	***115***	***344***
CENTRAL STATION LAND Database: SLIC REG 2, Date of Government Version: 09/30/2004 Facility Id: SLT2O195298	1399-1707 WOOD STREE	NE 1/4 - 1/2 (0.321 mi.)	V116	345
CYPRESS FREEWAY RECO Database: SLIC REG 2, Date of Government Version: 09/30/2004 Facility Id: SL20239857	***I-80/I-580/I-980***	***SSE 1/4 - 1/2 (0.406 mi.)***	***125***	***391***
CENTRAL STATION VILL Database: CPS-SLIC, Date of Government Version: 12/10/2018 Facility Status: Completed - Case Closed Global Id: SL0600180308	***1401-1599 WOOD STREE***	***NE 1/4 - 1/2 (0.433 mi.)***	***Z134***	***418***

EXECUTIVE SUMMARY

CA Alameda County CS: A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

A review of the CA Alameda County CS list, as provided by EDR, and dated 01/09/2019 has revealed that there are 22 CA Alameda County CS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THE PHOENIX Record Id: RO0003269 Status: Leak Confirmation	800 PINE ST	SSE 0 - 1/8 (0.014 mi.)	B11	34
PHOENIX IRON WKS. Record Id: RO0000417 Status: Leak Confirmation Status: Pollution Characterization	***888 CEDAR ST***	***SSW 0 - 1/8 (0.064 mi.)***	***G16***	***84***
CALIFORNIA WASTE SOL Record Id: RO0003019 Status: Leak Confirmation Status: Pollution Characterization	***1820 10TH ST***	***NNE 0 - 1/8 (0.080 mi.)***	***F24***	***95***
W.O. RIP TRACK Record Id: RO0003030 Status: Leak Confirmation	***515 BAY ST***	***SW 0 - 1/8 (0.087 mi.)***	***I31***	***113***
GOSSWOOD HOUSING ASS Record Id: RO0000795 Status: Case Closed	***1751 GOSS***	***SSE 0 - 1/8 (0.090 mi.)***	***H33***	***120***
CHURCHS FRIED CHICKE Record Id: RO0002843 Status: Leak Confirmation	***1766 7TH STREET***	***SSE 0 - 1/8 (0.105 mi.)***	***J41***	***131***
SOUTHERN PACIFIC TRA Record Id: RO0001127 Status: Case Closed	***1912 7TH ST***	***WSW 0 - 1/8 (0.115 mi.)***	***I44***	***136***
SOUTHERN PACIFIC TRA Record Id: RO0000754 Status: Case Closed	***721 CEDAR ST***	***SW 1/8 - 1/4 (0.128 mi.)***	***L50***	***149***
BOHELLI WINDOWS Record Id: RO0000789 Status: Case Closed	***1111 PINE ST***	***NE 1/8 - 1/4 (0.148 mi.)***	***K55***	***156***
UNION PACIFIC RAILRO Record Id: RO0000931	0 PINE ST	NE 1/8 - 1/4 (0.195 mi.)	N72	194
US POSTAL SERVICE - Record Id: RO0000016 Record Id: RO0003012 Status: Leak Confirmation Status: Pollution Characterization Status: Case Closed	***1675 7TH STREET***	***SE 1/8 - 1/4 (0.248 mi.)***	***T107***	***220***
TAYLOR ROOF STRUCTUR Record Id: RO0001156 Status: Case Closed	***1746 13TH***	***NE 1/4 - 1/2 (0.285 mi.)***	***U114***	***342***
RELIABLE HANDI CAB Record Id: RO0001137 Status: Case Closed	***1520 7TH***	***SE 1/4 - 1/2 (0.434 mi.)***	***135***	***419***

Lower Elevation	Address	Direction / Distance	Map ID	Page
ALL WEATHER DOOR	***1851 5TH ST***	***SW 1/8 - 1/4 (0.173 mi.)***	***L65***	***179***

Record Id: RO0000192 Status: Leak Confirmation Status: Preliminary Site Assessment Underway				
CAL-EAST FOODS	***505 CEDAR STREET***	***SSW 1/8 - 1/4 (0.227 mi.)***	***Q90***	***203***
Record Id: RO0000306 Status: Leak Confirmation Status: Preliminary Site Assessment Underway Status: Pollution Characterization Status: Verificaiton Monitoring Underway				
SOUTHERN PACIFIC TRA	***1399 WOOD ST***	***NE 1/4 - 1/2 (0.321 mi.)***	***V117***	***345***
Record Id: RO0000476 Status: Leak Confirmation Status: Preliminary Site Assessment Workplan Submitted Status: Preliminary Site Assessment Underway Status: Verificaiton Monitoring Underway				
UTILITY TRUCK BODIES	***1530 WOOD***	***NE 1/4 - 1/2 (0.414 mi.)***	***Z126***	***392***
Record Id: RO0000024 Status: Case Closed				
PORT OF OAKLAND YUSE	***1195 MARITIME ST***	***NW 1/4 - 1/2 (0.418 mi.)***	***AA130***	***408***
Record Id: RO0000926 Status: Case Closed				
BASF CORPORATION	***1545 WILLOW ST***	***NE 1/4 - 1/2 (0.422 mi.)***	***AB132***	***412***
Record Id: RO0002956 Status: Case Closed				
PORT OF OAKLAND	***801 MARITIME STREET***	***W 1/4 - 1/2 (0.441 mi.)***	***136***	***421***
Record Id: RO0000019 Status: Leak Confirmation Status: Preliminary Site Assessment Workplan Submitted Status: Case Closed				
PORT OF OAKLAND	***2277 7TH ST***	***WSW 1/4 - 1/2 (0.442 mi.)***	***AD137***	***424***
Record Id: RO0000010 Status: Pollution Characterization Status: Remedial Action Underway				
PORT OF OAKLAND / NA	***651 MARITIME ST***	***WSW 1/4 - 1/2 (0.442 mi.)***	***AD138***	***438***
Record Id: RO0000187 Status: Leak Confirmation Status: Preliminary Site Assessment Underway Status: Pollution Characterization Status: Remedial Action Underway Status: Case Closed				

State and tribal registered storage tank lists

CA UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board’s Hazardous Substance Storage Container Database.

A review of the CA UST list, as provided by EDR, has revealed that there are 17 CA UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USPS - OAKLAND VMF Database: ALAMEDA CO. UST, Date of Government Version: 01/07/2019 Database: UST, Date of Government Version: 12/10/2018 Facility Id: 122 Facility Id: FA0321461 Facility Status: 01	1675 7TH ST	SE 1/8 - 1/4 (0.248 mi.)	T105	218

Lower Elevation	Address	Direction / Distance	Map ID	Page
OAKLAND ARMY BASE - Database: MILITARY UST SITES, Date of Government Version: 12/10/2018	10TH STREET	NNW 1/8 - 1/4 (0.165 mi.)	M60	176
OAKLAND ARMY BASE - Database: MILITARY UST SITES, Date of Government Version: 12/10/2018	10TH STREET	NNW 1/8 - 1/4 (0.166 mi.)	M63	178
OAKLAND ARMY BASE - Database: MILITARY UST SITES, Date of Government Version: 12/10/2018	11TH STREET	NNW 1/8 - 1/4 (0.184 mi.)	M70	193
OAKLAND ARMY BASE - Database: MILITARY UST SITES, Date of Government Version: 12/10/2018	11TH STREET	NNW 1/8 - 1/4 (0.197 mi.)	M73	194
OAKLAND ARMY BASE - Database: MILITARY UST SITES, Date of Government Version: 12/10/2018	11TH STREET	NNW 1/8 - 1/4 (0.197 mi.)	O76	195
OAKLAND ARMY BASE - Database: MILITARY UST SITES, Date of Government Version: 12/10/2018	TULAGI STREET, SE CO	WNW 1/8 - 1/4 (0.208 mi.)	P80	197
OAKLAND ARMY BASE - Database: MILITARY UST SITES, Date of Government Version: 12/10/2018	10TH STREET	NW 1/8 - 1/4 (0.221 mi.)	R82	200
OAKLAND ARMY BASE - Database: MILITARY UST SITES, Date of Government Version: 12/10/2018	SOUTHEAST CORNER OF	NW 1/8 - 1/4 (0.223 mi.)	P84	200
OAKLAND ARMY BASE - Database: MILITARY UST SITES, Date of Government Version: 12/10/2018	12TH STREET	NNW 1/8 - 1/4 (0.225 mi.)	S87	202
OAKLAND ARMY BASE - Database: MILITARY UST SITES, Date of Government Version: 12/10/2018	OAKLAND ARMY BASE	N 1/8 - 1/4 (0.226 mi.)	S89	203
OAKLAND ARMY BASE - Database: MILITARY UST SITES, Date of Government Version: 12/10/2018	10TH STREET	NW 1/8 - 1/4 (0.229 mi.)	R92	208
OAKLAND ARMY BASE - Database: MILITARY UST SITES, Date of Government Version: 12/10/2018	12TH STREET	NNW 1/8 - 1/4 (0.230 mi.)	S93	209
OAKLAND ARMY BASE - Database: MILITARY UST SITES, Date of Government Version: 12/10/2018	11TH STREET	NW 1/8 - 1/4 (0.231 mi.)	R95	210
OAKLAND ARMY BASE - Database: MILITARY UST SITES, Date of Government Version: 12/10/2018	OAKLAND ARMY BASE	NNW 1/8 - 1/4 (0.240 mi.)	S98	211
OAKLAND ARMY BASE - Database: MILITARY UST SITES, Date of Government Version: 12/10/2018	10TH STREET	NW 1/8 - 1/4 (0.241 mi.)	R99	212
OAKLAND ARMY BASE - Database: MILITARY UST SITES, Date of Government Version: 12/10/2018	11TH STREET	NW 1/8 - 1/4 (0.247 mi.)	R103	217

CA AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the CA AST list, as provided by EDR, has revealed that there are 3 CA AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CALIFORNIA WASTE SOL Database: AST, Date of Government Version: 07/06/2016	1820 10TH ST	NNE 0 - 1/8 (0.080 mi.)	F29	112
MAIN POST OFFICE Database: AST, Date of Government Version: 07/06/2016	***1675 7TH STREET***	***SE 1/8 - 1/4 (0.248 mi.)***	***T106***	***218***

Lower Elevation	Address	Direction / Distance	Map ID	Page
WEST OAKLAND YARD Database: AST, Date of Government Version: 07/06/2016	1851 FIFTH ST.	SW 1/8 - 1/4 (0.173 mi.)	L67	188

State and tribal voluntary cleanup sites

CA VCP: Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

A review of the CA VCP list, as provided by EDR, and dated 01/28/2019 has revealed that there are 15 CA VCP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DEPT OF TRANSPORTATI Status: Inactive - Needs Evaluation Facility Id: 1330037	***800 CEDAR ST***	***0 - 1/8 (0.000 mi.)***	***A1***	***21***
B & A AUTO DISMANTLE Status: Certified Facility Id: 1500106	***1823 SHOREY STREET***	***SSW 0 - 1/8 (0.019 mi.)***	***B12***	***35***
CALTRANS Status: Certified Facility Id: 1920064	***727 PINE ST***	***SSW 0 - 1/8 (0.068 mi.)***	***G18***	***88***
WILFRED'S AUTO WRECK Status: Certified Facility Id: 1500105	***1834 7TH STREET***	***SSW 0 - 1/8 (0.069 mi.)***	***G19***	***91***
PHOENIX 766 PROPERTY Status: Certified Facility Id: 1330036	***766 CEDAR STREET***	***SW 0 - 1/8 (0.105 mi.)***	***I40***	***129***
CHURCHS FRIED CHICKE Status: Certified Facility Id: 1540002	***1766 7TH STREET***	***SSE 0 - 1/8 (0.105 mi.)***	***J41***	***131***
LIPS PROPELLERS Status: No Further Action Facility Id: 1350121	***1899 7TH STREET***	***SW 0 - 1/8 (0.110 mi.)***	***I42***	***134***
US POSTAL SERVICE - Status: Certified	***1675 7TH STREET***	***SE 1/8 - 1/4 (0.248 mi.)***	***T107***	***220***

Facility Id: 1430001

WILLOW PARK Status: No Further Action Facility Id: 1990028	***1368 WILLOW STREET***	***ENE 1/4 - 1/2 (0.345 mi.)***	***X120***	***371***

Lower Elevation	Address	Direction / Distance	Map ID	Page
ALL WEATHER DOOR Status: Inactive - Needs Evaluation Facility Id: 1990013	***1851 5TH ST***	***SW 1/8 - 1/4 (0.173 mi.)***	***L65***	***179***
PHOENIX 524 PROPERTY Status: Inactive - Needs Evaluation Facility Id: 1330038	***524 CEDAR STREET***	***SSW 1/8 - 1/4 (0.218 mi.)***	***Q81***	***198***
CAL-EAST FOODS Status: Certified Facility Id: 1510024	***505 CEDAR STREET***	***SSW 1/8 - 1/4 (0.227 mi.)***	***Q90***	***203***
SMITH’S WRECKING YAR Status: Certified Facility Id: 1990014	***1600 3RD STREET***	***SSE 1/4 - 1/2 (0.428 mi.)***	***AC133***	***416***
CYPRESS FREEWAY-3RD Status: Certified Facility Id: 1400012	***3RD STREET BETWEEN C***	***SSE 1/4 - 1/2 (0.481 mi.)***	***AF145***	***464***
SO. PRESCOTT NEIGHBO Status: Certified Facility Id: 1990019	***3RD STREET***	***SSE 1/4 - 1/2 (0.488 mi.)***	***AF146***	***466***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA’s listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 12/17/2018 has revealed that there are 4 US BROWNFIELDS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
800 CEDAR ST ACRES property ID: 127441	800 CEDAR STREET	0 - 1/8 (0.000 mi.)	A2	23
1014 PINE STREET ACRES property ID: 122023	***1014 PINE STREET***	***NE 0 - 1/8 (0.093 mi.)***	***E35***	***125***
WILLOW PARK ACRES property ID: 16501	***14TH AND WILLOW ST W***	***ENE 1/4 - 1/2 (0.354 mi.)***	***X121***	***374***
WEST OAKLAND AREA I ACRES property ID: 131530	***7TH STREET BETWEEN P***	***E 1/4 - 1/2 (0.474 mi.)***	***144***	***461***

Local Lists of Hazardous waste / Contaminated Sites

CA HIST Cal-Sites: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

A review of the CA HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there are 13 CA HIST Cal-Sites sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMCO CHEMICAL	*1414 THIRD STREET*	*SE 1/2 - 1 (0.569 mi.)*	*0*	*8*
GAINES PROPERTY	*1795 11TH STREET*	*NE 0 - 1/8 (0.120 mi.)*	*K46*	*139*
528 LEWIS STREET	*528 LEWIS STREET*	*SE 1/4 - 1/2 (0.373 mi.)*	*Y123*	*382*

Lower Elevation	Address	Direction / Distance	Map ID	Page
OAKLAND GATEWAY DEVE	*700 MURMANSK STREET,*	*NNW 1/8 - 1/4 (0.161 mi.)*	*M59*	*165*
OAKLAND ARMY BASE	*2475-D WEST 12TH STR*	*NNW 1/4 - 1/2 (0.331 mi.)*	*W118*	*349*
SOUTHERN PACIFIC -WE	*CYPRESS CORRIDOR*	*SSE 1/4 - 1/2 (0.448 mi.)*	*AC140*	*444*
SF BAY AREA RAPID TR	*349 MANDELA PKWY*	*SE 1/2 - 1 (0.623 mi.)*	*AI165*	*508*
TRANS BAY CONTAINER	*2500 7TH STREET*	*W 1/2 - 1 (0.732 mi.)*	*173*	*531*
FLEET INDUSTRIAL SUP	*531 ACRES; EASTERN S*	*SW 1/2 - 1 (0.762 mi.)*	*176*	*545*
BNSF WOOD STREET YAR	*WOOD STREET & WEST G*	*NE 1/2 - 1 (0.777 mi.)*	*AM178*	*569*
HEROIC WAR DEAD EBMU	*2400 ENGINEER ROAD*	*N 1/2 - 1 (0.906 mi.)*	*190*	*604*
SOUTHERN PACIFIC - D	*CYPRESS CORRIDOR*	*NE 1/2 - 1 (0.953 mi.)*	*191*	*635*
COMMERCIAL BUILDINGS	*1250-1276, 1284 W. G*	*ENE 1/2 - 1 (0.959 mi.)*	*193*	*644*

CA Toxic Pits: The Toxic Pits Cleanup Act Sites database identifies sites suspected of containing hazardous substances where cleanup has not yet been completed. The data come from the State Water Resources Control Board.

A review of the CA Toxic Pits list, as provided by EDR, and dated 07/01/1995 has revealed that there are 2 CA Toxic Pits sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SP, W.OAKLAND YD.-(O Closure Date: 04/21/93 Task #: 82010 Status: CLOSED	1707 WOOD STREET	NE 1/2 - 1 (0.544 mi.)	AG154	490
SP, W.OAKLAND YARD-(Closure Date: 06/30/92 Task #: 82034 Status: CLOSED	1707 WOOD STREET	NE 1/2 - 1 (0.544 mi.)	AG155	490

CA CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CA CERS HAZ WASTE list, as provided by EDR, and dated 10/22/2018 has revealed that there are 4 CA CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CALIFORNIA WASTE SOL	*1819 10TH ST*	*NNE 0 - 1/8 (0.055 mi.)*	*F15*	*38*
CALIFORNIA WASTE SOL	*1820 10TH ST*	*NNE 0 - 1/8 (0.080 mi.)*	*F27*	*99*
USPS - OAKLAND P&DC	*1675 7TH ST*	*SE 1/8 - 1/4 (0.248 mi.)*	*T109*	*238*
USPS - OAKLAND VMF	*1675 7TH ST*	*SE 1/8 - 1/4 (0.248 mi.)*	*T111*	*256*

Local Lists of Registered Storage Tanks

CA SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the CA SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 11 CA SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PHOENIX IRON WKS. Status: A Tank Status: A Comp Number: 59789	*888 CEDAR ST*	*SSW 0 - 1/8 (0.064 mi.)*	*G16*	*84*
GLOBE METALS CO. Comp Number: 1004	*1820 010TH ST*	*NNE 0 - 1/8 (0.078 mi.)*	*F22*	*94*
S.P. CO. DESERT YARD Comp Number: 24518	*515 BAY ST*	*SW 0 - 1/8 (0.087 mi.)*	*I30*	*113*
W.O. RIP TRACK Comp Number: 24512	*515 BAY ST*	*SW 0 - 1/8 (0.087 mi.)*	*I31*	*113*
GOSSWOOD HOUSING ASS Comp Number: 13837	*1751 GOSS*	*SSE 0 - 1/8 (0.090 mi.)*	*H33*	*120*
SOUTHERN PACIFIC TRA Comp Number: 24515	*1912 007TH ST*	*SW 0 - 1/8 (0.121 mi.)*	*I48*	*147*
SOUTHERN PACIFIC TRA Comp Number: 24516	*721 CEDAR ST*	*SW 1/8 - 1/4 (0.128 mi.)*	*L50*	*149*
BOHELLI WINDOWS Comp Number: 6111	*1111 PINE ST*	*NE 1/8 - 1/4 (0.148 mi.)*	*K55*	*156*
ALL-WEATHER ARCH. AL Comp Number: 68557	*1851 005TH ST*	*WSW 1/8 - 1/4 (0.172 mi.)*	*64*	*178*
OAKLAND MAIN OFFICE Status: A Tank Status: A Comp Number: 37434	*1675 007TH ST*	*SE 1/8 - 1/4 (0.241 mi.)*	*T101*	*213*

Lower Elevation	Address	Direction / Distance	Map ID	Page
CAL-EAST FOODS Comp Number: 4923	*505 CEDAR STREET*	*SSW 1/8 - 1/4 (0.227 mi.)*	*Q90*	*203*

CA HIST UST: Historical UST Registered Database.

A review of the CA HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 16 CA HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PHOENIX IRON WKS	888 CEDAR ST	NE 0 - 1/8 (0.043 mi.)	D13	36
Facility Id: 00000059789				
GLOBE METALS CO.	1820 10TH ST	NNE 0 - 1/8 (0.080 mi.)	F23	94
Facility Id: 00000001004				
GLOBE METALS CO	1820 TENTH STREET	NNE 0 - 1/8 (0.080 mi.)	F25	98
S.P. CO. DESERT YARD	***515 BAY ST***	***SW 0 - 1/8 (0.087 mi.)***	***I30***	***113***
Facility Id: 00000024518				
W.O. RIP TRACK	***515 BAY ST***	***SW 0 - 1/8 (0.087 mi.)***	***I31***	***113***
W.O. RIP TRACK	515 BAY ST	SW 0 - 1/8 (0.087 mi.)	I32	120
Facility Id: 00000024512				
SOUTHERN PACIFIC TRA	***1912 7TH ST***	***WSW 0 - 1/8 (0.115 mi.)***	***I44***	***136***
SOUTHERN PACIFIC TRA	721 CEDAR STREET	SW 1/8 - 1/4 (0.128 mi.)	L49	148
Facility Id: 00000024516				
ADELPHI ALUMINUM CO.	1111 PINE ST	NE 1/8 - 1/4 (0.148 mi.)	K54	155
Facility Id: 00000006111				
BOHELLI WINDOWS	***1111 PINE ST***	***NE 1/8 - 1/4 (0.148 mi.)***	***K55***	***156***
SOUTHERN PACIFIC TRA	***FOOT OF PINE STREET***	***NE 1/8 - 1/4 (0.180 mi.)***	***N68***	***188***
Facility Id: 00000024517				
Facility Id: 00000024485				
OAKLAND NORTHFIELD T	OAKLAND MUNICIPAL AI	ESE 1/8 - 1/4 (0.205 mi.)	78	196
Facility Id: 00000013503				
MAIN POST OFFICE	***1675 7TH STREET***	***SE 1/8 - 1/4 (0.248 mi.)***	***T106***	***218***
MAIN OFFICE VEHICLE	1675-7TH STREET	SE 1/8 - 1/4 (0.248 mi.)	T110	255
Facility Id: 00000037434				
MAIN POST OFFICE	1675 - 7TH STREET	SE 1/8 - 1/4 (0.248 mi.)	T112	341
Facility Id: 00000066335				

Lower Elevation	Address	Direction / Distance	Map ID	Page
ALL-WEATHER ARCH ALU	***1851 5TH STREET***	***SW 1/8 - 1/4 (0.173 mi.)***	***L66***	***185***
Facility Id: 00000068557				

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 8 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PHOENIX IRON WKS.	***888 CEDAR ST***	***SSW 0 - 1/8 (0.064 mi.)***	***G16***	***84***
Facility Id: 01002778				
Status: A				
GLOBE METALS CO.	***1820 010TH ST***	***NNE 0 - 1/8 (0.078 mi.)***	***F22***	***94***

Facility Id: 01002075 Status: I				
W.O. RIP TRACK Facility Id: 01001526 Status: I	***515 BAY ST***	***SW 0 - 1/8 (0.087 mi.)***	***I31***	***113***
SOUTHERN PACIFIC TRA Facility Id: 01002156 Status: I	***1912 007TH ST***	***SW 0 - 1/8 (0.121 mi.)***	***I48***	***147***
SOUTHERN PACIFIC TRA Facility Id: 01001522 Status: I	***721 CEDAR ST***	***SW 1/8 - 1/4 (0.128 mi.)***	***L50***	***149***
BOHELLI WINDOWS Facility Id: 01002541 Status: A	***1111 PINE ST***	***NE 1/8 - 1/4 (0.148 mi.)***	***K55***	***156***
ALL-WEATHER ARCH. AL Facility Id: 01002279 Status: I	***1851 005TH ST***	***WSW 1/8 - 1/4 (0.172 mi.)***	***64***	***178***
OAKLAND MAIN OFFICE Facility Id: 01002683 Status: A	***1675 007TH ST***	***SE 1/8 - 1/4 (0.241 mi.)***	***T101***	***213***

CA CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CA CERS TANKS list, as provided by EDR, and dated 10/22/2018 has revealed that there are 19 CA CERS TANKS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CALIFORNIA WASTE SOL	***1819 10TH ST***	***NNE 0 - 1/8 (0.055 mi.)***	***F15***	***38***
CALIFORNIA WASTE SOL	***1820 10TH ST***	***NNE 0 - 1/8 (0.080 mi.)***	***F27***	***99***
USPS - OAKLAND VMF	***1675 7TH ST***	***SE 1/8 - 1/4 (0.248 mi.)***	***T111***	***256***

Lower Elevation	Address	Direction / Distance	Map ID	Page
OAKLAND ARMY BASE -	***10TH STREET***	***NNW 1/8 - 1/4 (0.165 mi.)***	***M61***	***177***
OAKLAND ARMY BASE -	***10TH STREET***	***NNW 1/8 - 1/4 (0.166 mi.)***	***M62***	***177***
OAKLAND ARMY BASE -	***11TH STREET***	***NNW 1/8 - 1/4 (0.184 mi.)***	***M71***	***193***
OAKLAND ARMY BASE -	***11TH STREET***	***NNW 1/8 - 1/4 (0.197 mi.)***	***M74***	***194***
OAKLAND ARMY BASE -	***11TH STREET***	***NNW 1/8 - 1/4 (0.197 mi.)***	***O75***	***195***
OAKLAND ARMY BASE -	***TULAGI STREET, SE CO***	***WNW 1/8 - 1/4 (0.208 mi.)***	***P79***	***197***
OAKLAND ARMY BASE -	***10TH STREET***	***NW 1/8 - 1/4 (0.221 mi.)***	***R83***	***200***
OAKLAND ARMY BASE -	***SOUTHEAST CORNER OF***	***NW 1/8 - 1/4 (0.223 mi.)***	***P85***	***201***
OAKLAND ARMY BASE -	***12TH STREET***	***NNW 1/8 - 1/4 (0.225 mi.)***	***S86***	***201***
OAKLAND ARMY BASE -	***OAKLAND ARMY BASE***	***N 1/8 - 1/4 (0.226 mi.)***	***S88***	***202***
OAKLAND ARMY BASE -	***10TH STREET***	***NW 1/8 - 1/4 (0.229 mi.)***	***R91***	***208***
OAKLAND ARMY BASE -	***12TH STREET***	***NNW 1/8 - 1/4 (0.230 mi.)***	***S94***	***210***
OAKLAND ARMY BASE -	***11TH STREET***	***NW 1/8 - 1/4 (0.231 mi.)***	***R96***	***211***
OAKLAND ARMY BASE -	***OAKLAND ARMY BASE***	***NNW 1/8 - 1/4 (0.240 mi.)***	***S97***	***211***
OAKLAND ARMY BASE -	***10TH STREET***	***NW 1/8 - 1/4 (0.241 mi.)***	***R100***	***213***
OAKLAND ARMY BASE -	***11TH STREET***	***NW 1/8 - 1/4 (0.247 mi.)***	***R104***	***217***

EXECUTIVE SUMMARY

Local Land Records

CA DEED: The use of recorded land use restrictions is one of the methods the DTSC uses to protect the public from unsafe exposures to hazardous substances and wastes .

A review of the CA DEED list, as provided by EDR, and dated 12/03/2018 has revealed that there are 4 CA DEED sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
OAKLAND GATEWAY DEVE Status: ACTIVE Envirostor ID: 1970016	***700 MURMANSK STREET,***	***NNW 1/8 - 1/4 (0.161 mi.)***	***M59***	***165***
14TH STREET APARTMEN Status: COMPLETED - CASE CLOSED Envirostor ID: SL0600197637	***1801 14TH STREET***	***NE 1/4 - 1/2 (0.296 mi.)***	***115***	***344***
PORT OF OAKLAND - FO Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY Envirostor ID: 80001200	***MARITIME STREET AND***	***NNW 1/4 - 1/2 (0.418 mi.)***	***127***	***394***
SOUTHERN PACIFIC -WE Status: CERTIFIED / OPERATION & MAINTENANCE Envirostor ID: 1400010	***CYPRESS CORRIDOR***	***SSE 1/4 - 1/2 (0.448 mi.)***	***AC140***	***444***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USPS - OAKLAND VMF EPA ID:: CA6180090148	***1675 7TH ST***	***SE 1/8 - 1/4 (0.248 mi.)***	***T108***	***236***

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 01/31/2015 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ARMY-NAVY DISTRIBUTI Federal Facility ID:: CA9799F5696 INST ID:: 57292		NE 1/2 - 1 (0.874 mi.)	188	591

DOD: Consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

Equal/Higher Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
OAKLAND ARMY BASE (C		NW 1/4 - 1/2 (0.381 mi.)	0	8

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 12/12/2018 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
FLEET INDUSTRIAL SUP EPA ID:: CA4170090027	***7TH & MARITIME***	***W 1/2 - 1 (0.513 mi.)***	***150***	***472***

CA BOND EXP. PLAN: Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

A review of the CA BOND EXP. PLAN list, as provided by EDR, and dated 01/01/1989 has revealed that there is 1 CA BOND EXP. PLAN site within approximately 1 mile of the target property.

Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
SOUTHERN PACIFIC TRA	1707 WOOD STREET	NE 1/2 - 1 (0.544 mi.)	AG156	491

CA Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the CA Cortese list, as provided by EDR, and dated 12/20/2018 has revealed that there is 1 CA Cortese site within approximately 0.5 miles of the target property.

Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
SOUTHERN PACIFIC -WE Envirostor Id: 1400010 Cleanup Status: CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS	***CYPRESS CORRIDOR***	***SSE 1/4 - 1/2 (0.448 mi.)***	***AC140***	***444***

CA HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the CA HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 25 CA HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
PEP BOYS	1818 SHOREY	0 - 1/8 (0.000 mi.)	B4	27

Reg Id: 3157				
PHOENIX IRON WKS. Reg Id: 01-2420	***888 CEDAR ST***	***SSW 0 - 1/8 (0.064 mi.)***	***G16***	***84***
GLOBE METALS COMPANY Reg Id: 01-1918	182010TH	NE 0 - 1/8 (0.068 mi.)	E17	88
W.O. RIP TRACK Reg Id: 01-1414	***515 BAY ST***	***SW 0 - 1/8 (0.087 mi.)***	***I31***	***113***
GOSSWOOD HOUSING ASS Reg Id: 01-0944	***1751 GOSS***	***SSE 0 - 1/8 (0.090 mi.)***	***H33***	***120***
PHOENIX 766 PROPERTY Reg Id: 01330036	***766 CEDAR STREET***	***SW 0 - 1/8 (0.105 mi.)***	***I40***	***129***
CHURCHS FRIED CHICKE Reg Id: 01540002	***1766 7TH STREET***	***SSE 0 - 1/8 (0.105 mi.)***	***J41***	***131***
LIPS PROPELLERS Reg Id: 01350121	***1899 7TH STREET***	***SW 0 - 1/8 (0.110 mi.)***	***I42***	***134***
SOUTHERN PACIFIC TRA Reg Id: 01-1401	***1912 7TH ST***	***WSW 0 - 1/8 (0.115 mi.)***	***I44***	***136***
SOUTHERN PACIFIC TRA Reg Id: 01-1411	***721 CEDAR ST***	***SW 1/8 - 1/4 (0.128 mi.)***	***L50***	***149***
BOHELLI WINDOWS Reg Id: 01-1824	***1111 PINE ST***	***NE 1/8 - 1/4 (0.148 mi.)***	***K55***	***156***
US POSTAL SERVICE - Reg Id: 01-0487	***1675 7TH STREET***	***SE 1/8 - 1/4 (0.248 mi.)***	***T107***	***220***
TAYLOR ROOF STRUCTUR Reg Id: 01-1449	***1746 13TH***	***NE 1/4 - 1/2 (0.285 mi.)***	***U114***	***342***
RELIABLE HANDI CAB Reg Id: 01-1234	***1520 7TH***	***SE 1/4 - 1/2 (0.434 mi.)***	***135***	***419***

Lower Elevation	Address	Direction / Distance	Map ID	Page
ALL WEATHER DOOR Reg Id: 01-1713	***1851 5TH ST***	***SW 1/8 - 1/4 (0.173 mi.)***	***L65***	***179***
SPT CO LOCO FUEL PLA Reg Id: 01-2426	***UNKNOWN PINE ST FOOT***	***SSW 1/8 - 1/4 (0.198 mi.)***	***77***	***196***
PHOENIX 524 PROPERTY Reg Id: 01330038	***524 CEDAR STREET***	***SSW 1/8 - 1/4 (0.218 mi.)***	***Q81***	***198***
CAL-EAST FOODS Reg Id: 01510024 Reg Id: 01-0214	***505 CEDAR STREET***	***SSW 1/8 - 1/4 (0.227 mi.)***	***Q90***	***203***
SOUTHERN PACIFIC TRA Reg Id: 01-1408	***1399 WOOD ST***	***NE 1/4 - 1/2 (0.321 mi.)***	***V117***	***345***
UTILITY TRUCK BODIES Reg Id: 01-1832	***1530 WOOD***	***NE 1/4 - 1/2 (0.414 mi.)***	***Z126***	***392***
STEVEDORING SVCS OF Reg Id: 01-0939	***1195 MARITIME***	***NW 1/4 - 1/2 (0.418 mi.)***	***AA129***	***406***
BASF CORPORATION Reg Id: 01-0152	***1545 WILLOW ST***	***NE 1/4 - 1/2 (0.422 mi.)***	***AB132***	***412***
PORT OF OAKLAND	***801 MARITIME STREET***	***W 1/4 - 1/2 (0.441 mi.)***	***136***	***421***

Reg Id: 01-1199				
PORT OF OAKLAND Reg Id: 01-2020	***651 MARITIME STREET***	***WSW 1/4 - 1/2 (0.442 mi.)***	***AD139***	***440***
PORT OF OAKLAND / NA Reg Id: 01-0969	***651 MARITIME STREET***	***W 1/4 - 1/2 (0.470 mi.)***	***143***	***453***

NY MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the NY MANIFEST list, as provided by EDR, and dated 01/01/2019 has revealed that there is 1 NY MANIFEST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARITIME ADMINISTRAT EPA ID: CAP982452716	1776 11TH STREET	NE 1/8 - 1/4 (0.152 mi.)	K57	162

CA PROC: A listing of certified processors.

A review of the CA PROC list, as provided by EDR, and dated 12/10/2018 has revealed that there is 1 CA PROC site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CALIFORNIA WASTE SOL Cert Id: PR0328 Reg Id: 24322	***1820 10TH ST***	***NNE 0 - 1/8 (0.080 mi.)***	***F24***	***95***

CA Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the CA Notify 65 list, as provided by EDR, and dated 09/19/2018 has revealed that there are 8 CA Notify 65 sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TAYLOR ROOF STRUCTUR	1769 13TH STREET	ENE 1/4 - 1/2 (0.268 mi.)	U113	342
NABISCO BRANDS, INC.	1267 14TH STREET	E 1/2 - 1 (0.726 mi.)	AL171	527

Lower Elevation	Address	Direction / Distance	Map ID	Page
PORT OF OAKLAND YUSE	***1195 MARITIME ST***	***NW 1/4 - 1/2 (0.418 mi.)***	***AA130***	***408***
PORT OF OAKLAND	***801 MARITIME STREET***	***W 1/4 - 1/2 (0.441 mi.)***	***136***	***421***
PACIFIC MARINE MAINT	***1425 MARITIME STREET***	***N 1/2 - 1 (0.547 mi.)***	***158***	***495***
BUILDING 331 EAST	7 MERRITIME	NNE 1/2 - 1 (0.613 mi.)	163	505
C-103 YARD	2700 7TH STEET	W 1/2 - 1 (0.835 mi.)	184	585
KANTOR WAREHOUSE	***2525 MANDELA***	***NE 1/2 - 1 (0.977 mi.)***	***AO194***	***650***

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 2 EDR Hist Auto sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EDO S AUTOMOTIVE	1807 SHOREY ST	S 0 - 1/8 (0.007 mi.)	B9	33
DAHL SAML	1775 7TH ST	S 0 - 1/8 (0.102 mi.)	J39	129

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there are 6 EDR Hist Cleaner sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MIYAKE TAKITARO	1796 7TH ST	S 0 - 1/8 (0.073 mi.)	G20	93
SUNLIGHT CLEANERS	801 WOOD ST	SE 0 - 1/8 (0.075 mi.)	H21	93
L AND E CLEANERS	1791 7TH ST	S 0 - 1/8 (0.097 mi.)	J36	128
SAPATA LEONIDES	1787 7TH ST	S 0 - 1/8 (0.098 mi.)	J37	128
RAMSAY GRANT	1777 7TH ST	S 0 - 1/8 (0.101 mi.)	J38	128
RITCHEY GUS	1753 7TH ST	S 0 - 1/8 (0.110 mi.)	J43	136

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 4 records.

Site Name	Database(s)
E 9TH ST & 29TH AVE	CA CIWQS
SOUTHERN PACIFIC TRANS CO	CA LUST, CA HIST CORTESE
5TH ST AND MAGNOLIA ST REDEVELOPME	CA Alameda County CS
UPTOWN THEATER DISTRICT	CA CPS-SLIC

OVERVIEW MAP - 5590975.2S

0 1/4 1/2 1 Miles

Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

▨ 100-year flood zone

▨ 500-year flood zone

🟩 National Wetland Inventory

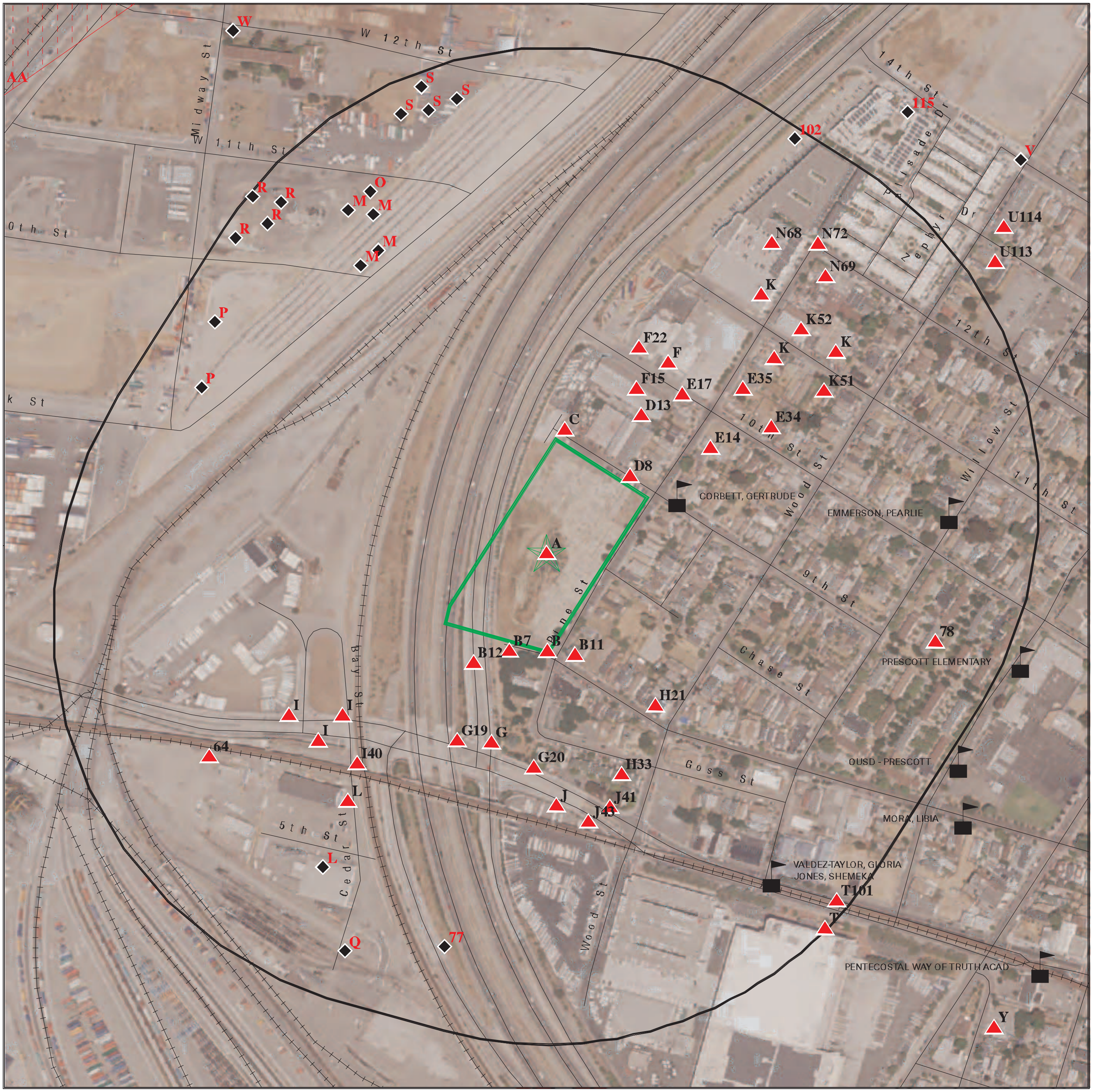
State Wetlands

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	402500 - 9th St North ,	CLIENT:	AEI Consultants
ADDRESS:	Pine St East ,shorey St South ,frontage Rd West Oakland CA 94607	CONTACT:	Marilu Galeana
		INQUIRY #:	5590975.2s
LAT/LONG:	37.809703 / 122.303368	DATE:	March 15, 2019 10:46 am

DETAIL MAP - 5590975.2S



0 1/16 1/8 1/4 Miles

∧	Target Property
▲	Sites at elevations higher than or equal to the target property
◆	Sites at elevations lower than the target property
♟	Manufactured Gas Plants
⚑	Sensitive Receptors
▨	National Priority List Sites
▨	Dept. Defense Sites
▨	Indian Reservations BIA
▨	100-year flood zone
▨	500-year flood zone
▦	Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	402500 - 9th St North ,	CLIENT:	AEI Consultants
ADDRESS:	Pine St East ,shorey St South ,frontage Rd West Oakland CA 94607	CONTACT:	Marilu Galeana
		INQUIRY #:	5590975.2s
LAT/LONG:	37.809703 / 122.303368	DATE:	March 15, 2019 10:48 am

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	1	NR	1
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	1	NR	NR	1
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		2	0	2	NR	NR	4
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		2	4	NR	NR	NR	6
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
CA RESPONSE	1.000		2	1	4	11	NR	18
State- and tribal - equivalent CERCLIS								
CA ENVIROSTOR	1.000		12	6	10	42	NR	70
State and tribal landfill and/or solid waste disposal site lists								
CA SWF/LF	0.500		2	0	0	NR	NR	2
State and tribal leaking storage tank lists								
CA LUST	0.500		6	6	12	NR	NR	24

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CA CPS-SLIC	0.500		2	3	4	NR	NR	9
CA Alameda County CS	0.500		7	6	9	NR	NR	22
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
CA UST	0.250		0	17	NR	NR	NR	17
CA AST	0.250		1	2	NR	NR	NR	3
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
CA VCP	0.500		7	4	4	NR	NR	15
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
CA BROWNFIELDS	0.500		0	0	0	NR	NR	0

ADDITIONAL ENVIRONMENTAL RECORDS

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Local Brownfield lists								
US BROWNFIELDS	0.500		2	0	2	NR	NR	4
Local Lists of Landfill / Solid Waste Disposal Sites								
CA WMUDS/SWAT	0.500		0	0	0	NR	NR	0
CA SWRCY	0.500		0	0	0	NR	NR	0
CA HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
CA HIST Cal-Sites	1.000		1	1	3	8	NR	13
CA SCH	0.250		0	0	NR	NR	NR	0
CA CDL	TP		NR	NR	NR	NR	NR	0
CA Toxic Pits	1.000		0	0	0	2	NR	2
CA CERS HAZ WASTE	0.250		2	2	NR	NR	NR	4
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA SWEEPS UST	0.250		6	5	NR	NR	NR	11
CA HIST UST	0.250		7	9	NR	NR	NR	16
CA FID UST	0.250		4	4	NR	NR	NR	8
CA CERS TANKS	0.250		2	17	NR	NR	NR	19
Local Land Records								
CA LIENS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	TP		NR	NR	NR	NR	NR	0
CA DEED	0.500		0	1	3	NR	NR	4
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CA CHMIRS	TP		NR	NR	NR	NR	NR	0
CA LDS	TP		NR	NR	NR	NR	NR	0
CA MCS	TP		NR	NR	NR	NR	NR	0
CA SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	1	NR	NR	NR	1
FUDS	1.000		0	0	0	1	NR	1
DOD	1.000		0	0	1	0	NR	1
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	1	NR	1
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	1	NR	1
CA Cortese	0.500		0	0	1	NR	NR	1
CA CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
CA EMI	TP		NR	NR	NR	NR	NR	0
CA ENF	TP		NR	NR	NR	NR	NR	0
CA Financial Assurance	TP		NR	NR	NR	NR	NR	0
CA HAZNET	TP		NR	NR	NR	NR	NR	0
CA ICE	TP		NR	NR	NR	NR	NR	0
CA HIST CORTESE	0.500		9	7	9	NR	NR	25
CA HWP	1.000		0	0	0	0	NR	0
CA HWT	0.250		0	0	NR	NR	NR	0
NY MANIFEST	0.250		0	1	NR	NR	NR	1
CA MINES	0.250		0	0	NR	NR	NR	0
CA MWMP	0.250		0	0	NR	NR	NR	0
CA NPDES	TP		NR	NR	NR	NR	NR	0
CA PEST LIC	TP		NR	NR	NR	NR	NR	0
CA PROC	0.500		1	0	0	NR	NR	1
CA Notify 65	1.000		0	0	3	5	NR	8
CA UIC	TP		NR	NR	NR	NR	NR	0
CA UIC GEO	TP		NR	NR	NR	NR	NR	0
CA WASTEWATER PITS	0.500		0	0	0	NR	NR	0
CA WDS	TP		NR	NR	NR	NR	NR	0
CA MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
CA PROJECT	TP		NR	NR	NR	NR	NR	0
CA WDR	TP		NR	NR	NR	NR	NR	0
CA CIWQS	TP		NR	NR	NR	NR	NR	0
CA CERS	TP		NR	NR	NR	NR	NR	0
CA WIP	0.250		0	0	NR	NR	NR	0
CA NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
CA OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
CA PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
CA SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
CA WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		2	NR	NR	NR	NR	2
EDR Hist Cleaner	0.125		6	NR	NR	NR	NR	6

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA RGA LF	TP		NR	NR	NR	NR	NR	0
CA RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	85	97	68	72	0	322

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

DOD **Region** **NW** **1/4-1/2** **2010 ft.**	**OAKLAND ARMY BASE (CLOSED)** **OAKLAND ARMY BASE (CLOSED (County), CA**	**DOD**	**CUSA136080** **N/A**

DOD:
Feature 1: Army DOD
Feature 2: Not reported
Feature 3: Not reported
URL: Not reported
Name 1: Oakland Army Base (Closed)
Name 2: Not reported
Name 3: Not reported
State: CA
DOD Site: Yes
Tile name: CAALAMEDA

NPL **Region** **SE** **1/2-1** **3004 ft.**	**AMCO CHEMICAL** **1414 THIRD STREET** **OAKLAND, CA 94607**	**NPL** **SEMS** **CA ENVIROSTOR** **CA HIST Cal-Sites** **CA Cortese**	**1001115054** **CA0001576081**

NPL:
EPA ID: CA0001576081
Cerclis ID: 905334
EPA Region: 9
Federal: N
Final Date: 2003-09-29 00:00:00
Site Score: 50
Latitude: 37.802500000000002
Longitude: -122.29375

Category Details:
NPL Status: Currently on the Final NPL
Category Description: Surface Water Adjacent To Site-Wetland-Unknown
Category Value: U

Site Details:
Site Name: AMCO CHEMICAL
Site Status: Final
Site Zip: 94607
Site City: OAKLAND
Site State: CA
Federal Site: No
Site County: ALAMEDA
EPA Region: 09
Date Proposed: 04/30/03
Date Deleted: Not reported
Date Finalized: 09/29/03

Substance Details:
NPL Status: Currently on the Final NPL
Substance ID: Not reported
Substance: Not reported
CAS #: Not reported
Pathway: Not reported

AMCO CHEMICAL (Continued) **1001115054**

Scoring: Not reported

NPL Status: Currently on the Final NPL
Substance ID: A054
Substance: TRICHLOROBENZENE, 1,2,4-
CAS #: 120-82-1
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: C266
Substance: ETHYL CHLORIDE
CAS #: 75-00-3
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: C324
Substance: CIS-1,2-DICHLOROETHYLENE
CAS #: 156-59-2
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: C424
Substance: TRIMETHYLBENZENE, 1,2,4-
CAS #: 95-63-6
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: C537
Substance: TRIMETHYLBENZENE, 1,3,5-
CAS #: 108-67-8
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: C616
Substance: TRICHLOROBENZENE, 1,2,3-
CAS #: 87-61-6
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U037
Substance: CHLOROBENZENE
CAS #: 108-90-7
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U043
Substance: VINYL CHLORIDE
CAS #: 75-01-4
Pathway: AIR PATHWAY
Scoring: 4

AMCO CHEMICAL (Continued) **1001115054**

NPL Status:	Currently on the Final NPL
Substance ID:	U070
Substance:	DICHLOROBENZENE, 1,2-
CAS #:	95-50-1
Pathway:	NO PATHWAY INDICATED
Scoring:	1
NPL Status:	Currently on the Final NPL
Substance ID:	U071
Substance:	DICHLOROBENZENE, 1,3-
CAS #:	541-73-1
Pathway:	NO PATHWAY INDICATED
Scoring:	1
NPL Status:	Currently on the Final NPL
Substance ID:	U072
Substance:	DICHLOROBENZENE, 1,4-
CAS #:	106-46-7
Pathway:	NO PATHWAY INDICATED
Scoring:	1
NPL Status:	Currently on the Final NPL
Substance ID:	U076
Substance:	DICHLOROETHANE, 1,1-
CAS #:	75-34-3
Pathway:	NO PATHWAY INDICATED
Scoring:	1
NPL Status:	Currently on the Final NPL
Substance ID:	U077
Substance:	DICHLOROETHANE, 1,2-
CAS #:	107-06-2
Pathway:	NO PATHWAY INDICATED
Scoring:	1
NPL Status:	Currently on the Final NPL
Substance ID:	U080
Substance:	METHYLENE CHLORIDE
CAS #:	75-09-2
Pathway:	AIR PATHWAY
Scoring:	2
NPL Status:	Currently on the Final NPL
Substance ID:	U161
Substance:	METHYL ISOBUTYL KETONE
CAS #:	108-10-1
Pathway:	NO PATHWAY INDICATED
Scoring:	1
NPL Status:	Currently on the Final NPL
Substance ID:	U165
Substance:	NAPHTHALENE
CAS #:	91-20-3
Pathway:	NO PATHWAY INDICATED
Scoring:	1
NPL Status:	Currently on the Final NPL

AMCO CHEMICAL (Continued) **1001115054**

Substance ID: U210
Substance: TETRACHLOROETHENE
CAS #: 127-18-4
Pathway: AIR PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U226
Substance: TRICHLOROETHANE, 1,1,1-
CAS #: 71-55-6
Pathway: AIR PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U228
Substance: TRICHLOROETHYLENE (TCE)
CAS #: 79-01-6
Pathway: AIR PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: Z003
Substance: BUTYLBENZENE,SEC-
CAS #: 135-98-8
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: Z009
Substance: ISOPROPYLBENZENE
CAS #: 98-82-8
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: Z010
Substance: ISOPROPYLTOLUENE,P-
CAS #: 25155-15-1
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: Z014
Substance: PROPYLBENZENE,N-
CAS #: 103-65-1
Pathway: NO PATHWAY INDICATED
Scoring: 1

Summary Details:

Conditions at Proposal April 30, 2003): The AMCO Chemical site AMCO) is part of a 0.83-acre property at 1414 Third Street in a mixed residential and light industrial area of Oakland, California. The property is bordered on the north by a vacant lot, on the west by residences, on the east by Nelson Mandela Parkway, and on the south by Third Street. A recently constructed elevated portion of the Interstate-880 I-880) freeway is located immediately across Third Street from the property.The property at 1401 Third Street) was historically occupied by Bobo s Junkyard. From the 1960s to 1989, the

AMCO CHEMICAL (Continued) **1001115054**

AMCO site was occupied by AMCO Chemical Company. AMCO operated a chemical distribution facility that included a warehouse, railroadspur, above-ground tanks, underground tanks, and drums used to transfer and store raw materials. In July 1988, the Oakland Fire Department observed leaking/rotting drums on the property. A subsequent emergency response investigation by AlamedaCounty and the U.S. Coast Guard revealed greater than 100 full and empty 5- and 55-gallon weathered drums in an open area behind AMCO Chemical s main building. Stenciled labels on the drums indicated that the contents included acetone; 1,1,1-trichloroethane 1,1,1-TCA); methyl ethyl ketone; and dry-cleaning solvent. From 1989 to November 1998, DC Metals operated a scrap metal yard on the site. Cable Moore, Inc., currently uses the site for cable storage. Structures remaining on site include an office building, warehouse, and two small storage buildings. In June 1995, a construction crew noted odors at the intersection of Third Street and Nelson Mandela Parkway, while excavating a trench needed to relocate an underground electrical line in preparation for a freeway project. Subsequent subsurface investigation by California Department of Transportation Caltrans), DC Metals, and EPA revealed the presence of volatile organic compounds VOCs) including vinyl chloride in soil, soilgas, and shallow ground water at the AMCO site, beneath Third Street, and at the 1401 Third Street property former Bobo s Junkyard). On December 5, 1996, the EPA Emergency Response Office initiated a removal action at the AMCO site that involved the construction of a ground water and soil vapor extraction SVE) treatment system. The EPA treatment system collection trench was excavated from December 5 through December 20, 1996. By December 23, 1996, the trench had been lined with a silt curtain, filled with gravel, and covered with a tarp. Cement was poured to permanently cover the trench on January 8, 1997. The treatment system operated from January 1997 through July 1998 and extracted approximately 7,000 pounds of VOCs, approximately 40 pounds of which were vinyl chloride. Operation of the system ceased in July 1998, due to community concern over the potential for a release of dioxins from the thermal oxidation unit. On December 5 and 14, 1996, during construction of the treatment system collection trench, the EPA On-Scene Coordinator observed shimmering vapors emanating from the open trench. SUMMA tm) canister sampling indicated the presence of vinyl chloride; methylene chloride; 1,1,1-trichloroethane TCA); and trichloroethene TCE) in the immediate area of the trench. In addition, one SUMMA canister sample collected from in front of a residence adjacent to the site contained TCE. The EPA conducted several sampling events on and adjacentto the AMCO site between 1997 and 2000. VOCs continued to be detected in soil, soil gas, and ground water on site. In September 1999, SUMMA canister samples were collected from the crawl spaces of three residences located adjacent to the site. Vinyl chloride was detected in the three crawl spaces at 0.02 to 0.045 parts per billion by volume ppbv). There are 626 people living within a quarter of a mile of the source. There are also approximately three workers on site. Status September 2003):EPA is considering various alternatives for this site. The description of the site release) is based on information available at the time the site was evaluated with the HRS. The description may change as additional information is gathered on the sources and extent of contamination. See 56 FR 5600, February 11, 1991, or subsequent FR notices. For more information about the ha ardous substances identified in this narrative summary, including general information regarding the effects of exposure to these substances on human health, please see the Agency for Toxic Substances and Disease Registry ATSDR) ToxFAQs. ATSDR ToxFAQs can be found on the Internet at http://www.atsdr.cdc.gov/toxfaq.html or by telephone at 1-888-42-ATSDR or 1-888-422-8737.

Site Status Details:
NPL Status: Proposed

AMCO CHEMICAL (Continued) **1001115054**

Proposed Date: 04/30/2003
Final Date: Not reported
Deleted Date: Not reported

Narratives Details:
NPL Name: AMCO CHEMICAL
City: OAKLAND
State: CA

SEMS:
Site ID: 0905334
EPA ID: CA0001576081
Cong District: 08,13
FIPS Code: 06001
Latitude: +37.802500
Longitude: -122.293750
FF: N
NPL: Currently on the Final NPL
Non NPL Status: Not reported

SEMS Detail:
Region: 09
Site ID: 0905334
EPA ID: CA0001576081
Site Name: AMCO CHEMICAL
NPL: F
FF: N
OU: 00
Action Code: AR
Action Name: ADMIN REC
SEQ: 1
Start Date: 1997-01-27 05:00:00
Finish Date: 1/27/1997 5:00:00 AM
Qual: V
Current Action Lead: EPA Perf

Region: 09
Site ID: 0905334
EPA ID: CA0001576081
Site Name: AMCO CHEMICAL
NPL: F
FF: N
OU: 01
Action Code: EE
Action Name: EE/CA
SEQ: 1
Start Date: 2014-07-17 04:00:00
Finish Date: 7/17/2015 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0905334
EPA ID: CA0001576081
Site Name: AMCO CHEMICAL
NPL: F

AMCO CHEMICAL (Continued) **1001115054**

FF: N
OU: 01
Action Code: RV
Action Name: RMVL
SEQ: 4
Start Date: 2015-08-07 04:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0905334
EPA ID: CA0001576081
Site Name: AMCO CHEMICAL
NPL: F
FF: N
OU: 00
Action Code: MA
Action Name: ST COOP
SEQ: 1
Start Date: 2010-10-07 04:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0905334
EPA ID: CA0001576081
Site Name: AMCO CHEMICAL
NPL: F
FF: N
OU: 00
Action Code: RV
Action Name: RMVL
SEQ: 3
Start Date: 2009-10-26 04:00:00
Finish Date: 11/30/2009 5:00:00 AM
Qual: C
Current Action Lead: EPA Perf

Region: 09
Site ID: 0905334
EPA ID: CA0001576081
Site Name: AMCO CHEMICAL
NPL: F
FF: N
OU: 00
Action Code: RV
Action Name: RMVL
SEQ: 2
Start Date: 2007-07-23 04:00:00
Finish Date: 9/19/2007 4:00:00 AM
Qual: C
Current Action Lead: EPA Perf

Region: 09
Site ID: 0905334

AMCO CHEMICAL (Continued) **1001115054**

EPA ID: CA0001576081
Site Name: AMCO CHEMICAL
NPL: F
FF: N
OU: 01
Action Code: CO
Action Name: RI/FS
SEQ: 1
Start Date: 2002-03-07 05:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0905334
EPA ID: CA0001576081
Site Name: AMCO CHEMICAL
NPL: F
FF: N
OU: 00
Action Code: NX
Action Name: COMB PA/SI
SEQ: 1
Start Date: 1996-10-17 04:00:00
Finish Date: 10/11/2001 4:00:00 AM
Qual: H
Current Action Lead: EPA Perf

Region: 09
Site ID: 0905334
EPA ID: CA0001576081
Site Name: AMCO CHEMICAL
NPL: F
FF: N
OU: 00
Action Code: TG
Action Name: TA GRANT
SEQ: 1
Start Date: 2004-03-31 05:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0905334
EPA ID: CA0001576081
Site Name: AMCO CHEMICAL
NPL: F
FF: N
OU: 00
Action Code: RV
Action Name: RMVL
SEQ: 1
Start Date: 1996-12-02 05:00:00
Finish Date: 7/31/1998 4:00:00 AM
Qual: C
Current Action Lead: EPA Perf

AMCO CHEMICAL (Continued) **1001115054**

Region: 09
Site ID: 0905334
EPA ID: CA0001576081
Site Name: AMCO CHEMICAL
NPL: F
FF: N
OU: 00
Action Code: CR
Action Name: CI
SEQ: 1
Start Date: 1996-12-02 05:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0905334
EPA ID: CA0001576081
Site Name: AMCO CHEMICAL
NPL: F
FF: N
OU: 00
Action Code: NP
Action Name: PROPOSED
SEQ: 1
Start Date: 2003-04-30 04:00:00
Finish Date: 4/30/2003 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0905334
EPA ID: CA0001576081
Site Name: AMCO CHEMICAL
NPL: F
FF: N
OU: 00
Action Code: NF
Action Name: NPL FINL
SEQ: 1
Start Date: 2003-09-29 04:00:00
Finish Date: 9/29/2003 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0905334
EPA ID: CA0001576081
Site Name: AMCO CHEMICAL
NPL: F
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1996-10-17 04:00:00
Finish Date: 10/17/1996 4:00:00 AM

AMCO CHEMICAL (Continued) **1001115054**

Qual: Not reported
Current Action Lead: St Perf

Region: 09
Site ID: 0905334
EPA ID: CA0001576081
Site Name: AMCO CHEMICAL
NPL: F
FF: N
OU: 01
Action Code: HA
Action Name: Health Asmt
SEQ: 1
Start Date: 2003-07-03 04:00:00
Finish Date: 9/22/2005 4:00:00 AM
Qual: Not reported
Current Action Lead: St Perf

ENVIROSTOR:
Facility ID: 1390001
Status: Active
Status Date: 05/01/2002
Site Code: 200687
Site Type: Federal Superfund
Site Type Detailed: State Response or NPL
Acres: 0.83
NPL: YES
Regulatory Agencies: SMBRP, US EPA, CITY OF OAKLAND
Lead Agency: US EPA
Program Manager: Lynn Nakashima
Supervisor: Janet Naito
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: EPA - Multi-Site Cooperative Agreement
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Joint State/Federal-Funded
Latitude: 37.80283
Longitude: -122.2948
APN: 000O039001013, 004 007301001, 004 007301002, 004 007302100, 004 007302200, 004 007302300, 004007301002
Past Use: TRANSFER STATION
Potential COC: Tetrachloroethylene (PCE TPH-diesel Trichloroethylene (TCE Vinyl chloride
Confirmed COC: Tetrachloroethylene (PCE TPH-diesel Trichloroethylene (TCE Vinyl chloride
Potential Description: OTH, SOIL, SV, IA
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported

AMCO CHEMICAL (Continued)   **1001115054**

Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Calsite:

Region:	BERKELEY
Facility ID:	01390001
Facility Type:	NPJF
Type:	NPL SITE, JOINT STATE/FEDERAL-FUNDED
Branch:	NC
Branch Name:	NORTH COAST
File Name:	DC METALS
State Senate District:	05012002
Status:	ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency:	ENVIRONMENTAL PROTECTION AGENCY
NPL:	Listed
SIC Code:	39
SIC Name:	MISCELLANEOUS MANUFACTURING INDUSTRIES
Access:	Controlled
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Confirmed
Staff Member Responsible for Site:	LNAKASHI
Supervisor Responsible for Site:	Not reported
Region Water Control Board:	SF
Region Water Control Board Name:	SAN FRANCISCO BAY
Lat/Long Direction:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Lat/Long Description:	Not reported
State Assembly District Code:	16
State Senate District Code:	09
Facility ID:	01390001
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	04261996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0

AMCO CHEMICAL (Continued) **1001115054**

Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01390001
Activity: ENFFU
Activity Name: ENFORCEMENT FOLLOW UP, AG OR DA REFERRAL, ETC.
AWP Code: SFACT
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 01171997
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Alternate Address: 1414 THIRD STREET
Alternate City,St,Zip: OAKLAND, CA 94607
Background Info: The site was occupied by AMCO Chemical Corp. until December 1989. DTSC inspected the site on August 4, 1988. An order to Fence and Post the site was issued on August 8, 1988. On February 24, 1989 a Report of Violation was issued to correct violations related to leakage of hazardous waste from piping and containers; storage of hazardous waste in deteriorated or otherwise corroded conditions; and unlabeled waste containers. Soil and groundwater located outside of the site boundary were sampled by Caltrans and Southern Pacific Railroad. Elevated levels of VOC’s (vinyl chloride,1,1-DCE,PCE,1,1,1-TCA, 1,2-DCE), acetone, toluene and xylene have been found in soil and/or groundwater.
Comments Date: 04261996
Comments: DTSC issued an I or SE Order and RAO to the previous and current
Comments Date: 04261996
Comments: owner, and operator.
Comments Date: 04302003
Comments: US EPA proposed to list site on the National Priotrities List
Comments Date: 04302003
Comments: (NPL). US EPA implemented a removal action in 1997 to address
Comments Date: 04302003
Comments: high concentrations of vinyl chloride at or near the AMCO site.

AMCO CHEMICAL (Continued) **1001115054**

Comments Date:	04302003
Comments:	A groundwater extraction and treatment system and a soil vapor
Comments Date:	04302003
Comments:	extraction system were installed to address the vinyl chloride
Comments Date:	04302003
Comments:	and other contaminants found in shallow groundwater and soils.
Comments Date:	04302003
Comments:	Operation of this system ceased in July 1998 due to community
Comments Date:	04302003
Comments:	concerns. US EPA conducted several sampling events on and
Comments Date:	04302003
Comments:	adjacent to the site between 1997 and 2002. VOCs continued to
Comments Date:	04302003
Comments:	be detected in soil, soil gas and groundwater on the site.
Comments Date:	09292003
Comments:	US EPA formally listed site on NPL. In August 2004, US EPA
Comments Date:	09292003
Comments:	approved the Remedial Investigation Sampling and Analysis Plan.
Comments Date:	09292003
Comments:	Investigation activities began in September 2004.
ID Name:	EPA IDENTIFICATION NUMBER
ID Value:	CAD009142324
ID Name:	CALSTARS CODE
ID Value:	200687
Alternate Name:	D.C. METALS, INC.
Alternate Name:	DC METALS
Alternate Name:	AMCO CHEMICAL
Alternate Name:	AMOCO CHEMICAL
Alternate Name:	Not reported
Special Programs Code:	Not reported
Special Programs Name:	Not reported

CORTESE:

Region:	CORTESE
Envirostor Id:	1390001
Site/Facility Type:	FEDERAL SUPERFUND - LISTED
Cleanup Status:	ACTIVE
Status Date:	05/01/2002
Site Code:	200687
Latitude:	37.802839
Longitude:	-122.29487
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	envirostor
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Haz Waste & Substances Sites

A1	**DEPT OF TRANSPORTATION DIST 4**	**CA ENVIROSTOR**	**S112894450**
	800 CEDAR ST	**CA VCP**	**N/A**
< 1/8	**OAKLAND, CA 94607**	**CA HAZNET**	
1 ft.			

Site 1 of 3 in cluster A

Relative:
Higher

Actual:
13 ft.

ENVIROSTOR:

Facility ID:	1330037
Status:	Inactive - Needs Evaluation
Status Date:	09/03/2010
Site Code:	200350
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	5.51
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.80970
Longitude:	-122.3033
APN:	6-47-1
Past Use:	MANUFACTURING - METAL, MANUFACTURING - OTHER
Potential COC:	TPH-diesel
Confirmed COC:	TPH-diesel
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

VCP:

Facility ID:	1330037
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	5.51

DEPT OF TRANSPORTATION DIST 4 (Continued) **S112894450**

National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 200350
Assembly: 18
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Inactive - Needs Evaluation
Status Date: 09/03/2010
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.80970 / -122.3033
APN: 6-47-1
Past Use: MANUFACTURING - METAL, MANUFACTURING - OTHER
Potential COC: 30024
Confirmed COC: 30024
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HAZNET:
Facility Name: DEPT OF TRANSPORTATION DIST 4
envid: S112894450
Year: 2000
GEPAID: CAC001479328
Contact: KATHLEEN WALDO/IT CORP
Telephone: 9169283300
Mailing Name: Not reported
Mailing Address: 111 GRAND AVE 14TH FL
Mailing City,St,Zip: OAKLAND, CA 946230000
Gen County: Not reported
TSD EPA ID: CAD008302903
TSD County: Not reported
Waste Category: Contaminated soil from site clean-up
Disposal Method: Transfer Station
Tons: 1.75

DEPT OF TRANSPORTATION DIST 4 (Continued) **S112894450**

Cat Decode: Not reported
Method Decode: Not reported
Facility County: Alameda

A2
< 1/8
1 ft.

800 CEDAR ST
800 CEDAR STREET
OAKLAND, CA 94607

US BROWNFIELDS **1024008359**
N/A

Site 2 of 3 in cluster A

Relative:
Higher

Actual:
13 ft.

US BROWNFIELDS:
Property Name: 800 CEDAR ST
Recipient Name: Oakland, City of
Grant Type: Assessment
Property Number: Not reported
Parcel size: 5
Latitude: 37.809703
Longitude: -122.30336799999998
HCM Label: Not reported
Map Scale: Not reported
Point of Reference: Not reported
Highlights: Not reported
Datum: Not reported
Acres Property ID: 127441
IC Data Access: Not reported
Start Date: Not reported
Redev Completition Date: Not reported
Completed Date: Not reported
Acres Cleaned Up: Not reported
Cleanup Funding: Not reported
Cleanup Funding Source: Not reported
Assessment Funding: 10000
Assessment Funding Source: US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment Funding: Not reported
Redev. Funding Source: Not reported
Redev. Funding Entity Name: Not reported
Redevelopment Start Date: Not reported
Assessment Funding Entity: EPA
Cleanup Funding Entity: Not reported
Grant Type: Hazardous & Petroleum
Accomplishment Type: Phase I Environmental Assessment
Accomplishment Count: 1
Cooperative Agreement Number: 00T18101
Start Date: 04/18/2011 00:00:00
Ownership Entity: Not reported
Completion Date: 07/15/2011 00:00:00
Current Owner: Not reported
Did Owner Change: Not reported
Cleanup Required: U
Video Available: Not reported
Photo Available: Not reported
Institutional Controls Required: U
IC Category Proprietary Controls: Not reported
IC Cat. Info. Devices: Not reported
IC Cat. Gov. Controls: Not reported
IC Cat. Enforcement Permit Tools: Not reported
IC in place date: Not reported
IC in place: Not reported

800 CEDAR ST (Continued) **1024008359**

State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Y
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Y
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Y
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Surface Water:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
Nickel Cleaned Up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported

800 CEDAR ST (Continued) **1024008359**

Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Y
Cadmium contaminant found:	Y
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Y
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Property Description:	Not reported
Below Poverty Number:	1590
Below Poverty Percent:	35.3%
Meidan Income:	16448
Meidan Income Number:	2463
Meidan Income Percent:	54.7%
Vacant Housing Number:	430
Vacant Housing Percent:	21.5%
Unemployed Number:	370
Unemployed Percent:	8.2%

A3
< 1/8
1 ft.

CALTRANS
800 CEDAR ST
OAKLAND, CA 94607

RCRA-SQG
FINDS
ECHO

1001111632
CAR000011692

Site 3 of 3 in cluster A

Relative:
Higher

Actual:
13 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	CALTRANS
Facility address:	800 CEDAR ST OAKLAND, CA 94607
EPA ID:	CAR000011692
Mailing address:	P O BOX 23360 OAKLAND, CA 94623-0660
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous

CALTRANS (Continued) **1001111632**

waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	CALTRANS
Owner/operator address:	P O BOX 23360 OAKLAND, CA 94623
Owner/operator country:	Not reported
Owner/operator telephone:	510-286-5651
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	State
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110002911608

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1001111632
Registry ID:	110002911608
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002911608

B4 **PEP BOYS** **CA HIST CORTESE** **S105025313**
1818 SHOREY **N/A**
< 1/8 **OAKLAND, CA 94607**
1 ft.
Site 1 of 6 in cluster B

Relative:
Higher
Actual:
14 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 3157

C5 **OCEAN CONLAINER SYSTEMS** **RCRA-SQG** **1000150327**
North **801 CEDAR ST** **FINDS** **CAD982338030**
< 1/8 **OAKLAND, CA 94607** **ECHO**
0.001 mi.
7 ft. **Site 1 of 2 in cluster C**

Relative:
Higher
Actual:
13 ft.

RCRA-SQG:
Date form received by agency: 12/08/1987
Facility name: OCEAN CONLAINER SYSTEMS
Facility address: 801 CEDAR ST
OAKLAND, CA 94607
EPA ID: CAD982338030
Contact: ENVIRONMENTAL MANAGER
Contact address: 801 CEDAR ST
OAKLAND, CA 94507
Contact country: US
Contact telephone: 415-451-6562
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: FORBES TUAN
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported

OCEAN CONLAINER SYSTEMS (Continued) **1000150327**

Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110008276365

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000150327
Registry ID: 110008276365
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110008276365

B6 **THE PHOENIX** **CA CPS-SLIC** **S122356471**
South **801 PINE STREET** **CA CERS** **N/A**
< 1/8 **OAKLAND, CA 94607**
0.002 mi.
10 ft. **Site 2 of 6 in cluster B**

Relative:
Higher

Actual:
14 ft.

CPS-SLIC:
Region: STATE
Facility Status: **Open - Site Assessment**
Status Date: 11/21/2017
Global Id: T10000011072

THE PHOENIX (Continued) **S122356471**

Lead Agency:	ALAMEDA COUNTY LOP
Lead Agency Case Number:	RO0003269
Latitude:	37.8097201588292
Longitude:	-122.303262186508
Case Type:	Cleanup Program Site
Case Worker:	DY
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Soil, Soil Vapor, Under Investigation
Potential Contaminants of Concern:	Tetrachloroethylene (PCE), Trichloroethylene (TCE), Lead
Site History:	This case applies to one address located at 800 Pine Street in Oakland (APN: 6-47-1). The Alameda County Parcel Viewer page indicates the property as 800 Cedar Street, however, Cedar Street no longer exists. Currently, the site is managed under Alameda County Department of Environmental Health (ACDEH) case RO0003269, however, a separate LOP Case No. RO0000417 was historically associated with a former UST release that was located on a portion of the parcel that is no longer a part of the existing property. This site was formerly managed as a Department of Toxic Substances Control (DTSC) case, Phoenix 800 Property, Envirostor ID 01330037. On November 21, 2017 the responsible party entered into a Voluntary Remedial Action Program Agreement with ACDEH, with concurrence from the DTSC, to provide regulatory oversight for a proposed redevelopment project. The site is currently a vacant lot with a concrete slab from a former building covering the majority of the property. The site is located in a mixed residential and commercial area boarded by Pine Street and Shorey Street to the east and south, respectively. The site is bordered to the north by 9th Street and the west by an access ramp for Interstate 880 (I-880). The site lies at an elevation of approximately 15 feet above mean sea level. Historical data indicates the groundwater has been observed at approximately 5 to 7 feet below ground surface (bgs). Historically the site has generally been occupied by industrial facilities including steel and iron fabrication, fireworks manufacturing, and auto parts manufacturing. Sanborn Fire Insurance maps indicated from approximately 1912 to 1931, Independent Iron Works operated in the southern half of the site and California Fireworks Company operated in the northwestern portion of the site. Independent Iron Works reportedly occupied the entire site from 1924 to 1960s to manufacture steel products. Between 1970 and 1994 the site was owned by Phoenix Properties, which operated Phoenix Iron Works on the western property boundary site. Based on review of historical documents, additionally industrial activities under Phoenix Properties were conducted on portions of the site including; Stoltz/Bond Metal Shop in the central portion, Pine Iron Works in the southeastern portion, and Cypress Auto Salvage Warehouse on the eastern portion. In 1994 the property was purchased by California Department of Transportation (Caltrans) which used the property for temporary storage of construction material. At the time of Caltrans acquisition, the site contained an industrial warehouse constructed on a concrete slab. In 1995 the warehouse structure, which encompassed the entire site, was removed leaving the concrete slab in place. Construction activities were also conducted in the southwestern corner of the site for the frontage road during re-alignment of I-880.

THE PHOENIX (Continued) **S122356471**

Click here to access the California GeoTracker records for this facility:

CERS TANKS:

Site ID:	428902
CERS ID:	T10000011072
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	DREW YORK - ALAMEDA COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	1131 HARBOR BAY PARKWAY
Affiliation City:	ALAMEDA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

B7
SSW
< 1/8
0.005 mi.
27 ft.

VACANT AUTO REPAIR
SHOREY STREET
OAKLAND, CA 94607

CA RESPONSE
CA ENVIROSTOR
CA CERS

S116165245
N/A

Site 3 of 6 in cluster B

Relative:
Higher

Actual:
14 ft.

RESPONSE:

Facility ID:	1750020
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	Not reported
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Denise Tsuji
Division Branch:	Cleanup Berkeley
Site Code:	200470
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	18
Senate:	09
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	02/03/1994
Restricted Use:	NO
Funding:	Responsible Party
Latitude:	37.8088
Longitude:	-122.3038
APN:	NONE SPECIFIED
Past Use:	NONE
Potential COC :	NONE SPECIFIED No Contaminants found
Confirmed COC:	NONE SPECIFIED
Potential Description:	NMA
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported

VACANT AUTO REPAIR (Continued) **S116165245**

Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 1750020
Status: No Further Action
Status Date: 02/03/1994
Site Code: 200470
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: Not reported
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Denise Tsuji
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8088
Longitude: -122.3038
APN: NONE SPECIFIED
Past Use: NONE
Potential COC: NONE SPECIFIED No Contaminants found
Confirmed COC: NONE SPECIFIED
Potential Description: NMA
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported

VACANT AUTO REPAIR (Continued) **S116165245**

Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CERS TANKS:
Site ID: 344379
CERS ID: 01750020
CERS Description: State Response

Affiliation:
Affiliation Type Desc: Supervisor
Entity Name: DENISE TSUJI
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

D8
NE
< 1/8
0.006 mi.
32 ft.

BATAVIA PROPERTY
1832 9TH STREET
OAKLAND, CA

SEMS-ARCHIVE **1003880072**
CA0002059400

Site 1 of 2 in cluster D

Relative:
Higher

Actual:
14 ft.

SEMS Archive:
Site ID: 0905364
EPA ID: CA0002059400
Cong District: Not reported
FIPS Code: 06001
FF: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information
Latitude: 37.810556
Longitude: -122.301667

SEMS Archive Detail:
Region: 09
Site ID: 0905364
EPA ID: CA0002059400
Site Name: BATAVIA PROPERTY
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1999-02-09 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 09
Site ID: 0905364
EPA ID: CA0002059400

BATAVIA PROPERTY (Continued) **1003880072**

Site Name:	BATAVIA PROPERTY
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1997-10-20 04:00:00
Finish Date:	1999-02-09 05:00:00
Qual:	N
Current Action Lead:	St Perf

Region:	09
Site ID:	0905364
EPA ID:	CA0002059400
Site Name:	BATAVIA PROPERTY
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1997-09-25 04:00:00
Finish Date:	1997-09-25 04:00:00
Qual:	Not reported
Current Action Lead:	St Perf

B9
South
< 1/8
0.007 mi.
37 ft.

EDO S AUTOMOTIVE
1807 SHOREY ST
OAKLAND, CA

Site 4 of 6 in cluster B

EDR Hist Auto **1009011132**
N/A

Relative:
Higher

Actual:
14 ft.

EDR Hist Auto

Year:	Name:	Type:
1967	EDO S AUTOMOTIVE	AUTOMOBILE REPAIRING

C10
North
< 1/8
0.009 mi.
48 ft.

BATAVIA PROPERTY
1832 9TH STREET
OAKLAND, CA 94607

Site 2 of 2 in cluster C

CA ENVIROSTOR **S102860821**
N/A

Relative:
Higher

Actual:
13 ft.

ENVIROSTOR:

Facility ID:	1990021
Status:	No Further Action
Status Date:	08/25/1998
Site Code:	201020
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	4.5
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP

BATAVIA PROPERTY (Continued) **S102860821**

Program Manager: Not reported
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: EPA - PASI
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.81055
Longitude: -122.3022
APN: NONE SPECIFIED
Past Use: OFFICE BUILDING, TRANSPORTATION - WAREHOUSING
Potential COC: NONE SPECIFIED No Contaminants found
Confirmed COC: 31000-NO
Potential Description: NMA
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

B11 **THE PHOENIX** **CA Alameda County CS** **S121308094**
SSE **800 PINE ST** **N/A**
< 1/8 **OAKLAND, CA 94607**
0.014 mi.
76 ft. **Site 5 of 6 in cluster B**

Relative:
Higher

Actual:
14 ft.

Alameda County CS:
Status: Leak Confirmation
Record Id: RO0003269
PE: 5502
Facility Status: Leak Confirmation
Latitude: Not reported
Longitude: Not reported

B12	**B & A AUTO DISMANTLERS**	**CA ENVIROSTOR**	**S102008243**
SSW	**1823 SHOREY STREET**	**CA VCP**	**N/A**
< 1/8	**OAKLAND, CA 94607**		
0.019 mi.			
98 ft.	**Site 6 of 6 in cluster B**		

Relative:
Higher

Actual:
14 ft.

ENVIROSTOR:
Facility ID: 1500106
Status: Certified
Status Date: 01/08/1997
Site Code: 200473
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 0.04
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Lynn Nakashima
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.80868
Longitude: -122.3042
APN: 6-45-3
Past Use: JUNKYARD
Potential COC: * CONTAMINATED SOIL Lead TPH-MOTOR OIL
Confirmed COC: Lead * CONTAMINATED SOIL TPH-MOTOR OIL
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Facility ID: 1500106
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 0.04

B & A AUTO DISMANTLERS (Continued) **S102008243**

National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Lynn Nakashima
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Site Code:	200473
Assembly:	18
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified
Status Date:	01/08/1997
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.80868 / -122.3042
APN:	6-45-3
Past Use:	JUNKYARD
Potential COC:	10097, 30013, 3002502
Confirmed COC:	30013,10097,3002502
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

D13
NE
< 1/8
0.043 mi.
225 ft.

PHOENIX IRON WKS
888 CEDAR ST
OAKLAND, CA 94607

Site 2 of 2 in cluster D

CA HIST UST **U001599209** **N/A**

Relative:
Higher

Actual:
13 ft.

HIST UST:

File Number:	00036241
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00036241.pdf
Region:	STATE
Facility ID:	00000059789
Facility Type:	Other
Other Type:	FOUNDRY
Contact Name:	W. RUSSELL
Telephone:	4154659900
Owner Name:	PHOENIX PROPERTIES
Owner Address:	888 CEDAR ST.

PHOENIX IRON WKS (Continued) **U001599209**

Owner City,St,Zip:	OAKLAND, CA 94607
Total Tanks:	0002

Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None

Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

E14 **RADOMSKY PROPERTY** **CA ENVIROSTOR** **S118756499**
ENE **930 PINE STREET** **N/A**
< 1/8 **OAKLAND, CA 94607**
0.052 mi.
273 ft. **Site 1 of 4 in cluster E**

Relative:
Higher

Actual:
14 ft.

ENVIROSTOR:

Facility ID:	1880001
Status:	No Action Required
Status Date:	07/16/2009
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0.5
NPL:	NO
Regulatory Agencies:	US EPA
Lead Agency:	US EPA
Program Manager:	Not reported
Supervisor:	Denise Tsuji
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	37.81064
Longitude:	-122.3014
APN:	6-33-2
Past Use:	UNKNOWN
Potential COC:	Under Investigation
Confirmed COC:	NONE SPECIFIED
Potential Description:	UE
Alias Name:	Not reported
Alias Type:	Not reported

RADOMSKY PROPERTY (Continued) **S118756499**

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

F15
NNE
< 1/8
0.055 mi.
292 ft.

CALIFORNIA WASTE SOLUTIONS 1819
1819 10TH ST
OAKLAND, CA 94607

CA CERS HAZ WASTE
CA CERS TANKS
CA CERS

S121747269
N/A

Site 1 of 9 in cluster F

Relative:
Higher

Actual:
13 ft.

CERS HAZ WASTE:

Site ID:	15535
CERS ID:	10501912
CERS Description:	Hazardous Waste Generator

Violations:

Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	02-28-2017
Citation:	22 CCR 15 66265.192(a) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.192(a)
Violation Description:	Failure to obtain and maintain a written assessment reviewed and certified by an independent, qualified, professional engineer prior to placing the tank system in service. The written assessment shall state that, the new hazardous waste tank system has sufficient structural integrity, is acceptable for the transferring, storing and treating of hazardous waste, and that the tanks and containment system including the foundation, structural support, seams, connections, and pressure controls (if applicable) are suitably designed to meet the regulation.
Violation Notes:	Returned to compliance on 09/18/2017. "OBSERVATION: Owner/Operator does not have a tank assessment for the 500 gallon convault used oil, 120 gallon public used oil tank, and 300 gallon public used oil tanks. The owner or operator of a hazardous waste tank shall obtain a written assessment reviewed and certified by an independent, qualified, professional engineer, registered in California attesting that the system has sufficient structural integrity, is acceptable for the transferring, storing, and treating of hazardous waste, and that the tanks and containment system are suitably designed. " "CORRECTIVE ACTION: Immediately have an assessment prepared for the the 500 gallon convault used oil, 120 gallon public used oil tank, and 300 gallon public used oil tanks. Submit a schedule showing when this will be accomplished to the CUPA 30 days from now.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to adequately and accurately describe in the SPCC Plan the physical layout of the facility.
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS

Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to state reasons for nonconformance and describe equivalent methods in detail if claiming equivalent environmental protection for SPCC requirements other than secondary containment.
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS

Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	02-28-2017
Citation:	22 CCR 15 66265.194 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.194
Violation Description:	Failure of the operator for placing wastes or treatment reagents in a tank system that could cause the tank , its ancillary equipment, or the secondary containment system to rupture, leak, corrode, or otherwise fail; and for not using appropriate controls and practices to prevent spills and overflows from tank or secondary containment systems. (Uncovered tanks shall be operated to ensure at least 60 centimeters (2 feet) of freeboard, unless the tank is equipped with a containment structure).
Violation Notes:	Returned to compliance on 09/27/2017. "OBSERVATION: The aboveground 500 gallon convault used oil tank does not have a working overfill gage or alarm. All waste tanks should be constructed to prevent overfilling of the tank. CORRECTIVE ACTION: Install a compatible device to prevent overfilling the tank.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	04-17-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 08/18/2017.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	12-06-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 08/18/2017.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to maintain a complete copy of the SPCC Plan at the facility if the facility is normally attended at least four hours per day, or at the nearest field office if the facility is not so attended.
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to prepare and implement a Spill Prevention Control and Countermeasure (SPCC) Plan.
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

	blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	"Failure to prepare an SPCC Plan which fulfills all basic requirements that include: 1. The SPCC Plan must be prepared in accordance with good engineering practices. 2. Have full approval of management at a level of authority to commit the necessary resources to fully implement the SPCC Plan. 3. Prepare the SPCC Plan in writing. 4. Follow the sequence of the SPCC rule or include a cross-reference. 5. If the SPCC Plan calls for additional procedures, methods, or equipment not yet fully operational, discuss the items in separate paragraphs."
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	02-28-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 08/25/2017. OBSERVATION: The facility has not submitted the Hazardous Materials Inventory Chemical Description page for 920 gallons of used oil, 120 gallons of ATF, 120 gallons of Hydraulic fluid, 90 gallons of glass cleaner, >1000 cubic feet of Oxygen, and >1000 cubic feet of propane to the CUPA. Motor oils shall be reported separately according to the type and grade of oil. CORRECTIVE ACTION: Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed above electronically in the California Environmental Reporting System (CERS).
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to adequately discuss in the SPCC Plan all applicable bulk storage containers, or no discussion regarding all applicable bulk storage containers included.
Violation Notes: Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: APSA Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to designate person who reports to management as accountable for discharge prevention at facility.
Violation Notes: Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 02-28-2017
Citation: 22 CCR 15 66265.192(k) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.192(k)
Violation Description: Failure to include all required information in the tank system assessment.
Violation Notes: Returned to compliance on 09/18/2017. "OBSERVATION: Owner/Operator

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

does not have a tank assessment for the 500 gallon convault used oil, 120 gallon public used oil tank, and 300 gallon public used oil tanks. The owner or operator of a hazardous waste tank shall obtain a written assessment reviewed and certified by an independent, qualified, professional engineer, registered in California attesting that the system has sufficient structural integrity, is acceptable for the transferring, storing, and treating of hazardous waste, and that the tanks and containment system are suitably designed. " "CORRECTIVE ACTION: Immediately have an assessment prepared for the the 500 gallon convault used oil, 120 gallon public used oil tank, and 300 gallon public used oil tanks. Submit a schedule showing when this will be accomplished to the CUPA 30 days from now.

Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to adequately discuss in the SPCC Plan facility drainage or drainage controls such as secondary containment around containers and other structures, equipment, and procedures for the control of a discharge.
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.11 25404.1 - California Health and Safety Code, Chapter 6.11, Section(s) 25404.1
Violation Description:	Failure to maintain a valid permit.
Violation Notes:	Returned to compliance on 05/30/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. No valid permit. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	02-28-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 05/08/2017. OBSERVATION: An Emergency Response Plan is missing he local CUPA contact information (Alameda County Env. Health 510-567-6700) CORRECTIVE ACTION: Complete the emergency response plan to include required content and submit electronically in the California Environmental Reporting System (CERS).
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to address in the SPCC Plan discharge prevention measures, including procedures for routine handling of products such as loading/unloading and facility transfers.
Violation Notes: Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to provide the following training to all oil-handling personnel: 1. Operation and maintenance of equipment to prevent discharges. 2. Discharge procedure protocols. 3. Applicable pollution control laws, rules, and regulations. 4. General facility operations. 5. Contents of the SPCC Plan.
Violation Notes: Returned to compliance on 09/28/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67,

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

	Section(s) Multiple
Violation Description:	APSA Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 05/19/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to describe in the SPCC plan facility security measures including: 1. How access to the oil handling, processing, and storage areas is secured and controlled. 2. How master flow and drain valves are secured. 3. How unauthorized access to starter controls on oil pumps is prevented. 4. How out-of-service and loading/unloading connections of oil pipelines is secured. 5. The appropriateness of security lighting to both prevent acts of vandalism and assist in the discovery of oil discharges.
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to include in the SPCC plan and document discharge prevention briefings for oil-handling personnel at least once a year, including, but not limited to, known discharges, failures, and malfunctioning components.
Violation Notes:	Returned to compliance on 09/28/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15535

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to discuss in the SPCC Plan conformance with SPCC requirements and other effective discharge prevention and containment procedures, or any applicable more stringent State rules, regulations, and guidelines.
Violation Notes:	Returned to compliance on 09/21/2017.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS

Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to discuss in the SPCC Plan the appropriate containment, diversionary structures, or equipment to prevent a discharge, including typical failure mode and most likely quantity of discharge for the following: bulk storage containers, mobile/portable containers, oil-filled equipment, piping and related appurtenances, mobile refuels or non-transportation-related tank cars, and transfer areas, equipment and activities.
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS

Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	APSA Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS

Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	02-28-2017
Citation:	22 CCR 15 66265.195(c) - California Code of Regulations, Title 22,

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

	Chapter 15, Section(s) 66265.195(c)
Violation Description:	Failure to conduct and document inspections of hazardous waste tank systems each operating day and retain records of those inspections at the facility.
Violation Notes:	Returned to compliance on 09/18/2017. OBSERVATION: The Generator failed to conduct daily tank inspection of the discharge systems, monitoring equipment, and tank levels. No log was present for the daily tank inspections for the waste tanks. CORRECTIVE ACTION: Immediately begin to conduct daily inspections of the discharge systems, monitoring equipment, and tank levels for all tanks containing hazardous waste. Submit verification of these inspections to the CUPA within 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	02-28-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 08/18/2017. OBSERVATION: The facility has not submitted the Hazardous Materials Inventory Chemical Description page for 920 gallons of used oil, 120 gallons of ATF, 120 gallons of Hydraulic fluid, 90 gallons of glass cleaner, >1000 cubic feet of Oxygen, and >1000 cubic feet of propane to the CUPA. Motor oils shall be reported separately according to the type and grade of oil. CORRECTIVE ACTION: Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed above electronically in the California Environmental Reporting System (CERS).
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	09-26-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 08/18/2017.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.6(b) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.6(b)
Violation Description:	Failure to pay the APSA Program fee.

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Violation Notes: Returned to compliance on 05/30/2017.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to comply with one or more of the following requirements: 1. Have record of inspections and integrity tests signed by the appropriate supervisor or inspector. 2. Keep written procedures and records of inspections and integrity tests for at least three years. 3. Keep comparison records.
Violation Notes: Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to include in the SPCC Plan: 1. A contact list and phone numbers for the facility response coordinator, National Response Center, cleanup contractors with an agreement for response, and all Federal, State, and local agencies who must be contacted in case of a discharge 2. Information and procedures that would enable a person reporting an oil discharge to relate all information as described in 40 CFR 112.7(a)(4), unless facility submitted a Facility Response Plan.
Violation Notes: Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 02-28-2017
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler’s operations that requires modification to any portion of the business plan.

Violation Notes: Returned to compliance on 05/19/2017. OBSERVATION: The facility has not submitted the Hazardous Materials Inventory Chemical Description page for 920 gallons of used oil, 120 gallons of ATF, 120 gallons of Hydraulic fluid, 90 gallons of glass cleaner, >1000 cubic feet of Oxygen, and >1000 cubic feet of propane to the CUPA. Motor oils shall be reported separately according to the type and grade of oil. CORRECTIVE ACTION: Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed above electronically in the California Environmental Reporting System (CERS).
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to organize the SPCC Plan so that portions describing procedures to be used when a discharge occurs will be readily usable in an emergency, unless facility submitted a Facility Response Plan.
Violation Notes: Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-28-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Onsite to conduct the Hazardous Materials Business Plan Inspection at California Waste Solutions 1819 - 1819 10th Street. Oakland, CA. Met with Site Operations Supervisor, Douglas Duong, Glen Hulsenberg, Jean Paul Cosentino. Facility is a Recycling Collection facility that accepts recycling through municipal recycling under residential and commercial. Most recent HMBP submittal was on 10/24/2016.
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-17-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency

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Eval Notes: HMBP NOV FOR INCOMPLETE SUBMITTAL/ADD VIOLATION
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-28-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Onsite to conduct the Aboveground Petroleum Storage Act Inspection at California Waste Solutions 1819 - 1819 10th Street. Oakland, CA. Met with Site Operations Supervisor, Douglas Duong, Glen Hulsenberg, Jean Paul Cosentino. Facility is a Recycling Collection facility that accepts recycling through municipal recycling under residential and commercial. Facility stores more than 1320 gallons of petroleum based materials.
Eval Division: Alameda County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-28-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Onsite to conduct the Hazardous Waste Generator Inspection at California Waste Solutions 1819 - 1819 10th Street. Oakland, CA. Met with Site Operations Supervisor, Douglas Duong, Glen Hulsenberg, Jean Paul Cosentino. Facility is a Recycling Collection facility that accepts recycling through municipal recycling under residential and commercial. Generator accepts used oil from the public through their recycling collection. Generator has 120 gallon and 300 gallon used oil tanks that are specifically for public oil, whereas there is a 500 gallon convault AST for their maintenance shop used oil. They are separated on a bill of lading by Safety Klean. After reviewing the used oil bill of ladings, the generator meets the Large Quantity status for both the public oil and their own maintenance oil separately. Generator does NOT have a Title 22 Hazardous Waste Tank Assessment for their aboveground used oil tanks.
Eval Division: Alameda County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-26-2016
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBP NOV LETTER
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-06-2016
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBP NOV LETTER/TRACKING VIOLATION
Eval Division: Alameda County Environmental Health

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 15535
Site Name: California Waste Solutions 1819
Site Address: 1819 10TH ST
Site City: OAKLAND
Site Zip: 94607
Enf Action Date: 09-08-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Alameda County Environmental Health
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Site Address: 1819 10TH ST
Site City: OAKLAND
Site Zip: 94607
Enf Action Date: 09-08-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Alameda County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Site Address: 1819 10TH ST
Site City: OAKLAND
Site Zip: 94607
Enf Action Date: 09-27-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Alameda County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Site Address: 1819 10TH ST
Site City: OAKLAND
Site Zip: 94607
Enf Action Date: 12-06-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Alameda County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Coordinates:

Site ID:	15535
Facility Name:	California Waste Solutions 1819
Env Int Type Code:	HWG
Program ID:	10501912
Coord Name:	Not reported
Ref Point Type Desc:	Unknown
Latitude:	37.810982
Longitude:	-122.302513

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Ken Mitchell
Entity Title:	Not reported
Affiliation Address:	1820 10th St.
Affiliation City:	Oakland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94607
Affiliation Phone:	(510) 600-1083
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1005 Timothy Drive
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95133
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Ken Mitchell
Entity Title:	Environmental Health and Safety Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	California Waste Solutions
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Alameda County Env Health
Entity Title:	Not reported
Affiliation Address:	1131 Harbor Parkway, Suite 240
Affiliation City:	Alameda

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94502-6577
Affiliation Phone:	(510) 567-6700
Affiliation Type Desc:	Document Preparer
Entity Name:	Ken Mitchell
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	California Waste Solutions
Entity Title:	Not reported
Affiliation Address:	1005 Timothy Dr.
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95133
Affiliation Phone:	(510) 268-9866
Affiliation Type Desc:	Operator
Entity Name:	Glen Hulsenberg
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(408) 393-6032

CERS TANKS:

Site ID:	15535
CERS ID:	10501912
CERS Description:	Aboveground Petroleum Storage

Violations:

Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	02-28-2017
Citation:	22 CCR 15 66265.192(a) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.192(a)
Violation Description:	Failure to obtain and maintain a written assessment reviewed and certified by an independent, qualified, professional engineer prior to placing the tank system in service. The written assessment shall state that, the new hazardous waste tank system has sufficient structural integrity, is acceptable for the transferring, storing and treating of hazardous waste, and that the tanks and containment system including the foundation, structural support, seams, connections, and pressure controls (if applicable) are suitably designed to meet the regulation.
Violation Notes:	Returned to compliance on 09/18/2017. "OBSERVATION: Owner/Operator does not have a tank assessment for the 500 gallon convault used oil,

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

120 gallon public used oil tank, and 300 gallon public used oil tanks. The owner or operator of a hazardous waste tank shall obtain a written assessment reviewed and certified by an independent, qualified, professional engineer, registered in California attesting that the system has sufficient structural integrity, is acceptable for the transferring, storing, and treating of hazardous waste, and that the tanks and containment system are suitably designed. " "CORRECTIVE ACTION: Immediately have an assessment prepared for the the 500 gallon convault used oil, 120 gallon public used oil tank, and 300 gallon public used oil tanks. Submit a schedule showing when this will be accomplished to the CUPA 30 days from now.

Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to adequately and accurately describe in the SPCC Plan the physical layout of the facility.
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to state reasons for nonconformance and describe equivalent methods in detail if claiming equivalent environmental protection for SPCC requirements other than secondary containment.
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	02-28-2017
Citation:	22 CCR 15 66265.194 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.194

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Violation Description: Failure of the operator for placing wastes or treatment reagents in a tank system that could cause the tank , its ancillary equipment, or the secondary containment system to rupture, leak, corrode, or otherwise fail; and for not using appropriate controls and practices to prevent spills and overflows from tank or secondary containment systems. (Uncovered tanks shall be operated to ensure at least 60 centimeters (2 feet) of freeboard, unless the tank is equipped with a containment structure).
Violation Notes: Returned to compliance on 09/27/2017. "OBSERVATION: The aboveground 500 gallon convault used oil tank does not have a working overfill gage or alarm. All waste tanks should be constructed to prevent overfilling of the tank. CORRECTIVE ACTION: Install a compatible device to prevent overfilling the tank.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 04-17-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 08/18/2017.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 12-06-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 08/18/2017.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to maintain a complete copy of the SPCC Plan at the facility if the facility is normally attended at least four hours per day, or at the nearest field office if the facility is not so attended.
Violation Notes: Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to prepare and implement a Spill Prevention Control and Countermeasure (SPCC) Plan.
Violation Notes: Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: "Failure to prepare an SPCC Plan which fulfills all basic requirements that include: 1. The SPCC Plan must be prepared in accordance with good engineering practices. 2. Have full approval of management at a level of authority to commit the necessary resources to fully implement the SPCC Plan. 3. Prepare the SPCC Plan in writing. 4. Follow the sequence of the SPCC rule or include a cross-reference. 5. If the SPCC Plan calls for additional procedures, methods, or equipment not yet fully operational, discuss the items in separate paragraphs."
Violation Notes: Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 02-28-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 08/25/2017. OBSERVATION: The facility has not submitted the Hazardous Materials Inventory Chemical Description page for 920 gallons of used oil, 120 gallons of ATF, 120 gallons of

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Hydraulic fluid, 90 gallons of glass cleaner, >1000 cubic feet of Oxygen, and >1000 cubic feet of propane to the CUPA. Motor oils shall be reported separately according to the type and grade of oil. CORRECTIVE ACTION: Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed above electronically in the California Environmental Reporting System (CERS).
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to adequately discuss in the SPCC Plan all applicable bulk storage containers, or no discussion regarding all applicable bulk storage containers included.
Violation Notes: Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: APSA Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to designate person who reports to management as accountable for discharge prevention at facility.
Violation Notes: Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and

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	implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	02-28-2017
Citation:	22 CCR 15 66265.192(k) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.192(k)
Violation Description:	Failure to include all required information in the tank system assessment.
Violation Notes:	Returned to compliance on 09/18/2017. "OBSERVATION: Owner/Operator does not have a tank assessment for the 500 gallon convault used oil, 120 gallon public used oil tank, and 300 gallon public used oil tanks. The owner or operator of a hazardous waste tank shall obtain a written assessment reviewed and certified by an independent, qualified, professional engineer, registered in California attesting that the system has sufficient structural integrity, is acceptable for the transferring, storing, and treating of hazardous waste, and that the tanks and containment system are suitably designed. " "CORRECTIVE ACTION: Immediately have an assessment prepared for the the 500 gallon convault used oil, 120 gallon public used oil tank, and 300 gallon public used oil tanks. Submit a schedule showing when this will be accomplished to the CUPA 30 days from now.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to adequately discuss in the SPCC Plan facility drainage or drainage controls such as secondary containment around containers and other structures, equipment, and procedures for the control of a discharge.
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.11 25404.1 - California Health and Safety Code, Chapter 6.11, Section(s) 25404.1
Violation Description:	Failure to maintain a valid permit.

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Violation Notes:	Returned to compliance on 05/30/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. No valid permit. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	02-28-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 05/08/2017. OBSERVATION: An Emergency Response Plan is missing he local CUPA contact information (Alameda County Env. Health 510-567-6700) CORRECTIVE ACTION: Complete the emergency response plan to include required content and submit electronically in the California Environmental Reporting System (CERS).
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to address in the SPCC Plan discharge prevention measures, including procedures for routine handling of products such as loading/unloading and facility transfers.
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to provide the following training to all oil-handling personnel: 1. Operation and maintenance of equipment to prevent discharges. 2. Discharge procedure protocols. 3. Applicable pollution control laws, rules, and regulations. 4. General facility operations. 5. Contents of the SPCC Plan.

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Violation Notes: Returned to compliance on 09/28/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: APSA Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 05/19/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to describe in the SPCC plan facility security measures including: 1. How access to the oil handling, processing, and storage areas is secured and controlled. 2. How master flow and drain valves are secured. 3. How unauthorized access to starter controls on oil pumps is prevented. 4. How out-of-service and loading/unloading connections of oil pipelines is secured. 5. The appropriateness of security lighting to both prevent acts of vandalism and assist in the discovery of oil discharges.
Violation Notes: Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to include in the SPCC plan and document discharge prevention

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

	briefings for oil-handling personnel at least once a year, including, but not limited to, known discharges, failures, and malfunctioning components.
Violation Notes:	Returned to compliance on 09/28/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to discuss in the SPCC Plan conformance with SPCC requirements and other effective discharge prevention and containment procedures, or any applicable more stringent State rules, regulations, and guidelines.
Violation Notes:	Returned to compliance on 09/21/2017.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to discuss in the SPCC Plan the appropriate containment, diversionary structures, or equipment to prevent a discharge, including typical failure mode and most likely quantity of discharge for the following: bulk storage containers, mobile/portable containers, oil-filled equipment, piping and related appurtenances, mobile refuels or non-transportation-related tank cars, and transfer areas, equipment and activities.
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	APSA Program - Administration/Documentation - General

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Violation Notes: Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 02-28-2017
Citation: 22 CCR 15 66265.195(c) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.195(c)
Violation Description: Failure to conduct and document inspections of hazardous waste tank systems each operating day and retain records of those inspections at the facility.
Violation Notes: Returned to compliance on 09/18/2017. OBSERVATION: The Generator failed to conduct daily tank inspection of the discharge systems, monitoring equipment, and tank levels. No log was present for the daily tank inspections for the waste tanks. CORRECTIVE ACTION: Immediately begin to conduct daily inspections of the discharge systems, monitoring equipment, and tank levels for all tanks containing hazardous waste. Submit verification of these inspections to the CUPA within 30 days.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 02-28-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 08/18/2017. OBSERVATION: The facility has not submitted the Hazardous Materials Inventory Chemical Description page for 920 gallons of used oil, 120 gallons of ATF, 120 gallons of Hydraulic fluid, 90 gallons of glass cleaner, >1000 cubic feet of Oxygen, and >1000 cubic feet of propane to the CUPA. Motor oils shall be reported separately according to the type and grade of oil. CORRECTIVE ACTION: Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed above electronically in the California Environmental Reporting System (CERS).
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 09-26-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

	6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 08/18/2017.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.6(b) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.6(b)
Violation Description:	Failure to pay the APSA Program fee.
Violation Notes:	Returned to compliance on 05/30/2017.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS

Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to comply with one or more of the following requirements: 1. Have record of inspections and integrity tests signed by the appropriate supervisor or inspector. 2. Keep written procedures and records of inspections and integrity tests for at least three years. 3. Keep comparison records.
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS

Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to include in the SPCC Plan: 1. A contact list and phone numbers for the facility response coordinator, National Response Center, cleanup contractors with an agreement for response, and all Federal, State, and local agencies who must be contacted in case of a discharge 2. Information and procedures that would enable a person reporting an oil discharge to relate all information as described in 40 CFR 112.7(a)(4), unless facility submitted a Facility Response Plan.
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan.

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 02-28-2017
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler’s operations that requires modification to any portion of the business plan.
Violation Notes: Returned to compliance on 05/19/2017. OBSERVATION: The facility has not submitted the Hazardous Materials Inventory Chemical Description page for 920 gallons of used oil, 120 gallons of ATF, 120 gallons of Hydraulic fluid, 90 gallons of glass cleaner, >1000 cubic feet of Oxygen, and >1000 cubic feet of propane to the CUPA. Motor oils shall be reported separately according to the type and grade of oil. CORRECTIVE ACTION: Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed above electronically in the California Environmental Reporting System (CERS).
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to organize the SPCC Plan so that portions describing procedures to be used when a discharge occurs will be readily usable in an emergency, unless facility submitted a Facility Response Plan.
Violation Notes: Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-28-2017
Violations Found: Yes

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct the Hazardous Materials Business Plan Inspection at California Waste Solutions 1819 - 1819 10th Street. Oakland, CA. Met with Site Operations Supervisor, Douglas Duong, Glen Hulsenberg, Jean Paul Cosentino. Facility is a Recycling Collection facility that accepts recycling through municipal recycling under residential and commercial. Most recent HMBP submittal was on 10/24/2016.
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-17-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBP NOV FOR INCOMPLETE SUBMITTAL/ADD VIOLATION
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-28-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct the Aboveground Petroleum Storage Act Inspection at California Waste Solutions 1819 - 1819 10th Street. Oakland, CA. Met with Site Operations Supervisor, Douglas Duong, Glen Hulsenberg, Jean Paul Cosentino. Facility is a Recycling Collection facility that accepts recycling through municipal recycling under residential and commercial. Facility stores more than 1320 gallons of petroleum based materials.
Eval Division:	Alameda County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-28-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct the Hazardous Waste Generator Inspection at California Waste Solutions 1819 - 1819 10th Street. Oakland, CA. Met with Site Operations Supervisor, Douglas Duong, Glen Hulsenberg, Jean Paul Cosentino. Facility is a Recycling Collection facility that accepts recycling through municipal recycling under residential and commercial. Generator accepts used oil from the public through their recycling collection. Generator has 120 gallon and 300 gallon used oil tanks that are specifically for public oil, whereas there is a 500 gallon convault AST for their maintenance shop used oil. They are separated on a bill of lading by Safety Klean. After reviewing the used oil bill of ladings, the generator meets the Large Quantity status for both the public oil and their own maintenance oil separately. Generator does NOT have a Title 22 Hazardous Waste Tank Assessment for their aboveground used oil tanks.
Eval Division:	Alameda County Environmental Health
Eval Program:	HW
Eval Source:	CERS

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Eval General Type: Other/Unknown
Eval Date: 09-26-2016
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBP NOV LETTER
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-06-2016
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBP NOV LETTER/TRACKING VIOLATION
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 15535
Site Name: California Waste Solutions 1819
Site Address: 1819 10TH ST
Site City: OAKLAND
Site Zip: 94607
Enf Action Date: 09-08-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Alameda County Environmental Health
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Site Address: 1819 10TH ST
Site City: OAKLAND
Site Zip: 94607
Enf Action Date: 09-08-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Alameda County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Site Address: 1819 10TH ST
Site City: OAKLAND
Site Zip: 94607
Enf Action Date: 09-27-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Alameda County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Site ID: 15535
Site Name: California Waste Solutions 1819
Site Address: 1819 10TH ST
Site City: OAKLAND
Site Zip: 94607
Enf Action Date: 12-06-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Alameda County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:
Site ID: 15535
Facility Name: California Waste Solutions 1819
Env Int Type Code: HWG
Program ID: 10501912
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.810982
Longitude: -122.302513

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Ken Mitchell
Entity Title: Not reported
Affiliation Address: 1820 10th St.
Affiliation City: Oakland
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94607
Affiliation Phone: (510) 600-1083

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1005 Timothy Drive
Affiliation City: San Jose
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95133
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Ken Mitchell
Entity Title: Environmental Health and Safety Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: California Waste Solutions

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Alameda County Env Health
Entity Title:	Not reported
Affiliation Address:	1131 Harbor Parkway, Suite 240
Affiliation City:	Alameda
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94502-6577
Affiliation Phone:	(510) 567-6700
Affiliation Type Desc:	Document Preparer
Entity Name:	Ken Mitchell
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	California Waste Solutions
Entity Title:	Not reported
Affiliation Address:	1005 Timothy Dr.
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95133
Affiliation Phone:	(510) 268-9866
Affiliation Type Desc:	Operator
Entity Name:	Glen Hulsenberg
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(408) 393-6032

CERS TANKS:

Site ID:	15535
CERS ID:	10501912
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	15535
Site Name:	California Waste Solutions 1819

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Violation Date:	02-28-2017
Citation:	22 CCR 15 66265.192(a) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.192(a)
Violation Description:	Failure to obtain and maintain a written assessment reviewed and certified by an independent, qualified, professional engineer prior to placing the tank system in service. The written assessment shall state that, the new hazardous waste tank system has sufficient structural integrity, is acceptable for the transferring, storing and treating of hazardous waste, and that the tanks and containment system including the foundation, structural support, seams, connections, and pressure controls (if applicable) are suitably designed to meet the regulation.
Violation Notes:	Returned to compliance on 09/18/2017. "OBSERVATION: Owner/Operator does not have a tank assessment for the 500 gallon convault used oil, 120 gallon public used oil tank, and 300 gallon public used oil tanks. The owner or operator of a hazardous waste tank shall obtain a written assessment reviewed and certified by an independent, qualified, professional engineer, registered in California attesting that the system has sufficient structural integrity, is acceptable for the transferring, storing, and treating of hazardous waste, and that the tanks and containment system are suitably designed. " "CORRECTIVE ACTION: Immediately have an assessment prepared for the the 500 gallon convault used oil, 120 gallon public used oil tank, and 300 gallon public used oil tanks. Submit a schedule showing when this will be accomplished to the CUPA 30 days from now.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to adequately and accurately describe in the SPCC Plan the physical layout of the facility.
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to state reasons for nonconformance and describe equivalent methods in detail if claiming equivalent environmental protection for SPCC requirements other than secondary containment.
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan.

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.

Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 02-28-2017
Citation: 22 CCR 15 66265.194 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.194
Violation Description: Failure of the operator for placing wastes or treatment reagents in a tank system that could cause the tank , its ancillary equipment, or the secondary containment system to rupture, leak, corrode, or otherwise fail; and for not using appropriate controls and practices to prevent spills and overflows from tank or secondary containment systems. (Uncovered tanks shall be operated to ensure at least 60 centimeters (2 feet) of freeboard, unless the tank is equipped with a containment structure).
Violation Notes: Returned to compliance on 09/27/2017. "OBSERVATION: The aboveground 500 gallon convault used oil tank does not have a working overfill gage or alarm. All waste tanks should be constructed to prevent overfilling of the tank. CORRECTIVE ACTION: Install a compatible device to prevent overfilling the tank.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 04-17-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 08/18/2017.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 12-06-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 08/18/2017.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 15535

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to maintain a complete copy of the SPCC Plan at the facility if the facility is normally attended at least four hours per day, or at the nearest field office if the facility is not so attended.
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS

Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to prepare and implement a Spill Prevention Control and Countermeasure (SPCC) Plan.
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS

Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	"Failure to prepare an SPCC Plan which fulfills all basic requirements that include: 1. The SPCC Plan must be prepared in accordance with good engineering practices. 2. Have full approval of management at a level of authority to commit the necessary resources to fully implement the SPCC Plan. 3. Prepare the SPCC Plan in writing. 4. Follow the sequence of the SPCC rule or include a cross-reference. 5. If the SPCC Plan calls for additional procedures, methods, or equipment not yet fully operational, discuss the items in separate paragraphs."
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	02-28-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 08/25/2017. OBSERVATION: The facility has not submitted the Hazardous Materials Inventory Chemical Description page for 920 gallons of used oil, 120 gallons of ATF, 120 gallons of Hydraulic fluid, 90 gallons of glass cleaner, >1000 cubic feet of Oxygen, and >1000 cubic feet of propane to the CUPA. Motor oils shall be reported separately according to the type and grade of oil. CORRECTIVE ACTION: Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed above electronically in the California Environmental Reporting System (CERS).
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to adequately discuss in the SPCC Plan all applicable bulk storage containers, or no discussion regarding all applicable bulk storage containers included.
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	APSA Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to designate person who reports to management as accountable for discharge prevention at facility.
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	02-28-2017
Citation:	22 CCR 15 66265.192(k) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.192(k)
Violation Description:	Failure to include all required information in the tank system assessment.
Violation Notes:	Returned to compliance on 09/18/2017. "OBSERVATION: Owner/Operator does not have a tank assessment for the 500 gallon convault used oil, 120 gallon public used oil tank, and 300 gallon public used oil tanks. The owner or operator of a hazardous waste tank shall obtain a written assessment reviewed and certified by an independent, qualified, professional engineer, registered in California attesting that the system has sufficient structural integrity, is acceptable for the transferring, storing, and treating of hazardous waste, and that the tanks and containment system are suitably designed. " "CORRECTIVE ACTION: Immediately have an assessment prepared for the the 500 gallon convault used oil, 120 gallon public used oil tank, and 300 gallon public used oil tanks. Submit a schedule showing when this will be accomplished to the CUPA 30 days from now.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to adequately discuss in the SPCC Plan facility drainage or drainage controls such as secondary containment around containers and other structures, equipment, and procedures for the control of a discharge.
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

	implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.11 25404.1 - California Health and Safety Code, Chapter 6.11, Section(s) 25404.1
Violation Description:	Failure to maintain a valid permit.
Violation Notes:	Returned to compliance on 05/30/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. No valid permit. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	02-28-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 05/08/2017. OBSERVATION: An Emergency Response Plan is missing he local CUPA contact information (Alameda County Env. Health 510-567-6700) CORRECTIVE ACTION: Complete the emergency response plan to include required content and submit electronically in the California Environmental Reporting System (CERS).
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to address in the SPCC Plan discharge prevention measures, including procedures for routine handling of products such as loading/unloading and facility transfers.
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to provide the following training to all oil-handling personnel: 1. Operation and maintenance of equipment to prevent discharges. 2. Discharge procedure protocols. 3. Applicable pollution control laws, rules, and regulations. 4. General facility operations. 5. Contents of the SPCC Plan.
Violation Notes: Returned to compliance on 09/28/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: APSA Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 05/19/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to describe in the SPCC plan facility security measures including: 1. How access to the oil handling, processing, and storage areas is secured and controlled. 2. How master flow and drain valves are secured. 3. How unauthorized access to starter controls on oil pumps is prevented. 4. How out-of-service and loading/unloading connections of oil pipelines is secured. 5. The appropriateness of security lighting to both prevent acts of vandalism and assist in the discovery of oil discharges.
Violation Notes: Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

	implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to include in the SPCC plan and document discharge prevention briefings for oil-handling personnel at least once a year, including, but not limited to, known discharges, failures, and malfunctioning components.
Violation Notes:	Returned to compliance on 09/28/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to discuss in the SPCC Plan conformance with SPCC requirements and other effective discharge prevention and containment procedures, or any applicable more stringent State rules, regulations, and guidelines.
Violation Notes:	Returned to compliance on 09/21/2017.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15535
Site Name:	California Waste Solutions 1819
Violation Date:	03-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to discuss in the SPCC Plan the appropriate containment, diversionary structures, or equipment to prevent a discharge, including typical failure mode and most likely quantity of discharge for the following: bulk storage containers, mobile/portable containers, oil-filled equipment, piping and related appurtenances, mobile refuels or non-transportation-related tank cars, and transfer areas, equipment and activities.
Violation Notes:	Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: APSA Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 02-28-2017
Citation: 22 CCR 15 66265.195(c) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.195(c)
Violation Description: Failure to conduct and document inspections of hazardous waste tank systems each operating day and retain records of those inspections at the facility.
Violation Notes: Returned to compliance on 09/18/2017. OBSERVATION: The Generator failed to conduct daily tank inspection of the discharge systems, monitoring equipment, and tank levels. No log was present for the daily tank inspections for the waste tanks. CORRECTIVE ACTION: Immediately begin to conduct daily inspections of the discharge systems, monitoring equipment, and tank levels for all tanks containing hazardous waste. Submit verification of these inspections to the CUPA within 30 days.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 02-28-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 08/18/2017. OBSERVATION: The facility has not submitted the Hazardous Materials Inventory Chemical Description page for 920 gallons of used oil, 120 gallons of ATF, 120 gallons of Hydraulic fluid, 90 gallons of glass cleaner, >1000 cubic feet of Oxygen, and >1000 cubic feet of propane to the CUPA. Motor oils shall

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

be reported separately according to the type and grade of oil. CORRECTIVE ACTION: Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed above electronically in the California Environmental Reporting System (CERS).
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 09-26-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 08/18/2017.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017
Citation: HSC 6.67 25270.6(b) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.6(b)
Violation Description: Failure to pay the APSA Program fee.
Violation Notes: Returned to compliance on 05/30/2017.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to comply with one or more of the following requirements: 1. Have record of inspections and integrity tests signed by the appropriate supervisor or inspector. 2. Keep written procedures and records of inspections and integrity tests for at least three years. 3. Keep comparison records.
Violation Notes: Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to include in the SPCC Plan: 1. A contact list and phone numbers for the facility response coordinator, National Response Center, cleanup contractors with an agreement for response, and all Federal, State, and local agencies who must be contacted in case of a discharge 2. Information and procedures that would enable a person reporting an oil discharge to relate all information as described in 40 CFR 112.7(a)(4), unless facility submitted a Facility Response Plan.
Violation Notes: Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 02-28-2017
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler’s operations that requires modification to any portion of the business plan.
Violation Notes: Returned to compliance on 05/19/2017. OBSERVATION: The facility has not submitted the Hazardous Materials Inventory Chemical Description page for 920 gallons of used oil, 120 gallons of ATF, 120 gallons of Hydraulic fluid, 90 gallons of glass cleaner, >1000 cubic feet of Oxygen, and >1000 cubic feet of propane to the CUPA. Motor oils shall be reported separately according to the type and grade of oil. CORRECTIVE ACTION: Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed above electronically in the California Environmental Reporting System (CERS).
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 15535
Site Name: California Waste Solutions 1819
Violation Date: 03-01-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to organize the SPCC Plan so that portions describing procedures to be used when a discharge occurs will be readily usable in an emergency, unless facility submitted a Facility Response Plan.
Violation Notes: Returned to compliance on 09/21/2017. OBSERVATION: Failure to prepare and implement SPCC. Facility stores over 1,320 gallons in their baler

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

hydraulic oil tanks and 55 gallon drums, but do not have a SPCC Plan. There is no SPCC Plan to review. CORRECTIVE ACTION: Prepare and implement SPCC. ACDEH has provided a blank copy of the Tier I template. Provide a copy to ACDEH within 30 days once completed and implemented.

Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-28-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct the Hazardous Materials Business Plan Inspection at California Waste Solutions 1819 - 1819 10th Street. Oakland, CA. Met with Site Operations Supervisor, Douglas Duong, Glen Hulsenberg, Jean Paul Cosentino. Facility is a Recycling Collection facility that accepts recycling through municipal recycling under residential and commercial. Most recent HMBP submittal was on 10/24/2016.
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	04-17-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBP NOV FOR INCOMPLETE SUBMITTAL/ADD VIOLATION
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-28-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct the Aboveground Petroleum Storage Act Inspection at California Waste Solutions 1819 - 1819 10th Street. Oakland, CA. Met with Site Operations Supervisor, Douglas Duong, Glen Hulsenberg, Jean Paul Cosentino. Facility is a Recycling Collection facility that accepts recycling through municipal recycling under residential and commercial. Facility stores more than 1320 gallons of petroleum based materials.
Eval Division:	Alameda County Environmental Health
Eval Program:	APSA
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-28-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct the Hazardous Waste Generator Inspection at California Waste Solutions 1819 - 1819 10th Street. Oakland, CA. Met with Site Operations Supervisor, Douglas Duong, Glen Hulsenberg, Jean Paul Cosentino. Facility is a Recycling Collection facility that accepts recycling through municipal recycling under residential and

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

commercial. Generator accepts used oil from the public through their recycling collection. Generator has 120 gallon and 300 gallon used oil tanks that are specifically for public oil, whereas there is a 500 gallon convault AST for their maintenance shop used oil. They are separated on a bill of lading by Safety Klean. After reviewing the used oil bill of ladings, the generator meets the Large Quantity status for both the public oil and their own maintenance oil separately. Generator does NOT have a Title 22 Hazardous Waste Tank Assessment for their aboveground used oil tanks.

Eval Division:	Alameda County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	09-26-2016
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBP NOV LETTER
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	12-06-2016
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBP NOV LETTER/TRACKING VIOLATION
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Enforcement Action:

Site ID:	15535
Site Name:	California Waste Solutions 1819
Site Address:	1819 10TH ST
Site City:	OAKLAND
Site Zip:	94607
Enf Action Date:	09-08-2017
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Alameda County Environmental Health
Enf Action Program:	APSA
Enf Action Source:	CERS

Site ID:	15535
Site Name:	California Waste Solutions 1819
Site Address:	1819 10TH ST
Site City:	OAKLAND
Site Zip:	94607
Enf Action Date:	09-08-2017
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Alameda County Environmental Health
Enf Action Program:	HW
Enf Action Source:	CERS

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Site ID:	15535
Site Name:	California Waste Solutions 1819
Site Address:	1819 10TH ST
Site City:	OAKLAND
Site Zip:	94607
Enf Action Date:	09-27-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Alameda County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Site ID:	15535
Site Name:	California Waste Solutions 1819
Site Address:	1819 10TH ST
Site City:	OAKLAND
Site Zip:	94607
Enf Action Date:	12-06-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Alameda County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Coordinates:

Site ID:	15535
Facility Name:	California Waste Solutions 1819
Env Int Type Code:	HWG
Program ID:	10501912
Coord Name:	Not reported
Ref Point Type Desc:	Unknown
Latitude:	37.810982
Longitude:	-122.302513

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Ken Mitchell
Entity Title:	Not reported
Affiliation Address:	1820 10th St.
Affiliation City:	Oakland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94607
Affiliation Phone:	(510) 600-1083

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1005 Timothy Drive
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95133
Affiliation Phone:	Not reported

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Affiliation Type Desc: Identification Signer
Entity Name: Ken Mitchell
Entity Title: Environmental Health and Safety Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: California Waste Solutions
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: Alameda County Env Health
Entity Title: Not reported
Affiliation Address: 1131 Harbor Parkway, Suite 240
Affiliation City: Alameda
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94502-6577
Affiliation Phone: (510) 567-6700

Affiliation Type Desc: Document Preparer
Entity Name: Ken Mitchell
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: California Waste Solutions
Entity Title: Not reported
Affiliation Address: 1005 Timothy Dr.
Affiliation City: San Jose
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95133
Affiliation Phone: (510) 268-9866

Affiliation Type Desc: Operator
Entity Name: Glen Hulsenberg
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported

CALIFORNIA WASTE SOLUTIONS 1819 (Continued) **S121747269**

Affiliation Zip: Not reported
Affiliation Phone: (408) 393-6032

G16 **SSW** **< 1/8** **0.064 mi.** **340 ft.**	**PHOENIX IRON WKS.** **888 CEDAR ST** **OAKLAND, CA 94607** **Site 1 of 4 in cluster G**	**CA LUST** **CA Alameda County CS** **CA SWEEPS UST** **CA FID UST** **CA HIST CORTESE** **CA CERS**	**S101624385** **N/A**
Relative: **Higher** **Actual:** **14 ft.**			

LUST:
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600102229
Global Id: T0600102229
Latitude: 37.8079530450688
Longitude: -122.304010391235
Status: Open - Site Assessment
Status Date: 10/28/2010
Case Worker: Not reported
RB Case Number: 01-2420
Local Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: RO0000417
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Acetone, Other Solvent or Non-Petroleum Hydrocarbon, Diesel, Gasoline
Site History: Not reported

LUST:
Global Id: T0600102229
Contact Type: Local Agency Caseworker
Contact Name: BARBARA COOK
Organization Name: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Address: 700 HEINZ ST.
City: BERKELEY
Email: Not reported
Phone Number: Not reported

Global Id: T0600102229
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600102229
Action Type: Other
Date: 11/01/1993
Action: Leak Reported

Global Id: T0600102229
Action Type: ENFORCEMENT
Date: 07/03/2008
Action: Technical Correspondence / Assistance / Other - #20080703

PHOENIX IRON WKS. (Continued) **S101624385**

Global Id: T0600102229
Action Type: REMEDIATION
Date: 10/20/1995
Action: Excavation

Global Id: T0600102229
Action Type: Other
Date: 11/01/1993
Action: Leak Discovery

Global Id: T0600102229
Action Type: Other
Date: 10/23/1995
Action: Leak Stopped

LUST:
Global Id: T0600102229
Status: Open - Case Begin Date
Status Date: 11/01/1993

Global Id: T0600102229
Status: Open - Remediation
Status Date: 05/10/1994

Global Id: T0600102229
Status: Open - Reopen Case
Status Date: 05/10/1994

Global Id: T0600102229
Status: Open - Site Assessment
Status Date: 11/01/1993

Global Id: T0600102229
Status: Open - Site Assessment
Status Date: 05/10/1994

Global Id: T0600102229
Status: Open - Site Assessment
Status Date: 10/28/2010

LUST REG 2:
Region: 2
Facility Id: 01-2420
Facility Status: Preliminary site assessment workplan submitted
Case Number: 612
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 7/11/1995
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: 1/2/1965
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported

PHOENIX IRON WKS. (Continued) **S101624385**

Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:

Status:	Leak Confirmation
Record Id:	RO0000417
PE:	5602
Facility Status:	Leak Confirmation
Latitude:	Not reported
Longitude:	Not reported

Status:	11
Record Id:	RO0000417
PE:	5602
Facility Status:	Not reported
Latitude:	Not reported
Longitude:	Not reported

Status:	Pollution Characterization
Record Id:	RO0000417
PE:	5602
Facility Status:	Pollution Charaterization
Latitude:	Not reported
Longitude:	Not reported

SWEEPS UST:

Status:	Active
Comp Number:	59789
Number:	9
Board Of Equalization:	44-000599
Referral Date:	07-01-85
Action Date:	Not reported
Created Date:	02-29-88
Owner Tank Id:	1
SWRCB Tank Id:	01-000-059789-000001
Tank Status:	A
Capacity:	500
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	2

Status:	Active
Comp Number:	59789
Number:	9
Board Of Equalization:	44-000599
Referral Date:	07-01-85
Action Date:	Not reported
Created Date:	02-29-88
Owner Tank Id:	2
SWRCB Tank Id:	01-000-059789-000002
Tank Status:	A
Capacity:	1000
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P

PHOENIX IRON WKS. (Continued) **S101624385**

Content: DIESEL
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 01002778
Regulated By: UTNKA
Regulated ID: 00059789
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4154659900
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: OAKLAND 94607
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

HIST CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-2420

CERS TANKS:
Site ID: 195229
CERS ID: T0600102229
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: BARBARA COOK - DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Entity Title: Not reported
Affiliation Address: 700 HEINZ ST.
Affiliation City: BERKELEY
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

E17
NE
< 1/8
0.068 mi.
359 ft.

GLOBE METALS COMPANY
182010TH
OAKLAND, CA 94607

CA HIST CORTESE

S105025323
N/A

Site 2 of 4 in cluster E

Relative:
Higher

Actual:
13 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1918

G18
SSW
< 1/8
0.068 mi.
359 ft.

CALTRANS
727 PINE ST
OAKLAND, CA 94607

CA ENVIROSTOR
CA VCP
CA HAZNET

S113087267
N/A

Site 2 of 4 in cluster G

Relative:
Higher

Actual:
14 ft.

ENVIROSTOR:

Facility ID:	1920064
Status:	Certified
Status Date:	06/30/2006
Site Code:	200458
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	0.3
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.80787
Longitude:	-122.3039
APN:	6-45-26
Past Use:	FUEL - VEHICLE STORAGE/ REFUELING
Potential COC:	TPH-diesel
Confirmed COC:	TPH-diesel
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported

CALTRANS (Continued) **S113087267**

Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Facility ID: 1920064
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 0.3
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Site Code: 200458
Assembly: 18
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified
Status Date: 06/30/2006
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.80787 / -122.3039
APN: 6-45-26
Past Use: FUEL - VEHICLE STORAGE/ REFUELING
Potential COC: 30024
Confirmed COC: 30024
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HAZNET:
Facility Name: CALTRANS
envid: S113087267
Year: 1999
GEPAID: CAL000163017

CALTRANS (Continued) **S113087267**

Contact: CALTRANS
Telephone: 5102865666
Mailing Name: Not reported
Mailing Address: PO BOX 23660
Mailing City,St,Zip: OAKLAND, CA 946230660
Gen County: Not reported
TSD EPA ID: UTC093012201
TSD County: Not reported
Waste Category: Contaminated soil from site clean-up
Disposal Method: Disposal, Land Fill
Tons: .0000
Cat Decode: Not reported
Method Decode: Not reported
Facility County: 1

envid: S113087267
Year: 1999
GEPAID: CAL000163017
Contact: CALTRANS
Telephone: 5102865666
Mailing Name: Not reported
Mailing Address: PO BOX 23660
Mailing City,St,Zip: OAKLAND, CA 946230660
Gen County: Not reported
TSD EPA ID: CAD980675276
TSD County: Not reported
Waste Category: Contaminated soil from site clean-up
Disposal Method: Disposal, Land Fill
Tons: 386.8452
Cat Decode: Not reported
Method Decode: Not reported
Facility County: 1

envid: S113087267
Year: 1999
GEPAID: CAL000163017
Contact: CALTRANS
Telephone: 5102865666
Mailing Name: Not reported
Mailing Address: PO BOX 23660
Mailing City,St,Zip: OAKLAND, CA 946230660
Gen County: Not reported
TSD EPA ID: CAT000646117
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Transfer Station
Tons: .8000
Cat Decode: Not reported
Method Decode: Not reported
Facility County: 1

envid: S113087267
Year: 1999
GEPAID: CAL000163017
Contact: CALTRANS
Telephone: 5102865666
Mailing Name: Not reported

CALTRANS (Continued) **S113087267**

Mailing Address: PO BOX 23660
Mailing City,St,Zip: OAKLAND, CA 946230660
Gen County: Not reported
TSD EPA ID: UTD981552177
TSD County: Not reported
Waste Category: Contaminated soil from site clean-up
Disposal Method: Not reported
Tons: 720.0000
Cat Decode: Not reported
Method Decode: Not reported
Facility County: 1

envid: S113087267
Year: 1999
GEPAID: CAL000163017
Contact: CALTRANS
Telephone: 5102865666
Mailing Name: Not reported
Mailing Address: PO BOX 23660
Mailing City,St,Zip: OAKLAND, CA 946230660
Gen County: Not reported
TSD EPA ID: UT0981552177
TSD County: Not reported
Waste Category: Contaminated soil from site clean-up
Disposal Method: Not reported
Tons: 900.0000
Cat Decode: Not reported
Method Decode: Not reported
Facility County: 1

Click this hyperlink while viewing on your computer to access
5 additional CA_HAZNET: record(s) in the EDR Site Report.

G19 **WILFRED’S AUTO WRECKING** **CA ENVIROSTOR** **S102860807**
SSW **1834 7TH STREET** **CA VCP** **N/A**
< 1/8 **OAKLAND, CA 94607**
0.069 mi.
364 ft. **Site 3 of 4 in cluster G**

Relative:
Higher

Actual:
14 ft.

ENVIROSTOR:
Facility ID: 1500105
Status: Certified
Status Date: 10/17/1997
Site Code: 200356
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 0.05
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Lynn Nakashima
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED

WILFRED’S AUTO WRECKING (Continued) **S102860807**

Funding:	Responsible Party
Latitude:	37.80774
Longitude:	-122.3045
APN:	6-45-33
Past Use:	VEHICLE MAINTENANCE
Potential COC:	* CONTAMINATED SOIL Lead TPH-MOTOR OIL Nickel
Confirmed COC:	Nickel Lead * CONTAMINATED SOIL TPH-MOTOR OIL
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

VCP:

Facility ID:	1500105
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0.05
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Lynn Nakashima
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Site Code:	200356
Assembly:	18
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified
Status Date:	10/17/1997
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.80774 / -122.3045
APN:	6-45-33
Past Use:	VEHICLE MAINTENANCE
Potential COC:	10097, 30013, 3002502, 30407
Confirmed COC:	30407,30013,10097,3002502
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

WILFRED'S AUTO WRECKING (Continued) **S102860807**

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

G20
South
< 1/8
0.073 mi.
387 ft.

MIYAKE TAKITARO
1796 7TH ST
OAKLAND, CA

Site 4 of 4 in cluster G

EDR Hist Cleaner **1009140845**
N/A

Relative:
Higher

Actual:
14 ft.

EDR Hist Cleaner

Year:	Name:	Type:
1933	MIYAKE TAKITARO	CLOTHES PRESSERS AND CLEANERS

H21
SE
< 1/8
0.075 mi.
396 ft.

SUNLIGHT CLEANERS
801 WOOD ST
OAKLAND, CA 94607

Site 1 of 2 in cluster H

EDR Hist Cleaner **1009139854**
N/A

Relative:
Higher

Actual:
15 ft.

EDR Hist Cleaner

Year:	Name:	Type:
1967	SUNLIGHT CLEANERS	CLEANERS AND DYERS
1986	SUNLIGHT CLEANERS	Garment Pressing And Cleaners' Agents
1987	SUNLIGHT CLEANERS	Garment Pressing And Cleaners' Agents
1988	SUNLIGHT CLEANERS	Garment Pressing And Cleaners' Agents
1989	SUNLIGHT CLEANERS	Garment Pressing And Cleaners' Agents
1990	SUNLIGHT CLEANERS	Garment Pressing And Cleaners' Agents
1991	SUNLIGHT CLEANERS	Garment Pressing And Cleaners' Agents
1992	SUNLIGHT CLEANERS	Garment Pressing And Cleaners' Agents
1993	SUNLIGHT CLEANERS	Garment Pressing And Cleaners' Agents
1994	SUNLIGHT CLEANERS	Garment Pressing And Cleaners' Agents
1995	SUNLIGHT CLEANERS	Garment Pressing And Cleaners' Agents
1996	SUNLIGHT CLEANERS	Garment Pressing And Cleaners' Agents

F22
NNE
< 1/8
0.078 mi.
413 ft.

GLOBE METALS CO.
1820 010TH ST
OAKLAND, CA 94607

Site 2 of 9 in cluster F

CA SWEEPS UST
CA FID UST

1000590094
N/A

Relative:
Higher

Actual:
13 ft.

SWEEPS UST:
Status: Not reported
Comp Number: 1004
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-001004-000001
Tank Status: Not reported
Capacity: 560
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 1

CA FID UST:
Facility ID: 01002075
Regulated By: UTNKI
Regulated ID: 00001004
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4154442776
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: OAKLAND 94607
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

F23
NNE
< 1/8
0.080 mi.
424 ft.

GLOBE METALS CO.
1820 10TH ST
OAKLAND, CA 94607

Site 3 of 9 in cluster F

CA HIST UST

1000162180
N/A

Relative:
Higher

Actual:
13 ft.

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000001004
Facility Type: Other
Other Type: ALUMINUM RECYCLING
Contact Name: LUIGI FERRI
Telephone: 4154442776
Owner Name: GLOBE METALS CO.

GLOBE METALS CO. (Continued) **1000162180**

Owner Address:	1820 TENTH STREET
Owner City,St,Zip:	OAKLAND, CA 94607
Total Tanks:	0001
Tank Num:	001
Container Num:	1
Year Installed:	1963
Tank Capacity:	00000560
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

F24
NNE
< 1/8
0.080 mi.
424 ft.

CALIFORNIA WASTE SOLUTIONS INC
1820 10TH ST
OAKLAND, CA 94607

Site 4 of 9 in cluster F

CA CPS-SLIC
CA Alameda County CS
CA PROC
CA WDS
CA CERS

1001612900
N/A

Relative:
Higher

Actual:
13 ft.

CPS-SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	06/02/2009
Global Id:	T0600191528
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.8114718346688
Longitude:	-122.301874349243
Case Type:	Cleanup Program Site
Case Worker:	UUU
Local Agency:	Not reported
RB Case Number:	01S0363
File Location:	Not reported
Potential Media Affected:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Lead
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SLIC REG 2:

Region:	2
Facility ID:	01S0363
Facility Status:	Leak being confirmed
Date Closed:	Not reported
Local Case #:	Not reported
How Discovered:	Tank Closure
Leak Cause:	UNK
Leak Source:	UNK
Date Confirmed:	11/7/1994
Date Prelim Site Assmnt Workplan Submitted:	Not reported
Date Preliminary Site Assessment Began:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

CALIFORNIA WASTE SOLUTIONS INC (Continued) **1001612900**

Alameda County CS:

Status:	Leak Confirmation
Record Id:	RO0003019
PE:	5602
Facility Status:	Leak Confirmation
Latitude:	Not reported
Longitude:	Not reported

Status:	11
Record Id:	RO0003019
PE:	5602
Facility Status:	Not reported
Latitude:	Not reported
Longitude:	Not reported

Status:	Pollution Characterization
Record Id:	RO0003019
PE:	5602
Facility Status:	Pollution Charaterization
Latitude:	Not reported
Longitude:	Not reported

PROC:

Reg Id:	24322
Cert Id:	PR0328
Organization Id:	19442
Organization Name:	California Waste Solutions Inc
Mailing Address:	1211 Embarcadero Ste 300
Mailing City:	Oakland
Mailing State:	CA
Mailing Zip Code:	94606
Website:	Not reported
Email:	kristinaduong@calwaste.com
Phone Number:	(510) 836-6200
Rural:	N/A
Operation Begin Date:	09/15/2000
Aluminium:	Not reported
Glass:	Not reported
Plastic:	Not reported
Bimetal:	Not reported
Hours of Operation:	Mon - Fri Unknown; Sat - Sun Closed

WDS:

Facility ID:	San Francisco Bay 01I017552
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	2
Facility Telephone:	5108328111

CALIFORNIA WASTE SOLUTIONS INC (Continued) **1001612900**

Facility Contact:	KRISTINA DUONG
Agency Name:	CA WST SOLUTIONS INC
Agency Address:	1820TENTH ST
Agency City,St,Zip:	OAKLAND 94607
Agency Contact:	VICTOR DUONG
Agency Telephone:	5108328111
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CERS TANKS:

Site ID:	230067
CERS ID:	T0600191528
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

F25
NNE
< 1/8
0.080 mi.
424 ft.

GLOBE METALS CO
1820 TENTH STREET
OAKLAND, CA 94607

Site 5 of 9 in cluster F

CA HIST UST

S118410685
N/A

Relative:
Higher

Actual:
13 ft.

HIST UST:

File Number: 00035FF4
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00035FF4.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

F26
NNE
< 1/8
0.080 mi.
424 ft.

CA WASTE SOLUTIONS 10TH ST SEALED CONT
1820 10TH STREET (PARKING LOT)
OAKLAND, CA

Site 6 of 9 in cluster F

CA SWF/LF

S123142685
N/A

Relative:
Higher

Actual:
13 ft.

SWF/LF (SWIS):

Facility ID: 01-AA-0329
Lat/Long: 37.81167 / -122.30173
Owner Name: California Waste Solutions, Inc.
Owner Telephone: 5108328111
Owner Address: Not reported
Owner Address2: 1820 10th St.
Owner City,St,Zip: Oakland, CA 94607
Operational Status: Active
Operator: California Waste Solutions, Inc.
Operator Phone: 5108328111
Operator Address: Not reported
Operator Address2: 1820 10th St.
Operator City,St,Zip: Oakland, CA 94607
Permit Date: 09/28/2018
Permit Status: Notification
Permitted Acreage: Not reported
Activity: Sealed Container Transfer Operation
Regulation Status: Notification
Landuse Name: Not reported
GIS Source: Map
Category: Transfer/Processing
Unit Number: 01

CA WASTE SOLUTIONS 10TH ST SEALED CONT (Continued) **S123142685**

Inspection Frequency:	Quarterly
Accepted Waste:	Mixed municipal
Closure Date:	Not reported
Closure Type:	Not reported
Disposal Acreage:	Not reported
SWIS Num:	01-AA-0329
Waste Discharge Requirement Num:	Not reported
Program Type:	Not reported
Permitted Throughput with Units:	Not reported
Actual Throughput with Units:	Not reported
Permitted Capacity with Units:	Not reported
Remaining Capacity:	Not reported
Remaining Capacity with Units:	Not reported
Lat/Long:	37.81167 / -122.30173

F27
NNE
< 1/8
0.080 mi.
424 ft.

CALIFORNIA WASTE SOLUTIONS 1820
1820 10TH ST
OAKLAND, CA 94607

CA CERS HAZ WASTE
CA CERS TANKS
CA CERS

S121747270
N/A

Site 7 of 9 in cluster F

Relative:
Higher

Actual:
13 ft.

CERS HAZ WASTE:

Site ID:	15536
CERS ID:	10501921
CERS Description:	Hazardous Waste Generator

Violations:

Site ID:	15536
Site Name:	California Waste Solutions 1820
Violation Date:	02-28-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 04/24/2017. OBSERVATION: An Emergency Response Plan is missing he local CUPA contact information (Alameda County Env. Health 510-567-6700) CORRECTIVE ACTION: Complete the emergency response plan to include required content and submit electronically in the California Environmental Reporting System (CERS).
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	15536
Site Name:	California Waste Solutions 1820
Violation Date:	09-26-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 10/25/2016.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

CALIFORNIA WASTE SOLUTIONS 1820 (Continued) **S121747270**

Site ID: 15536
Site Name: California Waste Solutions 1820
Violation Date: 02-28-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 04/24/2017. OBSERVATION: The annotated site map submitted to the CUPA does not include the storage of propane cylinders. CORRECTIVE ACTION: Revise the annotated Site Map to include all required content and submit electronically in the California Environmental Reporting System (CERS).
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 15536
Site Name: California Waste Solutions 1820
Violation Date: 02-28-2017
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler’s operations that requires modification to any portion of the business plan.
Violation Notes: Returned to compliance on 05/19/2017. OBSERVATION: The facility has not submitted the Hazardous Materials Inventory Chemical Description page for thirty two 287 cubic feet cylinders of Propane to the CUPA. Only 100 cubic feet is being reported in CERS. There was also a 1,100 gallon hydraulic oil baler containment for the operation that needs to be reported. CORRECTIVE ACTION: Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed above electronically in the California Environmental Reporting System (CERS).
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 15536
Site Name: California Waste Solutions 1820
Violation Date: 02-28-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 05/19/2017. OBSERVATION: The facility has not submitted the Hazardous Materials Inventory Chemical Description page for thirty two 287 cubic feet cylinders of Propane to the CUPA. Only 100 cubic feet is being reported in CERS. There was also a 1,100 gallon hydraulic oil baler containment for the operation that needs to be reported. CORRECTIVE ACTION: Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed above electronically in the California Environmental Reporting System

CALIFORNIA WASTE SOLUTIONS 1820 (Continued) **S121747270**

	(CERS).
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	09-26-2016
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBP NOV LETTER
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-28-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct the Hazardous Materials Business Plan Inspection at California Waste Solutions 1820 - 1820 10th Street. Oakland, CA. Met with Site Operations Supervisor, Douglas Duong, Glen Hulsenberg, Jean Paul Cosentino. Facility is a Recycling Collection facility that accepts recycling through municipal recycling under residential and commercial. Most recent HMBP submittal was on 10/25/2016.
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Enforcement Action:

Site ID:	15536
Site Name:	California Waste Solutions 1820
Site Address:	1820 10TH ST
Site City:	OAKLAND
Site Zip:	94607
Enf Action Date:	09-27-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Alameda County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Coordinates:

Site ID:	15536
Facility Name:	California Waste Solutions 1820
Env Int Type Code:	HMBP
Program ID:	10501921
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	37.811190
Longitude:	-122.301730

Affiliation:

Affiliation Type Desc:	Environmental Contact

CALIFORNIA WASTE SOLUTIONS 1820 (Continued) **S121747270**

Entity Name: Ken Mitchell
Entity Title: Not reported
Affiliation Address: 1820 10th St.
Affiliation City: Oakland
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94607
Affiliation Phone: (510) 600-1083

Affiliation Type Desc: Parent Corporation
Entity Name: California Waste Solutions
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer
Entity Name: Ken Mitchell
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1820 10th St.
Affiliation City: Oakland
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94607
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: California Waste Solutions
Entity Title: Not reported
Affiliation Address: 1005 Timothy Dr.
Affiliation City: San Jose
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95133
Affiliation Phone: (510) 268-9866

Affiliation Type Desc: Identification Signer
Entity Name: Ken Mitchell
Entity Title: Environmental Health and Safety Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported

CALIFORNIA WASTE SOLUTIONS 1820 (Continued) **S121747270**

Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Alameda County Env Health
Entity Title:	Not reported
Affiliation Address:	1131 Harbor Parkway, Suite 240
Affiliation City:	Alameda
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94502-6577
Affiliation Phone:	(510) 567-6700
Affiliation Type Desc:	Operator
Entity Name:	Frank Canto
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 750-2619

CERS TANKS:

Site ID:	15536
CERS ID:	10501921
CERS Description:	Aboveground Petroleum Storage

Violations:

Site ID:	15536
Site Name:	California Waste Solutions 1820
Violation Date:	02-28-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 04/24/2017. OBSERVATION: An Emergency Response Plan is missing he local CUPA contact information (Alameda County Env. Health 510-567-6700) CORRECTIVE ACTION: Complete the emergency response plan to include required content and submit electronically in the California Environmental Reporting System (CERS).
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15536
Site Name:	California Waste Solutions 1820
Violation Date:	09-26-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 10/25/2016.
Violation Division:	Alameda County Environmental Health

CALIFORNIA WASTE SOLUTIONS 1820 (Continued) **S121747270**

Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15536
Site Name:	California Waste Solutions 1820
Violation Date:	02-28-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 04/24/2017. OBSERVATION: The annotated site map submitted to the CUPA does not include the storage of propane cylinders. CORRECTIVE ACTION: Revise the annotated Site Map to include all required content and submit electronically in the California Environmental Reporting System (CERS).
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15536
Site Name:	California Waste Solutions 1820
Violation Date:	02-28-2017
Citation:	HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler’s operations that requires modification to any portion of the business plan.
Violation Notes:	Returned to compliance on 05/19/2017. OBSERVATION: The facility has not submitted the Hazardous Materials Inventory Chemical Description page for thirty two 287 cubic feet cylinders of Propane to the CUPA. Only 100 cubic feet is being reported in CERS. There was also a 1,100 gallon hydraulic oil baler containment for the operation that needs to be reported. CORRECTIVE ACTION: Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed above electronically in the California Environmental Reporting System (CERS).
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15536
Site Name:	California Waste Solutions 1820
Violation Date:	02-28-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 05/19/2017. OBSERVATION: The facility has not submitted the Hazardous Materials Inventory Chemical Description page for thirty two 287 cubic feet cylinders of Propane to the CUPA. Only 100 cubic feet is being reported in CERS. There was also a 1,100 gallon hydraulic oil baler containment for the operation that needs to

CALIFORNIA WASTE SOLUTIONS 1820 (Continued) **S121747270**

be reported. CORRECTIVE ACTION: Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed above electronically in the California Environmental Reporting System (CERS).

Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	09-26-2016
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBP NOV LETTER
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-28-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct the Hazardous Materials Business Plan Inspection at California Waste Solutions 1820 - 1820 10th Street. Oakland, CA. Met with Site Operations Supervisor, Douglas Duong, Glen Hulsenberg, Jean Paul Cosentino. Facility is a Recycling Collection facility that accepts recycling through municipal recycling under residential and commercial. Most recent HMBP submittal was on 10/25/2016.
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Enforcement Action:

Site ID:	15536
Site Name:	California Waste Solutions 1820
Site Address:	1820 10TH ST
Site City:	OAKLAND
Site Zip:	94607
Enf Action Date:	09-27-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Alameda County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Coordinates:

Site ID:	15536
Facility Name:	California Waste Solutions 1820
Env Int Type Code:	HMBP
Program ID:	10501921
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	37.811190
Longitude:	-122.301730

CALIFORNIA WASTE SOLUTIONS 1820 (Continued) **S121747270**

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Ken Mitchell
Entity Title: Not reported
Affiliation Address: 1820 10th St.
Affiliation City: Oakland
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94607
Affiliation Phone: (510) 600-1083

Affiliation Type Desc: Parent Corporation
Entity Name: California Waste Solutions
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer
Entity Name: Ken Mitchell
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1820 10th St.
Affiliation City: Oakland
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94607
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: California Waste Solutions
Entity Title: Not reported
Affiliation Address: 1005 Timothy Dr.
Affiliation City: San Jose
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95133
Affiliation Phone: (510) 268-9866

Affiliation Type Desc: Identification Signer
Entity Name: Ken Mitchell
Entity Title: Environmental Health and Safety Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported

CALIFORNIA WASTE SOLUTIONS 1820 (Continued) **S121747270**

Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Alameda County Env Health
Entity Title:	Not reported
Affiliation Address:	1131 Harbor Parkway, Suite 240
Affiliation City:	Alameda
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94502-6577
Affiliation Phone:	(510) 567-6700
Affiliation Type Desc:	Operator
Entity Name:	Frank Canto
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 750-2619

CERS TANKS:

Site ID:	15536
CERS ID:	10501921
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	15536
Site Name:	California Waste Solutions 1820
Violation Date:	02-28-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 04/24/2017. OBSERVATION: An Emergency Response Plan is missing he local CUPA contact information (Alameda County Env. Health 510-567-6700) CORRECTIVE ACTION: Complete the emergency response plan to include required content and submit electronically in the California Environmental Reporting System (CERS).
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15536
Site Name:	California Waste Solutions 1820
Violation Date:	09-26-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.

CALIFORNIA WASTE SOLUTIONS 1820 (Continued) **S121747270**

Violation Notes: Returned to compliance on 10/25/2016.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 15536
Site Name: California Waste Solutions 1820
Violation Date: 02-28-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 04/24/2017. OBSERVATION: The annotated site map submitted to the CUPA does not include the storage of propane cylinders. CORRECTIVE ACTION: Revise the annotated Site Map to include all required content and submit electronically in the California Environmental Reporting System (CERS).
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 15536
Site Name: California Waste Solutions 1820
Violation Date: 02-28-2017
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler’s operations that requires modification to any portion of the business plan.
Violation Notes: Returned to compliance on 05/19/2017. OBSERVATION: The facility has not submitted the Hazardous Materials Inventory Chemical Description page for thirty two 287 cubic feet cylinders of Propane to the CUPA. Only 100 cubic feet is being reported in CERS. There was also a 1,100 gallon hydraulic oil baler containment for the operation that needs to be reported. CORRECTIVE ACTION: Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed above electronically in the California Environmental Reporting System (CERS).
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 15536
Site Name: California Waste Solutions 1820
Violation Date: 02-28-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 05/19/2017. OBSERVATION: The facility has not submitted the Hazardous Materials Inventory Chemical Description page for thirty two 287 cubic feet cylinders of Propane to the CUPA.

CALIFORNIA WASTE SOLUTIONS 1820 (Continued) **S121747270**

	Only 100 cubic feet is being reported in CERS. There was also a 1,100 gallon hydraulic oil baler containment for the operation that needs to be reported. CORRECTIVE ACTION: Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed above electronically in the California Environmental Reporting System (CERS).
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	09-26-2016
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBP NOV LETTER
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-28-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct the Hazardous Materials Business Plan Inspection at California Waste Solutions 1820 - 1820 10th Street. Oakland, CA. Met with Site Operations Supervisor, Douglas Duong, Glen Hulsenberg, Jean Paul Cosentino. Facility is a Recycling Collection facility that accepts recycling through municipal recycling under residential and commercial. Most recent HMBP submittal was on 10/25/2016.
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Enforcement Action:

Site ID:	15536
Site Name:	California Waste Solutions 1820
Site Address:	1820 10TH ST
Site City:	OAKLAND
Site Zip:	94607
Enf Action Date:	09-27-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Alameda County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Coordinates:

Site ID:	15536
Facility Name:	California Waste Solutions 1820
Env Int Type Code:	HMBP
Program ID:	10501921
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	37.811190

CALIFORNIA WASTE SOLUTIONS 1820 (Continued) **S121747270**

Longitude: -122.301730

Affiliation:

Affiliation Type Desc: Environmental Contact
Entity Name: Ken Mitchell
Entity Title: Not reported
Affiliation Address: 1820 10th St.
Affiliation City: Oakland
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94607
Affiliation Phone: (510) 600-1083

Affiliation Type Desc: Parent Corporation
Entity Name: California Waste Solutions
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer
Entity Name: Ken Mitchell
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1820 10th St.
Affiliation City: Oakland
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94607
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: California Waste Solutions
Entity Title: Not reported
Affiliation Address: 1005 Timothy Dr.
Affiliation City: San Jose
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95133
Affiliation Phone: (510) 268-9866

Affiliation Type Desc: Identification Signer
Entity Name: Ken Mitchell
Entity Title: Environmental Health and Safety Manager
Affiliation Address: Not reported

CALIFORNIA WASTE SOLUTIONS 1820 (Continued) **S121747270**

Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	Alameda County Env Health
Entity Title:	Not reported
Affiliation Address:	1131 Harbor Parkway, Suite 240
Affiliation City:	Alameda
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94502-6577
Affiliation Phone:	(510) 567-6700

Affiliation Type Desc:	Operator
Entity Name:	Frank Canto
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 750-2619

F28
NNE
< 1/8
0.080 mi.
424 ft.

CALIFORNIA WASTE SOLUTIONS (10TH ST.) **CA SWF/LF** **S119777568**
1820 10TH ST. **N/A**
OAKLAND, CA

Site 8 of 9 in cluster F

Relative:
Higher

Actual:
13 ft.

SWF/LF (SWIS):

Facility ID:	01-AA-0324
Lat/Long:	37.81168 / -122.30174
Owner Name:	California Waste Solutions, Inc. (CWS)
Owner Telephone:	4082920830
Owner Address:	Victor Duong , CEO/ President
Owner Address2:	1005 Timothy Drive
Owner City,St,Zip:	San Jose, CA 95133
Operational Status:	Active
Operator:	California Waste Solutions, Inc.
Operator Phone:	5108328111
Operator Address:	Not reported
Operator Address2:	1820 10th St.
Operator City,St,Zip:	Oakland, CA 94607
Permit Date:	09/27/2018
Permit Status:	Permitted
Permitted Acreage:	$2.10
Activity:	Medium Volume Transfer/Proc Fac
Regulation Status:	Permitted
Landuse Name:	Not reported
GIS Source:	Map
Category:	Transfer/Processing
Unit Number:	01
Inspection Frequency:	Monthly
Accepted Waste:	Inert

CALIFORNIA WASTE SOLUTIONS (10TH ST.) (Continued) **S119777568**

Closure Date: Not reported
Closure Type: Not reported
Disposal Acreage: Not reported
SWIS Num: 01-AA-0324
Waste Discharge Requirement Num: Not reported
Program Type: Not reported
Permitted Throughput with Units: 100
Actual Throughput with Units: Tons/day
Permitted Capacity with Units: 100
Remaining Capacity: Not reported
Remaining Capacity with Units: Tons/day
Lat/Long: 37.81168 / -122.30174

F29
NNE
< 1/8
0.080 mi.
424 ft.

CALIFORNIA WASTE SOLUTIONS 1820
1820 10TH ST
OAKLAND, CA 94607

Site 9 of 9 in cluster F

CA AST **A100418220**
N/A

Relative:
Higher

Actual:
13 ft.

AST:
Certified Unified Program Agencies: Not reported
Owner: David Duong
Total Gallons: Not reported
CERSID: 10501921
Facility ID: Not reported
Business Name: California Waste Solutions
Phone: 510 832-8111
Fax: 510 832-8206
Mailing Address: 1005 Timohty Drive
Mailing Address City: San Jose
Mailing Address State: CA
Mailing Address Zip Code: 94607
Operator Name: California Waste Solutions
Operator Phone: 510 832-8111
Owner Phone: 510 832-8111
Owner Mail Address: 1820 10th st
Owner State: CA
Owner Zip Code: 94607
Owner Country: United States
Property Owner Name: David Duong
Property Owner Phone: 510 832-8111
Property Owner Mailing Address: 1820 10th st
Property Owner City: Oakland
Property Owner Stat : CA
Property Owner Zip Code: 94607
Property Owner Country: United States
EPAID: Not reported

I30	**S.P. CO. DESERT YARD**	**CA SWEEPS UST**	**U001599216**
SW	**515 BAY ST**	**CA HIST UST**	**N/A**
< 1/8	**OAKLAND, CA 94607**		
0.087 mi.			
462 ft.	**Site 1 of 8 in cluster I**		

Relative:
Higher

Actual:
13 ft.

SWEEPS UST:
Status: Not reported
Comp Number: 24518
Number: Not reported
Board Of Equalization: 44-000295
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-024518-000001
Tank Status: Not reported
Capacity: 2500
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: 1

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000024518
Facility Type: Other
Other Type: RAILYARD
Contact Name: BAGLEY
Telephone: 4158917628
Owner Name: SOUTHERN PACIFIC TRANSPORTATIO
Owner Address: 1 MARKET STREET 1 MARKET PLAZA
Owner City,St,Zip: SAN FRANCISCO, CA 94105
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: 1980
Tank Capacity: 00002500
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: 1/4"
Leak Detection: Pressure Test

I31	**W.O. RIP TRACK**	**CA LUST**	**S101624391**
SW	**515 BAY ST**	**CA Alameda County CS**	**N/A**
< 1/8	**OAKLAND, CA 94607**	**CA SWEEPS UST**	
0.087 mi.		**CA HIST UST**	
462 ft.	**Site 2 of 8 in cluster I**	**CA FID UST**	
		CA CHMIRS	
		CA HIST CORTESE	
		CA WDS	
		CA CERS	

Relative:
Higher

Actual:
13 ft.

LUST:
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL

W.O. RIP TRACK (Continued) **S101624391**

Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101306
Global Id:	T0600101306
Latitude:	37.807644
Longitude:	-122.305773
Status:	Open - Site Assessment
Status Date:	07/29/2010
Case Worker:	Not reported
RB Case Number:	01-1414
Local Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	RO0003030
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0600101306
Action Type:	Other
Date:	01/21/1988
Action:	Leak Reported
Global Id:	T0600101306
Action Type:	Other
Date:	01/21/1988
Action:	Leak Discovery
Global Id:	T0600101306
Action Type:	Other
Date:	01/21/1988
Action:	Leak Stopped

LUST:

Global Id:	T0600101306
Status:	Open - Case Begin Date
Status Date:	01/21/1988
Global Id:	T0600101306
Status:	Open - Referred
Status Date:	06/20/1994
Global Id:	T0600101306
Status:	Open - Referred
Status Date:	08/22/1996
Global Id:	T0600101306
Status:	Open - Site Assessment
Status Date:	07/29/2010

Alameda County CS:

Status:	Leak Confirmation
Record Id:	RO0003030
PE:	5602
Facility Status:	Leak Confirmation
Latitude:	Not reported
Longitude:	Not reported

W.O. RIP TRACK (Continued) **S101624391**

Status: 11
Record Id: RO0003030
PE: 5602
Facility Status: Not reported
Latitude: Not reported
Longitude: Not reported

SWEEPS UST:
Status: Not reported
Comp Number: 24512
Number: Not reported
Board Of Equalization: 44-000292
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-024512-000001
Tank Status: Not reported
Capacity: 2000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: 1

HIST UST:
File Number: 00036389
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00036389.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

W.O. RIP TRACK (Continued) **S101624391**

Click here for Geo Tracker PDF:

CA FID UST:

Facility ID:	01001526
Regulated By:	UTNKI
Regulated ID:	00024512
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4158917628
Mail To:	Not reported
Mailing Address:	15 BAY ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	OAKLAND 94607
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

Facility ID:	01001526
Regulated By:	UTNKI
Regulated ID:	00024518
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4158917628
Mail To:	Not reported
Mailing Address:	515 BAY ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	OAKLAND 94607
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

CHMIRS:

OES Incident Number:	11485
OES notification:	Not reported
OES Date:	12/26/1995
OES Time:	12:35:46 AM
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported

W.O. RIP TRACK (Continued) **S101624391**

Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Facility Telephone: Not reported
Waterway Involved: YES
Waterway: Not reported
Spill Site: Not reported
Cleanup By: Not reported
Containment: Not reported
What Happened: Not reported
Type: PETROLEUM
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 1995
Agency: southern pacific
Incident Date: 0010/12-26-95
Admin Agency: Not reported
Amount: 50-100 gallons
Contained: Not reported
Site Type: R/R
E Date: Not reported
Substance: diesel
Unknown: Not reported
Substance #2: Not reported
Substance #3: Not reported
Evacuations: NO
Number of Injuries: NO
Number of Fatalities: NO
#1 Pipeline: Not reported
#2 Pipeline: Not reported
#3 Pipeline: Not reported
#1 Vessel >= 300 Tons: Not reported
#2 Vessel >= 300 Tons: Not reported
#3 Vessel >= 300 Tons: Not reported
Evacs: Not reported
Injuries: Not reported
Fatals: Not reported
Comments: Not reported
Description: while private contractor was refueling a locomotivethere was runoff of substance. unknown if fuel entered drain.

OES Incident Number: 7-3781
OES notification: 09/25/1997
OES Date: Not reported
OES Time: Not reported
Date Completed: Not reported

W.O. RIP TRACK (Continued) **S101624391**

Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Facility Telephone: Not reported
Waterway Involved: No
Waterway: Not reported
Spill Site: Not reported
Cleanup By: Reporting Party
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 1997
Agency: UP Railroad
Incident Date: 9/25/199712:00:00 AM
Admin Agency: City of Oakland Fire Department
Amount: Not reported
Contained: Yes
Site Type: Rail Road
E Date: Not reported
Substance: Sodium Bisulfite
Gallons: 1
Unknown: 0
Substance #2: Not reported
Substance #3: Not reported
Evacuations: 0
Number of Injuries: 0
Number of Fatalities: 0
#1 Pipeline: Not reported
#2 Pipeline: Not reported
#3 Pipeline: Not reported
#1 Vessel >= 300 Tons: Not reported
#2 Vessel >= 300 Tons: Not reported
#3 Vessel >= 300 Tons: Not reported
Evacs: Not reported

W.O. RIP TRACK (Continued) **S101624391**

Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Ruptured safety vent disk allowed substance to be released. Disk has been repaired

HIST CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1414

WDS:

Facility ID:	San Francisco Bay 01I004572
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	2
Facility Telephone:	5038836518
Facility Contact:	WILLIAMS E L
Agency Name:	UNION PACIFIC RAILROAD CO
Agency Address:	1600 Vernon St
Agency City,St,Zip:	Roseville 956783951
Agency Contact:	CHRISTMAS CHRISTINE
Agency Telephone:	6196696712
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or

W.O. RIP TRACK (Continued) **S101624391**

dischargers having waste storage systems with land disposal such as dairy waste ponds.

CERS TANKS:

Site ID:	195196
CERS ID:	T0600101306
CERS Description:	Leaking Underground Storage Tank Cleanup Site

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I32
SW
< 1/8
0.087 mi.
462 ft.

W.O. RIP TRACK
515 BAY ST
OAKLAND, CA 94607

Site 3 of 8 in cluster I

CA HIST UST **U001599234**
N/A

Relative:
Higher
Actual:
13 ft.

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000024512
Facility Type:	Other
Other Type:	RAILYARD
Contact Name:	BAGLEY
Telephone:	4158917628
Owner Name:	SOUTHERN PACIFIC TRANSPORTATIO
Owner Address:	ONE MARKET PLAZA
Owner City,St,Zip:	SAN FRANCISCO, CA 94105
Total Tanks:	0001
Tank Num:	001
Container Num:	1
Year Installed:	1976
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	1/4"
Leak Detection:	Pressure Test

H33
SSE
< 1/8
0.090 mi.
475 ft.

GOSSWOOD HOUSING ASSOCIATION
1751 GOSS
OAKLAND, CA 94607

Site 2 of 2 in cluster H

CA LUST
CA Alameda County CS
CA SWEEPS UST
CA HIST CORTESE
CA CERS

S103890797
N/A

Relative:
Higher
Actual:
14 ft.

LUST:

Lead Agency:	ALAMEDA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100869
Global Id:	T0600100869
Latitude:	37.807965
Longitude:	-122.301524
Status:	Completed - Case Closed
Status Date:	08/11/1993
Case Worker:	Not reported
RB Case Number:	01-0944
Local Agency:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Database

GOSSWOOD HOUSING ASSOCIATION (Continued) **S103890797**

Local Case Number:	RO0000795
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T0600100869
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0600100869
Action Type:	Other
Date:	05/27/1992
Action:	Leak Reported
Global Id:	T0600100869
Action Type:	REMEDIATION
Date:	09/09/9999
Action:	Excavation
Global Id:	T0600100869
Action Type:	ENFORCEMENT
Date:	06/08/1992
Action:	* Historical Enforcement - #UNK

LUST:

Global Id:	T0600100869
Status:	Completed - Case Closed
Status Date:	08/11/1993
Global Id:	T0600100869
Status:	Open - Case Begin Date
Status Date:	05/27/1992

LUST REG 2:

Region:	2
Facility Id:	01-0944
Facility Status:	Case Closed
Case Number:	4180
How Discovered:	Tank Closure
Leak Cause:	Structure Failure
Leak Source:	Tank
Date Leak Confirmed:	6/8/1992
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	1/15/1993
Preliminary Site Assesment Began:	10/27/1992
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported

GOSSWOOD HOUSING ASSOCIATION (Continued) **S103890797**

Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:

Status:	Case Closed
Record Id:	RO0000795
PE:	5602
Facility Status:	Case Closed
Latitude:	37.807591561
Longitude:	-122.30220145

SWEEPS UST:

Status:	Not reported
Comp Number:	13837
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	01-000-013837-000001
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	PETROLEUM
STG:	PRODUCT
Content:	UNKNOWN GASO
Number Of Tanks:	1

HIST CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-0944

CERS TANKS:

Site ID:	243257
CERS ID:	T0600100869
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

E34 **ENE** **< 1/8** **0.091 mi.** **482 ft.**	**JENKINS AUTO WRECKERS** **1778 10TH STREET** **OAKLAND, CA 94607** **Site 3 of 4 in cluster E**	**CA ENVIROSTOR** **CA ENF**	**S102860812** **N/A**

Relative:
Higher

Actual:
14 ft.

ENVIROSTOR:

Facility ID:	1750025
Status:	Inactive - Needs Evaluation
Status Date:	06/22/2010
Site Code:	200869
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0.5
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Tom Price
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.81093
Longitude:	-122.3007
APN:	6-31-38, 6-31-39, 6-31-40, 6-31-41, 6-31-42, 6-31-43, 6-31-44
Past Use:	JUNKYARD
Potential COC:	Under Investigation
Confirmed COC:	31001-NO
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENF:

Region:	2
Facility Id:	233600
Agency Name:	Jenkins Auto Wrecking
Place Type:	Facility
Place Subtype:	Not reported

JENKINS AUTO WRECKERS (Continued) **S102860812**

Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	9999
SIC Desc 1:	Nonclassifiable Establishments
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 019332N01
Reg Measure Id:	162217
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported

JENKINS AUTO WRECKERS (Continued) **S102860812**

Direction/Voice:	Passive
Enforcement Id(EID):	221919
Region:	2
Order / Resolution Number:	R2-1998-0011
Enforcement Action Type:	Admin Civil Liability
Effective Date:	02/18/1998
Adoption/Issuance Date:	02/18/1998
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	Enforcement - 2 019332N01
Description:	ACL-DID NOT KNOW WHAT WAS GOING ON, PROBABLY UNABLE TO COLLECT. This was ACLO for NPDES industrial stormwater permit non-filer--needed permit coverage, but didn't get it. Not reported
Program:	UNREGS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	15000
Initial Assessed Amount:	0
Liability $ Amount:	15000
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

E35	**1014 PINE STREET**	**US BROWNFIELDS**	**1023618464**
NE	**1014 PINE STREET**	**FINDS**	**N/A**
< 1/8	**OAKLAND, CA 94607**		
0.093 mi.			
490 ft.	**Site 4 of 4 in cluster E**		

Relative:
Higher

Actual:
13 ft.

US BROWNFIELDS:

Property Name:	1014 PINE STREET
Recipient Name:	Oakland, City of
Grant Type:	Assessment
Property Number:	Not reported
Parcel size:	.2
Latitude:	37.8112923
Longitude:	-122.3012172
HCM Label:	Not reported
Map Scale:	Not reported
Point of Reference:	Not reported
Highlights:	Not reported
Datum:	Not reported
Acres Property ID:	122023
IC Data Access:	Not reported
Start Date:	Not reported
Redev Completition Date:	Not reported
Completed Date:	Not reported
Acres Cleaned Up:	Not reported
Cleanup Funding:	Not reported
Cleanup Funding Source:	Not reported
Assessment Funding:	Not reported
Assessment Funding Source:	Not reported
Redevelopment Funding:	Not reported

1014 PINE STREET (Continued) **1023618464**

Redev. Funding Source: Not reported
Redev. Funding Entity Name: Not reported
Redevelopment Start Date: Not reported
Assessment Funding Entity: Not reported
Cleanup Funding Entity: Not reported
Grant Type: Hazardous
Accomplishment Type: Not reported
Accomplishment Count: 0
Cooperative Agreement Number: 00T18101
Start Date: Not reported
Ownership Entity: Not reported
Completion Date: Not reported
Current Owner: Not reported
Did Owner Change: N
Cleanup Required: N
Video Available: Not reported
Photo Available: Y
Institutional Controls Required: N
IC Category Proprietary Controls: Not reported
IC Cat. Info. Devices: Not reported
IC Cat. Gov. Controls: Not reported
IC Cat. Enforcement Permit Tools: Not reported
IC in place date: Not reported
IC in place: Not reported
State/tribal program date: Not reported
State/tribal program ID: Not reported
State/tribal NFA date: Not reported
Air contaminated: Not reported
Air cleaned: Not reported
Asbestos found: Not reported
Asbestos cleaned: Not reported
Controled substance found: Not reported
Controled substance cleaned: Not reported
Drinking water affected: Not reported
Drinking water cleaned: Not reported
Groundwater affected: Not reported
Groundwater cleaned: Not reported
Lead contaminant found: Y
Lead cleaned up: Not reported
No media affected: Not reported
Unknown media affected: Not reported
Other cleaned up: Not reported
Other metals found: Not reported
Other metals cleaned: Not reported
Other contaminants found: Not reported
Other contams found description: Not reported
PAHs found: Not reported
PAHs cleaned up: Not reported
PCBs found: Not reported
PCBs cleaned up: Not reported
Petro products found: Y
Petro products cleaned: Not reported
Sediments found: Not reported
Sediments cleaned: Not reported
Soil affected: Y
Soil cleaned up: Not reported
Surface water cleaned: Not reported

1014 PINE STREET (Continued) **1023618464**

VOCs found:	Y
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	.1
Surface Water:	Not reported
Past use commercial acreage:	.1
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
Nickel Cleaned Up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Property Description:	Not reported
Below Poverty Number:	1659
Below Poverty Percent:	35.1%
Meidan Income:	13600
Meidan Income Number:	2653
Meidan Income Percent:	56.1%
Vacant Housing Number:	450
Vacant Housing Percent:	21.2%
Unemployed Number:	364
Unemployed Percent:	7.7%

1014 PINE STREET (Continued) **1023618464**

FINDS:

Registry ID: 110061037854

Environmental Interest/Information System
US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES)
is an federal online database for Brownfields Grantees to
electronically submit data directly to EPA.

Click this hyperlink while viewing on your computer to access
additional FINDS: detail in the EDR Site Report.

J36
South
< 1/8
0.097 mi.
512 ft.

L AND E CLEANERS **EDR Hist Cleaner** **1009140598**
1791 7TH ST **N/A**
OAKLAND, CA

Site 1 of 6 in cluster J

Relative:
Higher

Actual:
13 ft.

EDR Hist Cleaner

Year:	Name:	Type:
1967	L AND E CLEANERS	DRY CLEANERS AND DYERS
1967	L & E CLEANERS	CLEANERS AND DYERS

J37
South
< 1/8
0.098 mi.
518 ft.

SAPATA LEONIDES **EDR Hist Cleaner** **1009140195**
1787 7TH ST **N/A**
OAKLAND, CA

Site 2 of 6 in cluster J

Relative:
Higher

Actual:
13 ft.

EDR Hist Cleaner

Year:	Name:	Type:
1925	SAPATA LEONIDES	CLEANERS DYERS AND PRESSERS

J38
South
< 1/8
0.101 mi.
533 ft.

RAMSAY GRANT **EDR Hist Cleaner** **1009139774**
1777 7TH ST **N/A**
OAKLAND, CA

Site 3 of 6 in cluster J

Relative:
Higher

Actual:
13 ft.

EDR Hist Cleaner

Year:	Name:	Type:
1925	RAMSAY GRANT	CLEANERS DYERS AND PRESSERS

J39
South
< 1/8
0.102 mi.
537 ft.

DAHL SAML
1775 7TH ST
OAKLAND, CA

EDR Hist Auto **1009013438**
N/A

Site 4 of 6 in cluster J

Relative:
Higher

Actual:
13 ft.

EDR Hist Auto

Year:	Name:	Type:
1925	DAHL SAML	AUTOMOBILE REPAIRERS

I40
SW
< 1/8
0.105 mi.
553 ft.

PHOENIX 766 PROPERTY
766 CEDAR STREET
OAKLAND, CA 94607

CA ENVIROSTOR **S102008190**
CA VCP **N/A**
CA HIST CORTESE

Site 4 of 8 in cluster I

Relative:
Higher

Actual:
13 ft.

ENVIROSTOR:
Facility ID: 1330036
Status: Certified
Status Date: 03/05/1998
Site Code: 200349
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 0.3
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Lynn Nakashima
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.80853
Longitude: -122.3045
APN: NONE SPECIFIED
Past Use: UNKNOWN
Potential COC: Arsenic Lead Antimony and compounds Thallium and compounds
Confirmed COC: Thallium and compounds Antimony and compounds Arsenic Lead
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported

PHOENIX 766 PROPERTY (Continued) **S102008190**

Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

VCP:

Facility ID:	1330036
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0.3
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Lynn Nakashima
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Site Code:	200349
Assembly:	18
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified
Status Date:	03/05/1998
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.80853 / -122.3045
APN:	NONE SPECIFIED
Past Use:	UNKNOWN
Potential COC:	30001, 30013, 30058, 30542
Confirmed COC:	30542,30058,30001,30013
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	CALSI
Reg Id:	01330036

J41 **SSE** **< 1/8** **0.105 mi.** **557 ft.**	**CHURCHS FRIED CHICKEN / CALTRANS CYPRESS AREA 2** **1766 7TH STREET** **OAKLAND, CA 94607** **Site 5 of 6 in cluster J**	**CA ENVIROSTOR** **CA LUST** **CA Alameda County CS** **CA VCP** **CA HIST CORTESE** **CA CERS**	**S102008249** **N/A**

Relative:
Higher

Actual:
14 ft.

ENVIROSTOR:

Facility ID:	1540002
Status:	Certified
Status Date:	12/27/2005
Site Code:	200353
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	0.3
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.80726
Longitude:	-122.3026
APN:	6-37-18
Past Use:	RETAIL - SERVICE STATION
Potential COC:	Arsenic Benzene Lead TPH-gas TPH-MOTOR OIL Ethylbenzene Nickel Toluene Xylenes
Confirmed COC:	Toluene TPH-gas Ethylbenzene Nickel Arsenic Benzene Lead TPH-MOTOR OIL Xylenes
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

LUST:

Lead Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Case Type:	LUST Cleanup Site

CHURCHS FRIED CHICKEN / CALTRANS CYPRESS AREA 2 (Continued) **S102008249**

Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T06019710161
Global Id: T06019710161
Latitude: 37.807469
Longitude: -122.302587
Status: Completed - Case Closed
Status Date: 11/04/2010
Case Worker: Not reported
RB Case Number: NA
Local Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: RO0002843
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Diesel, Gasoline
Site History: Completed - Case Closed 8/25/2004 per DTSC’s letter agreeing with CalTrans recommendation for No Further Action. see Site Docs Shaw letter 9/15/2009 has DTSC 8/25/2004 agreement letter attached.

LUST:
Global Id: T06019710161
Action Type: Other
Date: 08/28/1992
Action: Leak Reported

Global Id: T06019710161
Action Type: ENFORCEMENT
Date: 07/03/2008
Action: Technical Correspondence / Assistance / Other - #20080703

Global Id: T06019710161
Action Type: ENFORCEMENT
Date: 07/27/2009
Action: Staff Letter

Global Id: T06019710161
Action Type: ENFORCEMENT
Date: 07/24/2009
Action: Notice of Violation

Global Id: T06019710161
Action Type: REMEDIATION
Date: 06/01/1996
Action: Excavation

Global Id: T06019710161
Action Type: RESPONSE
Date: 08/10/2009
Action: Electronic Reporting Submittal Due

Global Id: T06019710161
Action Type: Other
Date: 08/28/1992
Action: Leak Discovery

LUST:
Global Id: T06019710161
Status: Completed - Case Closed
Status Date: 11/04/2010

CHURCHS FRIED CHICKEN / CALTRANS CYPRESS AREA 2 (Continued) **S102008249**

Global Id:	T06019710161
Status:	Open - Case Begin Date
Status Date:	08/28/1992
Global Id:	T06019710161
Status:	Open - Referred
Status Date:	10/20/1993
Global Id:	T06019710161
Status:	Open - Site Assessment
Status Date:	08/28/1992
Global Id:	T06019710161
Status:	Open - Site Assessment
Status Date:	10/28/2010

Alameda County CS:

Status:	Leak Confirmation
Record Id:	RO0002843
PE:	5602
Facility Status:	Leak Confirmation
Latitude:	Not reported
Longitude:	Not reported
Status:	11
Record Id:	RO0002843
PE:	5602
Facility Status:	Not reported
Latitude:	Not reported
Longitude:	Not reported

VCP:

Facility ID:	1540002
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0.3
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Site Code:	200353
Assembly:	18
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified
Status Date:	12/27/2005
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.80726 / -122.3026
APN:	6-37-18
Past Use:	RETAIL - SERVICE STATION

CHURCHS FRIED CHICKEN / CALTRANS CYPRESS AREA 2 (Continued) **S102008249**

Potential COC:	30001, 30003, 30013, 30025, 3002502, 30272, 30407, 30550, 30593
Confirmed COC:	30550,30025,30272,30407,30001,30003,30013,3002502,30593
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	CALSI
Reg Id:	01540002

CERS TANKS:

Site ID:	206978
CERS ID:	T06019710161
CERS Description:	Leaking Underground Storage Tank Cleanup Site

---

I42
SW
< 1/8
0.110 mi.
579 ft.

LIPS PROPELLERS
1899 7TH STREET
OAKLAND, CA 94607

CA ENVIROSTOR
CA VCP
CA HIST CORTESE

S100938943
N/A

Site 5 of 8 in cluster I

Relative:
Higher

Actual:
13 ft.

ENVIROSTOR:

Facility ID:	1350121
Status:	No Further Action
Status Date:	01/07/2003
Site Code:	200352
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	3.8
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Lynn Nakashima
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Voluntary Cleanup Program

LIPS PROPELLERS (Continued) **S100938943**

Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.80744
Longitude:	-122.3058
APN:	6-55-1
Past Use:	MANUFACTURING - OTHER
Potential COC:	* CONTAMINATED SOIL * WASTE OIL & MIXED OIL Lead
Confirmed COC:	* WASTE OIL & MIXED OIL Lead * CONTAMINATED SOIL
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

VCP:

Facility ID:	1350121
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	3.8
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Lynn Nakashima
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Site Code:	200352
Assembly:	18
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	No Further Action
Status Date:	01/07/2003
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.80744 / -122.3058
APN:	6-55-1
Past Use:	MANUFACTURING - OTHER
Potential COC:	10097, 10199, 30013
Confirmed COC:	10199,30013,10097
Potential Description:	SOIL

LIPS PROPELLERS (Continued) **S100938943**

Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	CALSI
Reg Id:	01350121

J43
South
< 1/8
0.110 mi.
581 ft.

RITCHEY GUS
1753 7TH ST
OAKLAND, CA

Site 6 of 6 in cluster J

EDR Hist Cleaner **1009140194**
N/A

Relative:
Higher

Actual:
13 ft.

EDR Hist Cleaner

Year:	Name:	Type:
1925	RITCHEY GUS	CLEANERS DYERS AND PRESSERS

I44
WSW
< 1/8
0.115 mi.
608 ft.

SOUTHERN PACIFIC TRANSPORTATION COM
1912 7TH ST
OAKLAND, CA 94607

Site 6 of 8 in cluster I

CA LUST
CA Alameda County CS
CA HIST UST
CA HIST CORTESE
CA CERS

S104539362
N/A

Relative:
Higher

Actual:
13 ft.

LUST:

Lead Agency:	ALAMEDA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101295
Global Id:	T0600101295
Latitude:	37.8081661
Longitude:	-122.3067691
Status:	Completed - Case Closed
Status Date:	05/14/1997
Case Worker:	Not reported
RB Case Number:	01-1401
Local Agency:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Database

SOUTHERN PACIFIC TRANSPORTATION COM (Continued) **S104539362**

Local Case Number:	RO0001127
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0600101295
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0600101295
Action Type:	Other
Date:	07/01/1988
Action:	Leak Reported

LUST:

Global Id:	T0600101295
Status:	Completed - Case Closed
Status Date:	05/14/1997
Global Id:	T0600101295
Status:	Open - Case Begin Date
Status Date:	07/01/1988

Alameda County CS:

Status:	Case Closed
Record Id:	RO0001127
PE:	5602
Facility Status:	Case Closed
Latitude:	37.808348086
Longitude:	-122.30758523

HIST UST:

File Number:	00036386
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00036386.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported

SOUTHERN PACIFIC TRANSPORTATION COM (Continued) **S104539362**

Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

HIST CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1401

CERS TANKS:

Site ID:	253771
CERS ID:	T0600101295
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

I45
WSW
< 1/8
0.115 mi.
608 ft.

SOUTHERN PACIFIC TRANSPORT COMPANY
1912 7TH ST
OAKLAND, CA 94607

CA LUST **S105870950**
N/A

Site 7 of 8 in cluster I

Relative:
Higher

Actual:
13 ft.

LUST REG 2:

Region:	2
Facility Id:	01-1401
Facility Status:	Case Closed
Case Number:	3681
How Discovered:	Tank Closure
Leak Cause:	Structure Failure
Leak Source:	Tank
Date Leak Confirmed:	Not reported
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	5/28/1992
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

K46
NE
< 1/8
0.120 mi.
636 ft.

GAINES PROPERTY
1795 11TH STREET
OAKLAND, CA 94607

Site 1 of 10 in cluster K

SEMS-ARCHIVE
CA HIST Cal-Sites
CA CERS

1001212406
CA0002059426

Relative:
Higher

Actual:
13 ft.

SEMS Archive:
Site ID: 0905367
EPA ID: CA0002059426
Cong District: Not reported
FIPS Code: 06001
FF: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information
Latitude: Not reported
Longitude: Not reported

SEMS Archive Detail:
Region: 09
Site ID: 0905367
EPA ID: CA0002059426
Site Name: GAINES PROPERTY
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 2013-11-07 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 09
Site ID: 0905367
EPA ID: CA0002059426
Site Name: GAINES PROPERTY
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: 2002-04-17 04:00:00
Finish Date: 2003-01-29 05:00:00
Qual: H
Current Action Lead: St Perf

Region: 09
Site ID: 0905367
EPA ID: CA0002059426
Site Name: GAINES PROPERTY
NPL: N
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1997-09-25 04:00:00
Finish Date: 1997-09-25 04:00:00

GAINES PROPERTY (Continued) **1001212406**

Qual: Not reported
Current Action Lead: St Perf

Region: 09
Site ID: 0905367
EPA ID: CA0002059426
Site Name: GAINES PROPERTY
NPL: N
FF: N
OU: 00
Action Code: VA
Action Name: OTHR CLEANUP
SEQ: 1
Start Date: Not reported
Finish Date: 2007-03-23 04:00:00
Qual: N
Current Action Lead: St Perf

Calsite:
Region: BERKELEY
Facility ID: 01750030
Facility Type: STATE
Type: STATE FUNDED SITE
Branch: NC
Branch Name: NORTH COAST
File Name: Not reported
State Senate District: 09192003
Status: CERTIFIED AS HAVING BEEN REMEDIED SATISFACTORILY UNDER DTSC OVERSIGHT
Status Name: CERTIFIED
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
NPL: Not Listed
SIC Code: 75
SIC Name: AUTO REPAIR, SERVICES & PARKING
Access: Not reported
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Unknown
Staff Member Responsible for Site: KHILF
Supervisor Responsible for Site: Not reported
Region Water Control Board: SF
Region Water Control Board Name: SAN FRANCISCO BAY
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 16
State Senate District Code: 09
Facility ID: 01750030
Activity: PEA
Activity Name: PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 08311998

GAINES PROPERTY (Continued) **1001212406**

Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01750030
Activity:	RAW
Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	02092003
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01750030
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09192003
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	485
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported

GAINES PROPERTY (Continued) **1001212406**

Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	IN ADDITION TO SOIL REMOVAL, 9 COMPRESSED GAS CYLINDERS AND DRUMS CONTAINING ZINC DUST AND PAINT DEBRIS WERE REMOVED AND DISPOSED AT ANAPPROVED LANDFILL.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01750030
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09192003
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01750030
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	I&SE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	07292002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0

GAINES PROPERTY (Continued) **1001212406**

Facility ID:	01750030
Activity:	FDNC
Activity Name:	FINAL DETERMINATION OF NON-COMPLIANCE
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09202002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	1795 11TH STREET
Alternate City,St,Zip:	OAKLAND, CA 94607
Background Info:	The Gaines Site is a vacant lot located in a mixed residential/ commercial/industrial neighborhood. It has been used to store automobiles, drums, pressurized gas containers and other miscellaneous equipment. Surface samples collected found lead as high as 28,000 parts per million (ppm). No volatile or semivolatile organic compounds were detected at significant levels.
Comments Date:	02092003
Comments:	A Removal Action Workplan was approved in February 2003 which
Comments Date:	02092003
Comments:	required the removal of all soil containing metals above
Comments Date:	02092003
Comments:	residential standards.
Comments Date:	06271997
Comments:	Site Screening prepared under the US EPA Grant indicates that
Comments Date:	06271997
Comments:	further assessment of this Site is needed.
Comments Date:	08012002
Comments:	DTSC issued an Imminent and Substantial Endangerment Order to
Comments Date:	08012002
Comments:	property owner.
Comments Date:	08311998
Comments:	DTSC concluded that further assessment was needed and recommended
Comments Date:	08311998
Comments:	that a site inspection be conducted by the City of Oakland.
Comments Date:	09192003
Comments:	In June and July 2003, DTSC’s remediation contractor conducted a
Comments Date:	09192003
Comments:	Removal Action which consisted of excavation, consolidation and
Comments Date:	09192003
Comments:	offsite disposal of 485 cubic yards of lead-contaminated soil

GAINES PROPERTY (Continued) **1001212406**

Comments Date: 09192003
Comments: and debris to a Class I landfill. In September 2003, DTSC
Comments Date: 09192003
Comments: approved the Completion Report for the Removal Action. DTSC
Comments Date: 09192003
Comments: certified that the property has been cleaned to unrestricted
Comments Date: 09192003
Comments: residential standards.
Comments Date: 09202002
Comments: DTSC determined the property owner to be in non-compliance with
Comments Date: 09202002
Comments: the order.
Comments Date: 11182001
Comments: DTSC staff conducted sampling at the property. Lead was found in
Comments Date: 11182001
Comments: surface soils at concentrations as high as 28,000 milligrams/
Comments Date: 11182001
Comments: kilogram (ppm).
ID Name: CALSTARS CODE
ID Value: 201021
Alternate Name: GAINES PROPERTY
Alternate Name: Not reported
Special Programs Code: Not reported
Special Programs Name: Not reported

CERS TANKS:
Site ID: 337697
CERS ID: 01750030
CERS Description: State Response

Affiliation:
Affiliation Type Desc: Lead Project Manager
Entity Name: PATRICK HSIEH
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: CYPRESS
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Supervisor
Entity Name: Karen Toth
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

K47 **NE** **< 1/8** **0.120 mi.** **636 ft.**	**MODESTO BEE** **1795 11TH ST** **OAKLAND, CA 94607** **Site 2 of 10 in cluster K**	**CA RESPONSE** **CA ENVIROSTOR** **CA HAZNET**	**S112927565** **N/A**

Relative:
Higher

Actual:
13 ft.

RESPONSE:
Facility ID: 1750030
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: 0.11
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Patrick Hsieh
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 201021
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 18
Senate: 09
Special Program Status: Not reported
Status: Certified
Status Date: 09/19/2003
Restricted Use: NO
Funding: Orphan Funds
Latitude: 37.81151
Longitude: -122.3007
APN: 6-31-15
Past Use: JUNKYARD, RECYCLING - SCRAP METAL
Potential COC : Lead
Confirmed COC: Lead
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 1750030
Status: Certified
Status Date: 09/19/2003
Site Code: 201021
Site Type: State Response

MODESTO BEE (Continued) **S112927565**

Site Type Detailed: State Response or NPL
Acres: 0.11
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Patrick Hsieh
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Orphan Funds
Latitude: 37.81151
Longitude: -122.3007
APN: 6-31-15
Past Use: JUNKYARD, RECYCLING - SCRAP METAL
Potential COC: Lead
Confirmed COC: Lead
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HAZNET:
Facility Name: MODESTO BEE
envid: S112927565
Year: 2003
GEPAID: CAC002561281
Contact: MIKE TRAINOR
Telephone: 2095782219
Mailing Name: Not reported
Mailing Address: PO BOX 3928
Mailing City,St,Zip: MODESTO, CA 953523928
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Transfer Station
Tons: 0.3

MODESTO BEE (Continued) **S112927565**

Cat Decode: Not reported
Method Decode: Not reported
Facility County: Alameda

I48
SW
< 1/8
0.121 mi.
638 ft.

SOUTHERN PACIFIC TRANSPORTAIO
1912 007TH ST
OAKLAND, CA 94607

CA SWEEPS UST **S101624395**
CA FID UST **N/A**

Site 8 of 8 in cluster I

Relative:
Higher

Actual:
13 ft.

SWEEPS UST:

Status: Not reported
Comp Number: 24515
Number: Not reported
Board Of Equalization: 44-000293
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-024515-000001
Tank Status: Not reported
Capacity: 2500
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: 3

Status: Not reported
Comp Number: 24515
Number: Not reported
Board Of Equalization: 44-000293
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-024515-000002
Tank Status: Not reported
Capacity: 3000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 24515
Number: Not reported
Board Of Equalization: 44-000293
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-024515-000003
Tank Status: Not reported
Capacity: 2500
Active Date: Not reported
Tank Use: M.V. FUEL

SOUTHERN PACIFIC TRANSPORTAIO (Continued) **S101624395**

STG:	PRODUCT
Content:	DIESEL
Number Of Tanks:	Not reported

CA FID UST:

Facility ID:	01002156
Regulated By:	UTNKI
Regulated ID:	00024515
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4158917728
Mail To:	Not reported
Mailing Address:	1912 007TH ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	OAKLAND 94607
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

L49
SW
1/8-1/4
0.128 mi.
678 ft.

SOUTHERN PACIFIC TRANSP CO
721 CEDAR STREET
OAKLAND, CA 94607

Site 1 of 5 in cluster L

CA HIST UST **U001599222**
N/A

Relative:
Higher

Actual:
13 ft.

HIST UST:

File Number:	00036387
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00036387.pdf
Region:	STATE
Facility ID:	00000024516
Facility Type:	Other
Other Type:	RAILYARD
Contact Name:	C. FORD
Telephone:	4158917710
Owner Name:	SOUTHERN PACIFIC TRANSPORTATIO
Owner Address:	1 MARKET PLAZA
Owner City,St,Zip:	SAN FRANCISCO, CA 94105
Total Tanks:	0001

Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Pressure Test

Click here for Geo Tracker PDF:

L50 **SW** **1/8-1/4** **0.128 mi.** **678 ft.**	**SOUTHERN PACIFIC TRANSP. CO.** **721 CEDAR ST** **OAKLAND, CA 94607** **Site 2 of 5 in cluster L**	**CA LUST** **CA Alameda County CS** **CA SWEEPS UST** **CA FID UST** **CA HIST CORTESE** **CA CERS**	**S101624394** **N/A**

Relative:
Higher

Actual:
13 ft.

LUST:

Lead Agency:	ALAMEDA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101303
Global Id:	T0600101303
Latitude:	37.808337
Longitude:	-122.305592
Status:	Completed - Case Closed
Status Date:	08/05/1996
Case Worker:	Not reported
RB Case Number:	01-1411
Local Agency:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	RO0000754
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0600101303
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0600101303
Action Type:	Other
Date:	01/11/1988
Action:	Leak Reported
Global Id:	T0600101303
Action Type:	REMEDIATION
Date:	09/09/9999
Action:	Excavation

LUST:

Global Id:	T0600101303
Status:	Completed - Case Closed
Status Date:	08/05/1996
Global Id:	T0600101303
Status:	Open - Case Begin Date
Status Date:	01/11/1988

LUST REG 2:

Region: 2

SOUTHERN PACIFIC TRANSP. CO. (Continued) **S101624394**

Facility Id: 01-1411
Facility Status: Case Closed
Case Number: 3706
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 4/7/1992
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Case Closed
Record Id: RO0000754
PE: 5602
Facility Status: Case Closed
Latitude: 37.808803635
Longitude: -122.30555546

SWEEPS UST:
Status: Not reported
Comp Number: 24516
Number: Not reported
Board Of Equalization: 44-000294
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-024516-000001
Tank Status: Not reported
Capacity: 500
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: 1

CA FID UST:
Facility ID: 01001522
Regulated By: UTNKI
Regulated ID: 00024516
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4158917710
Mail To: Not reported
Mailing Address: 721 CEDAR ST
Mailing Address 2: Not reported
Mailing City,St,Zip: OAKLAND 94607
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported

SOUTHERN PACIFIC TRANSP. CO. (Continued) **S101624394**

EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

HIST CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1411

CERS TANKS:

Site ID:	196596
CERS ID:	T0600101303
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

K51	**MORGAN RESIDENCE**	**RCRA-SQG**	**1006930269**
ENE	**1771 11TH STREET**	**CA HAZNET**	**CAR000147827**
1/8-1/4	**OAKLAND, CA 94607**		
0.132 mi.			
696 ft.	**Site 3 of 10 in cluster K**		

Relative:
Higher

Actual:
14 ft.

RCRA-SQG:

Date form received by agency:	09/04/2003
Facility name:	MORGAN RESIDENCE
Facility address:	1771 11TH STREET OAKLAND, CA 94607
EPA ID:	CAR000147827
Mailing address:	1233 21ST STREET OAKLAND, CA 94607
Contact:	TOM H MORGAN
Contact address:	1233 21ST STREET OAKLAND, CA 94607
Contact country:	US
Contact telephone:	510-267-0134
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	TOM MORGAN

MORGAN RESIDENCE (Continued) **1006930269**

Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/28/1986
Owner/Op end date: Not reported

Owner/operator name: TOM MORGAN
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/28/1986
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

HAZNET:
Facility Name: MORGAN RESIDENCE
envid: 1006930269
Year: 2004
GEPAID: CAR000147827
Contact: MORGAN RESIDENCE
Telephone: Not reported
Mailing Name: Not reported
Mailing Address: 1233 21ST STREET
Mailing City,St,Zip: OAKLAND, CA 946070000

MORGAN RESIDENCE (Continued) **1006930269**

Gen County:	Not reported
TSD EPA ID:	CAT080033681
TSD County:	Not reported
Waste Category:	Other inorganic solid waste
Disposal Method:	Disposal, Land Fill
Tons:	0.2
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Alameda

K52
NE
1/8-1/4
0.146 mi.
769 ft.

NAUTICAL ENGINEERING, INC **RCRA-SQG** **1010313100**
1790 - 11TH STREET **CAL000124582**
OAKLAND, CA 94607

Site 4 of 10 in cluster K

Relative:
Higher

Actual:
13 ft.

RCRA-SQG:

Date form received by agency:	02/03/2006
Facility name:	NAUTICAL ENGINEERING, INC
Facility address:	1790 - 11TH STREET OAKLAND, CA 94607
EPA ID:	CAL000124582
Contact:	MARILYN A DRUMMOND
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	510-839-0902
Contact email:	MARILYN@NAUTICALENGINEERING.COM
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NAUTICAL ENGINEERING, INC
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/02/1994
Owner/Op end date:	Not reported
Owner/operator name:	NAUTICAL ENGINEERING
Owner/operator address:	1790 - 11TH STREET OAKLAND, CA 94607
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported

NAUTICAL ENGINEERING, INC (Continued) **1010313100**

Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/02/1994
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	02/03/2006
Site name:	NAUTICAL ENGINEERING, INC
Classification:	Large Quantity Generator
. Waste code:	D001
. Waste name:	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
. Waste code:	D008
. Waste name:	LEAD
Violation Status:	No violations found

K53
NE
1/8-1/4
0.148 mi.
784 ft.

PACIFIC CANNERY LOFTS (PCL)
1111-1199 PINE STREET
OAKLAND, CA

Site 5 of 10 in cluster K

CA CPS-SLIC **S108991963**
CA CERS **N/A**

Relative:
Higher

Actual:
13 ft.

CPS-SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	01/01/2008
Global Id:	SL0600111446
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.8130515825763
Longitude:	-122.300422037829
Case Type:	Cleanup Program Site

PACIFIC CANNERY LOFTS (PCL) (Continued) **S108991963**

Case Worker: MEJ
Local Agency: Not reported
RB Case Number: 01S0556
File Location: Regional Board
Potential Media Affected: Soil
Potential Contaminants of Concern: Heating Oil / Fuel Oil
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

CERS TANKS:
Site ID: 220546
CERS ID: SL0600111446
CERS Description: Cleanup Program Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: MARK JOHNSON - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY STREET, SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

K54 **ADELPHI ALUMINUM CO.** **CA HIST UST** **U001599144**
NE **1111 PINE ST** **N/A**
1/8-1/4 **OAKLAND, CA 94607**
0.148 mi.
784 ft. **Site 6 of 10 in cluster K**

Relative:
Higher

Actual:
13 ft.

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000006111
Facility Type: Other
Other Type: MFG
Contact Name: Not reported
Telephone: 4158393222
Owner Name: ADELPHI ALUMINUM CO.
Owner Address: 1111 PINE ST.
Owner City,St,Zip: OAKLAND, CA 94607
Total Tanks: 0002

Tank Num: 001
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 002
Container Num: 1

ADELPHI ALUMINUM CO. (Continued) **U001599144**

Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	None

K55
NE
1/8-1/4
0.148 mi.
784 ft.

Relative:
Higher

Actual:
13 ft.

BOHELLI WINDOWS
1111 PINE ST
OAKLAND, CA 94607

Site 7 of 10 in cluster K

CA LUST
CA Alameda County CS
CA SWEEPS UST
CA HIST UST
CA FID UST
CA CHMIRS
CA HIST CORTESE
CA CERS

S101580345
N/A

LUST:

Lead Agency:	ALAMEDA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101690
Global Id:	T0600101690
Latitude:	37.811863
Longitude:	-122.3008182
Status:	Completed - Case Closed
Status Date:	05/13/1998
Case Worker:	Not reported
RB Case Number:	01-1824
Local Agency:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	RO0000789
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0600101690
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0600101690
Action Type:	Other
Date:	09/02/1993
Action:	Leak Reported
Global Id:	T0600101690
Action Type:	ENFORCEMENT
Date:	05/13/1998
Action:	Closure/No Further Action Letter
Global Id:	T0600101690
Action Type:	REMEDIATION
Date:	09/30/1993

BOHELLI WINDOWS (Continued) **S101580345**

Action: Excavation

LUST:
Global Id: T0600101690
Status: Completed - Case Closed
Status Date: 05/13/1998

Global Id: T0600101690
Status: Open - Case Begin Date
Status Date: 09/02/1993

LUST REG 2:
Region: 2
Facility Id: 01-1824
Facility Status: Case Closed
Case Number: 247
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: Tank
Date Leak Confirmed: 9/22/1993
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Case Closed
Record Id: RO0000789
PE: 5602
Facility Status: Case Closed
Latitude: 37.81193167
Longitude: -122.30091663

SWEEPS UST:
Status: Not reported
Comp Number: 6111
Number: Not reported
Board Of Equalization: 44-000088
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-006111-000001
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: 2

BOHELLI WINDOWS (Continued) **S101580345**

Status: Not reported
Comp Number: 6111
Number: Not reported
Board Of Equalization: 44-000088
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-006111-000002
Tank Status: Not reported
Capacity: 500
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

HIST UST:
File Number: 00035CD2
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00035CD2.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

CA FID UST:
Facility ID: 01002541
Regulated By: UTNKA
Regulated ID: 00006111
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 1111 PINE ST
Mailing Address 2: Not reported
Mailing City,St,Zip: OAKLAND 94607
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported

BOHELLI WINDOWS (Continued) **S101580345**

NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

CHMIRS:

OES Incident Number:	561
OES notification:	Not reported
OES Date:	12/7/1994
OES Time:	09:18:57 AM
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	YES
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Not reported
Containment:	Not reported
What Happened:	Not reported
Type:	CHEMICAL
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1994
Agency:	oakland fd
Incident Date:	12/07/94 0851
Admin Agency:	Not reported
Amount:	1 qt to .5 gallons
Contained:	NO
Site Type:	RD
E Date:	Not reported
Substance:	muriatic acid
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported

BOHELLI WINDOWS (Continued) **S101580345**

Evacuations:	NO
Number of Injuries:	NO
Number of Fatalities:	NO
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	spilled onto street. noticed by opd.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1824

CERS TANKS:

Site ID:	199501
CERS ID:	T0600101690
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

K56
NE
1/8-1/4
0.152 mi.
804 ft.

MORGAN MARINE INC
1776 11TH ST INSIDE BLDG
OAKLAND, CA 94607

RCRA-SQG **1000345679**
CAD099955387

Site 8 of 10 in cluster K

Relative:
Higher

Actual:
14 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	MORGAN MARINE INC
Facility address:	1776 11TH ST INSIDE BLDG OAKLAND, CA 94607
EPA ID:	CAD099955387
Mailing address:	1776 ELEVEN ST OAKLAND, CA 94607
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported

MORGAN MARINE INC (Continued) **1000345679**

Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	THOMAS & ROSEMARY MORGAN
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	08/01/1990
Site name:	MORGAN MARINE INC

MORGAN MARINE INC (Continued) **1000345679**

Classification: Large Quantity Generator

Violation Status: No violations found

K57
NE
1/8-1/4
0.152 mi.
804 ft.

MARITIME ADMINISTRATION
1776 11TH STREET
OAKLAND, CA 94601

NY MANIFEST **1009219036**
N/A

Site 9 of 10 in cluster K

Relative:
Higher

Actual:
14 ft.

NY MANIFEST:
Country: USA
EPA ID: CAP982452716
Facility Status: Not reported
Location Address 1: 1776 11TH STREET
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: OAKLAND
Location State: CA
Location Zip: 94601
Location Zip 4: Not reported

NY MANIFEST:
EPAID: CAP982452716
Mailing Name: MARITIME ADMINISTRATION
Mailing Contact: MARITIME ADMINISTRATION
Mailing Address 1: 211 MAIN STREET ROOM 1112
Mailing Address 2: Not reported
Mailing City: SAN FRANCISCO
Mailing State: CA
Mailing Zip: 94105
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 4157442560

NY MANIFEST:
Document ID: NYB4716603
Manifest Status: K
seq: Not reported
Year: 1992
Trans1 State ID: 10222PNY
Trans2 State ID: Not reported
Generator Ship Date: 08/11/1992
Trans1 Recv Date: 08/11/1992
Trans2 Recv Date: / /
TSD Site Recv Date: 09/01/1992
Part A Recv Date: / /
Part B Recv Date: 09/15/1992
Generator EPA ID: CAP982452716
Trans1 EPA ID: NYD980769947
Trans2 EPA ID: Not reported
TSDF ID 1: NYD000632372
TSDF ID 2: Not reported
Manifest Tracking Number: Not reported
Import Indicator: Not reported
Export Indicator: Not reported
Discr Quantity Indicator: Not reported
Discr Type Indicator: Not reported

MARITIME ADMINISTRATION (Continued) **1009219036**

Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00044
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

K58 **MORGAN CHEMICAL INC** **RCRA-SQG** **1000232678**
NE **1776 11TH ST OUTDOOR STRG YARD** **FINDS** **CAD982413163**
1/8-1/4 **OAKLAND, CA 94607** **ECHO**
0.152 mi.
804 ft. **Site 10 of 10 in cluster K**

Relative:
Higher

Actual:
14 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	MORGAN CHEMICAL INC
Facility address:	1776 11TH ST OUTDOOR STRG YARD OAKLAND, CA 94607
EPA ID:	CAD982413163
Mailing address:	1776 ELEVEN STREET OAKLAND, CA 94607
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	ROSEMARY & THOMAS MORGAN
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported

MORGAN CHEMICAL INC (Continued) **1000232678**

Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 08/10/1990
Site name: MORGAN CHEMICAL INC
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002807730

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MORGAN CHEMICAL INC (Continued) **1000232678**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000232678
Registry ID:	110002807730
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002807730

M59
NNW
1/8-1/4
0.161 mi.
849 ft.

OAKLAND GATEWAY DEVELOPMENT AREA
700 MURMANSK STREET, SUITE 3
OAKLAND, CA 94607

Site 1 of 9 in cluster M

CA RESPONSE
CA ENVIROSTOR
CA HIST Cal-Sites
CA DEED

S106568695
N/A

Relative:
Lower

Actual:
11 ft.

AWP:

AWP Facility ID:	01970016
Region Code:	2
Region:	BERKELEY
SMBR Branch Code:	NO
SMBR Branch Unit:	OMF-NORTHERN CALIF
Site Name.:	OAKLAND GATEWAY DEVELOPMENT AREA
Current Status Date:	07142004
Current Status:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency Code:	DTSC
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type:	Closed military facility
Awp Site Type:	CLOSED MILITARY BASE
NPL:	Not Listed
Tier Of AWP Site:	Not reported
Source Of Funding:	Not reported
Responsible Staff Member:	HWONG
Supervisor Responsible:	Not reported
SIC Code:	97
Facility SIC:	NATIONAL SECURITY/INTERNATIONAL AFFAIRS
RWQCB Code:	Not reported
RWQCB Associated With Site:	Not reported
Site Access Controlled:	Not reported
Site Listed HWS List:	Not reported
Hazard Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Confirmed
# Of Contamination Sources:	0
Lat/Long:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Description Of Entity:	Not reported
State Assembly Distt Code:	16
State Senate District:	09

RESPONSE:

Facility ID:	1970016
Site Type:	State Response
Site Type Detail:	Closed Base
Acres:	363.5
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP

OAKLAND GATEWAY DEVELOPMENT AREA (Continued) **S106568695**

Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Henry Wong
Supervisor: Daniel Murphy
Division Branch: Cleanup Berkeley
Site Code: 202116
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 18
Senate: 09
Special Program Status: Not reported
Status: Active
Status Date: 07/14/2004
Restricted Use: YES
Funding: BRAC 95
Latitude: 37.81033
Longitude: -122.3120
APN: NONE SPECIFIED
Past Use: BATTERY STORAGE, DEGREASING FACILITY, DISTRIBUTOR - CHEMICAL, DRY CLEANING, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, FUEL - VEHICLE STORAGE/ REFUELING, FUEL HYDRANT PUMPING STATIONS, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, ILLEGAL DUMPING, MACHINE SHOP, OIL/WATER SEPARATORS, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, RAIL ROAD MAINTENANCE SHOP, RECYCLING - DRUM, RECYCLING - OTHER, RECYCLING - SCRAP METAL, RECYCLING - USED OIL , SHIPYARD - TERMINAL, VEHICLE MAINTENANCE, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, ILLEGAL DUMPING, UNKNOWN, TRANSPORTATION - WAREHOUSING, TRANSFER STATION, MACHINE SHOP, OIL/WATER SEPARATORS, UNDERGROUND STORAGE TANKS, TRANSPORTATION - WAREHOUSING, FUEL - VEHICLE STORAGE/ REFUELING, FOUNDRY, ILLEGAL DUMPING, LANDFILL - HAZARDOUS WASTE, MANUFACTURED GAS PLANT, OIL FIELD, UNKNOWN, PORT, TRANSPORTATION - PIPELINE, RAILROAD RIGHT OF WAY, LDF, MANUFACTURING - INDUSTRIAL MACHINERY, MANUFACTURING - OTHER, PORT, SHIPYARD - SHIP BUILDING/REPAIR, UNKNOWN, OFFICE BUILDING, RECREATION SERVICES, UTILITY - ELECTRIC, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, UNDERGROUND STORAGE TANKS, DISTRIBUTOR - CHEMICAL, TRANSFER STATION, MACHINE SHOP, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, UNKNOWN, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, FUEL - VEHICLE STORAGE/ REFUELING, FUEL TERMINALS, TRANSFER STATION, RAIL ROAD MAINTENANCE SHOP, RAILROAD RIGHT OF WAY, UNKNOWN, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING
Potential COC : Acid Mine Drainage (pH <6.5 Dioxin (as 2,3,7,8-TCDD TEQ Lead Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas TPH-MOTOR OIL Arsenic Benzene Chlordane DDD DDE DDT Endrin Tetrachloroethylene (PCE Toxaphene 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride Dieldrin Mercury (elemental TPH-JET FUEL Copper and compounds Mercury and compounds Selenium Zinc Asbestos Containing Materials (ACM Cadmium and compounds Methyl tertbutyl ether (MTBE Ethylbenzene Toluene Xylenes Polynuclear aromatic hydrocarbons (PAHs Benzo[a]pyrene 1,2-Dichloroethylene (cis 1,2-Dichloroethylene (trans Under Investigation
Confirmed COC: Arsenic Benzene Chlordane DDD DDE DDT Endrin Lead TPH-diesel TPH-gas 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride TPH-MOTOR OIL 1,2-Dichloroethylene (cis 1,2-Dichloroethylene (trans Polychlorinated biphenyls (PCBs Methyl tertbutyl ether (MTBE Ethylbenzene Xylenes Toluene Acid Mine Drainage (pH <6.5 Polynuclear aromatic hydrocarbons (PAHs Dioxin (as 2,3,7,8-TCDD TEQ Mercury (elemental Selenium Mercury and compounds Copper and compounds Zinc

OAKLAND GATEWAY DEVELOPMENT AREA (Continued) **S106568695**

30001-NO 30004-NO 30006-NO 30007-NO 30008-NO 30009-NO 30010-NO 30014-NO 30019-NO 30025-NO 3002501-NO Asbestos Containing Materials (ACM Cadmium and compounds Polynuclear aromatic hydrocarbons (PAHs Benzo[a]pyrene Under Investigation
Potential Description: OTH, SED, SOIL, IA, OTH, SV, OTH, SOIL, SV, IA, OTH, SV, OTH, SOIL, SED, SOIL, SURFW, OTH, SOIL, OTH, SOIL, CSS, SOIL, SOIL, SOIL, CSS, OTH, SOIL, OTH, SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 1970016
Status: Active
Status Date: 07/14/2004
Site Code: 202116
Site Type: State Response
Site Type Detailed: Closed Base
Acres: 363.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Henry Wong
Supervisor: Daniel Murphy
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Not reported
Restricted Use: YES
Site Mgmt Req: NONE SPECIFIED
Funding: BRAC 95
Latitude: 37.81033
Longitude: -122.3120
APN: NONE SPECIFIED
Past Use: BATTERY STORAGE, DEGREASING FACILITY, DISTRIBUTOR - CHEMICAL, DRY CLEANING, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, FUEL - VEHICLE STORAGE/ REFUELING, FUEL HYDRANT PUMPING STATIONS, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, ILLEGAL DUMPING, MACHINE SHOP, OIL/WATER SEPARATORS, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, RAIL ROAD MAINTENANCE SHOP, RECYCLING - DRUM, RECYCLING - OTHER, RECYCLING - SCRAP METAL, RECYCLING - USED OIL , SHIPYARD -

OAKLAND GATEWAY DEVELOPMENT AREA (Continued) **S106568695**

TERMINAL, VEHICLE MAINTENANCE, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, ILLEGAL DUMPING, UNKNOWN, TRANSPORTATION - WAREHOUSING, TRANSFER STATION, MACHINE SHOP, OIL/WATER SEPARATORS, UNDERGROUND STORAGE TANKS, TRANSPORTATION - WAREHOUSING, FUEL - VEHICLE STORAGE/ REFUELING, FOUNDRY, ILLEGAL DUMPING, LANDFILL - HAZARDOUS WASTE, MANUFACTURED GAS PLANT, OIL FIELD, UNKNOWN, PORT, TRANSPORTATION - PIPELINE, RAILROAD RIGHT OF WAY, LDF, MANUFACTURING - INDUSTRIAL MACHINERY, MANUFACTURING - OTHER, PORT, SHIPYARD - SHIP BUILDING/REPAIR, UNKNOWN, OFFICE BUILDING, RECREATION SERVICES, UTILITY - ELECTRIC, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, UNDERGROUND STORAGE TANKS, DISTRIBUTOR - CHEMICAL, TRANSFER STATION, MACHINE SHOP, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, UNKNOWN, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, FUEL - VEHICLE STORAGE/ REFUELING, FUEL TERMINALS, TRANSFER STATION, RAIL ROAD MAINTENANCE SHOP, RAILROAD RIGHT OF WAY, UNKNOWN, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING

Potential COC: Acid Mine Drainage (pH <6.5 Dioxin (as 2,3,7,8-TCDD TEQ Lead Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas TPH-MOTOR OIL Arsenic Benzene Chlordane DDD DDE DDT Endrin Lead Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs Tetrachloroethylene (PCE Toxaphene TPH-diesel TPH-gas TPH-MOTOR OIL 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride Dieldrin Arsenic Benzene Chlordane DDD DDE DDT Endrin Lead TPH-diesel TPH-gas TPH-MOTOR OIL 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride Arsenic DDD DDE DDT Endrin Lead Mercury (elemental Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas TPH-JET FUEL TPH-MOTOR OIL Copper and compounds Mercury and compounds Selenium Zinc Arsenic Lead Polychlorinated biphenyls (PCBs TPH-diesel TPH-gas TPH-MOTOR OIL 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride Arsenic Asbestos Containing Materials (ACM Chlordane DDD DDE DDT Dioxin (as 2,3,7,8-TCDD TEQ Endrin Lead Mercury (elemental Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas TPH-JET FUEL TPH-MOTOR OIL Arsenic Asbestos Containing Materials (ACM Lead Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas TPH-JET FUEL TPH-MOTOR OIL Cadmium and compounds Copper and compounds Mercury and compounds Zinc Benzene Methyl tertbutyl ether (MTBE TPH-diesel TPH-gas TPH-MOTOR OIL Ethylbenzene Toluene Xylenes Polychlorinated biphenyls (PCBs Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas TPH-MOTOR OIL Polynuclear aromatic hydrocarbons (PAHs Benzo[a]pyrene Trichloroethylene (TCE Vinyl chloride 1,2-Dichloroethylene (cis 1,2-Dichloroethylene (trans Under Investigation Arsenic Lead Mercury (elemental Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas TPH-MOTOR OIL

Confirmed COC: Arsenic Benzene Chlordane DDD DDE DDT Endrin Lead TPH-diesel TPH-gas 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride TPH-MOTOR OIL Trichloroethylene (TCE Vinyl chloride 1,2-Dichloroethylene (cis 1,2-Dichloroethylene (trans Arsenic TPH-diesel TPH-gas 1,1,1-Trichloroethane (TCA TPH-MOTOR OIL Polychlorinated biphenyls (PCBs Trichloroethylene (TCE Vinyl chloride Lead Benzene Methyl tertbutyl ether (MTBE Ethylbenzene Xylenes TPH-diesel TPH-gas Toluene TPH-MOTOR OIL Acid Mine Drainage (pH <6.5 Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas TPH-MOTOR OIL Polychlorinated biphenyls (PCBs Lead Dioxin (as 2,3,7,8-TCDD TEQ DDD DDE DDT Endrin Lead Mercury (elemental Polynuclear aromatic

OAKLAND GATEWAY DEVELOPMENT AREA (Continued) **S106568695**

hydrocarbons (PAHs Selenium Mercury and compounds Copper and compounds Zinc Polychlorinated biphenyls (PCBs 30001-NO 30004-NO 30006-NO 30007-NO 30008-NO 30009-NO 30010-NO Lead 30014-NO 30019-NO TPH-diesel 30025-NO 3002501-NO TPH-MOTOR OIL Asbestos Containing Materials (ACM Polychlorinated biphenyls (PCBs Arsenic Lead Polynuclear aromatic hydrocarbons (PAHs TPH-diesel 30025-NO Mercury and compounds Cadmium and compounds Copper and compounds Zinc 3002501-NO TPH-MOTOR OIL Asbestos Containing Materials (ACM Polychlorinated biphenyls (PCBs Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas Polynuclear aromatic hydrocarbons (PAHs TPH-MOTOR OIL Benzo[a]pyrene Arsenic Lead Mercury (elemental Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas TPH-MOTOR OIL Under Investigation Polychlorinated biphenyls (PCBs

Potential Description:	OTH, SED, SOIL, IA, OTH, SV, OTH, SOIL, SV, IA, OTH, SV, OTH, SOIL, SED, SOIL, SURFW, OTH, SOIL, OTH, SOIL, CSS, SOIL, SOIL, SOIL, CSS, OTH, SOIL, OTH, SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Calsite:

Region:	BERKELEY
Facility ID:	01970016
Facility Type:	CLOSE
Type:	CLOSED MILITARY BASE
Branch:	NO
Branch Name:	OMF-NORTHERN CALIF
File Name:	OAKLAND GATEWAY DEVELOPMENT AREA
State Senate District:	07142004
Status:	ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
NPL:	Not Listed
SIC Code:	97
SIC Name:	NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Access:	Not reported
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Confirmed

OAKLAND GATEWAY DEVELOPMENT AREA (Continued) **S106568695**

Staff Member Responsible for Site: HWONG
Supervisor Responsible for Site: Not reported
Region Water Control Board: Not reported
Region Water Control Board Name: Not reported
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 16
State Senate District Code: 09
Facility ID: 01970016
Activity: RMDL
Activity Name: REMEDIAL ACTION (RAP REQUIRED)
AWP Code: RMP
Proposed Budget: 0
AWP Completion Date: 06302013
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: DES
Activity Name: DESIGN
AWP Code: RMP
Proposed Budget: 0
AWP Completion Date: 06302013
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0

OAKLAND GATEWAY DEVELOPMENT AREA (Continued) **S106568695**

Unknown Type: 0
Facility ID: 01970016
Activity: RMDL
Activity Name: REMEDIAL ACTION (RAP REQUIRED)
AWP Code: US11A
Proposed Budget: 0
AWP Completion Date: 06302007
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: RMDL
Activity Name: REMEDIAL ACTION (RAP REQUIRED)
AWP Code: B99GW
Proposed Budget: 0
AWP Completion Date: 06302007
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: RMDL
Activity Name: REMEDIAL ACTION (RAP REQUIRED)
AWP Code: B808
Proposed Budget: 0
AWP Completion Date: 06302007
Revised Due Date: Not reported
Comments Date: Not reported

OAKLAND GATEWAY DEVELOPMENT AREA (Continued) **S106568695**

Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: RMDL
Activity Name: REMEDIAL ACTION (RAP REQUIRED)
AWP Code: B99SO
Proposed Budget: 0
AWP Completion Date: 06302007
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: DES
Activity Name: DESIGN
AWP Code: B807
Proposed Budget: 0
AWP Completion Date: 06302006
Revised Due Date: Not reported
Comments Date: 06062005
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported

OAKLAND GATEWAY DEVELOPMENT AREA (Continued) **S106568695**

Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: DES
Activity Name: DESIGN
AWP Code: B808
Proposed Budget: 0
AWP Completion Date: 06302006
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: DES
Activity Name: DESIGN
AWP Code: B991
Proposed Budget: 0
AWP Completion Date: 08152005
Revised Due Date: 08152005
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: DES

OAKLAND GATEWAY DEVELOPMENT AREA (Continued) **S106568695**

Activity Name: DESIGN
AWP Code: B99SO
Proposed Budget: 0
AWP Completion Date: 09302006
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: DES
Activity Name: DESIGN
AWP Code: B1
Proposed Budget: 0
AWP Completion Date: 06302005
Revised Due Date: Not reported
Comments Date: 03302005
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: CERT
Activity Name: CERTIFICATION
AWP Code: BSWD
Proposed Budget: 0
AWP Completion Date: 06302014
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported

OAKLAND GATEWAY DEVELOPMENT AREA (Continued) **S106568695**

Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Alternate Address: 700 MURMANSK STREET, SUITE 3
Alternate City,St,Zip: OAKLAND, CA 94607
Background Info: ase which wil be redeveloped by the City of Oakland with a variety of commercial and industrial uses as part of the Gateway Development Area. Also, close to 185 acres (plus roughly 56 acres of submerged lands) will be developed by the Port of Oakland for maritime, rail and other port activities as part of the Port Development Area. No residential uses will be allowed on the former Oakland Army Base property under the Amended Reuse Plan. The Amended Reuse Plan, draft RAP, and draft RMP are analyzed in the former Oakland Army Base Area Redevelopment Environmental Impact Report pursuant to the California Environmental Quality Act. The Army has been conducting site environmental investigations and selected remedial actions since 1989. DTSC is the primary agency overseeing the investigation and cleanup of the former Oakland Army Base, and the Regional Water Qulaity Control Board, San Francisico Bay Region regulates the removal and closure of petroleum fuel tanks. The Army’s remedial activities have included removal of above ground petroleum storage tanks (ASTs) and underground petroleum storage tanks (USTs), excavation of contaminated soil and removed petroleum hydrocarbons from monitoring wells at former tank locations, excavation of pesticide-containing soil from the off-site wetlands area, and replacement of many transformers and electrical equipment containing polychlorinated biphenyls (PCBs).
On August 6, 2003, Governor Davis approved Early Transfer of the former Oakland Army Base to the City of Oakland. The U.S. Army requested that the State of California approve the deferral of remediation of hazardous substance contamination and approve the transfer of the 363.5 acre base to the Oakland Base Reuse Author- ity and the City of Oakland acting by and through the Oakland Redevelopment Agency via an Economic Development Conveyance process. The City of Oakland will begin remediation of hazardous substances in soil and groundwater as required in the Remedial Action Play (RAP). The early transfer advances economic development for Oakland and the region by integrating redevelopment with remediation. The RAP identifies preferred alternatives at seven sites which have been fully investigated and characterized for release of hazardous substances and for which remediation would proceed upon final approval of the RAP. The Risk Management Plan (RMP), which is an appendix to the RAP, addresses all other areas of known or potential contamination, which may not yet have been fully investigated or characterized. The RMP specifies health protective measures that must be follwed during and after redevelopment at these locations. The RMP includes protocols for conducting inspections,

OAKLAND GATEWAY DEVELOPMENT AREA (Continued) **S106568695**

performing routine sampling, maintaining institutional and engineering controls, elevating RMP location to RAP sites as appropriate, and fulfilling reporting obligations. The former Oakland Army Base comprises of approximately 425 acres. Much of the base property was originally tidal flats or shallow open water. During the first half of 1900s, the area was filled to create the land subsequently acquired by the Army 1941. The former Oakland Army Base served as a major Army cargo port and warehousing facility from 1941 until it was closed under the Base Realignment and Closure program on September 30, 1999. Army activities supported the former Oakland Army Base's primary military mission as a distribution center and included maintaining and fueling railroad locomotive engines and trucks that transported cargo, draining fluids from vehicles for overseas shipment, and repairing and servicing vehicles equipment, and base facilities. The Amended Draft final Reuse Plan for the Oakland Army Base, Dated July 23, 2001 (Amended Reuse Plan), incoudes about 189 acres of the former Oakland Army B

Comments Date: 03302005
Comments: DTSC accepted the PDIM.
Comments Date: 04272005
Comments: DTSC approved the PDIM for Bldg 99 Soil.
Comments Date: 06062005
Comments: DTSC approved the PDIM for Bldg 991.
ID Name: CALSTARS CODE
ID Value: 201537
Alternate Name: EDC Area
Alternate Name: FORMER OAKLAND ARMY BASE
Alternate Name: Oakland Gateway Development Area
Alternate Name: Oakland Army Base-Economic Development C
Alternate Name: Oakland Army Base-Early Transfer
Alternate Name: Not reported
Special Programs Code: Not reported
Special Programs Name: Not reported

DEED:
Envirostor ID: 1970016
Area: BASEWIDE
Sub Area: Not reported
Site Type: STATE RESPONSE
Status: ACTIVE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 08/08/2003
File Name: Envirostor Land Use Restrictions

M60 **OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 684** **CA UST** **U004267034**
NNW **10TH STREET** **N/A**
1/8-1/4 **OAKLAND, CA 94607**
0.165 mi.
871 ft. **Site 2 of 9 in cluster M**

Relative:
Lower

Actual:
11 ft.

MILITARY UST SITES:
Global ID: T0600145330
Case Type: Military UST Site
Status: Completed - Case Closed
Status Date: 11/01/2013
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)

OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 684 (Continued) **U004267034**

Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	T0600182530
Loc Case Number:	Not reported
File Location:	Regional Board
Potential Contaminants of Concern:	Heating Oil / Fuel Oil
Potential Media Affected:	Other Groundwater (uses other than drinking water), Soil
Site History:	Heating oil tank associated with former Building 684. No indications of contamination - case closed.
Begin Date:	1999-09-09 00:00:00
How Discovered:	Other Means
How Discovered Description:	The Army conducted an investigation of the suspected UST locations identified by the Port during its Phase II Investigation activities in 2002 (IT Corporation,2002)
Stop Method:	Not reported
Stop Description:	Not reported
Latitude:	37.81249
Longitude:	-122.305327
Geotracker:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600145330

M61 **OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 684** **CA CERS TANKS** **S121753507**
NNW **10TH STREET** **CA CERS** **N/A**
1/8-1/4 **OAKLAND, CA 94607**
0.165 mi.
871 ft. **Site 3 of 9 in cluster M**

Relative: **Lower**
Actual: **11 ft.**

CERS TANKS:

Site ID:	231750
CERS ID:	T0600145330
CERS Description:	Military Underground Storage Tank Site

M62 **OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 688** **CA CERS TANKS** **S121752488**
NNW **10TH STREET** **CA CERS** **N/A**
1/8-1/4 **OAKLAND, CA 94607**
0.166 mi.
877 ft. **Site 4 of 9 in cluster M**

Relative: **Lower**
Actual: **11 ft.**

CERS TANKS:

Site ID:	214864
CERS ID:	T0600196444
CERS Description:	Military Underground Storage Tank Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	MARGARETE BETH - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 Clay Street, 14th Floor
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	5106222338

M63 **OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 688** **CA UST** **U004267091**
NNW **10TH STREET** **N/A**
1/8-1/4 **OAKLAND, CA 94607**
0.166 mi.
877 ft. **Site 5 of 9 in cluster M**

Relative:
Lower

Actual:
11 ft.

MILITARY UST SITES:
Global ID: T0600196444
Case Type: Military UST Site
Status: Completed - Case Closed
Status Date: 10/17/2007
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker: MB
Local Agency: Not reported
RB Case Number: T06001822530
Loc Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Heating Oil / Fuel Oil
Potential Media Affected: Other Groundwater (uses other than drinking water)
Site History: Closure letter same as site UST 673
Begin Date: 1999-09-09 00:00:00
How Discovered: Other Means
How Discovered Description: The Army conducted an investigation of the suspected UST locations identified by the Port during its Phase II Investigation activities in 2002 (IT Corporation,2002)
Stop Method: Not reported
Stop Description: Not reported
Latitude: 37.81235
Longitude: -122.305531
Geotracker: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600196444

---

64 **ALL-WEATHER ARCH. ALUM. INC.** **CA SWEEPS UST** **S101624409**
WSW **1851 005TH ST** **CA FID UST** **N/A**
1/8-1/4 **OAKLAND, CA 94608**
0.172 mi.
909 ft.

Relative:
Higher

Actual:
13 ft.

SWEEPS UST:
Status: Not reported
Comp Number: 68557
Number: Not reported
Board Of Equalization: 44-000772
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-068557-000001
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 2

Status: Not reported
Comp Number: 68557
Number: Not reported
Board Of Equalization: 44-000772

ALL-WEATHER ARCH. ALUM. INC. (Continued) **S101624409**

Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-068557-000002
Tank Status: Not reported
Capacity: 2000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 01002279
Regulated By: UTNKI
Regulated ID: 00068557
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4158325042
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: OAKLAND 94608
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

L65
SW
1/8-1/4
0.173 mi.
916 ft.

Relative:
Lower

Actual:
12 ft.

ALL WEATHER DOOR
1851 5TH ST
OAKLAND, CA 94607

Site 3 of 5 in cluster L

CA ENVIROSTOR
CA LUST
CA Alameda County CS
CA VCP
CA CHMIRS
CA HIST CORTESE
CA CERS

S102423862
N/A

ENVIROSTOR:
Facility ID: 1990013
Status: Inactive - Needs Evaluation
Status Date: 09/03/2010
Site Code: 200469
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 1.11
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Voluntary Cleanup Program

ALL WEATHER DOOR (Continued) **S102423862**

Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.80681
Longitude:	-122.3064
APN:	006-0055-004-00
Past Use:	RETAIL - SERVICE STATION
Potential COC:	TPH-gas TPH-MOTOR OIL
Confirmed COC:	TPH-gas TPH-MOTOR OIL
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

LUST:

Lead Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101584
Global Id:	T0600101584
Latitude:	37.80715
Longitude:	-122.304878
Status:	Open - Site Assessment
Status Date:	07/29/2010
Case Worker:	MP
RB Case Number:	01-1713
Local Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	RO0000192
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0600101584
Action Type:	Other
Date:	06/21/1988
Action:	Leak Reported

Global Id:	T0600101584
Action Type:	ENFORCEMENT
Date:	07/03/2008
Action:	Staff Letter - #20080703

ALL WEATHER DOOR (Continued) **S102423862**

Global Id: T0600101584
Action Type: ENFORCEMENT
Date: 07/24/2009
Action: Notice of Violation - #20090724

Global Id: T0600101584
Action Type: ENFORCEMENT
Date: 07/24/2009
Action: Staff Letter - #20090724

Global Id: T0600101584
Action Type: RESPONSE
Date: 08/10/2009
Action: Electronic Reporting Submittal Due

Global Id: T0600101584
Action Type: RESPONSE
Date: 07/28/2008
Action: Soil and Water Investigation Workplan

Global Id: T0600101584
Action Type: Other
Date: 06/21/1988
Action: Leak Discovery

Global Id: T0600101584
Action Type: ENFORCEMENT
Date: 05/29/2008
Action: Staff Letter - #20080529

LUST:
Global Id: T0600101584
Status: Open - Case Begin Date
Status Date: 06/21/1988

Global Id: T0600101584
Status: Open - Referred
Status Date: 05/10/1994

Global Id: T0600101584
Status: Open - Site Assessment
Status Date: 06/21/1988

Global Id: T0600101584
Status: Open - Site Assessment
Status Date: 06/22/1992

Global Id: T0600101584
Status: Open - Site Assessment
Status Date: 07/29/2010

LUST REG 2:
Region: 2
Facility Id: 01-1713
Facility Status: Preliminary site assessment underway

ALL WEATHER DOOR (Continued) **S102423862**

Case Number:	3795
How Discovered:	Tank Closure
Leak Cause:	UNK
Leak Source:	Tank
Date Leak Confirmed:	3/25/1992
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	1/2/1965
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

Alameda County CS:

Status:	Leak Confirmation
Record Id:	RO0000192
PE:	5602
Facility Status:	Leak Confirmation
Latitude:	37.806847111
Longitude:	-122.30606134

Status:	11
Record Id:	RO0000192
PE:	5602
Facility Status:	Not reported
Latitude:	37.806847111
Longitude:	-122.30606134

Status:	Preliminary Site Assessment Underway
Record Id:	RO0000192
PE:	5602
Facility Status:	Preliminary Site Assessment Underway
Latitude:	37.806847111
Longitude:	-122.30606134

VCP:

Facility ID:	1990013
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1.11
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	200469
Assembly:	18
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Inactive - Needs Evaluation
Status Date:	09/03/2010
Restricted Use:	NO
Funding:	Responsible Party

ALL WEATHER DOOR (Continued) **S102423862**

Lat/Long:	37.80681 / -122.3064
APN:	006-0055-004-00
Past Use:	RETAIL - SERVICE STATION
Potential COC:	30025, 3002502
Confirmed COC:	30025,3002502
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

CHMIRS:

OES Incident Number:	1-2794
OES notification:	05/05/2011
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No

ALL WEATHER DOOR (Continued) **S102423862**

Waterway:	Not reported
Spill Site:	Rail Road
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	N/A
Other:	Not reported
Date/Time:	1246
Year:	2011
Agency:	UPRR
Incident Date:	5/5/2011
Admin Agency:	City of Oakland Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Train Derailment
Quantity Released:	N/A
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Caller states train YOA78 of the 5th derailed 6 railcars upright, Caller states cars are caring autos. Caller states derailment occurred inside the West Oakland Railyard. Caller states contractor to arrive at 1800 Hrs to begin re-railment.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1713

CERS TANKS:

Site ID:	245818
CERS ID:	T0600101584
CERS Description:	Leaking Underground Storage Tank Cleanup Site

L66 **SW** **1/8-1/4** **0.173 mi.** **916 ft.**	**ALL-WEATHER ARCH ALUM INC** **1851 5TH STREET** **OAKLAND, CA 94608** **Site 4 of 5 in cluster L**	**CA HIST UST** **CA CHMIRS**	**U001599252** **N/A**

Relative:
Lower

Actual:
12 ft.

HIST UST:

File Number:	0003626C
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0003626C.pdf
Region:	STATE
Facility ID:	00000068557
Facility Type:	Other
Other Type:	MFG. PLANT
Contact Name:	HOWARD SODERBERG
Telephone:	4158325042
Owner Name:	PORTER TRUST (LANCE PORTER)
Owner Address:	909 ALDRIDGE ROAD
Owner City,St,Zip:	VACAVILLE, CA 95688
Total Tanks:	0002
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	WASTE
Type of Fuel:	1
Container Construction Thickness:	X
Leak Detection:	Visual, Stock Inventor, Pressure Test
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test

Click here for Geo Tracker PDF:

CHMIRS:

OES Incident Number:	9-4779
OES notification:	11/10/1999
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported

ALL-WEATHER ARCH ALUM INC (Continued) **U001599252**

Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1999
Agency:	UPRR
Incident Date:	11/10/199912:00:00 AM
Admin Agency:	City of Oakland Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Rail Road
E Date:	Not reported
Substance:	Diesel Fuel
Gallons:	800
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Fuel storage pump blew fitting, allowing substance to flow out.

OES Incident Number:	8-2494
OES notification:	05/29/1998
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported

ALL-WEATHER ARCH ALUM INC (Continued) **U001599252**

Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1998
Agency:	UPRR
Incident Date:	5/29/199812:00:00 AM
Admin Agency:	City of Oakland Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Treatment/Sewage Facility
E Date:	Not reported
Substance:	Diesel fuel/oil
Gallons:	400
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported

ALL-WEATHER ARCH ALUM INC (Continued) **U001599252**

Comments: Not reported
Description: Waste water treatment plant, separator pump came loose from its’ mount allowing substance to escape
Not reported

L67 **SW** **1/8-1/4** **0.173 mi.** **916 ft.**	**WEST OAKLAND YARD** **1851 FIFTH ST.** **OAKLAND, CA** **Site 5 of 5 in cluster L**	**CA AST**	**A100346217** **N/A**

Relative:
Lower

Actual:
12 ft.

AST:
Certified Unified Program Agencies: Oakland
Owner: UNION PACIFIC RAILROAD
Total Gallons: 51,050
CERSID: Not reported
Facility ID: Not reported
Business Name: Not reported
Phone: Not reported
Fax: Not reported
Mailing Address: Not reported
Mailing Address City: Not reported
Mailing Address State: Not reported
Mailing Address Zip Code: Not reported
Operator Name: Not reported
Operator Phone: Not reported
Owner Phone: Not reported
Owner Mail Address: Not reported
Owner State: Not reported
Owner Zip Code: Not reported
Owner Country: Not reported
Property Owner Name: Not reported
Property Owner Phone: Not reported
Property Owner Mailing Address: Not reported
Property Owner City: Not reported
Property Owner Stat : Not reported
Property Owner Zip Code: Not reported
Property Owner Country: Not reported
EPAID: Not reported

N68 **NE** **1/8-1/4** **0.180 mi.** **950 ft.**	**SOUTHERN PACIFIC TRANSPORTATIO** **FOOT OF PINE STREET** **OAKLAND, CA 94605** **Site 1 of 3 in cluster N**	**CA HIST UST** **CA CHMIRS**	**U001599105** **N/A**

Relative:
Higher

Actual:
13 ft.

HIST UST:
File Number: 00036388
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00036388.pdf
Region: STATE
Facility ID: 00000024517
Facility Type: Other
Other Type: RAILYARD
Contact Name: MR. SAVOTA
Telephone: 4158917614
Owner Name: SOUTHERN PACIFIC TRANSPORTATIO

SOUTHERN PACIFIC TRANSPORTATIO (Continued) **U001599105**

Owner Address: 1 MARKET PLAZA
Owner City,St,Zip: SAN FRANCISCO, CA 94105
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: 1972
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: 1/4"
Leak Detection: Pressure Test

Tank Num: 001
Container Num: 1
Year Installed: 1960
Tank Capacity: 00040000
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Visual, Groundwater Monitoring Well

Tank Num: 001
Container Num: 1
Year Installed: 1960
Tank Capacity: 00040000
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Visual, Groundwater Monitoring Well

Tank Num: 001
Container Num: 1
Year Installed: 1972
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: 1/4"
Leak Detection: Pressure Test

Click here for Geo Tracker PDF:

CHMIRS:
OES Incident Number: 7253
OES notification: Not reported
OES Date: 3/14/1993
OES Time: 02:00:00 AM
Date Completed: **Not reported**
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported

SOUTHERN PACIFIC TRANSPORTATIO (Continued) **U001599105**

Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Facility Telephone: Not reported
Waterway Involved: Not reported
Waterway: Not reported
Spill Site: Not reported
Cleanup By: SP HAZMAT
Containment: Not reported
What Happened: Not reported
Type: CHEMICAL
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 1993
Agency: SOUTH PACIFIC- DUR
Incident Date: 1830
Admin Agency: Not reported
Amount: INSIGNIFCAL
Contained: NO
Site Type: Not reported
E Date: Not reported
Substance: ETHYL ACRYLIC
Unknown: Not reported
Substance #2: Not reported
Substance #3: Not reported
Evacuations: UNKNOWN
Number of Injuries: UNKNOWN
Number of Fatalities: UNKNOWN
#1 Pipeline: Not reported
#2 Pipeline: Not reported
#3 Pipeline: Not reported
#1 Vessel >= 300 Tons: Not reported
#2 Vessel >= 300 Tons: Not reported
#3 Vessel >= 300 Tons: Not reported
Evacs: Not reported
Injuries: Not reported
Fatals: Not reported
Comments: Not reported
Description: CAR (NATX 50732) IS VENTING SMALL AMOUNTS OF VAPOR.

OES Incident Number: 3-3345
OES notification: 07/02/2003
OES Date: Not reported
OES Time: Not reported

SOUTHERN PACIFIC TRANSPORTATIO (Continued) **U001599105**

Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2003
Agency:	Union Pacific
Incident Date:	7/2/200312:00:00 AM
Admin Agency:	City of Oakland Fire Department
Amount:	Not reported
Contained:	Unknown
Site Type:	Rail Road
E Date:	Not reported
Substance:	Train vs Vehicle
Gallons:	0.000000
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported

SOUTHERN PACIFIC TRANSPORTATIO (Continued) **U001599105**

Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Amtrak switching crew involved with a renzenbdgredger van. parked too close to track and switch crew hit vehicle at a slow rate of speed.

N69
NE
1/8-1/4
0.181 mi.
958 ft.

COLE BROTHERS AUTO WRECKERS **CA ENVIROSTOR** **S118757105**
1797 12TH STREET **N/A**
OAKLAND, CA 94607

Site 2 of 3 in cluster N

Relative:
Higher

Actual:
13 ft.

ENVIROSTOR:

Facility ID:	60000365
Status:	No Action Required
Status Date:	05/24/2007
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0.4
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Denise Tsuji
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	37.81210
Longitude:	-122.3002
APN:	6-31-47
Past Use:	JUNKYARD
Potential COC:	Lead TPH-gas TPH-MOTOR OIL Ethylene glycol
Confirmed COC:	30025-NO 30276-NO 30013-NO 3002502-NO
Potential Description:	SOIL
Alias Name:	6-31-47
Alias Type:	APN
Alias Name:	60000365
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	03/15/2007
Comments:	EPA sign-off.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	09/30/2006

COLE BROTHERS AUTO WRECKERS (Continued) **S118757105**

Comments:	Response to info request letter submitted.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

M70 **OAKLAND ARMY BASE - OAKLAND ARMY BASE - TANK 678** **CA UST** **U004267021**
NNW **11TH STREET** **N/A**
1/8-1/4 **OAKLAND, CA 94607**
0.184 mi.
973 ft. **Site 6 of 9 in cluster M**

Relative:
Lower

Actual:
11 ft.

MILITARY UST SITES:

Global ID:	T0600106128
Case Type:	Military UST Site
Status:	Completed - Case Closed
Status Date:	12/11/2013
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	T0600182530
Loc Case Number:	Not reported
File Location:	Regional Board
Potential Contaminants of Concern:	Diesel, Heating Oil / Fuel Oil, Waste Oil / Motor / Hydraulic / Lubricating
Potential Media Affected:	Other Groundwater (uses other than drinking water), Soil
Site History:	Heating oil tank associated with former Building 678.
Begin Date:	1999-09-09 00:00:00
How Discovered:	Other Means
How Discovered Description:	The Army conducted an investigation of the suspected UST locations identified by the Port during its Phase II Investigation activities in 2002 (IT Corporation,2002)
Stop Method:	Other Means
Stop Description:	Not reported
Latitude:	37.812821
Longitude:	-122.305384
Geotracker:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600106128

M71 **OAKLAND ARMY BASE - OAKLAND ARMY BASE - TANK 678** **CA CERS TANKS** **S121753582**
NNW **11TH STREET** **CA CERS** **N/A**
1/8-1/4 **OAKLAND, CA 94607**
0.184 mi.
973 ft. **Site 7 of 9 in cluster M**

Relative:
Lower

Actual:
11 ft.

CERS TANKS:

Site ID:	233453
CERS ID:	T0600106128
CERS Description:	Military Underground Storage Tank Site

N72 **UNION PACIFIC RAILROAD/SPT CO LOCO** **CA Alameda County CS** **S106661209**
NE **0 PINE ST** **N/A**
1/8-1/4 **OAKLAND, CA 94607**
0.195 mi.
1031 ft. **Site 3 of 3 in cluster N**

Relative:
Higher

Actual:
13 ft.

Alameda County CS:
Status: 11
Record Id: RO0000931
PE: 5602
Facility Status: Not reported
Latitude: 37.81256012
Longitude: -122.3002111

M73 **OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 677** **CA UST** **U004267030**
NNW **11TH STREET** **N/A**
1/8-1/4 **OAKLAND, CA 94607**
0.197 mi.
1039 ft. **Site 8 of 9 in cluster M**

Relative:
Lower

Actual:
11 ft.

MILITARY UST SITES:
Global ID: T0600131421
Case Type: Military UST Site
Status: Completed - Case Closed
Status Date: 01/10/2008
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker: MB
Local Agency: Not reported
RB Case Number: 01D9616
Loc Case Number: Not reported
File Location: Regional Board
Potential Contaminants of Concern: Heating Oil / Fuel Oil
Potential Media Affected: Soil
Site History: Site closure letter same as site UST 651
Begin Date: 1999-09-09 00:00:00
How Discovered: Other Means
How Discovered Description: The Army conducted an investigation of the suspected UST locations identified by the Port during its Phase II Investigation activities in 2002 (IT Corporation,2002)
Stop Method: Not reported
Stop Description: Not reported
Latitude: 37.812861
Longitude: -122.305679
Geotracker: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600131421

M74 **OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 677** **CA CERS TANKS** **S121754693**
NNW **11TH STREET** **CA CERS** **N/A**
1/8-1/4 **OAKLAND, CA 94607**
0.197 mi.
1039 ft. **Site 9 of 9 in cluster M**

Relative:
Lower

Actual:
11 ft.

CERS TANKS:
Site ID: 251428
CERS ID: T0600131421
CERS Description: Military Underground Storage Tank Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker

OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 677 (Continued) **S121754693**

Entity Name:	MARGARETE BETH - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 Clay Street, 14th Floor
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	5106222338

O75
NNW
1/8-1/4
0.197 mi.
1040 ft.

OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 679
11TH STREET
OAKLAND, CA 94607

CA CERS TANKS **S121754844**
CA CERS **N/A**

Site 1 of 2 in cluster O

Relative:
Lower

Actual:
11 ft.

CERS TANKS:

Site ID:	253732
CERS ID:	T0600135949
CERS Description:	Military Underground Storage Tank Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	MARGARETE BETH - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 Clay Street, 14th Floor
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	5106222338

O76
NNW
1/8-1/4
0.197 mi.
1040 ft.

OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 679
11TH STREET
OAKLAND, CA 94607

CA UST **U004267031**
N/A

Site 2 of 2 in cluster O

Relative:
Lower

Actual:
11 ft.

MILITARY UST SITES:

Global ID:	T0600135949
Case Type:	Military UST Site
Status:	Completed - Case Closed
Status Date:	01/08/2015
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker:	MB
Local Agency:	Not reported
RB Case Number:	T0600182530
Loc Case Number:	Not reported
File Location:	Regional Board
Potential Contaminants of Concern:	Heating Oil / Fuel Oil
Potential Media Affected:	Soil
Site History:	Not reported
Begin Date:	1999-09-09 00:00:00
How Discovered:	Other Means
How Discovered Description:	The Army conducted an investigation of the suspected UST locations identified by the Port during its Phase II Investigation activities in

OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 679 (Continued) **U004267031**

2002 (IT Corporation,2002)
Stop Method: Not reported
Stop Description: Not reported
Latitude: 37.8130326838963
Longitude: -122.305418903111
Geotracker: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600135949

77
SSW
1/8-1/4
0.198 mi.
1046 ft.

SPT CO LOCO FUEL PLANT WD
UNKNOWN PINE ST FOOT OF
OAKLAND, CA 94607

CA LUST **S103472392**
CA HIST CORTESE **N/A**

Relative:
Lower

Actual:
12 ft.

LUST REG 2:
Region: 2
Facility Id: 01-2426
Facility Status: Preliminary site assessment underway
Case Number: 5354
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 1/28/1998
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 1/2/1965
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-2426

78
ESE
1/8-1/4
0.205 mi.
1082 ft.

OAKLAND NORTHFIELD TANK FARM
OAKLAND MUNICIPAL AIRPORT
OAKLAND, CA 94583

CA HIST UST **U001598594**
N/A

Relative:
Higher

Actual:
17 ft.

HIST UST:
File Number: 00035E56
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00035E56.pdf
Region: STATE
Facility ID: 00000013503
Facility Type: Other
Other Type: BULK TERMINAL
Contact Name: J.T. BLODGETT
Telephone: 4158945308
Owner Name: CHEVRON USA
Owner Address: 2 ANNABEL LANE
Owner City,St,Zip: SAN RAMON, CA 94583
Total Tanks: 0001

OAKLAND NORTHFIELD TANK FARM (Continued) **U001598594**

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00000550
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

Click here for Geo Tracker PDF:

P79
WNW
1/8-1/4
0.208 mi.
1097 ft.

OAKLAND ARMY BASE - OAKLAND ARMY BASE TANK L
TULAGI STREET, SE CORNER OF BUILDING 690
OAKLAND, CA 94607

CA CERS TANKS **S121750679**
CA CERS **N/A**

Site 1 of 4 in cluster P

Relative:
Lower

Actual:
11 ft.

CERS TANKS:
Site ID: 186885
CERS ID: T0600192087
CERS Description: Military Underground Storage Tank Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: MARGARETE BETH - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 Clay Street, 14th Floor
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 5106222338

P80
WNW
1/8-1/4
0.208 mi.
1097 ft.

OAKLAND ARMY BASE - OAKLAND ARMY BASE TANK L
TULAGI STREET, SE CORNER OF BUILDING 690
OAKLAND, CA 94607

CA UST **U004267069**
N/A

Site 2 of 4 in cluster P

Relative:
Lower

Actual:
11 ft.

MILITARY UST SITES:
Global ID: T0600192087
Case Type: Military UST Site
Status: Completed - Case Closed
Status Date: 01/05/2001
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker: MB
Local Agency: Not reported
RB Case Number: T06001822530
Loc Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported
Begin Date: 1996-12-13 00:00:00
How Discovered: Not reported
How Discovered Description: Not reported

OAKLAND ARMY BASE - OAKLAND ARMY BASE TANK L (Continued) **U004267069**

Stop Method:	Not reported
Stop Description:	Not reported
Latitude:	37.8112249134477
Longitude:	-122.307379245758
Geotracker:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600192087

Q81
SSW
1/8-1/4
0.218 mi.
1150 ft.

PHOENIX 524 PROPERTY
524 CEDAR STREET
OAKLAND, CA 94607

CA ENVIROSTOR
CA VCP
CA HIST CORTESE

S102008192
N/A

Site 1 of 2 in cluster Q

Relative:
Lower

Actual:
12 ft.

ENVIROSTOR:

Facility ID:	1330038
Status:	Inactive - Needs Evaluation
Status Date:	09/03/2010
Site Code:	200348
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	2.32
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.81025
Longitude:	-122.3042
APN:	6-51-1
Past Use:	RETAIL - SERVICE STATION
Potential COC:	Arsenic Lead Cadmium and compounds Nickel
Confirmed COC:	Cadmium and compounds Nickel Arsenic Lead
Potential Description:	OTH, SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported

PHOENIX 524 PROPERTY (Continued) **S102008192**

Schedule Revised Date: Not reported

VCP:
Facility ID: 1330038
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 2.32
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 200348
Assembly: 18
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Inactive - Needs Evaluation
Status Date: 09/03/2010
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.81025 / -122.3042
APN: 6-51-1
Past Use: RETAIL - SERVICE STATION
Potential COC: 30001, 30013, 30108, 30407
Confirmed COC: 30108,30407,30001,30013
Potential Description: OTH, SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: CALSI
Reg Id: 01330038

R82 **NW** **1/8-1/4** **0.221 mi.** **1168 ft.**	**OAKLAND ARMY BASE - OAKLAND ARMY BASE - TANK 686** **10TH STREET** **OAKLAND, CA 94607** **Site 1 of 10 in cluster R**	**CA UST**	**U004267022** **N/A**

Relative: **Lower**

Actual: **11 ft.**

MILITARY UST SITES:

Global ID:	T0600108939
Case Type:	Military UST Site
Status:	Completed - Case Closed
Status Date:	12/11/2013
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	T0600182530
Loc Case Number:	Not reported
File Location:	Regional Board
Potential Contaminants of Concern:	Diesel, Heating Oil / Fuel Oil
Potential Media Affected:	Other Groundwater (uses other than drinking water), Soil
Site History:	Heating oil tank associated with former Building 686. Closure Document can be found under Case # T0600106128
Begin Date:	1999-09-09 00:00:00
How Discovered:	Other Means
How Discovered Description:	The Army conducted an investigation of the suspected UST locations identified by the Port during its Phase II Investigation activities in 2002 (IT Corporation,2002)
Stop Method:	Other Means
Stop Description:	Not reported
Latitude:	37.812554
Longitude:	-122.306607
Geotracker:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600108939

R83 **NW** **1/8-1/4** **0.221 mi.** **1168 ft.**	**OAKLAND ARMY BASE - OAKLAND ARMY BASE - TANK 686** **10TH STREET** **OAKLAND, CA 94607** **Site 2 of 10 in cluster R**	**CA CERS TANKS** **CA CERS**	**S121752404** **N/A**

Relative: **Lower**

Actual: **11 ft.**

CERS TANKS:

Site ID:	213606
CERS ID:	T0600108939
CERS Description:	Military Underground Storage Tank Site

P84 **NW** **1/8-1/4** **0.223 mi.** **1177 ft.**	**OAKLAND ARMY BASE - OAKLAND ARMY BASE TANK K (SE B** **SOUTHEAST CORNER OF BUILDING 645 NEAR TH** **OAKLAND, CA 94607** **Site 3 of 4 in cluster P**	**CA UST**	**U004268593** **N/A**

Relative: **Lower**

Actual: **11 ft.**

MILITARY UST SITES:

Global ID:	T0607592108
Case Type:	Military UST Site
Status:	Completed - Case Closed
Status Date:	01/10/2008
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker:	MB
Local Agency:	Not reported

OAKLAND ARMY BASE - OAKLAND ARMY BASE TANK K (SE BLD. 645) (Continued) **U004268593**

RB Case Number:	01D9650
Loc Case Number:	Not reported
File Location:	Regional Board
Potential Contaminants of Concern:	Not reported
Potential Media Affected:	Not reported
Site History:	UST K was a former 500-gallon steel UST used to store fuel oil. The tank was removed in June 2000. Previous investigations in the vicinity of the UST indicated the presence of TPH-d contamination in soil and groundwater. Closure letter for this site is the same as site UST 651.
Begin Date:	2000-11-17 00:00:00
How Discovered:	Not reported
How Discovered Description:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
Latitude:	37.81182972
Longitude:	-122.3072275
Geotracker:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607592108

P85 **OAKLAND ARMY BASE - OAKLAND ARMY BASE TANK K (SE B** **CA CERS TANKS** **S121755012**
NW **SOUTHEAST CORNER OF BUILDING 645 NEAR TH** **CA CERS** **N/A**
1/8-1/4 **OAKLAND, CA 94607**
0.223 mi.
1177 ft. **Site 4 of 4 in cluster P**

Relative:
Lower

Actual:
11 ft.

CERS TANKS:

Site ID:	256387
CERS ID:	T0607592108
CERS Description:	Military Underground Storage Tank Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	MARGARETE BETH - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 Clay Street, 14th Floor
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	5106222338

S86 **OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 743** **CA CERS TANKS** **S121753935**
NNW **12TH STREET** **CA CERS** **N/A**
1/8-1/4 **OAKLAND, CA 94607**
0.225 mi.
1187 ft. **Site 1 of 8 in cluster S**

Relative:
Lower

Actual:
11 ft.

CERS TANKS:

Site ID:	239208
CERS ID:	T0600154605
CERS Description:	Military Underground Storage Tank Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	MARGARETE BETH - SAN FRANCISCO BAY RWQCB (REGION 2)

OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 743 (Continued) **S121753935**

Entity Title:	Not reported
Affiliation Address:	1515 Clay Street, 14th Floor
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	5106222338

S87
NNW
1/8-1/4
0.225 mi.
1187 ft.

OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 743 **CA UST** **U004267036**
12TH STREET **N/A**
OAKLAND, CA 94607

Site 2 of 8 in cluster S

Relative:
Lower

Actual:
11 ft.

MILITARY UST SITES:

Global ID:	T0600154605
Case Type:	Military UST Site
Status:	Completed - Case Closed
Status Date:	01/10/2008
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker:	MB
Local Agency:	Not reported
RB Case Number:	01D9622
Loc Case Number:	Not reported
File Location:	Regional Board
Potential Contaminants of Concern:	Heating Oil / Fuel Oil
Potential Media Affected:	Soil
Site History:	Closure letter same as UST 651.
Begin Date:	1999-09-09 00:00:00
How Discovered:	Not reported
How Discovered Description:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
Latitude:	37.8137846679313
Longitude:	-122.304739952087
Geotracker:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600154605

S88
North
1/8-1/4
0.226 mi.
1193 ft.

OAKLAND ARMY BASE - OAKLAND ARMY BASE UST I (BLDG **CA CERS TANKS** **S121753592**
OAKLAND ARMY BASE **CA CERS** **N/A**
OAKLAND, CA 94607

Site 3 of 8 in cluster S

Relative:
Lower

Actual:
11 ft.

CERS TANKS:

Site ID:	233743
CERS ID:	T0607592103
CERS Description:	Military Underground Storage Tank Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	MARGARETE BETH - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 Clay Street, 14th Floor
Affiliation City:	OAKLAND
Affiliation State:	CA

OAKLAND ARMY BASE - OAKLAND ARMY BASE UST I (BLDG 737) (Continued) **S121753592**

Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 5106222338

S89
North
1/8-1/4
0.226 mi.
1193 ft.

OAKLAND ARMY BASE - OAKLAND ARMY BASE UST I (BLDG
OAKLAND ARMY BASE
OAKLAND, CA 94607

Site 4 of 8 in cluster S

CA UST

U004268588
N/A

Relative:
Lower

Actual:
11 ft.

MILITARY UST SITES:
Global ID: T0607592103
Case Type: Military UST Site
Status: Completed - Case Closed
Status Date: 12/11/2013
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker: MB
Local Agency: Not reported
RB Case Number: 01D9645
Loc Case Number: Not reported
File Location: All Files are on GeoTracker or in the Local Agency Database
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported
Begin Date: 1997-06-13 00:00:00
How Discovered: Not reported
How Discovered Description: Not reported
Stop Method: Not reported
Stop Description: Not reported
Latitude: 37.81389
Longitude: -122.30441
Geotracker: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607592103

Q90
SSW
1/8-1/4
0.227 mi.
1201 ft.

CAL-EAST FOODS
505 CEDAR STREET
OAKLAND, CA 94607

Site 2 of 2 in cluster Q

CA ENVIROSTOR
CA LUST
CA Alameda County CS
CA VCP
CA SWEEPS UST
CA HIST CORTESE
CA CERS

S100931451
N/A

Relative:
Lower

Actual:
12 ft.

ENVIROSTOR:
Facility ID: 1510024
Status: Certified
Status Date: 06/30/2006
Site Code: 200457
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: .75
NPL: NO
Regulatory Agencies: SMBRP, ALAMEDA COUNTY
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Mark Piros

CAL-EAST FOODS (Continued) **S100931451**

Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.80722
Longitude:	-122.3041
APN:	6-55-2
Past Use:	TRANSPORTATION - WAREHOUSING
Potential COC:	TPH-gas
Confirmed COC:	TPH-gas
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

LUST:

Lead Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100200
Global Id:	T0600100200
Latitude:	37.872849
Longitude:	-122.304109
Status:	Completed - Case Closed
Status Date:	06/30/2006
Case Worker:	MP
RB Case Number:	01-0214
Local Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	01510024
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0600100200
Action Type:	Other
Date:	11/18/1993
Action:	Leak Reported

CAL-EAST FOODS (Continued) **S100931451**

Global Id: T0600100200
Action Type: ENFORCEMENT
Date: 07/03/2008
Action: Staff Letter - #20080703

Global Id: T0600100200
Action Type: ENFORCEMENT
Date: 07/24/2009
Action: Notice of Violation - #20090724

Global Id: T0600100200
Action Type: ENFORCEMENT
Date: 07/28/2009
Action: Staff Letter - #20090728

Global Id: T0600100200
Action Type: RESPONSE
Date: 08/10/2009
Action: Electronic Reporting Submittal Due

Global Id: T0600100200
Action Type: REMEDIATION
Date: 11/18/1993
Action: Excavation

Global Id: T0600100200
Action Type: Other
Date: 11/18/1993
Action: Leak Discovery

LUST:
Global Id: T0600100200
Status: Completed - Case Closed
Status Date: 06/30/2006

Global Id: T0600100200
Status: Open - Case Begin Date
Status Date: 11/18/1993

Global Id: T0600100200
Status: Open - Referred
Status Date: 05/10/1994

Global Id: T0600100200
Status: Open - Site Assessment
Status Date: 11/18/1993

Global Id: T0600100200
Status: Open - Site Assessment
Status Date: 07/27/1994

Global Id: T0600100200
Status: Open - Verification Monitoring
Status Date: 07/27/1994

CAL-EAST FOODS (Continued) **S100931451**

LUST REG 2:
Region: 2
Facility Id: 01-0214
Facility Status: Leak being confirmed
Case Number: 3971
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: Tank
Date Leak Confirmed: 10/6/1995
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Leak Confirmation
Record Id: RO0000306
PE: 5602
Facility Status: Leak Confirmation
Latitude: 43.426635388
Longitude: -123.29749937

Status: 11
Record Id: RO0000306
PE: 5602
Facility Status: Not reported
Latitude: 43.426635388
Longitude: -123.29749937

Status: Preliminary Site Assessment Underway
Record Id: RO0000306
PE: 5602
Facility Status: Preliminary Site Assessment Underway
Latitude: 43.426635388
Longitude: -123.29749937

Status: Pollution Characterization
Record Id: RO0000306
PE: 5602
Facility Status: Pollution Charaterization
Latitude: 43.426635388
Longitude: -123.29749937

Status: Verificaiton Monitoring Underway
Record Id: RO0000306
PE: 5602
Facility Status: Verification Monitoring Underway
Latitude: 43.426635388
Longitude: -123.29749937

VCP:
Facility ID: 1510024
Site Type: Voluntary Cleanup

CAL-EAST FOODS (Continued) **S100931451**

Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	.75
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, ALAMEDA COUNTY
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Site Code:	200457
Assembly:	18
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified
Status Date:	06/30/2006
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.80722 / -122.3041
APN:	6-55-2
Past Use:	TRANSPORTATION - WAREHOUSING
Potential COC:	30025
Confirmed COC:	30025
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SWEEPS UST:

Status:	Not reported
Comp Number:	4923
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	01-000-004923-000001
Tank Status:	Not reported
Capacity:	2500
Active Date:	Not reported

CAL-EAST FOODS (Continued) **S100931451**

Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 1

HIST CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: CALSI
Reg Id: 01510024

Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0214

CERS TANKS:
Site ID: 193175
CERS ID: T0600100200
CERS Description: Leaking Underground Storage Tank Cleanup Site

---

R91
NW
1/8-1/4
0.229 mi.
1209 ft.

OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 682 **CA CERS TANKS** **S121754702**
10TH STREET **CA CERS** **N/A**
OAKLAND, CA 94607

Site 3 of 10 in cluster R

Relative:
Lower
Actual:
11 ft.

CERS TANKS:
Site ID: 251620
CERS ID: T0600187617
CERS Description: Military Underground Storage Tank Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: MARGARETE BETH - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 Clay Street, 14th Floor
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 5106222338

R92
NW
1/8-1/4
0.229 mi.
1209 ft.

OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 682 **CA UST** **U004267042**
10TH STREET **N/A**
OAKLAND, CA 94607

Site 4 of 10 in cluster R

Relative:
Lower
Actual:
11 ft.

MILITARY UST SITES:
Global ID: T0600187617
Case Type: Military UST Site
Status: Completed - Case Closed
Status Date: 10/17/2007
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)

OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 682 (Continued) **U004267042**

Case Worker:	MB
Local Agency:	Not reported
RB Case Number:	01D9619
Loc Case Number:	Not reported
File Location:	Regional Board
Potential Contaminants of Concern:	Heating Oil / Fuel Oil
Potential Media Affected:	Other Groundwater (uses other than drinking water)
Site History:	Not reported
Begin Date:	1999-09-09 00:00:00
How Discovered:	Other Means
How Discovered Description:	The Army conducted an investigation of the suspected UST locations identified by the Port during its Phase II Investigation activities in 2002 (IT Corporation,2002)
Stop Method:	Not reported
Stop Description:	Not reported
Latitude:	37.812738
Longitude:	-122.306615
Geotracker:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600187617

S93 **OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 742** **CA UST** **U004267023**
NNW **12TH STREET** **N/A**
1/8-1/4 **OAKLAND, CA 94607**
0.230 mi.
1212 ft. **Site 5 of 8 in cluster S**

Relative:
Lower

Actual:
11 ft.

MILITARY UST SITES:

Global ID:	T0600110703
Case Type:	Military UST Site
Status:	Completed - Case Closed
Status Date:	01/10/2008
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker:	MB
Local Agency:	Not reported
RB Case Number:	01D9621
Loc Case Number:	Not reported
File Location:	Regional Board
Potential Contaminants of Concern:	Heating Oil / Fuel Oil
Potential Media Affected:	Soil
Site History:	Closure letter refer to site UST 651
Begin Date:	1999-09-09 00:00:00
How Discovered:	Not reported
How Discovered Description:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
Latitude:	37.8137507644783
Longitude:	-122.305061817169
Geotracker:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600110703

S94 | OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 742 | CA CERS TANKS | S121751960
NNW | 12TH STREET | CA CERS | N/A
1/8-1/4 | OAKLAND, CA 94607
0.230 mi.
1212 ft. | Site 6 of 8 in cluster S

Relative:
Lower

Actual:
11 ft.

CERS TANKS:
Site ID: 206194
CERS ID: T0600110703
CERS Description: Military Underground Storage Tank Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: MARGARETE BETH - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 Clay Street, 14th Floor
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 5106222338

R95 | OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 673 | CA UST | U004267024
NW | 11TH STREET | N/A
1/8-1/4 | OAKLAND, CA 94607
0.231 mi.
1219 ft. | Site 5 of 10 in cluster R

Relative:
Lower

Actual:
11 ft.

MILITARY UST SITES:
Global ID: T0600111632
Case Type: Military UST Site
Status: Completed - Case Closed
Status Date: 10/17/2007
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker: MB
Local Agency: Not reported
RB Case Number: 01D9615
Loc Case Number: Not reported
File Location: All Files are on GeoTracker or in the Local Agency Database
Potential Contaminants of Concern: Heating Oil / Fuel Oil
Potential Media Affected: Other Groundwater (uses other than drinking water)
Site History: Not reported
Begin Date: 1999-09-09 00:00:00
How Discovered: Other Means
How Discovered Description: The Army conducted an investigation of the suspected UST locations identified by the Port during its Phase II Investigation activities in 2002 (IT Corporation,2002)
Stop Method: Other Means
Stop Description: Not reported
Latitude: 37.812935
Longitude: -122.306457
Geotracker: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600111632

R96 **OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 673** **CA CERS TANKS** **S121752352**
NW **11TH STREET** **CA CERS** **N/A**
1/8-1/4 **OAKLAND, CA 94607**
0.231 mi.
1219 ft. **Site 6 of 10 in cluster R**

Relative:
Lower

Actual:
11 ft.

CERS TANKS:

Site ID:	212934
CERS ID:	T0600111632
CERS Description:	Military Underground Storage Tank Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	MARGARETE BETH - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 Clay Street, 14th Floor
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	5106222338

S97 **OAKLAND ARMY BASE - OAKLAND ARMY BASE UST H (BLDG** **CA CERS TANKS** **S121753753**
NNW **OAKLAND ARMY BASE** **CA CERS** **N/A**
1/8-1/4 **OAKLAND, CA 94607**
0.240 mi.
1269 ft. **Site 7 of 8 in cluster S**

Relative:
Lower

Actual:
11 ft.

CERS TANKS:

Site ID:	236549
CERS ID:	T0607592102
CERS Description:	Military Underground Storage Tank Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	MARGARETE BETH - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 Clay Street, 14th Floor
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	5106222338

S98 **OAKLAND ARMY BASE - OAKLAND ARMY BASE UST H (BLDG** **CA UST** **U004268587**
NNW **OAKLAND ARMY BASE** **N/A**
1/8-1/4 **OAKLAND, CA 94607**
0.240 mi.
1269 ft. **Site 8 of 8 in cluster S**

Relative:
Lower

Actual:
11 ft.

MILITARY UST SITES:

Global ID:	T0607592102
Case Type:	Military UST Site
Status:	Completed - Case Closed
Status Date:	06/13/1997
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker:	MB

OAKLAND ARMY BASE - OAKLAND ARMY BASE UST H (BLDG 734) (Continued) **U004268587**

Local Agency: Not reported
RB Case Number: 01D9644
Loc Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported
Begin Date: 1997-06-13 00:00:00
How Discovered: Not reported
How Discovered Description: Not reported
Stop Method: Not reported
Stop Description: Not reported
Latitude: 37.814001
Longitude: -122.304826
Geotracker: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607592102

R99
NW
1/8-1/4
0.241 mi.
1270 ft.

OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 681 **CA UST** **U004267026**
10TH STREET **N/A**
OAKLAND, CA 94607

Site 7 of 10 in cluster R

Relative:
Lower

Actual:
11 ft.

MILITARY UST SITES:
Global ID: T0600114732
Case Type: Military UST Site
Status: Completed - Case Closed
Status Date: 01/10/2008
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker: MB
Local Agency: Not reported
RB Case Number: 01D9618
Loc Case Number: Not reported
File Location: Regional Board
Potential Contaminants of Concern: Heating Oil / Fuel Oil
Potential Media Affected: Soil
Site History: Not reported
Begin Date: 1999-09-09 00:00:00
How Discovered: Other Means
How Discovered Description: The Army conducted an investigation of the suspected UST locations identified by the Port during its Phase II Investigation activities in 2002 (IT Corporation,2002)
Stop Method: Not reported
Stop Description: Not reported
Latitude: 37.812604
Longitude: -122.306985
Geotracker: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600114732

R100
NW
1/8-1/4
0.241 mi.
1270 ft.

OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 681
10TH STREET
OAKLAND, CA 94607

Site 8 of 10 in cluster R

CA CERS TANKS S121751063
CA CERS N/A

Relative:
Lower

Actual:
11 ft.

CERS TANKS:
Site ID: 193539
CERS ID: T0600114732
CERS Description: Military Underground Storage Tank Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: MARGARETE BETH - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 Clay Street, 14th Floor
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 5106222338

T101
SE
1/8-1/4
0.241 mi.
1275 ft.

OAKLAND MAIN OFFICE VEHICLE MA
1675 007TH ST
OAKLAND, CA 94615

Site 1 of 9 in cluster T

CA SWEEPS UST S101580383
CA FID UST N/A

Relative:
Higher

Actual:
14 ft.

SWEEPS UST:
Status: Not reported
Comp Number: 37434
Number: Not reported
Board Of Equalization: 44-032063
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-037434-000001
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: 5

Status: Not reported
Comp Number: 37434
Number: Not reported
Board Of Equalization: 44-032063
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-037434-000002
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL

OAKLAND MAIN OFFICE VEHICLE MA (Continued) **S101580383**

STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 37434
Number: Not reported
Board Of Equalization: 44-032063
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-037434-000004
Tank Status: Not reported
Capacity: 550
Active Date: Not reported
Tank Use: OIL
STG: WASTE
Content: WASTE OIL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 37434
Number: Not reported
Board Of Equalization: 44-032063
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-037434-000005
Tank Status: Not reported
Capacity: 5000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 37434
Number: Not reported
Board Of Equalization: 44-032063
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-037434-000006
Tank Status: Not reported
Capacity: 8000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Status: Active
Comp Number: 37434

OAKLAND MAIN OFFICE VEHICLE MA (Continued) **S101580383**

Number: 7
Board Of Equalization: 44-032063
Referral Date: 12-07-93
Action Date: 05-09-94
Created Date: 02-29-88
Owner Tank Id: 1B
SWRCB Tank Id: 01-000-037434-000003
Tank Status: A
Capacity: 1000
Active Date: 07-01-85
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: 4

Status: Active
Comp Number: 37434
Number: 7
Board Of Equalization: 44-032063
Referral Date: 12-07-93
Action Date: 05-09-94
Created Date: 02-29-88
Owner Tank Id: OAK-100-#03
SWRCB Tank Id: 01-000-037434-000007
Tank Status: A
Capacity: 12000
Active Date: 12-07-93
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 37434
Number: 7
Board Of Equalization: 44-032063
Referral Date: 12-07-93
Action Date: 05-09-94
Created Date: 02-29-88
Owner Tank Id: OAK-100-#02B
SWRCB Tank Id: 01-000-037434-000008
Tank Status: A
Capacity: 12000
Active Date: 12-07-93
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Status: Active
Comp Number: 37434
Number: 7
Board Of Equalization: 44-032063
Referral Date: 12-07-93
Action Date: 05-09-94
Created Date: 02-29-88
Owner Tank Id: OAK-100-#02A

OAKLAND MAIN OFFICE VEHICLE MA (Continued) **S101580383**

SWRCB Tank Id:	01-000-037434-000009
Tank Status:	A
Capacity:	12000
Active Date:	12-07-93
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	Not reported

CA FID UST:

Facility ID:	01002683
Regulated By:	UTNKA
Regulated ID:	00037434
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4158748462
Mail To:	Not reported
Mailing Address:	1675 007TH ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	OAKLAND 94615
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

102
NNE
1/8-1/4
0.243 mi.
1285 ft.

STATION HOUSE SOUTH CONDOMINIUMS (CENTRAL STATION/
WOOD STREET
OAKLAND, CA 94608

CA CPS-SLIC **S121475984**
N/A

Relative:
Lower

Actual:
12 ft.

CPS-SLIC:

Region:	STATE
Facility Status:	**Open - Remediation**
Status Date:	08/30/2017
Global Id:	T10000007678
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.8135211572151
Longitude:	-122.300478956154
Case Type:	Cleanup Program Site
Case Worker:	MEJ
Local Agency:	Not reported
RB Case Number:	01S0556
File Location:	All Files are on GeoTracker or in the Local Agency Database
Potential Media Affected:	Soil, Under Investigation
Potential Contaminants of Concern:	Arsenic, Lead, Polynuclear aromatic hydrocarbons (PAHs), Total Petroleum Hydrocarbons (TPH)
Site History:	The Wood Streets Zoning District is made up of several parcels, with several different owners, totaling 29 acres. A majority of the parcels are located along Wood Street between 10th Street and West Grand Avenue in a mixed industrial-commercial zone. The 1880 shoreline passes through one-third of the site, there is fill material on the site. Soil and groundwater investigations were

STATION HOUSE SOUTH CONDOMINIUMS (CENTRAL STATION/WOOD STREE (Continued) **S121475984**

conducted between 1997 and 2005, finding: lead, arsenic, petroleum hydrocarbons, polynuclear aromatic hydrocarbons and chlorinated solvents. The site is currently a vacant lot.

Click here to access the California GeoTracker records for this facility:

R103 **OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 672** **CA UST** **U004267032**
NW **11TH STREET** **N/A**
1/8-1/4 **OAKLAND, CA 94607**
0.247 mi.
1304 ft. **Site 9 of 10 in cluster R**

Relative:
Lower

Actual:
11 ft.

MILITARY UST SITES:

Global ID:	T0600137823
Case Type:	Military UST Site
Status:	Completed - Case Closed
Status Date:	01/10/2008
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker:	UUU
Local Agency:	Not reported
RB Case Number:	01D9614
Loc Case Number:	Not reported
File Location:	Regional Board
Potential Contaminants of Concern:	Heating Oil / Fuel Oil
Potential Media Affected:	Soil
Site History:	Site closure letter same as site UST 651
Begin Date:	1999-09-09 00:00:00
How Discovered:	Other Means
How Discovered Description:	The Army conducted an investigation of the suspected UST locations identified by the Port during its Phase II Investigation activities in 2002 (IT Corporation,2002)
Stop Method:	Not reported
Stop Description:	Not reported
Latitude:	37.812988
Longitude:	-122.306789
Geotracker:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600137823

R104 **OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 672** **CA CERS TANKS** **S121752595**
NW **11TH STREET** **CA CERS** **N/A**
1/8-1/4 **OAKLAND, CA 94607**
0.247 mi.
1304 ft. **Site 10 of 10 in cluster R**

Relative:
Lower

Actual:
11 ft.

CERS TANKS:

Site ID:	216467
CERS ID:	T0600137823
CERS Description:	Military Underground Storage Tank Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported

OAKLAND ARMY BASE - OAKLAND ARMY BASE - UST 672 (Continued) **S121752595**

Affiliation Zip: Not reported
Affiliation Phone: Not reported

T105
SE
1/8-1/4
0.248 mi.
1310 ft.

USPS - OAKLAND VMF
1675 7TH ST
OAKLAND, CA 94615

CA UST

U003804917
N/A

Site 2 of 9 in cluster T

Relative:
Higher

Actual:
14 ft.

UST:
Facility ID: 122
Permitting Agency: OAKLAND, CITY OF
Latitude: 37.8075909
Longitude: -122.2989843

Facility ID: Not reported
Permitting Agency: Alameda County Environmental Health
Latitude: 37.80518
Longitude: -122.30073

ALAMEDA CO. UST:
Facility ID: FA0321461
Facility Status: Active
Program Element: 4103
Description: UNDERGROUND STORAGE TANK 3 CONTAINERS
Inspection Date: 04/06/2019
Closed: Not reported
Owner Name: U.S. POSTAL SERVICE
Owner ID: OW0315406
Fstatus Decode: Open

T106
SE
1/8-1/4
0.248 mi.
1310 ft.

MAIN POST OFFICE
1675 7TH STREET
OAKLAND, CA 94615

CA AST
CA HIST UST
CA HAZNET

S112853803
N/A

Site 3 of 9 in cluster T

Relative:
Higher

Actual:
14 ft.

AST:
Certified Unified Program Agencies: Not reported
Owner: U.S. POSTAL SERVICE
Total Gallons: Not reported
CERSID: 10411021
Facility ID: Not reported
Business Name: USPS - Oakland VMF
Phone: (510) 874-8462
Fax: (510) 433-7555
Mailing Address: 1675 7TH STREET
Mailing Address City: OAKLAND
Mailing Address State: CA
Mailing Address Zip Code: 94615
Operator Name: U.S. POSTAL SERVICE
Operator Phone: (510) 874-8462
Owner Phone: (510) 874-8282
Owner Mail Address: 1675 7TH STREET
Owner State: CA

MAIN POST OFFICE (Continued) **S112853803**

Owner Zip Code: 94615
Owner Country: United States
Property Owner Name: U.S. POSTAL SERVICE
Property Owner Phone: (510) 874-8462
Property Owner Mailing Address: 1675 7TH STREET
Property Owner City: OAKLAND
Property Owner Stat : CA
Property Owner Zip Code: 94615
Property Owner Country: United States
EPAID: CA6180090148

HIST UST:
File Number: 000362E2
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000362E2.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

HAZNET:
Facility Name: U.S. POSTAL SERVICE, ADM. SERVICES
envid: S112853803
Year: 1994
GEPAID: CAC000929408
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: Not reported
Mailing City,St,Zip: OAKLAND, CA 946150000
Gen County: Not reported

MAIN POST OFFICE (Continued) **S112853803**

TSD EPA ID:	NYD986980233
TSD County:	Not reported
Waste Category:	Not reported
Disposal Method:	Treatment, Incineration
Tons:	.0000
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	1

envid:	S112853803
Year:	1994
GEPAID:	CAC000929408
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	Not reported
Mailing City,St,Zip:	OAKLAND, CA 946150000
Gen County:	Not reported
TSD EPA ID:	NYD986980233
TSD County:	Not reported
Waste Category:	Polychlorinated biphenyls and material containing PCBs
Disposal Method:	Recycler
Tons:	.7747
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	1

T107 **SE** **1/8-1/4** **0.248 mi.** **1310 ft.**	**US POSTAL SERVICE - BUILDING M** **1675 7TH STREET** **OAKLAND, CA 94615** **Site 4 of 9 in cluster T**	**CA ENVIROSTOR** **CA LUST** **CA CPS-SLIC** **CA Alameda County CS** **CA VCP** **CA EMI** **CA HIST CORTESE** **CA NPDES** **CA WDS** **CA CIWQS** **CA CERS**	**S100947861** **N/A**
Relative: **Higher** **Actual:** **14 ft.**			

ENVIROSTOR:

Facility ID:	1430001
Status:	Certified
Status Date:	02/01/1995
Site Code:	200497
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	2.5
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Lynn Nakashima
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED

US POSTAL SERVICE - BUILDING M (Continued) **S100947861**

Funding:	Responsible Party
Latitude:	37.80518
Longitude:	-122.3007
APN:	NONE SPECIFIED
Past Use:	UNKNOWN
Potential COC:	Lead
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

LUST:

Lead Agency:	ALAMEDA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100443
Global Id:	T0600100443
Latitude:	37.8051387832371
Longitude:	-122.301650047302
Status:	Completed - Case Closed
Status Date:	05/20/2014
Case Worker:	Not reported
RB Case Number:	01-0487
Local Agency:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	RO0000016
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	In November 1991, one 5,000-gallon gasoline UST, two 10,000-gallon diesel USTs, one 750-gallon waste-oil UST, dispensers, and associated piping were removed from the site and replaced with two diesel USTs and one aboveground WOT. Elevated petroleum hydrocarbons were reported in soil collected from the excavation sidewalls. In June 1992, one 10,000-gallon diesel UST was removed. Groundwater contained 72,000 a%g/L TPHd. Monitoring wells were installed in 1994. Free product was observed in MW-4 in the June 2002 monitoring event. Free product bailing and adsorbent socks were deployed. Groundwater monitoring discontinued in 2003. The site was evaluated for case closure under the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy and was closed on May 20, 2014. Based upon the information available in our files to date, no

US POSTAL SERVICE - BUILDING M (Continued) **S100947861**

further investigation or cleanup for the fuel leak case is necessary at this time. Not all historic documents for the fuel leak case may be available on GeoTracker. A more complete historic case file for this site is located on the Alameda County Environmental Health website at: http://ehgis.acgov.org/dehpublic/dehpublic.jsp.

LUST:

Global Id:	T0600100443
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0600100443
Action Type:	Other
Date:	11/13/1991
Action:	Leak Reported
Global Id:	T0600100443
Action Type:	RESPONSE
Date:	09/24/2013
Action:	Request for Closure - Regulator Responded
Global Id:	T0600100443
Action Type:	RESPONSE
Date:	05/19/2014
Action:	Well Destruction Report - Regulator Responded
Global Id:	T0600100443
Action Type:	RESPONSE
Date:	04/30/2013
Action:	Monitoring Report - Semi-Annually
Global Id:	T0600100443
Action Type:	ENFORCEMENT
Date:	07/24/2009
Action:	Staff Letter - #20090724
Global Id:	T0600100443
Action Type:	ENFORCEMENT
Date:	07/24/2009
Action:	Notice of Violation - #20090724
Global Id:	T0600100443
Action Type:	ENFORCEMENT
Date:	07/22/2011
Action:	Staff Letter - #20110722
Global Id:	T0600100443
Action Type:	ENFORCEMENT
Date:	07/25/2013
Action:	Staff Letter - #20130725

US POSTAL SERVICE - BUILDING M (Continued) **S100947861**

Global Id:	T0600100443
Action Type:	REMEDIATION
Date:	11/08/1991
Action:	Excavation
Global Id:	T0600100443
Action Type:	ENFORCEMENT
Date:	11/19/2013
Action:	Notification - Public Notice of Case Closure - #20131119
Global Id:	T0600100443
Action Type:	ENFORCEMENT
Date:	01/22/2014
Action:	Staff Letter - #20140122
Global Id:	T0600100443
Action Type:	ENFORCEMENT
Date:	05/20/2014
Action:	Closure/No Further Action Letter - #20140520
Global Id:	T0600100443
Action Type:	Other
Date:	11/13/1991
Action:	Leak Discovery
Global Id:	T0600100443
Action Type:	Other
Date:	11/08/1991
Action:	Leak Stopped

LUST:

Global Id:	T0600100443
Status:	Completed - Case Closed
Status Date:	05/20/2014
Global Id:	T0600100443
Status:	Open - Case Begin Date
Status Date:	11/08/1991
Global Id:	T0600100443
Status:	Open - Eligible for Closure
Status Date:	11/19/2013
Global Id:	T0600100443
Status:	Open - Site Assessment
Status Date:	10/08/1999

LUST REG 2:

Region:	2
Facility Id:	01-0487
Facility Status:	Preliminary site assessment underway
Case Number:	3775
How Discovered:	Tank Closure
Leak Cause:	Structure Failure
Leak Source:	Tank

US POSTAL SERVICE - BUILDING M (Continued) **S100947861**

Date Leak Confirmed: 3/23/1992
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 1/2/1965
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CPS-SLIC:
Region: STATE
Facility Status: **Open - Inactive**
Status Date: 01/21/2016
Global Id: T10000001615
Lead Agency: ALAMEDA COUNTY LOP
Lead Agency Case Number: RO0003012
Latitude: 37.8061899056257
Longitude: -122.301435470581
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: Not reported
File Location: Local Agency Warehouse
Potential Media Affected: Not reported
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: In 2009 the Postal Service installed an elevator which required an excavation of approximately 15 feet square by 10 feet deep. During the excavtion fuel odors and stanied soil were encountered. Subsequent soil sampling was performed on April 23, 2009 and May 12, 2009. The maximum detected concentrations were 12,000 ppm TPHd, 400 ppm TPHg, 430 ppm TPHmo, 11 ppm naphthalene, and 3.4 ppm arsenic. While groundwater was said to be encountered between 10 and 10.5 feet in the excavation, no sample was collected. The case is currently inactive.

Click here to access the California GeoTracker records for this facility:

Alameda County CS:
Status: Pollution Characterization
Record Id: RO0000016
PE: 5602
Facility Status: Pollution Charaterization
Latitude: 37.806334925
Longitude: -122.30013342

Status: Case Closed
Record Id: RO0000016
PE: 5602
Facility Status: Case Closed
Latitude: 37.806334925
Longitude: -122.30013342

Status: Leak Confirmation
Record Id: RO0003012
PE: 5502
Facility Status: Leak Confirmation

US POSTAL SERVICE - BUILDING M (Continued) **S100947861**

Latitude: Not reported
Longitude: Not reported

Status: Pollution Characterization
Record Id: RO0003012
PE: 5502
Facility Status: Pollution Charaterization
Latitude: Not reported
Longitude: Not reported

Status: Case Closed
Record Id: RO0003012
PE: 5502
Facility Status: Case Closed
Latitude: Not reported
Longitude: Not reported

VCP:
Facility ID: 1430001
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 2.5
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Lynn Nakashima
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Site Code: 200497
Assembly: 18
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified
Status Date: 02/01/1995
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.80518 / -122.3007
APN: NONE SPECIFIED
Past Use: UNKNOWN
Potential COC: 30013
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported

US POSTAL SERVICE - BUILDING M (Continued) **S100947861**

Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

EMI:

Year: 2011
County Code: 1
Air Basin: SF
Facility ID: 21130
Air District Name: BA
SIC Code: 4311
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.004
Reactive Organic Gases Tons/Yr: 0.0033468
Carbon Monoxide Emissions Tons/Yr: 0.018
NOX - Oxides of Nitrogen Tons/Yr: 0.03
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Year: 2012
County Code: 1
Air Basin: SF
Facility ID: 21130
Air District Name: BA
SIC Code: 4311
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.004
Reactive Organic Gases Tons/Yr: 0.0033468
Carbon Monoxide Emissions Tons/Yr: 0.018
NOX - Oxides of Nitrogen Tons/Yr: 0.03
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0.0030737704918
Part. Matter 10 Micrometers and Smllr Tons/Yr:0.003

Year: 2013
County Code: 1
Air Basin: SF
Facility ID: 21130
Air District Name: BA
SIC Code: 4311
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.004
Reactive Organic Gases Tons/Yr: 0.0033468
Carbon Monoxide Emissions Tons/Yr: 0.018
NOX - Oxides of Nitrogen Tons/Yr: 0.03
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0.003

US POSTAL SERVICE - BUILDING M (Continued) **S100947861**

Part. Matter 10 Micrometers and Smllr Tons/Yr: 0.003

Year: 2014
County Code: 1
Air Basin: SF
Facility ID: 21130
Air District Name: BA
SIC Code: 4311
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.003041939
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0.018485967
NOX - Oxides of Nitrogen Tons/Yr: 0.030133683
SOX - Oxides of Sulphur Tons/Yr: 3.1918e-005
Particulate Matter Tons/Yr: 0.002154043
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0.002067881

Year: 2015
County Code: 1
Air Basin: SF
Facility ID: 21130
Air District Name: BA
SIC Code: 4311
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.002923147
Reactive Organic Gases Tons/Yr: 0.002823285
Carbon Monoxide Emissions Tons/Yr: 0.01405036
NOX - Oxides of Nitrogen Tons/Yr: 0.031218513
SOX - Oxides of Sulphur Tons/Yr: 2.4348e-005
Particulate Matter Tons/Yr: 0.000832121
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0.000798837

Year: 2016
County Code: 1
Air Basin: SF
Facility ID: 21130
Air District Name: BA
SIC Code: 4311
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.002923147
Reactive Organic Gases Tons/Yr: 0.0025679846395
Carbon Monoxide Emissions Tons/Yr: 0.01405036
NOX - Oxides of Nitrogen Tons/Yr: 0.031218517
SOX - Oxides of Sulphur Tons/Yr: 2.4348e-005
Particulate Matter Tons/Yr: 0.000832121
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0.000798837

HIST CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA

US POSTAL SERVICE - BUILDING M (Continued) **S100947861**

Reg Id: 01-0487

NPDES:

Facility Status:	Active
NPDES Number:	CAS000001
Region:	2
Agency Number:	0
Regulatory Measure ID:	180801
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	2 01NEC000555
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/21/1992
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	2070 N Broadway Road
Discharge Name:	US Postal Service
Discharge City:	Walnut Creek
Discharge State:	California
Discharge Zip:	94596
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	180801
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 01NEC000555
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/21/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	US Postal Service
Discharge Address:	2070 N Broadway Road
Discharge City:	Walnut Creek
Discharge State:	California
Discharge Zip:	94596
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported

US POSTAL SERVICE - BUILDING M (Continued) **S100947861**

Contact Title: Not reported
Contact Phone: Not reported
Contact Phone Ext: Not reported
Contact Email: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported
Operator Contact: Not reported
Operator Contact Title: Not reported
Operator Contact Phone: Not reported
Operator Contact Phone Ext: Not reported
Operator Contact Email: Not reported
Operator Type: Not reported
Developer: Not reported
Developer Address: Not reported
Developer City: Not reported
Developer State: Not reported
Developer Zip: Not reported
Developer Contact: Not reported
Developer Contact Title: Not reported
Constype Linear Utility Ind: Not reported
Emergency Phone: Not reported
Emergency Phone Ext: Not reported
Constype Above Ground Ind: Not reported
Constype Below Ground Ind: Not reported
Constype Cable Line Ind: Not reported
Constype Comm Line Ind: Not reported
Constype Commertial Ind: Not reported
Constype Electrical Line Ind: Not reported
Constype Gas Line Ind: Not reported
Constype Industrial Ind: Not reported
Constype Other Description: Not reported
Constype Other Ind: Not reported
Constype Recons Ind: Not reported
Constype Residential Ind: Not reported
Constype Transport Ind: Not reported
Constype Utility Description: Not reported
Constype Utility Ind: Not reported
Constype Water Sewer Ind: Not reported
Dir Discharge Uswater Ind: Not reported
Receiving Water Name: Not reported
Certifier: Not reported
Certifier Title: Not reported
Certification Date: Not reported
Primary Sic: Not reported
Secondary Sic: Not reported
Tertiary Sic: Not reported

NPDES Number: Not reported
Status: Not reported
Agency Number: Not reported
Region: 2
Regulatory Measure ID: 180801
Order Number: Not reported
Regulatory Measure Type: Industrial

US POSTAL SERVICE - BUILDING M (Continued) **S100947861**

Place ID: Not reported
WDID: 2 01NEC000555
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Not reported
Discharge Address: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
Received Date: 09/09/2015
Processed Date: 04/21/1992
Status: Active
Status Date: 09/09/2015
Place Size: 892980
Place Size Unit: Acres
Contact: Ernesto Eugenio Jr.
Contact Title: Not reported
Contact Phone: 510-874-8462
Contact Phone Ext: Not reported
Contact Email: ernesto.eugeniojr@usps.gov
Operator Name: US Postal Service
Operator Address: 2070 N Broadway Road
Operator City: Walnut Creek
Operator State: California
Operator Zip: 94596
Operator Contact: Ernesto Eugenio Jr.
Operator Contact Title: Manager vehicle maintenance
Operator Contact Phone: 510-874-8471
Operator Contact Phone Ext: Not reported
Operator Contact Email: ernesto.eugeniojr@usps.gov
Operator Type: Federal Agency
Developer: Not reported
Developer Address: Not reported
Developer City: Not reported
Developer State: California
Developer Zip: Not reported
Developer Contact: Not reported
Developer Contact Title: Not reported
Constype Linear Utility Ind: Not reported
Emergency Phone: 510-874-8462
Emergency Phone Ext: Not reported
Constype Above Ground Ind: Not reported
Constype Below Ground Ind: Not reported
Constype Cable Line Ind: Not reported
Constype Comm Line Ind: Not reported
Constype Commertial Ind: Not reported
Constype Electrical Line Ind: Not reported
Constype Gas Line Ind: Not reported
Constype Industrial Ind: Not reported
Constype Other Description: Not reported
Constype Other Ind: Not reported
Constype Recons Ind: Not reported
Constype Residential Ind: Not reported
Constype Transport Ind: Not reported

US POSTAL SERVICE - BUILDING M (Continued) **S100947861**

Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Y
Receiving Water Name:	San Francisco Bay
Certifier:	Gerard Koontz
Certifier Title:	Manager Fleet Operations (Region)
Certification Date:	26-SEP-16
Primary Sic:	4311-United States Postal Service
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	2 01NEC000555
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	09/09/2015
Operator Name:	US Postal Service
Operator Address:	2070 N Broadway Road
Operator City:	Walnut Creek
Operator State:	California
Operator Zip:	94596

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	180801
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 01NEC000555
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/21/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	US Postal Service
Discharge Address:	2070 N Broadway Road
Discharge City:	Walnut Creek

US POSTAL SERVICE - BUILDING M (Continued) **S100947861**

Discharge State:	California
Discharge Zip:	94596
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported

US POSTAL SERVICE - BUILDING M (Continued) **S100947861**

Tertiary Sic: Not reported

NPDES Number: Not reported
Status: Not reported
Agency Number: Not reported
Region: 2
Regulatory Measure ID: 180801
Order Number: Not reported
Regulatory Measure Type: Industrial
Place ID: Not reported
WDID: 2 01NEC000555
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Not reported
Discharge Address: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
Received Date: 09/09/2015
Processed Date: 04/21/1992
Status: Active
Status Date: 09/09/2015
Place Size: 892980
Place Size Unit: Acres
Contact: Ernesto Eugenio Jr.
Contact Title: Not reported
Contact Phone: 510-874-8462
Contact Phone Ext: Not reported
Contact Email: ernesto.eugeniojr@usps.gov
Operator Name: US Postal Service
Operator Address: 2070 N Broadway Road
Operator City: Walnut Creek
Operator State: California
Operator Zip: 94596
Operator Contact: Ernesto Eugenio Jr.
Operator Contact Title: Manager vehicle maintenance
Operator Contact Phone: 510-874-8471
Operator Contact Phone Ext: Not reported
Operator Contact Email: ernesto.eugeniojr@usps.gov
Operator Type: Federal Agency
Developer: Not reported
Developer Address: Not reported
Developer City: Not reported
Developer State: California
Developer Zip: Not reported
Developer Contact: Not reported
Developer Contact Title: Not reported
Constype Linear Utility Ind: Not reported
Emergency Phone: 510-874-8462
Emergency Phone Ext: Not reported
Constype Above Ground Ind: Not reported
Constype Below Ground Ind: Not reported
Constype Cable Line Ind: Not reported
Constype Comm Line Ind: Not reported

US POSTAL SERVICE - BUILDING M (Continued) **S100947861**

Constype Commertial Ind: Not reported
Constype Electrical Line Ind: Not reported
Constype Gas Line Ind: Not reported
Constype Industrial Ind: Not reported
Constype Other Description: Not reported
Constype Other Ind: Not reported
Constype Recons Ind: Not reported
Constype Residential Ind: Not reported
Constype Transport Ind: Not reported
Constype Utility Description: Not reported
Constype Utility Ind: Not reported
Constype Water Sewer Ind: Not reported
Dir Discharge Uswater Ind: Y
Receiving Water Name: San Francisco Bay
Certifier: Gerard Koontz
Certifier Title: Manager Fleet Operations (Region)
Certification Date: 26-SEP-16
Primary Sic: 4311-United States Postal Service
Secondary Sic: Not reported
Tertiary Sic: Not reported

WDS:
Facility ID: San Francisco Bay 01I006115
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 2
Facility Telephone: 5108748462
Facility Contact: VMF MANAGER
Agency Name: US POSTAL SER
Agency Address: 1675 7th St
Agency City,St,Zip: Oakland 946150002
Agency Contact: VMF MANAGER
Agency Telephone: 8002758777
Agency Type: ?
SIC Code: 0
SIC Code 2: Not reported
Primary Waste Type: Not reported
Primary Waste: Not reported
Waste Type2: Not reported
Waste2: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order

US POSTAL SERVICE - BUILDING M (Continued) **S100947861**

should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CIWQS:

Agency:	US Postal Service
Agency Address:	2070 N Broadway Road, Walnut Creek, CA 94596
Place/Project Type:	Industrial - United States Postal Service
SIC/NAICS:	4311
Region:	2
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	2 01NEC000555
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	04/21/1992
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	37.80493
Longitude:	-122.30053

CERS TANKS:

Site ID:	257645
CERS ID:	T0600100443
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Site ID:	260078
CERS ID:	T10000001615
CERS Description:	Cleanup Program Site

US POSTAL SERVICE - BUILDING M (Continued) **S100947861**

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

T108	**USPS - OAKLAND VMF**	**RCRA NonGen / NLR**	**1000376240**
SE	**1675 7TH ST**	**PADS**	**CA6180090148**
1/8-1/4	**OAKLAND, CA 94615**	**FINDS**	
0.248 mi.			
1310 ft.	**Site 5 of 9 in cluster T**		

Relative:
Higher

Actual:
14 ft.

RCRA NonGen / NLR:
Date form received by agency: 10/22/1996
Facility name: US POSTAL SERVICW
Facility address: 1675 7TH AVE
OAKLAND, CA 94606
EPA ID: CA6180090148
Mailing address: 1675 SEVENTH STREET
OAKLAND, CA 94515
Contact: ENVIRONMENTAL MANAGER
Contact address: 1675 SEVENTH STREET
OAKLAND, CA 94515
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: US POSTAL SERVICE
Owner/operator address: 1675 7TH STREET
OAKLAND, CA 94615
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Federal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No

USPS - OAKLAND VMF (Continued) **1000376240**

Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Facility Has Received Notices of Violations:

Regulation violated:	FR - 262.40-43.D
Area of violation:	Generators - General
Date violation determined:	12/16/1996
Date achieved compliance:	12/16/2001
Violation lead agency:	EPA
Enforcement action:	Not reported
Enforcement action date:	Not reported
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	Not reported
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Evaluation Action Summary:

Evaluation date:	10/22/1996
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - General
Date achieved compliance:	12/16/2001
Evaluation lead agency:	EPA

PADS:

EPAID:	CA6180090148
Facility name:	PROCESSING AND DISTRIBUTION CENTER
Facility Address:	1675 7TH STREET OAKLAND, CA 94615-9343
Facility country:	US
Generator:	Yes
Storer:	No
Transporter:	No
Disposer:	No
Research facility:	No
Smelter:	No
Facility owner name:	U.S. POSTAL SERVICE
Contact title:	Not reported
Contact name:	LESTER E BURTNER
Contact tel:	510-874-8316
Contact extension:	Not reported
Contact Email:	Not reported
Mailing address:	1675 7TH STREET OAKLAND, CA 94615-9343
Mailing country:	US
Cert. date:	10/06/2000

USPS - OAKLAND VMF (Continued) **1000376240**

FINDS:

Registry ID: 110059732552

Environmental Interest/Information System
STATE MASTER

Registry ID: 110058334681

Environmental Interest/Information System
AIR EMISSIONS CLASSIFICATION UNKNOWN

Registry ID: 110066561376

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

T109 **SE** **1/8-1/4** **0.248 mi.** **1310 ft.**	**USPS - OAKLAND P&DC** **1675 7TH ST** **OAKLAND, CA 94615** **Site 6 of 9 in cluster T**	**CA CERS HAZ WASTE** **CA CERS**	**S121792150** **N/A**

Relative:
Higher

Actual:
14 ft.

CERS HAZ WASTE:

Site ID:	79564
CERS ID:	10411012
CERS Description:	Hazardous Waste Generator

Violations:

Site ID:	79564
Site Name:	USPS - Oakland P&DC
Violation Date:	06-18-2018
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 07/13/2018. "OBSERVATION: The facility has not annually reviewed and certified that the business plan is complete, accurate, and up-to-date. The hazardous materials inventory page does not include the diesel or the sulfuric acid in the gel cell batteries. The hydraulic oil largest container size is listed as 55 gallons instead of 120 gallons and the max daily amount is listed as 1 gallon instead of 565 gallons. The used ink largest container size is listed as 1 gallon instead of 55 gallons and the max daily amount is listed as 1 gallon instead of 55 gallons. The refrigerant gas R134a largest container size is listed 26 pounds instead of 30 pounds and max daily amount is listed as 1 pound instead of 150 pounds. The Refrigerant R12 max daily amount is not accurate. The Refrigerant Gas R-22 max daily amount is not accurate. The Refrigerant gas R-408A max daily amount is not accurate. The Refrigerant R410A max daily amount is not accurate. CORRECTIVE ACTION: Review, revise, and certify [Truncated]
Violation Division:	Alameda County Environmental Health

USPS - OAKLAND P&DC (Continued) **S121792150**

Violation Program: HMRRP
Violation Source: CERS

Site ID: 79564
Site Name: USPS - Oakland P&DC
Violation Date: 03-14-2014
Citation: 22 CCR 23 66273.34 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.34
Violation Description: Failure to properly label the following categories of universal waste as: 1) Each batteries or the container in which the batteries are contained as "Universal Waste-Battery(ies)". 2) Each mercury-containing equipment or the container in which the mercury-containing equipment is contained as "Universal Waste -Mercury-Containing Equipment". 3) Each Florescent lamp or the container or package in which the lamps are contained as "Universal Waste-Lamp(s)". 4) Each electronic devices or the container or pallet in or on which the electronic devices are contained as "Universal Waste-Electronic Device(s)". 5) Each CRTs or the container or pallet in or on which the CRTs are contained as "Universal Waste-CRT(s)". 6) A container of CRT glass shall be labeled or marked clearly with the following phrase: "Universal Waste-CRT glass". 7) In lieu of labeling individual electronic devices, CRTs, and/or containers of CRT glass pursuant to subsections d) through f) of this section, a universal waste handler may combine, package, and accumulate those universal wastes in appropriate containers or within a designated area demarcated by boundaries that are clearly labeled with the applicable portion(s) of the following phrase: "Universal Waste-Electronic Device(s)/Universal Waste - CRT(s)/Universal Waste-CRT Glass".
Violation Notes: Returned to compliance on 11/20/2014. Fluorescent light bulbs were not labeled as universal waste.
Violation Division: Oakland City Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 79564
Site Name: USPS - Oakland P&DC
Violation Date: 03-14-2014
Citation: 22 CCR 12 66262.42 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.42
Violation Description: Failure to complete the uniform hazardous waste manifest exception requirements.
Violation Notes: Returned to compliance on 11/20/2014. A TSDF copy of the manifest for asbestos was not received within 30 days; and no one sent an exception letter to DTSC on the 35th day.
Violation Division: Oakland City Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 79564
Site Name: USPS - Oakland P&DC
Violation Date: 06-18-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 07/13/2018. OBSERVATION: The facility has

USPS - OAKLAND P&DC (Continued) **S121792150**

	not submitted the Hazardous Materials Inventory Chemical Description page for the diesel and sulfuric acid in the gel batteries on site. The hydraulic oil largest container size is listed as 55 gallons instead of 120 gallons and the max daily amount is listed as 1 gallon instead of 565 gallons. The used ink largest container size is listed as 1 gallon instead of 55 gallons and the max daily amount is listed as 1 gallon instead of 55 gallons. The refrigerant gas R134a largest container size is listed 26 pounds instead of 30 pounds and max daily amount is listed as 1 pound instead of 150 pounds. The Refrigerant R12 max daily amount is not accurate. The Refrigerant Gas R-22 max daily amount is not accurate. The Refrigerant gas R-408A max daily amount is not accurate. The Refrigerant R410A max daily amount is not accurate. CORRECTIVE ACTION: Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed [Truncated]
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	79564
Site Name:	USPS - Oakland P&DC
Violation Date:	03-14-2014
Citation:	40 CFR 1 265.201(c)(5) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.201(c)(5)
Violation Description:	Failure to conduct weekly inspections of the construction materials, fixtures, and surrounding areas of the hazardous waste tanks.
Violation Notes:	Returned to compliance on 11/20/2014. Based on the condition of the 90-day combustible hazardous waste storage area weekly inspections have not been performed.
Violation Division:	Oakland City Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	79564
Site Name:	USPS - Oakland P&DC
Violation Date:	06-17-2016
Citation:	22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description:	Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes:	Returned to compliance on 06/17/2016. Observations: EPA generator ID number is currently inactive. Corrective Action: reactivate the EPA generator number and notify ACDEH when the number has been reactivated. During the inspection the facility contacted Cal EPA and reactivated the generator ID and violation was corrected during the inspection and no further action is required.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	79564
Site Name:	USPS - Oakland P&DC
Violation Date:	03-14-2014
Citation:	40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)
Violation Description:	Failure to ensure employees are familiar with the handling and

USPS - OAKLAND P&DC (Continued) **S121792150**

	compliance of hazardous waste regulations and emergency response.
Violation Notes:	Returned to compliance on 11/20/2014. Based on the general condition of hazardous waste storage areas i.e., accumulation dates exceeded, insufficient aisle space, stacking of hazardous waste containers etc., employee hazardous waste management training should be repeated.
Violation Division:	Oakland City Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	79564
Site Name:	USPS - Oakland P&DC
Violation Date:	06-18-2018
Citation:	HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler’s operations that requires modification to any portion of the business plan.
Violation Notes:	Returned to compliance on 07/13/2018. OBSERVATION: The business plan has not been updated and submitted to this department within 30 days of changes to the hazardous materials inventory. The hazardous materials inventory page does not include the diesel or the sulfuric acid in the gel cell batteries. The hydraulic oil largest container size is listed as 55 gallons instead of 120 gallons and the max daily amount is listed as 1 gallon instead of 565 gallons. The used ink largest container size is listed as 1 gallon instead of 55 gallons and the max daily amount is listed as 1 gallon instead of 55 gallons. The refrigerant gas R134a largest container size is listed 26 pounds instead of 30 pounds and max daily amount is listed as 1 pound instead of 150 pounds. The Refrigerant R12 max daily amount is not accurate. The Refrigerant Gas R-22 max daily amount is not accurate. The Refrigerant gas R-408A max daily amount is not accurate. The Refrigerant R410A max daily amount is not accurate. CORRECTIVE ACTION: Review, [Truncated]
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	79564
Site Name:	USPS - Oakland P&DC
Violation Date:	02-18-2016
Citation:	HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description:	Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 02/26/2016.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	79564
Site Name:	USPS - Oakland P&DC
Violation Date:	03-14-2014

USPS - OAKLAND P&DC (Continued) **S121792150**

Citation:	22 CCR 12 66262.34(b)(1) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(b)(1)
Violation Description:	Failure to dispose of hazardous waste after the first 100-kilogram threshold amount was accumulated within a 90 day period.
Violation Notes:	Returned to compliance on 11/20/2014. 6-containers in the outside hazardous waste combustible storage enclosure exceeded the 90-day waste accumulation date.
Violation Division:	Oakland City Fire Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	79564
Site Name:	USPS - Oakland P&DC
Violation Date:	06-18-2018
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 08/01/2018. OBSERVATION: Two 5 gallon containers of used oil did not have a hazardous waste label. All hazardous waste containers shall be marked with the following information: 1) the words Hazardous Waste ; 2) name and address of generator; 3) hazardous properties; 4) physical state; 5) composition (contents); 6) accumulation start date. CORRECTIVE ACTION: Immediately label these containers and ensure that all containers are marked with all the required information. Submit evidence to the CUPA within 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS

Site ID:	79564
Site Name:	USPS - Oakland P&DC
Violation Date:	06-18-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 07/13/2018. OBSERVATION: A complete business plan has not been received by the CUPA. The hazardous materials inventory page does not include the diesel or the sulfuric acid in the gel cell batteries. The hydraulic oil largest container size is listed as 55 gallons instead of 120 gallons and the max daily amount is listed as 1 gallon instead of 565 gallons. The used ink largest container size is listed as 1 gallon instead of 55 gallons and the max daily amount is listed as 1 gallon instead of 55 gallons. The refrigerant gas R134a largest container size is listed 26 pounds instead of 30 pounds and max daily amount is listed as 1 pound instead of 150 pounds. The Refrigerant R12 max daily amount is not accurate. The Refrigerant Gas R-22 max daily amount is not accurate. The Refrigerant gas R-408A max daily amount is not accurate. The Refrigerant R410A max daily amount is not accurate. CORRECTIVE ACTION: Complete and submit the Hazardous Materials Inventory Chemical

USPS - OAKLAND P&DC (Continued) **S121792150**

Description page for [Truncated]
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-18-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH (ACDEH) ON SITE FOR HAZARDOUS MATERIALS BUSINESS (HMBP) INSPECTION. ESCORTED BY LUCIANO REYES, JR, THE MAINTENANCE ENGINEERING SPECIALIST. ALL VIOLATIONS NOTED IN THE INSPECTION REPORT SHALL BE CORRECTED BY JULY 18, 2018 AND ANY VERIFICATION DOCUMENTATION SUBMITTED WITHIN THE SAME TIME FRAME. PLEASE UPDATE THE PRIMARY EMERGENCY CONTACT IN THE BUSINESS OWNER /OPERATOR PAGE. PLEASE VERIFY THE AMOUNT OF HAZARDOUS MATERIALS LISTED IN THE INVENTORY IS ABOVE THE REPORTING THRESHOLD (55 GALLONS LIQUID, 500 POUNDS SOLIDS AND 200 CUBIC FEET FOR COMPRESSED GAS), IF NOT THE CHEMICAL CAN BE REMOVED FROM THE INVENTORY.
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-18-2016
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBP NOV LETTER
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-14-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: During my site inspection 5-Hazardous waste management violations were =e cited.
Eval Division: Oakland City Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-17-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Completed a previously scheduled inspection for a USPS vehicle maintenance facility. Hazardous waste at the facility includes 1-1000 gallon used oil AST serviced on bi-weekly basis by Evergreen Env., 1-200 gallon used coolant AST 1-55 gallon drum of spent absorbent, used oil filters, 2-55 gallon drums of oil liquid from the oil water separator and 1-55 gallon drum of aerosol can treated as universal waste. The EPA generator ID # was reactivated during the inspection and weekly hazardous waste storage area inspections are completed and documented. All violations noted during the inspection were corrected during the inspection.

USPS - OAKLAND P&DC (Continued) **S121792150**

Eval Division:	Alameda County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-18-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH (ACDEH) ON SITE FOR HAZARDOUS WASTE GENERATOR (HWG) INSPECTION. ESCORTED BY LUCIANO REYES, JR, THE MAINTENANCE ENGINEERING SPECIALIST. ALL VIOLATIONS NOTED IN THE INSPECTION REPORT SHALL BE CORRECTED BY JULY 18, 2018 AND ANY VERIFICATION DOCUMENTATION SUBMITTED WITHIN THE SAME TIME FRAME. THE FACILITY HAS 3 EMPLOYEES THAT HANDLE HAZARDOUS WASTE. AFTER REVIEWING THE GENERATOR’S DISPOSAL RECORDS AND BUSINESS OPERATIONS, IT WAS OBSERVED THE FACILITY IS A SMALL QUANTITY HAZARDOUS WASTE GENERATOR WHO GENERATES MORE THAN 100 KG, BUT LESS THAN 1000 KG OF HAZARDOUS WASTE PER MONTH. CERTIFICATION OF RETURN TO COMPLIANCE I certify that the violation(s) noted in this Hazardous Waste Generator inspection report for USPS- Oakland P & DC conducted on June 18, 2018 located at 1675 7th St, Oakland, CA 94615 have been corrected. I have personally examined any documentation attached to the certification to establish that the [Truncated]
Eval Division:	Alameda County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-29-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Close out inspection for the USPS Container Repair Facility No violations were observed.
Eval Division:	Oakland City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-14-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	During my inspection the site HMBP was reviewed and found to need revision.
Eval Division:	Oakland City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Enforcement Action:

Site ID:	79564
Site Name:	USPS - Oakland P&DC
Site Address:	1675 7TH ST
Site City:	OAKLAND
Site Zip:	94615
Enf Action Date:	02-19-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported

USPS - OAKLAND P&DC (Continued) **S121792150**

Enf Action Division:	Alameda County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS
Site ID:	79564
Site Name:	USPS - Oakland P&DC
Site Address:	1675 7TH ST
Site City:	OAKLAND
Site Zip:	94615
Enf Action Date:	07-25-2014
Enf Action Type:	AEO - Unified Program
Enf Action Description:	Administrative Enforcement Order Based on the Unified Program Statute
Enf Action Notes:	Fines/Penalties Assessed: $500.00.
Enf Action Division:	Oakland City Fire Department
Enf Action Program:	UNSPEC
Enf Action Source:	CERS
Site ID:	79564
Site Name:	USPS - Oakland P&DC
Site Address:	1675 7TH ST
Site City:	OAKLAND
Site Zip:	94615
Enf Action Date:	07-25-2014
Enf Action Type:	AEO - Unified Program
Enf Action Description:	Administrative Enforcement Order Based on the Unified Program Statute
Enf Action Notes:	Fines/Penalties Assessed: $500.00. Failure to send copy of return to compliance within 30 days.
Enf Action Division:	Oakland City Fire Department
Enf Action Program:	UNSPEC
Enf Action Source:	CERS

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Alameda County Env Health
Entity Title:	Not reported
Affiliation Address:	1131 Harbor Parkway, Suite 240
Affiliation City:	Alameda
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94502-6577
Affiliation Phone:	(510) 567-6700
Affiliation Type Desc:	Environmental Contact
Entity Name:	Luciano Reyes, Jr.
Entity Title:	Not reported
Affiliation Address:	1675 7th Street, RM 244-1W
Affiliation City:	Oakland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94615
Affiliation Phone:	(510) 874-8315
Affiliation Type Desc:	Operator
Entity Name:	U.S. POSTAL SERVICE
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported

USPS - OAKLAND P&DC (Continued) **S121792150**

Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (510) 874-8282

Affiliation Type Desc: Parent Corporation
Entity Name: USPS - Oakland P&DC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer
Entity Name: Luciano Reyes
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1675 7th Street
Affiliation City: Oakland
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94615
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Pedro Ortiz
Entity Title: A/Senior Plant Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: U.S.Postal Service
Entity Title: Not reported
Affiliation Address: 1675 7th Street
Affiliation City: Oakland
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94615
Affiliation Phone: (510) 874-8282

USPS - OAKLAND P&DC (Continued) **S121792150**

CERS TANKS:
Site ID: 79564
CERS ID: 10411012
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 79564
Site Name: USPS - Oakland P&DC
Violation Date: 06-18-2018
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 07/13/2018. "OBSERVATION: The facility has not annually reviewed and certified that the business plan is complete, accurate, and up-to-date. The hazardous materials inventory page does not include the diesel or the sulfuric acid in the gel cell batteries. The hydraulic oil largest container size is listed as 55 gallons instead of 120 gallons and the max daily amount is listed as 1 gallon instead of 565 gallons. The used ink largest container size is listed as 1 gallon instead of 55 gallons and the max daily amount is listed as 1 gallon instead of 55 gallons. The refrigerant gas R134a largest container size is listed 26 pounds instead of 30 pounds and max daily amount is listed as 1 pound instead of 150 pounds. The Refrigerant R12 max daily amount is not accurate. The Refrigerant Gas R-22 max daily amount is not accurate. The Refrigerant gas R-408A max daily amount is not accurate. The Refrigerant R410A max daily amount is not accurate. CORRECTIVE ACTION: Review, revise, and certify [Truncated]
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 79564
Site Name: USPS - Oakland P&DC
Violation Date: 03-14-2014
Citation: 22 CCR 23 66273.34 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.34
Violation Description: Failure to properly label the following categories of universal waste as: 1) Each batteries or the container in which the batteries are contained as "Universal Waste-Battery(ies)". 2) Each mercury-containing equipment or the container in which the mercury-containing equipment is contained as "Universal Waste -Mercury-Containing Equipment". 3) Each Florescent lamp or the container or package in which the lamps are contained as "Universal Waste-Lamp(s)". 4) Each electronic devices or the container or pallet in or on which the electronic devices are contained as "Universal Waste-Electronic Device(s)". 5) Each CRTs or the container or pallet in or on which the CRTs are contained as "Universal Waste-CRT(s)". 6) A container of CRT glass shall be labeled or marked clearly with the following phrase: "Universal Waste-CRT glass". 7) In lieu of labeling individual electronic devices, CRTs, and/or containers of CRT glass pursuant to subsections d) through f) of this section, a universal waste handler may combine, package, and accumulate those universal wastes in appropriate containers or within a designated area demarcated by boundaries that are clearly labeled with the applicable

USPS - OAKLAND P&DC (Continued) **S121792150**

	portion(s) of the following phrase: "Universal Waste-Electronic Device(s)/Universal Waste - CRT(s)/Universal Waste-CRT Glass".
Violation Notes:	Returned to compliance on 11/20/2014. Fluorescent light bulbs were not labeled as universal waste.
Violation Division:	Oakland City Fire Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	79564
Site Name:	USPS - Oakland P&DC
Violation Date:	03-14-2014
Citation:	22 CCR 12 66262.42 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.42
Violation Description:	Failure to complete the uniform hazardous waste manifest exception requirements.
Violation Notes:	Returned to compliance on 11/20/2014. A TSDF copy of the manifest for asbestos was not received within 30 days; and no one sent an exception letter to DTSC on the 35th day.
Violation Division:	Oakland City Fire Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	79564
Site Name:	USPS - Oakland P&DC
Violation Date:	06-18-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 07/13/2018. OBSERVATION: The facility has not submitted the Hazardous Materials Inventory Chemical Description page for the diesel and sulfuric acid in the gel batteries on site. The hydraulic oil largest container size is listed as 55 gallons instead of 120 gallons and the max daily amount is listed as 1 gallon instead of 565 gallons. The used ink largest container size is listed as 1 gallon instead of 55 gallons and the max daily amount is listed as 1 gallon instead of 55 gallons. The refrigerant gas R134a largest container size is listed 26 pounds instead of 30 pounds and max daily amount is listed as 1 pound instead of 150 pounds. The Refrigerant R12 max daily amount is not accurate. The Refrigerant Gas R-22 max daily amount is not accurate. The Refrigerant gas R-408A max daily amount is not accurate. The Refrigerant R410A max daily amount is not accurate. CORRECTIVE ACTION: Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed [Truncated]
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	79564
Site Name:	USPS - Oakland P&DC
Violation Date:	03-14-2014
Citation:	40 CFR 1 265.201(c)(5) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.201(c)(5)
Violation Description:	Failure to conduct weekly inspections of the construction materials, fixtures, and surrounding areas of the hazardous waste tanks.

USPS - OAKLAND P&DC (Continued) **S121792150**

Violation Notes: Returned to compliance on 11/20/2014. Based on the condition of the 90-day combustible hazardous waste storage area weekly inspections have not been performed.
Violation Division: Oakland City Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 79564
Site Name: USPS - Oakland P&DC
Violation Date: 06-17-2016
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes: Returned to compliance on 06/17/2016. Observations: EPA generator ID number is currently inactive. Corrective Action: reactivate the EPA generator number and notify ACDEH when the number has been reactivated. During the inspection the facility contacted Cal EPA and reactivated the generator ID and violation was corrected during the inspection and no further action is required.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 79564
Site Name: USPS - Oakland P&DC
Violation Date: 03-14-2014
Citation: 40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)
Violation Description: Failure to ensure employees are familiar with the handling and compliance of hazardous waste regulations and emergency response.
Violation Notes: Returned to compliance on 11/20/2014. Based on the general condition of hazardous waste storage areas i.e., accumulation dates exceeded, insufficient aisle space, stacking of hazardous waste containers etc., employee hazardous waste management training should be repeated.
Violation Division: Oakland City Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 79564
Site Name: USPS - Oakland P&DC
Violation Date: 06-18-2018
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler’s operations that requires modification to any portion of the business plan.
Violation Notes: Returned to compliance on 07/13/2018. OBSERVATION: The business plan has not been updated and submitted to this department within 30 days of changes to the hazardous materials inventory. The hazardous materials inventory page does not include the diesel or the sulfuric acid in the gel cell batteries. The hydraulic oil largest container

USPS - OAKLAND P&DC (Continued) **S121792150**

size is listed as 55 gallons instead of 120 gallons and the max daily amount is listed as 1 gallon instead of 565 gallons. The used ink largest container size is listed as 1 gallon instead of 55 gallons and the max daily amount is listed as 1 gallon instead of 55 gallons. The refrigerant gas R134a largest container size is listed 26 pounds instead of 30 pounds and max daily amount is listed as 1 pound instead of 150 pounds. The Refrigerant R12 max daily amount is not accurate. The Refrigerant Gas R-22 max daily amount is not accurate. The Refrigerant gas R-408A max daily amount is not accurate. The Refrigerant R410A max daily amount is not accurate. CORRECTIVE ACTION: Review, [Truncated]

Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	79564
Site Name:	USPS - Oakland P&DC
Violation Date:	02-18-2016
Citation:	HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description:	Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 02/26/2016.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	79564
Site Name:	USPS - Oakland P&DC
Violation Date:	03-14-2014
Citation:	22 CCR 12 66262.34(b)(1) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(b)(1)
Violation Description:	Failure to dispose of hazardous waste after the first 100-kilogram threshold amount was accumulated within a 90 day period.
Violation Notes:	Returned to compliance on 11/20/2014. 6-containers in the outside hazardous waste combustible storage enclosure exceeded the 90-day waste accumulation date.
Violation Division:	Oakland City Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	79564
Site Name:	USPS - Oakland P&DC
Violation Date:	06-18-2018
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 08/01/2018. OBSERVATION: Two 5 gallon containers of used oil did not have a hazardous waste label. All hazardous waste containers shall be marked with the following information: 1) the words Hazardous Waste ; 2) name and address of generator; 3) hazardous properties; 4) physical state; 5) composition

USPS - OAKLAND P&DC (Continued) **S121792150**

	(contents); 6) accumulation start date. CORRECTIVE ACTION: Immediately label these containers and ensure that all containers are marked with all the required information. Submit evidence to the CUPA within 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	79564
Site Name:	USPS - Oakland P&DC
Violation Date:	06-18-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 07/13/2018. OBSERVATION: A complete business plan has not been received by the CUPA. The hazardous materials inventory page does not include the diesel or the sulfuric acid in the gel cell batteries. The hydraulic oil largest container size is listed as 55 gallons instead of 120 gallons and the max daily amount is listed as 1 gallon instead of 565 gallons. The used ink largest container size is listed as 1 gallon instead of 55 gallons and the max daily amount is listed as 1 gallon instead of 55 gallons. The refrigerant gas R134a largest container size is listed 26 pounds instead of 30 pounds and max daily amount is listed as 1 pound instead of 150 pounds. The Refrigerant R12 max daily amount is not accurate. The Refrigerant Gas R-22 max daily amount is not accurate. The Refrigerant gas R-408A max daily amount is not accurate. The Refrigerant R410A max daily amount is not accurate. CORRECTIVE ACTION: Complete and submit the Hazardous Materials Inventory Chemical Description page for [Truncated]
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-18-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH (ACDEH) ON SITE FOR HAZARDOUS MATERIALS BUSINESS (HMBP) INSPECTION. ESCORTED BY LUCIANO REYES, JR, THE MAINTENANCE ENGINEERING SPECIALIST. ALL VIOLATIONS NOTED IN THE INSPECTION REPORT SHALL BE CORRECTED BY JULY 18, 2018 AND ANY VERIFICATION DOCUMENTATION SUBMITTED WITHIN THE SAME TIME FRAME. PLEASE UPDATE THE PRIMARY EMERGENCY CONTACT IN THE BUSINESS OWNER /OPERATOR PAGE. PLEASE VERIFY THE AMOUNT OF HAZARDOUS MATERIALS LISTED IN THE INVENTORY IS ABOVE THE REPORTING THRESHOLD (55 GALLONS LIQUID, 500 POUNDS SOLIDS AND 200 CUBIC FEET FOR COMPRESSED GAS), IF NOT THE CHEMICAL CAN BE REMOVED FROM THE INVENTORY.
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-18-2016

USPS - OAKLAND P&DC (Continued) **S121792150**

Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBP NOV LETTER
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-14-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	During my site inspection 5-Hazardous waste management violations were =e cited.
Eval Division:	Oakland City Fire Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-17-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Completed a previously scheduled inspection for a USPS vehicle maintenance facility. Hazardous waste at the facility includes 1-1000 gallon used oil AST serviced on bi-weekly basis by Evergreen Env., 1-200 gallon used coolant AST 1-55 gallon drum of spent absorbent, used oil filters, 2-55 gallon drums of oil liquid from the oil water separator and 1-55 gallon drum of aerosol can treated as universal waste. The EPA generator ID # was reactivated during the inspection and weekly hazardous waste storage area inspections are completed and documented. All violations noted during the inspection were corrected during the inspection.
Eval Division:	Alameda County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-18-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH (ACDEH) ON SITE FOR HAZARDOUS WASTE GENERATOR (HWG) INSPECTION. ESCORTED BY LUCIANO REYES, JR, THE MAINTENANCE ENGINEERING SPECIALIST. ALL VIOLATIONS NOTED IN THE INSPECTION REPORT SHALL BE CORRECTED BY JULY 18, 2018 AND ANY VERIFICATION DOCUMENTATION SUBMITTED WITHIN THE SAME TIME FRAME. THE FACILITY HAS 3 EMPLOYEES THAT HANDLE HAZARDOUS WASTE. AFTER REVIEWING THE GENERATOR’S DISPOSAL RECORDS AND BUSINESS OPERATIONS, IT WAS OBSERVED THE FACILITY IS A SMALL QUANTITY HAZARDOUS WASTE GENERATOR WHO GENERATES MORE THAN 100 KG, BUT LESS THAN 1000 KG OF HAZARDOUS WASTE PER MONTH. CERTIFICATION OF RETURN TO COMPLIANCE I certify that the violation(s) noted in this Hazardous Waste Generator inspection report for USPS- Oakland P & DC conducted on June 18, 2018 located at 1675 7th St, Oakland, CA 94615 have been corrected. I have personally examined any documentation attached to the certification to establish that the [Truncated]
Eval Division:	Alameda County Environmental Health
Eval Program:	HW
Eval Source:	CERS

USPS - OAKLAND P&DC (Continued) **S121792150**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-29-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Close out inspection for the USPS Container Repair Facility No violations were observed.
Eval Division: Oakland City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-14-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: During my inspection the site HMBP was reviewed and found to need revision.
Eval Division: Oakland City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 79564
Site Name: USPS - Oakland P&DC
Site Address: 1675 7TH ST
Site City: OAKLAND
Site Zip: 94615
Enf Action Date: 02-19-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Alameda County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 79564
Site Name: USPS - Oakland P&DC
Site Address: 1675 7TH ST
Site City: OAKLAND
Site Zip: 94615
Enf Action Date: 07-25-2014
Enf Action Type: AEO - Unified Program
Enf Action Description: Administrative Enforcement Order Based on the Unified Program Statute
Enf Action Notes: Fines/Penalties Assessed: $500.00.
Enf Action Division: Oakland City Fire Department
Enf Action Program: UNSPEC
Enf Action Source: CERS

Site ID: 79564
Site Name: USPS - Oakland P&DC
Site Address: 1675 7TH ST
Site City: OAKLAND
Site Zip: 94615
Enf Action Date: 07-25-2014
Enf Action Type: AEO - Unified Program
Enf Action Description: Administrative Enforcement Order Based on the Unified Program Statute
Enf Action Notes: Fines/Penalties Assessed: $500.00. Failure to send copy of return to compliance within 30 days.

USPS - OAKLAND P&DC (Continued) **S121792150**

Enf Action Division: Oakland City Fire Department
Enf Action Program: UNSPEC
Enf Action Source: CERS

Affiliation:

Affiliation Type Desc: CUPA District
Entity Name: Alameda County Env Health
Entity Title: Not reported
Affiliation Address: 1131 Harbor Parkway, Suite 240
Affiliation City: Alameda
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94502-6577
Affiliation Phone: (510) 567-6700

Affiliation Type Desc: Environmental Contact
Entity Name: Luciano Reyes, Jr.
Entity Title: Not reported
Affiliation Address: 1675 7th Street, RM 244-1W
Affiliation City: Oakland
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94615
Affiliation Phone: (510) 874-8315

Affiliation Type Desc: Operator
Entity Name: U.S. POSTAL SERVICE
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (510) 874-8282

Affiliation Type Desc: Parent Corporation
Entity Name: USPS - Oakland P&DC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer
Entity Name: Luciano Reyes
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address

USPS - OAKLAND P&DC (Continued) **S121792150**

Entity Title: Not reported
Affiliation Address: 1675 7th Street
Affiliation City: Oakland
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94615
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Pedro Ortiz
Entity Title: A/Senior Plant Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: U.S.Postal Service
Entity Title: Not reported
Affiliation Address: 1675 7th Street
Affiliation City: Oakland
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94615
Affiliation Phone: (510) 874-8282

T110 **MAIN OFFICE VEHICLE MAINTENANC** **CA HIST UST** **U001599438**
SE **1675-7TH STREET** **N/A**
1/8-1/4 **OAKLAND, CA 94615**
0.248 mi.
1310 ft. **Site 7 of 9 in cluster T**

Relative:
Higher

Actual:
14 ft.

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000037434
Facility Type: Other
Other Type: U.S. POSTAL SERVICE
Contact Name: Not reported
Telephone: 4158748462
Owner Name: S.S. SILBERBLATT INC.
Owner Address: 81 CENTRE AVENUE, ROOM 202
Owner City,St,Zip: NEW ROCHELLE, NY 10801
Total Tanks: 0006

Tank Num: 001
Container Num: 001
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

MAIN OFFICE VEHICLE MAINTENANC (Continued) **U001599438**

Tank Num:	002
Container Num:	001A
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	001B
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	004
Container Num:	001C
Year Installed:	Not reported
Tank Capacity:	00000550
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Visual
Tank Num:	005
Container Num:	002
Year Installed:	Not reported
Tank Capacity:	00005000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	006
Container Num:	001D
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual

T111
SE
1/8-1/4
0.248 mi.
1310 ft.

USPS - OAKLAND VMF
1675 7TH ST
OAKLAND, CA 94615

Site 8 of 9 in cluster T

CA CERS HAZ WASTE
CA CERS TANKS
CA CERS

S121792151
N/A

Relative:
Higher

Actual:
14 ft.

CERS HAZ WASTE:

Site ID:	79565
CERS ID:	10411021
CERS Description:	Hazardous Waste Generator

Violations:

Site ID:	79565

USPS - OAKLAND VMF (Continued) **S121792151**

Site Name: USPS - Oakland VMF
Violation Date: 06-17-2016
Citation: 19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes: Returned to compliance on 06/17/2016. Observations: primary facility contact lists Charley Simmons; however, Mr. Simmons retired in 3/2016 and has been replaced by Gary Pablo. Corrective Action: update CERS to reflect the correct primary emergency contact as Gary Pablo and notify ACDEH when the correction has been made to CERS. The violation was corrected during the inspection and no further action is required.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2666 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2666
Violation Description: Failure to maintain entry fitting such that it properly seals to the containment.
Violation Notes: Returned to compliance on 01/21/2017. Observations: penetration fittings into the north and middle turbine sumps are not liquid tight and in bad condition, with visible disintegration of the fittings in evidence. Corrective action: penetration fittings in the north and middle UST turbine sumps with visible signs of disintegration must be replaced, with a permit from ACDEH.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)
Violation Description: Failure to comply with one or more of the following: provide training to facility employee(s) responsible for proper operation and maintenance every 12 months and/or train new employee(s) who are responsible for proper operation and maintenance within 30-days of hire and/or to have at least one employee present during operating hours that has been trained in the proper operation and maintenance of the UST system.
Violation Notes: Returned to compliance on 01/21/2017. Observation; no employee training has been completed since May 2015 Corrective Action: once a DO has been assigned train all employees on the UST system as required.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16,

USPS - OAKLAND VMF (Continued) **S121792151**

	Section(s) 2715
Violation Description:	Failure to comply with one or more of the designated operator monthly inspection requirements: failed to inspect the monthly alarm history report; attach a copy of the alarm history; failed to inspect for the presence of liquid or debris in the spill container/spill bucket and under dispenser containment; failed to inspect the under dispenser containment to ensure that monitoring equipment is placed in the proper position; failure to inspect for liquid or debris in the containment sump where an alarm occurred or for which there is no record of a service visit; or failure to check that all testing and maintenance has been completed and documented.
Violation Notes:	Returned to compliance on 01/21/2017. Observations: the facility has an incomplete record for the required monthly designated operator inspections reports. Corrective action: monthly designated operator inspections are required to be documented and a copy of the inspection shall be maintained onsiite for review during the annual UST monitoring system certification
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016
Citation:	23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description:	Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the CUPA, for the life of the underground storage tank and/or failure to maintain written monitoring and maintenance records on site, or off site if approved by the CUPA, for a period of 3 years, 6 1/2 years for cathodic protection, and 5 years for written performance claims pertaining to release detection systems and calibration and maintenance records for such systems.
Violation Notes:	Returned to compliance on 01/21/2017. Observations: an incomplete record of UST maintenance and repair logs is available onsite. Corrective action: Maintain all UST repair, maintenance and other relevant documents onsite for the previous 3 years.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016
Citation:	23 CCR 16 2715(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)
Violation Description:	Failure to submit statement of UST compliance and/or Designated Operator certification.
Violation Notes:	Returned to compliance on 01/21/2017. Observations: DO owner statement has expired and needs to be updated Corrective Action: update the DO statement in CERS
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF

USPS - OAKLAND VMF (Continued) **S121792151**

Violation Date:	05-31-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 06/05/2018. OBSERVATION: The annotated site map submitted to the CUPA does not include all of the hazardous materials listed in the Hazardous Materials Inventory Page. CORRECTIVE ACTION: Revise the annotated Site Map to include all required content and submit electronically in the California Environmental Reporting System (CERS).
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016
Citation:	23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description:	Failure of service technician, designated operator, installer, and/or employee to obtain and maintain a proper and current International Code Council certification.
Violation Notes:	Returned to compliance on 01/21/2017. Observations: facility does not currently have designated operator Corrective action: Contact and retain the services of an ICC certified designated operator and submit the tank owner designated operator agreement into CERS.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-06-2018
Citation:	23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description:	Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 p.s.i.g. and restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes:	Returned to compliance on 04/06/2018. OBSERVATION: The T-1 Diesel (North), T-Diesel (Middle) and T-3 Diesel (South) line leak detectors failed to detect a leak when tested. All line leak detectors shall be capable of detecting a 3-gallon per hour leak at 10 psi. CORRECTIVE ACTION. The Service technician replaced the T-Diesel (Middle) line leak detector and T-3 Diesel (South) line leak detector The T-1 Diesel (North) line leak detector was adjusted. All line leak detectors were retested during the inspection and passed. This was corrected on site.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	05-31-2018
Citation:	22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter

USPS - OAKLAND VMF (Continued) **S121792151**

12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes: Returned to compliance on 06/11/2018. OBSERVATION: This facility s EPA ID number CA6180090148 is inactive. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation, hazardous waste without an EPA ID number. CORRECTIVE ACTION: Immediately contact DTSC and reactivate your EPA ID number and submit evidence to the CUPA within 30 days.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-06-2018
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to have current UST Monitoring Plan available on site.
Violation Notes: Returned to compliance on 05/25/2018. OBSERVATION: The monitoring plan on site is not approved by the CUPA. Line item 490-58 for all three tanks should be 794390-420. Please verify line item 451-b for all three tanks for Striker Plate/ Bottom Protector. The monitoring and response plans must be current and approved by the CUPA. CORRECTIVE ACTION: Submit and maintain an accurate monitoring plan. Submit corrections by May 26, 2018.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-06-2018
Citation: 23 CCR 16 2644.1(a)(4) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2644.1(a)(4)
Violation Description: Failure to notify the UPA 48 hours prior to testing.
Violation Notes: Returned to compliance on 05/24/2018. OBSERVATION: Owner/Operator did not notify the CUPA 48hours prior to testing. During the annual monitoring certification the dispensers, senor out and fail safe was not able to be tested due to not being able to authorize dispenser 4. The service technician stated that he would have to come back to the site complete the testing and that ACDEH would be notified. The test was completed on April 13, 2018, but ACDEH was not notified of the testing. CORRECTIVE ACTION: Ensure that the CUPA is provided 48 hours notification to the CUPA in the future.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: HSC 6.7 25291 - California Health and Safety Code, Chapter 6.7, Section(s) 25291
Violation Description: Failure to install leak detection equipment correct for the type of system.

USPS - OAKLAND VMF (Continued) **S121792151**

Violation Notes: Returned to compliance on 01/21/2017. Observations: Product conveyance piping for dispenser 3/4 is outside the footprint of the UDC mounting frame, and should a leak occur the fuel would may not be captured in the UDC. Corrective Action: relocate the product conveyance piping to be completely within the footprint of the UDC, thereby allowing any liquid that may be released to be captured within the UDC, and causing the electronic sensor in the UDC to alarm. Contact ACDEH prior to completing all piping replacement.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)
Violation Description: The owner/operator has failed to designate an UST operator or to inform the CUPA or any change in the designated UST operator(s) within 30 days after a change.
Violation Notes: Returned to compliance on 01/21/2017. Observations: The facility does not currently have a designated operator. Corrective Action: contact and retain the services of an ICC certified designated operator and update the DO certification in CERS
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 06-17-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 06/17/2016. Observations: chemical inventory onsite is not reflected in the CERS submittal as the 1000 gallon used oil above ground storage tank is not noted on the chemical inventory. Corrective Action: update the chemical inventory to include the 1000 gallon used oil AST and notify ACDEH when the chemical inventory has been updated. The violation was corrected during the inspection and no further action is required.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-06-2018
Citation: 23 CCR 16 2715(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)
Violation Description: Failure to comply with one or more of the following designated operator (DO) monthly inspection requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect

USPS - OAKLAND VMF (Continued) **S121792151**

	for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(f)(2).
Violation Notes:	Returned to compliance on 05/31/2018. OBSERVATION: The designated operator failed to document all the alarms from the attached alarm history on the October 2017 designated operator monthly inspection report(s) and failed to check that they were responded to appropriately. The missing alarms include: L9 UDC 2 Dispenser Pan fuel alarm on 10-18-17 and 10-17-17. Also the L8 UDC 1 Dispenser Pan fuel alarm on 10-18-17 . During the monthly inspection, the designated operator shall review the alarm history for the previous month, check that each alarm was documented and responded to appropriately, and attach a copy of the alarm history with documentation to the response to any alarms to the monthly report. The designated operator failed to check and note the correct test dates for the secondary containment test on the March 2018 through April 2017 designated operator monthly inspection report(s). The secondary containment test date listed in the D.O report is April 8, 2016 instead of 6-15-15. During the monthly [Truncated]
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-06-2018
Citation:	HSC 6.7 25290.1(c)(3),25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3),25290.2(c)(3)
Violation Description:	Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003.
Violation Notes:	Returned to compliance on 04/06/2018. OBSERVATION: Owner/Operator did not maintain under-dispenser containment, sumps, and/or other secondary containment in good condition and/or free of debris/liquid. The T-3 Diesel (South) STP sump had approximately 24 ounces of liquid inside of it. CORRECTED ON SITE: The service technician removed the liquid from the sump. This was corrected on site.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	05-31-2018
Citation:	22 CCR 12 66262.42(a), (b), (d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.42(a), (b), (d)
Violation Description:	Failure to determine the status of any hazardous waste if a signed copy of the manifest isn t received within 35 days of the date the waste was accepted by the initial transporter and/or to submit an Exception Report to DTSC if a signed copy of the manifest isn t received within 45 days of the date the waste was accepted by the initial transporter.
Violation Notes:	Returned to compliance on 08/01/2018. OBSERVATION: The facility did not complete all uniform manifest exception reporting requirements for manifest without the designated facility copies. Manifest that did not

USPS - OAKLAND VMF (Continued) **S121792151**

have the signed designated facility copy on site: - 006447893SKS - 005507969SKS - 005370205SKS - 005371129SKS - 004787420SKS CORRECTIVE ACTION: Prepare a uniform hazardous waste manifest exception report for all manifest listed above. Submit a copy of the reports to the CUPA within 30 days.

Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-06-2018
Citation:	23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description:	Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the UPA, for the life of the UST.
Violation Notes:	Returned to compliance on 05/24/2018. OBSERVATION: Records of Annual Monitoring Certification (AMC) test results for the UST system were not found on site. The site did not have the April 2017 AMC test results, the April 2016 AMC test results, the April 2015 AMC test results and the June 2015 secondary containment test results. These records shall be kept on site for 3 years. CORRECTIVE ACTION: Immediately locate and maintain these records on site. Submit verification to the CUPA within 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016
Citation:	23 CCR 16 2636(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)
Violation Description:	Failure to continuously monitor the interstitial space of the tank, piping and/or sumps sump such that the leak detection activates an audible/visual alarm when a leak is detected.
Violation Notes:	Returned to compliance on 04/08/2016. Observation: 420 sensor in the interstitial space of UST 3 was removed for testing no float was present. The exterior of the sensor was oxidized and liquid was present on the sensor bell, indicating that residual liquid may be present in the UST interstitial space. The origin of the liquid is unknown and additional testing may be required to determine the source of the liquid. Corrective action: the 420 sensor float was repaired and approximately 200 ml of residual liquid was removed from the UST interstitial space. Violation was corrected during the inspection
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	05-31-2018
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.

USPS - OAKLAND VMF (Continued) **S121792151**

Violation Notes: Returned to compliance on 06/05/2018. OBSERVATION: The facility has not annually reviewed and certified that the business plan is complete, accurate, and up-to-date. The annotated site map submitted to the CUPA does not include all of the hazardous materials listed in the Hazardous Materials Inventory Page. CORRECTIVE ACTION: Review, revise, and certify the business plan electronically in the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/."
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715(c)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)(2)
Violation Description: Failure to comply with one or more of the following: maintain the spill bucket in good condition, containment free of debris/liquid, and/or to remove the contents of the spill bucket when a release/leak/spill was observed.
Violation Notes: Returned to compliance on 04/08/2016. Observation: spill bucket in the north and middle USTs contained residual liquid Corrective action: liquid in the spill bucket was removed and violation was corrected during the inspection
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715(d) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(d)
Violation Description: Failure to notify the owner or operator of any condition discovered during the monthly visual inspection that may require follow-up actions.
Violation Notes: Returned to compliance on 01/21/2017. Observation: the facility does not currently have a DO under contract. Corrective Action: contact and retain the services of an ICC certified designated operator and update CERS with the owner DO statement.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description: The owner/operator has failed to comply with one or more of the following: to maintain a copy of the designated operator monthly inspections for the last 12 months and/or maintain a list of trained employees on-site or off-site at a readily available location, if approved by the CUPA.
Violation Notes: Returned to compliance on 01/21/2017. Observations: the facility has an incomplete record for the required monthly designated operator inspections reports. Corrective action: monthly designated operator

USPS - OAKLAND VMF (Continued) **S121792151**

	inspections are required to be documented and a copy of the inspection shall be maintained onsiite for review during the annual UST monitoring system certification
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	05-31-2018
Citation:	22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description:	Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes:	Returned to compliance on 08/01/2018. OBSERVATION: Signed copies of manifest from the designated facility for the past 3 years were not found on site. Signed copies of manifest not found on site: - 006447893SKS - 005507969SKS - 005370205SKS - 005371129SKS - 004787420SKS Hazardous waste generators shall retain copies of all manifests signed off by the disposal facility and all receipts used in a consolidated manifesting procedure on site for three years and have them readily available for review. CORRECTIVE ACTION: Immediately locate a copy of all manifests and receipts for the last three years, maintain them on site, and submit copies to the CUPA with 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	05-31-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 06/05/2018. OBSERVATION: A complete business plan has not been received by the CUPA. The annotated site map does not include all of the hazardous materials listed in the Hazardous Materials Inventory Page. CORRECTIVE ACTION: Submit the business plan electronically in the California Environmental Reporting System (CERS) and implement immediately.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-13-2017
Citation:	HSC 6.7 25290.1(c)(3), 25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3), 25290.2(c)(3)
Violation Description:	Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003 and before July 1, 2004, or on or after July 1, 2004.

USPS - OAKLAND VMF (Continued) **S121792151**

Violation Notes: Returned to compliance on 04/13/2017. Observations: turbine sumps contained rain water Corrective Action: residual rain water was removed from the turbine sumps and the violation was corrected during the inspection
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-06-2018
Citation: HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25284, 25286
Violation Description: Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes: Returned to compliance on 05/25/2018. OBSERVATION: The UST tank information for all three diesel tanks is not current in CERS. Line item 490-58 is incorrectly list 794380-208 as the instead of 794390-420. Please verify line item 451-b for all three tanks for Striker Plate/ Bottom Protector. Any change of information must be updated in CERS within 30 days of the change. CORRECTIVE ACTION: Submit and maintain an accurate Tank information. Submit corrections by May 26, 2018.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description: Failure to maintain leak detection alarm logs and/or maintain records of appropriate follow-up actions
Violation Notes: Returned to compliance on 01/21/2017. Observations: an incomplete record for maintenance, alarm longs is available in onsite documents: Corrective Action: maintain all alarm logs with proper follow up, UST system maintenance documents onsite for the previous 3 years. Obtain all maintenance and repair documents from contractor and maintain the documents onsite as required.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-13-2017
Citation: 23 CCR 16 2631(g), 2632(c)(2)(A) & (B) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2631(g), 2632(c)(2)(A) & (B)
Violation Description: Failure of the double-walled interstitial space of the tank to be continuously monitored with an audible and visual alarm.
Violation Notes: Returned to compliance on 04/13/2017. Observations: Annular space 420 sensor monitoring #3 diesel UST failed during testing. Corrective Action: the sensor was replaced and the violation was corrected during the inspection.
Violation Division: Alameda County Environmental Health

USPS - OAKLAND VMF (Continued) **S121792151**

Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Description: Failure to obtain permit to install, replace, repair, or modify part of the UST system containment or leak detection equipment.
Violation Notes: Returned to compliance on 01/21/2017. Observations: a sensor fuel alarm was noted on 3/25/2016 and an automatic tank gage upgrade was completed. However, no notification or permit was obtained from ACDEH for this activity, and no work order or service recored is available in the file for ATG upgrade. Corrective action: Obtain a work order/service request from Weston Solutions to verify that all work was completed by a licensed and ICC certified contractor and provide the documentation to ACDEH.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-14-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations were discovered at the time of the inspection.
Eval Division: Oakland City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-14-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: The site was compliant at the time of inspection.
Eval Division: Oakland City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-17-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Complete a previously scheduled above ground storage tank inspection. USPS operates 1-1000 gallon used oil AST, 1-1000 gallon lubrication oil AST 2-110 gallon lubrication oil ASTs and 4-55 gallon ATF and lubrication drums. No violations were noted during the inspection.
Eval Division: Alameda County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-17-2016
Violations Found: Yes
Eval Type: Routine done by local agency

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Eval Notes:	Complete a previously scheduled inspection for USPS vehicle maintenance facility and meet with facility representative Gary Pablo who granted access to complete the inspection. The facility has a current operating permit from ACDEH and information has been submitted to CERS, with the most recent submittal completed on 6/17/2016 to correct violations noted during the inspection. The facility is a tier 1 above ground storage tank facility and the SPCC plan has been implemented and updated as required. USPS operates 1-1000 gallon above ground storage (AST) storing used oil, which is connected to an electronic monitoring panel, 1-1000 gallon AST storing lubrication oil, 2-110 gallon AST for lubrication oil, 4-55 gallon drums of ATF and gear oil 1-250 gallon coolant AST, 1-200 gallon used coolant AST, compressed gases including ArCO2, Acytlene, Oxygen, Nitrogen and Argon. Employee training is completed on annually and training is documented electronically. Daily AST inspections [Truncated]
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-27-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Follow up for UST repair, discuss with contractor West Star. Arrive onsite to complete secondary containment testing for USPS facility. Penetration fitting in the piping and turbine sumps were in poor condition and require replacement, the penetration boots were replaced with similar boots and secondary containment testing was completed on the piping sump and the turbine sump. However, the secondary containment test boot for the piping did not pass testing and also required replacement, but the contractor did not have the replacement boots available and will order the replacement boots. Furthermore, during the site visit ACDEH found a piping sump for the backup generator inside the main post office facility was not monitored as required. Consequently, in the event of a release the release will not be detected at the earliest possible point. Moreover, in order to detect a release of into the secondary containment pipe transition sump a monitoring device must be installed.
Eval Division:	Alameda County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-18-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	ACDEH Completed a follow up inspection for secondary containment testing associated with the replacement of test boots for the flex pipe fuel supply and fuel return lines used to supply a backup generator system. Arrive onsite and meet with West Star, the UST contractor hired to replace and test the replacement boots. ACDEH observed testing of the replacement test boots, which passed a 5 psi pressure test, demonstrating the functionality of the secondary containment components. Moreover, during a previous site visit ACDEH observed a piping transition sump located inside the main mail processing building that did not have a monitoring sensor as required. The UST system must be constructed with a monitoring system capable of

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detecting entry of liquid into secondary containment. Failure of the UST system to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance stored in the primary containment into the secondary [Truncated]
Eval Division: Alameda County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-12-2009
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: This site is a large quantity generator
Eval Division: Oakland City Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-31-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH ON SITE FOR HAZARDOUS WASTE GENERATOR INSPECTION. ESCORTED BY ERNESTO EUGENIO JR, THE MAINTENANCE MANAGER AND SALVADOR SERRANO, THE SUPERVISOR VEHICLE MAINTENANCE. ALL VIOLATIONS NOTED IN THE INSPECTION REPORT SHALL BE CORRECTED BY JUNE 30, 2018 AND ANY VERIFICATION DOCUMENTATION SUBMITTED WITHIN THE SAME TIME FRAME. THE FACILITY HAS 34 EMPLOYEES THAT HANDLE HAZARDOUS WASTE. AFTER REVIEWING THE GENERATOR’S DISPOSAL RECORDS AND BUSINESS OPERATIONS, IT WAS OBSERVED THE FACILITY IS A LARGE QUANTITY HAZARDOUS WASTE GENERATOR WHO GENERATES MORE THAN THAN 1000 KG OF HAZARDOUS WASTE PER MONTH. CERTIFICATION OF RETURN TO COMPLIANCE I certify that the violation(s) noted in this Hazardous Waste Generator inspection report for USPS-Oakland VMF conducted on May 31, 2018 located at 1675 7th St , Oakland, CA have been corrected. I have personally examined any documentation attached to the certification to establish that the [Truncated]
Eval Division: Alameda County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-08-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete an announced inspection for an annual monitoring system certification. Contractor onsite to complete the annual monitoring certification is Tanknology. USPS operates 3 USTs at the facility, with 2 dispensers and a VR monitoring panel which is located in the supervisors office. The facility has not had a DO since May 2015 and no DO reports are available since that time. CERTIFICATION OF RETURN TO COMPLIANCE I certify that the violation(s) noted on the Notice to Comply and/or /Summary of Violations page(s) have been corrected. I have personally examined any documentation attached to the certification to establish that the violations have been corrected.
PRINT:______________________________________
SIGN:_______________________________________
TITLE:______________________________________

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DATE:______________________________________
Eval Division: Alameda County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-13-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ACDEH staff complete a previously scheduled UST inspection for the USPS vehicle maintenance facility. The facility operates 3 diesel UST to fuel the postal service truck fleet and to supply a backup generator system located at the postal distribution center. Permission to complete the inspection was granted by facility representative Ernie Eugenio, maintenance manager. Facility has completed employee training annually as required, facility maintains a permit to operate from ACDEH and has updated CERS annually as required. During a previous annual monitoring system certification ACDEH noted that a fuel piping transition sump was not properly monitored as required by regulation; a stand alone sensor with a remote audible/visual alarm -not connected to the Veever Root UST monitoring system- was installed and tested. All violations noted during the inspection were corrected during the inspection and no further action is required at this time.
Eval Division: Alameda County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-14-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violation noted
Eval Division: Oakland City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-31-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH ON SITE FOR HAZARDOUS MATERIALS BUSINESS PLAN INSPECTION. ESCORTED BY ERNESTO EUGENIO JR, THE MAINTENANCE MANAGER AND SALVADOR SERRANO, THE SUPERVISOR VEHICLE MAINTENANCE. ALL VIOLATIONS NOTED IN THE INSPECTION REPORT SHALL BE CORRECTED BY JUNE 30, 2018 AND ANY VERIFICATION DOCUMENTATION SUBMITTED WITHIN THE SAME TIME FRAME.
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-06-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH (ACDEH) ON SITE FOR ANNUAL MONITORING CERTIFICATION AND ROUTINE INSPECTION. THE SERVICE TECHNICIAN WAS BRENT BOWEN WITH TANKNOLOGY WHO POSSESSES THE

USPS - OAKLAND VMF (Continued) **S121792151**

CALIFORNIA UST ICC SERVICE TECHNICIAN CERTIFICATION THAT EXPIRES 6-23-19, THE VEEDER ROOT CERTIFICATION THAT EXPIRES 4-26-19 AND THE VMI CERTIFICATION THAT EXPIRES 6-9-19. ALL VIOLATIONS NOTED IN THE INSPECTION REPORT SHALL BE CORRECTED BY MAY 26, 2018 AND ANY VERIFICATION DOCUMENTATION SUBMITTED WITHIN THE SAME TIME FRAME. DID NOT TEST DISPENSERS, FAIL-SAFE AND SENSOR OUT DUE TO NOT BEING ABLE TO AUTHORIZE ALL STP AND DISPENSER 4 NOT WORKING. THIS WAS RETESTED ON APRIL 13, 2018. ACDEH WAS NOT NOTIFIED OF TESTING.

Eval Division: Alameda County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-14-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations noted.
Eval Division: Oakland City Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-14-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations noted.
Eval Division: Oakland City Fire Department
Eval Program: UST
Eval Source: CERS

Affiliation:

Affiliation Type Desc: CUPA District
Entity Name: Alameda County Env Health
Entity Title: Not reported
Affiliation Address: 1131 Harbor Parkway, Suite 240
Affiliation City: Alameda
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94502-6577
Affiliation Phone: (510) 567-6700

Affiliation Type Desc: Property Owner
Entity Name: U.S. Postal Service
Entity Title: Not reported
Affiliation Address: 1675 7TH STREET
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94615
Affiliation Phone: (510) 874-8462

Affiliation Type Desc: UST Tank Operator
Entity Name: UNTIED STATES POSTAL SERVICE-VMF
Entity Title: Not reported
Affiliation Address: 1675 7th STREET
Affiliation City: OAKLAND
Affiliation State: CA

USPS - OAKLAND VMF (Continued) **S121792151**

Affiliation Country:	United States
Affiliation Zip:	94615-9351
Affiliation Phone:	(510) 874-8462
Affiliation Type Desc:	Environmental Contact
Entity Name:	PATRICK LANGSJOEN
Entity Title:	Not reported
Affiliation Address:	P.O. Box 889024
Affiliation City:	San Francisco
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94188
Affiliation Phone:	(510) 874-8316
Affiliation Type Desc:	Identification Signer
Entity Name:	Ernesto Eugenio Jr.
Entity Title:	MANAGER, VEHICLE MAINTEANCE FACILITY
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	U.S. POSTAL SERVICE
Entity Title:	Not reported
Affiliation Address:	1675 7TH STREET
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94615
Affiliation Phone:	(510) 874-8282
Affiliation Type Desc:	Parent Corporation
Entity Name:	USPS - North Bay VMF
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	UST Tank Owner
Entity Name:	UNITED STATES POSTAL SERVICE-VMF
Entity Title:	Not reported
Affiliation Address:	1675 7th STREET
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94615-9351
Affiliation Phone:	(510) 874-8462
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported

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Affiliation Address: 1675 7TH STREET
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94615
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer
Entity Name: Michele Floren
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: U.S. POSTAL SERVICE
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (510) 874-8462

Affiliation Type Desc: UST Permit Applicant
Entity Name: ERNESTO EUGENIO JR
Entity Title: MANAGER VEHICLE MAINTENANCE
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (510) 874-8462

Affiliation Type Desc: UST Property Owner Name
Entity Name: UNITED STATES POSTAL SERVICE VMF
Entity Title: Not reported
Affiliation Address: 1675 7th STREET
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94615-9351
Affiliation Phone: (510) 874-8462

Site ID: 79565
CERS ID: 10411021
CERS Description: RCRA LQ HW Generator

Violations:
Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 06-17-2016
Citation: 19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)

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Violation Description: Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes: Returned to compliance on 06/17/2016. Observations: primary facility contact lists Charley Simmons; however, Mr. Simmons retired in 3/2016 and has been replaced by Gary Pablo. Corrective Action: update CERS to reflect the correct primary emergency contact as Gary Pablo and notify ACDEH when the correction has been made to CERS. The violation was corrected during the inspection and no further action is required.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2666 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2666
Violation Description: Failure to maintain entry fitting such that it properly seals to the containment.
Violation Notes: Returned to compliance on 01/21/2017. Observations: penetration fittings into the north and middle turbine sumps are not liquid tight and in bad condition, with visible disintegration of the fittings in evidence. Corrective action: penetration fittings in the north and middle UST turbine sumps with visible signs of disintegration must be replaced, with a permit from ACDEH.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)
Violation Description: Failure to comply with one or more of the following: provide training to facility employee(s) responsible for proper operation and maintenance every 12 months and/or train new employee(s) who are responsible for proper operation and maintenance within 30-days of hire and/or to have at least one employee present during operating hours that has been trained in the proper operation and maintenance of the UST system.
Violation Notes: Returned to compliance on 01/21/2017. Observation; no employee training has been completed since May 2015 Corrective Action: once a DO has been assigned train all employees on the UST system as required.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description: Failure to comply with one or more of the designated operator monthly inspection requirements: failed to inspect the monthly alarm history report; attach a copy of the alarm history; failed to inspect for the

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presence of liquid or debris in the spill container/spill bucket and under dispenser containment; failed to inspect the under dispenser containment to ensure that monitoring equipment is placed in the proper position; failure to inspect for liquid or debris in the containment sump where an alarm occurred or for which there is no record of a service visit; or failure to check that all testing and maintenance has been completed and documented.

Violation Notes: Returned to compliance on 01/21/2017. Observations: the facility has an incomplete record for the required monthly designated operator inspections reports. Corrective action: monthly designated operator inspections are required to be documented and a copy of the inspection shall be maintained onsiite for review during the annual UST monitoring system certification
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description: Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the CUPA, for the life of the underground storage tank and/or failure to maintain written monitoring and maintenance records on site, or off site if approved by the CUPA, for a period of 3 years, 6 1/2 years for cathodic protection, and 5 years for written performance claims pertaining to release detection systems and calibration and maintenance records for such systems.
Violation Notes: Returned to compliance on 01/21/2017. Observations: an incomplete record of UST maintenance and repair logs is available onsite. Corrective action: Maintain all UST repair, maintenance and other relevant documents onsite for the previous 3 years.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)
Violation Description: Failure to submit statement of UST compliance and/or Designated Operator certification.
Violation Notes: Returned to compliance on 01/21/2017. Observations: DO owner statement has expired and needs to be updated Corrective Action: update the DO statement in CERS
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 05-31-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all

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required content.
Violation Notes: Returned to compliance on 06/05/2018. OBSERVATION: The annotated site map submitted to the CUPA does not include all of the hazardous materials listed in the Hazardous Materials Inventory Page. CORRECTIVE ACTION: Revise the annotated Site Map to include all required content and submit electronically in the California Environmental Reporting System (CERS).
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description: Failure of service technician, designated operator, installer, and/or employee to obtain and maintain a proper and current International Code Council certification.
Violation Notes: Returned to compliance on 01/21/2017. Observations: facility does not currently have designated operator Corrective action: Contact and retain the services of an ICC certified designated operator and submit the tank owner designated operator agreement into CERS.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-06-2018
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description: Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 p.s.i.g. and restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes: Returned to compliance on 04/06/2018. OBSERVATION: The T-1 Diesel (North), T-Diesel (Middle) and T-3 Diesel (South) line leak detectors failed to detect a leak when tested. All line leak detectors shall be capable of detecting a 3-gallon per hour leak at 10 psi. CORRECTIVE ACTION. The Service technician replaced the T-Diesel (Middle) line leak detector and T-3 Diesel (South) line leak detector The T-1 Diesel (North) line leak detector was adjusted. All line leak detectors were retested during the inspection and passed. This was corrected on site.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 05-31-2018
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.

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Violation Notes:	Returned to compliance on 06/11/2018. OBSERVATION: This facility s EPA ID number CA6180090148 is inactive. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation, hazardous waste without an EPA ID number. CORRECTIVE ACTION: Immediately contact DTSC and reactivate your EPA ID number and submit evidence to the CUPA within 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-06-2018
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to have current UST Monitoring Plan available on site.
Violation Notes:	Returned to compliance on 05/25/2018. OBSERVATION: The monitoring plan on site is not approved by the CUPA. Line item 490-58 for all three tanks should be 794390-420. Please verify line item 451-b for all three tanks for Striker Plate/ Bottom Protector. The monitoring and response plans must be current and approved by the CUPA. CORRECTIVE ACTION: Submit and maintain an accurate monitoring plan. Submit corrections by May 26, 2018.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-06-2018
Citation:	23 CCR 16 2644.1(a)(4) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2644.1(a)(4)
Violation Description:	Failure to notify the UPA 48 hours prior to testing.
Violation Notes:	Returned to compliance on 05/24/2018. OBSERVATION: Owner/Operator did not notify the CUPA 48hours prior to testing. During the annual monitoring certification the dispensers, senor out and fail safe was not able to be tested due to not being able to authorize dispenser 4. The service technician stated that he would have to come back to the site complete the testing and that ACDEH would be notified. The test was completed on April 13, 2018, but ACDEH was not notified of the testing. CORRECTIVE ACTION: Ensure that the CUPA is provided 48 hours notification to the CUPA in the future.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016
Citation:	HSC 6.7 25291 - California Health and Safety Code, Chapter 6.7, Section(s) 25291
Violation Description:	Failure to install leak detection equipment correct for the type of system.
Violation Notes:	Returned to compliance on 01/21/2017. Observations: Product conveyance piping for dispenser 3/4 is outside the footprint of the UDC mounting frame, and should a leak occur the fuel would may not be captured in the UDC. Corrective Action: relocate the product conveyance piping to

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be completely within the footprint of the UDC, thereby allowing any liquid that may be released to be captured within the UDC, and causing the electronic sensor in the UDC to alarm. Contact ACDEH prior to completing all piping replacement.

Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)
Violation Description: The owner/operator has failed to designate an UST operator or to inform the CUPA or any change in the designated UST operator(s) within 30 days after a change.
Violation Notes: Returned to compliance on 01/21/2017. Observations: The facility does not currently have a designated operator. Corrective Action: contact and retain the services of an ICC certified designated operator and update the DO certification in CERS
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 06-17-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 06/17/2016. Observations: chemical inventory onsite is not reflected in the CERS submittal as the 1000 gallon used oil above ground storage tank is not noted on the chemical inventory. Corrective Action: update the chemical inventory to include the 1000 gallon used oil AST and notify ACDEH when the chemical inventory has been updated. The violation was corrected during the inspection and no further action is required.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-06-2018
Citation: 23 CCR 16 2715(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)
Violation Description: Failure to comply with one or more of the following designated operator (DO) monthly inspection requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance

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has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(f)(2).

Violation Notes: Returned to compliance on 05/31/2018. OBSERVATION: The designated operator failed to document all the alarms from the attached alarm history on the October 2017 designated operator monthly inspection report(s) and failed to check that they were responded to appropriately. The missing alarms include: L9 UDC 2 Dispenser Pan fuel alarm on 10-18-17 and 10-17-17. Also the L8 UDC 1 Dispenser Pan fuel alarm on 10-18-17 . During the monthly inspection, the designated operator shall review the alarm history for the previous month, check that each alarm was documented and responded to appropriately, and attach a copy of the alarm history with documentation to the response to any alarms to the monthly report. The designated operator failed to check and note the correct test dates for the secondary containment test on the March 2018 through April 2017 designated operator monthly inspection report(s). The secondary containment test date listed in the D.O report is April 8, 2016 instead of 6-15-15. During the monthly [Truncated]
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-06-2018
Citation: HSC 6.7 25290.1(c)(3),25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3),25290.2(c)(3)
Violation Description: Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003.
Violation Notes: Returned to compliance on 04/06/2018. OBSERVATION: Owner/Operator did not maintain under-dispenser containment, sumps, and/or other secondary containment in good condition and/or free of debris/liquid. The T-3 Diesel (South) STP sump had approximately 24 ounces of liquid inside of it. CORRECTED ON SITE: The service technician removed the liquid from the sump. This was corrected on site.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 05-31-2018
Citation: 22 CCR 12 66262.42(a), (b), (d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.42(a), (b), (d)
Violation Description: Failure to determine the status of any hazardous waste if a signed copy of the manifest isn t received within 35 days of the date the waste was accepted by the initial transporter and/or to submit an Exception Report to DTSC if a signed copy of the manifest isn t received within 45 days of the date the waste was accepted by the initial transporter.
Violation Notes: Returned to compliance on 08/01/2018. OBSERVATION: The facility did not complete all uniform manifest exception reporting requirements for manifest without the designated facility copies. Manifest that did not have the signed designated facility copy on site: - 006447893SKS - 005507969SKS - 005370205SKS - 005371129SKS - 004787420SKS CORRECTIVE ACTION: Prepare a uniform hazardous waste manifest exception report for all manifest listed above. Submit a copy of the reports to the

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	CUPA within 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-06-2018
Citation:	23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description:	Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the UPA, for the life of the UST.
Violation Notes:	Returned to compliance on 05/24/2018. OBSERVATION: Records of Annual Monitoring Certification (AMC) test results for the UST system were not found on site. The site did not have the April 2017 AMC test results, the April 2016 AMC test results, the April 2015 AMC test results and the June 2015 secondary containment test results. These records shall be kept on site for 3 years. CORRECTIVE ACTION: Immediately locate and maintain these records on site. Submit verification to the CUPA within 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016
Citation:	23 CCR 16 2636(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)
Violation Description:	Failure to continuously monitor the interstitial space of the tank, piping and/or sumps sump such that the leak detection activates an audible/visual alarm when a leak is detected.
Violation Notes:	Returned to compliance on 04/08/2016. Observation: 420 sensor in the interstitial space of UST 3 was removed for testing no float was present. The exterior of the sensor was oxidized and liquid was present on the sensor bell, indicating that residual liquid may be present in the UST interstitial space. The origin of the liquid is unknown and additional testing may be required to determine the source of the liquid. Corrective action: the 420 sensor float was repaired and approximately 200 ml of residual liquid was removed from the UST interstitial space. Violation was corrected during the inspection
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	05-31-2018
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 06/05/2018. OBSERVATION: The facility has not annually reviewed and certified that the business plan is complete, accurate, and up-to-date. The annotated site map submitted to the CUPA does not include all of the hazardous materials listed in

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the Hazardous Materials Inventory Page. CORRECTIVE ACTION: Review, revise, and certify the business plan electronically in the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/."
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715(c)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)(2)
Violation Description: Failure to comply with one or more of the following: maintain the spill bucket in good condition, containment free of debris/liquid, and/or to remove the contents of the spill bucket when a release/leak/spill was observed.
Violation Notes: Returned to compliance on 04/08/2016. Observation: spill bucket in the north and middle USTs contained residual liquid Corrective action: liquid in the spill bucket was removed and violation was corrected during the inspection
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715(d) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(d)
Violation Description: Failure to notify the owner or operator of any condition discovered during the monthly visual inspection that may require follow-up actions.
Violation Notes: Returned to compliance on 01/21/2017. Observation: the facility does not currently have a DO under contract. Corrective Action: contact and retain the services of an ICC certified designated operator and update CERS with the owner DO statement.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description: The owner/operator has failed to comply with one or more of the following: to maintain a copy of the designated operator monthly inspections for the last 12 months and/or maintain a list of trained employees on-site or off-site at a readily available location, if approved by the CUPA.
Violation Notes: Returned to compliance on 01/21/2017. Observations: the facility has an incomplete record for the required monthly designated operator inspections reports. Corrective action: monthly designated operator inspections are required to be documented and a copy of the inspection shall be maintained onsiite for review during the annual UST monitoring system certification
Violation Division: Alameda County Environmental Health

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Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	05-31-2018
Citation:	22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description:	Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes:	Returned to compliance on 08/01/2018. OBSERVATION: Signed copies of manifest from the designated facility for the past 3 years were not found on site. Signed copies of manifest not found on site: - 006447893SKS - 005507969SKS - 005370205SKS - 005371129SKS - 004787420SKS Hazardous waste generators shall retain copies of all manifests signed off by the disposal facility and all receipts used in a consolidated manifesting procedure on site for three years and have them readily available for review. CORRECTIVE ACTION: Immediately locate a copy of all manifests and receipts for the last three years, maintain them on site, and submit copies to the CUPA with 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	05-31-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 06/05/2018. OBSERVATION: A complete business plan has not been received by the CUPA. The annotated site map does not include all of the hazardous materials listed in the Hazardous Materials Inventory Page. CORRECTIVE ACTION: Submit the business plan electronically in the California Environmental Reporting System (CERS) and implement immediately.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-13-2017
Citation:	HSC 6.7 25290.1(c)(3), 25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3), 25290.2(c)(3)
Violation Description:	Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003 and before July 1, 2004, or on or after July 1, 2004.
Violation Notes:	Returned to compliance on 04/13/2017. Observations: turbine sumps contained rain water Corrective Action: residual rain water was removed from the turbine sumps and the violation was corrected during the inspection

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Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-06-2018
Citation: HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25284, 25286
Violation Description: Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes: Returned to compliance on 05/25/2018. OBSERVATION: The UST tank information for all three diesel tanks is not current in CERS. Line item 490-58 is incorrectly list 794380-208 as the instead of 794390-420. Please verify line item 451-b for all three tanks for Striker Plate/ Bottom Protector. Any change of information must be updated in CERS within 30 days of the change. CORRECTIVE ACTION: Submit and maintain an accurate Tank information. Submit corrections by May 26, 2018.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description: Failure to maintain leak detection alarm logs and/or maintain records of appropriate follow-up actions
Violation Notes: Returned to compliance on 01/21/2017. Observations: an incomplete record for maintenance, alarm longs is available in onsite documents: Corrective Action: maintain all alarm logs with proper follow up, UST system maintenance documents onsite for the previous 3 years. Obtain all maintenance and repair documents from contractor and maintain the documents onsite as required.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-13-2017
Citation: 23 CCR 16 2631(g), 2632(c)(2)(A) & (B) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2631(g), 2632(c)(2)(A) & (B)
Violation Description: Failure of the double-walled interstitial space of the tank to be continuously monitored with an audible and visual alarm.
Violation Notes: Returned to compliance on 04/13/2017. Observations: Annular space 420 sensor monitoring #3 diesel UST failed during testing. Corrective Action: the sensor was replaced and the violation was corrected during the inspection.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565

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Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016
Citation:	23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Description:	Failure to obtain permit to install, replace, repair, or modify part of the UST system containment or leak detection equipment.
Violation Notes:	Returned to compliance on 01/21/2017. Observations: a sensor fuel alarm was noted on 3/25/2016 and an automatic tank gage upgrade was completed. However, no notification or permit was obtained from ACDEH for this activity, and no work order or service recored is available in the file for ATG upgrade. Corrective action: Obtain a work order/service request from Weston Solutions to verify that all work was completed by a licensed and ICC certified contractor and provide the documentation to ACDEH.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-14-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations were discovered at the time of the inspection.
Eval Division:	Oakland City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-14-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	The site was compliant at the time of inspection.
Eval Division:	Oakland City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-17-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Complete a previously scheduled above ground storage tank inspection. USPS operates 1-1000 gallon used oil AST, 1-1000 gallon lubrication oil AST 2-110 gallon lubrication oil ASTs and 4-55 gallon ATF and lubrication drums. No violations were noted during the inspection.
Eval Division:	Alameda County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-17-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Complete a previously scheduled inspection for USPS vehicle maintenance facility and meet with facility representative Gary Pablo who granted access to complete the inspection. The facility has a current operating permit from ACDEH and information has been submitted

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to CERS, with the most recent submittal completed on 6/17/2016 to correct violations noted during the inspection. The facility is a tier 1 above ground storage tank facility and the SPCC plan has been implemented and updated as required. USPS operates 1-1000 gallon above ground storage (AST) storing used oil, which is connected to an electronic monitoring panel, 1-1000 gallon AST storing lubrication oil, 2-110 gallon AST for lubrication oil, 4-55 gallon drums of ATF and gear oil 1-250 gallon coolant AST, 1-200 gallon used coolant AST, compressed gases including ArCO2, Acytlene, Oxygen, Nitrogen and Argon. Employee training is completed on annually and training is documented electronically. Daily AST inspections [Truncated]

Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-27-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Follow up for UST repair, discuss with contractor West Star. Arrive onsite to complete secondary containment testing for USPS facility. Penetration fitting in the piping and turbine sumps were in poor condition and require replacement, the penetration boots were replaced with similar boots and secondary containment testing was completed on the piping sump and the turbine sump. However, the secondary containment test boot for the piping did not pass testing and also required replacement, but the contractor did not have the replacement boots available and will order the replacement boots. Furthermore, during the site visit ACDEH found a piping sump for the backup generator inside the main post office facility was not monitored as required. Consequently, in the event of a release the release will not be detected at the earliest possible point. Moreover, in order to detect a release of into the secondary containment pipe transition sump a monitoring device must be installed.
Eval Division: Alameda County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-18-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: ACDEH Completed a follow up inspection for secondary containment testing associated with the replacement of test boots for the flex pipe fuel supply and fuel return lines used to supply a backup generator system. Arrive onsite and meet with West Star, the UST contractor hired to replace and test the replacement boots. ACDEH observed testing of the replacement test boots, which passed a 5 psi pressure test, demonstrating the functionality of the secondary containment components. Moreover, during a previous site visit ACDEH observed a piping transition sump located inside the main mail processing building that did not have a monitoring sensor as required. The UST system must be constructed with a monitoring system capable of detecting entry of liquid into secondary containment. Failure of the UST system to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance stored in the primary containment into the secondary [Truncated]

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Eval Division:	Alameda County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-12-2009
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	This site is a large quantity generator
Eval Division:	Oakland City Fire Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-31-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH ON SITE FOR HAZARDOUS WASTE GENERATOR INSPECTION. ESCORTED BY ERNESTO EUGENIO JR, THE MAINTENANCE MANAGER AND SALVADOR SERRANO, THE SUPERVISOR VEHICLE MAINTENANCE. ALL VIOLATIONS NOTED IN THE INSPECTION REPORT SHALL BE CORRECTED BY JUNE 30, 2018 AND ANY VERIFICATION DOCUMENTATION SUBMITTED WITHIN THE SAME TIME FRAME. THE FACILITY HAS 34 EMPLOYEES THAT HANDLE HAZARDOUS WASTE. AFTER REVIEWING THE GENERATOR’S DISPOSAL RECORDS AND BUSINESS OPERATIONS, IT WAS OBSERVED THE FACILITY IS A LARGE QUANTITY HAZARDOUS WASTE GENERATOR WHO GENERATES MORE THAN THAN 1000 KG OF HAZARDOUS WASTE PER MONTH. CERTIFICATION OF RETURN TO COMPLIANCE I certify that the violation(s) noted in this Hazardous Waste Generator inspection report for USPS-Oakland VMF conducted on May 31, 2018 located at 1675 7th St , Oakland, CA have been corrected. I have personally examined any documentation attached to the certification to establish that the [Truncated]
Eval Division:	Alameda County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-08-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Complete an announced inspection for an annual monitoring system certification. Contractor onsite to complete the annual monitoring certification is Tanknology. USPS operates 3 USTs at the facility, with 2 dispensers and a VR monitoring panel which is located in the supervisors office. The facility has not had a DO since May 2015 and no DO reports are available since that time. CERTIFICATION OF RETURN TO COMPLIANCE I certify that the violation(s) noted on the Notice to Comply and/or /Summary of Violations page(s) have been corrected. I have personally examined any documentation attached to the certification to establish that the violations have been corrected. PRINT:_______________________________________ SIGN:____ TITLE:_______________________________________ DATE:_______________________________________
Eval Division:	Alameda County Environmental Health
Eval Program:	UST
Eval Source:	CERS

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Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-13-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ACDEH staff complete a previously scheduled UST inspection for the USPS vehicle maintenance facility. The facility operates 3 diesel UST to fuel the postal service truck fleet and to supply a backup generator system located at the postal distribution center. Permission to complete the inspection was granted by facility representative Ernie Eugenio, maintenance manager. Facility has completed employee training annually as required, facility maintains a permit to operate from ACDEH and has updated CERS annually as required. During a previous annual monitoring system certification ACDEH noted that a fuel piping transition sump was not properly monitored as required by regulation; a stand alone sensor with a remote audible/visual alarm -not connected to the Veever Root UST monitoring system- was installed and tested. All violations noted during the inspection were corrected during the inspection and no further action is required at this time.
Eval Division: Alameda County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-14-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violation noted
Eval Division: Oakland City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-31-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH ON SITE FOR HAZARDOUS MATERIALS BUSINESS PLAN INSPECTION. ESCORTED BY ERNESTO EUGENIO JR, THE MAINTENANCE MANAGER AND SALVADOR SERRANO, THE SUPERVISOR VEHICLE MAINTENANCE. ALL VIOLATIONS NOTED IN THE INSPECTION REPORT SHALL BE CORRECTED BY JUNE 30, 2018 AND ANY VERIFICATION DOCUMENTATION SUBMITTED WITHIN THE SAME TIME FRAME.
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-06-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH (ACDEH) ON SITE FOR ANNUAL MONITORING CERTIFICATION AND ROUTINE INSPECTION. THE SERVICE TECHNICIAN WAS BRENT BOWEN WITH TANKNOLOGY WHO POSSESSES THE CALIFORNIA UST ICC SERVICE TECHNICIAN CERTIFICATION THAT EXPIRES 6-23-19, THE VEEDER ROOT CERTIFICATION THAT EXPIRES 4-26-19 AND THE VMI CERTIFICATION THAT EXPIRES 6-9-19. ALL VIOLATIONS NOTED IN THE INSPECTION REPORT SHALL BE CORRECTED BY MAY 26, 2018 AND ANY VERIFICATION DOCUMENTATION SUBMITTED WITHIN THE SAME TIME FRAME. DID

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NOT TEST DISPENSERS, FAIL-SAFE AND SENSOR OUT DUE TO NOT BEING ABLE TO AUTHORIZE ALL STP AND DISPENSER 4 NOT WORKING. THIS WAS RETESTED ON APRIL 13, 2018. ACDEH WAS NOT NOTIFIED OF TESTING.
Eval Division: Alameda County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-14-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations noted.
Eval Division: Oakland City Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-14-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations noted.
Eval Division: Oakland City Fire Department
Eval Program: UST
Eval Source: CERS

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Alameda County Env Health
Entity Title: Not reported
Affiliation Address: 1131 Harbor Parkway, Suite 240
Affiliation City: Alameda
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94502-6577
Affiliation Phone: (510) 567-6700

Affiliation Type Desc: Property Owner
Entity Name: U.S. Postal Service
Entity Title: Not reported
Affiliation Address: 1675 7TH STREET
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94615
Affiliation Phone: (510) 874-8462

Affiliation Type Desc: UST Tank Operator
Entity Name: UNTIED STATES POSTAL SERVICE-VMF
Entity Title: Not reported
Affiliation Address: 1675 7th STREET
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94615-9351
Affiliation Phone: (510) 874-8462

Affiliation Type Desc: Environmental Contact

USPS - OAKLAND VMF (Continued) **S121792151**

Entity Name:	PATRICK LANGSJOEN
Entity Title:	Not reported
Affiliation Address:	P.O. Box 889024
Affiliation City:	San Francisco
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94188
Affiliation Phone:	(510) 874-8316
Affiliation Type Desc:	Identification Signer
Entity Name:	Ernesto Eugenio Jr.
Entity Title:	MANAGER, VEHICLE MAINTEANCE FACILITY
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	U.S. POSTAL SERVICE
Entity Title:	Not reported
Affiliation Address:	1675 7TH STREET
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94615
Affiliation Phone:	(510) 874-8282
Affiliation Type Desc:	Parent Corporation
Entity Name:	USPS - North Bay VMF
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	UST Tank Owner
Entity Name:	UNITED STATES POSTAL SERVICE-VMF
Entity Title:	Not reported
Affiliation Address:	1675 7th STREET
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94615-9351
Affiliation Phone:	(510) 874-8462
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1675 7TH STREET
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94615

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Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Michele Floren
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	U.S. POSTAL SERVICE
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 874-8462
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	ERNESTO EUGENIO JR
Entity Title:	MANAGER VEHICLE MAINTENANCE
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 874-8462
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	UNITED STATES POSTAL SERVICE VMF
Entity Title:	Not reported
Affiliation Address:	1675 7th STREET
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94615-9351
Affiliation Phone:	(510) 874-8462

CERS TANKS:

Site ID:	79565
CERS ID:	10411021
CERS Description:	Underground Storage Tank

Violations:

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	06-17-2016
Citation:	19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 06/17/2016. Observations: primary facility

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contact lists Charley Simmons; however, Mr. Simmons retired in 3/2016 and has been replaced by Gary Pablo. Corrective Action: update CERS to reflect the correct primary emergency contact as Gary Pablo and notify ACDEH when the correction has been made to CERS. The violation was corrected during the inspection and no further action is required.

Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016
Citation:	23 CCR 16 2666 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2666
Violation Description:	Failure to maintain entry fitting such that it properly seals to the containment.
Violation Notes:	Returned to compliance on 01/21/2017. Observations: penetration fittings into the north and middle turbine sumps are not liquid tight and in bad condition, with visible disintegration of the fittings in evidence. Corrective action: penetration fittings in the north and middle UST turbine sumps with visible signs of disintegration must be replaced, with a permit from ACDEH.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016
Citation:	23 CCR 16 2715(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)
Violation Description:	Failure to comply with one or more of the following: provide training to facility employee(s) responsible for proper operation and maintenance every 12 months and/or train new employee(s) who are responsible for proper operation and maintenance within 30-days of hire and/or to have at least one employee present during operating hours that has been trained in the proper operation and maintenance of the UST system.
Violation Notes:	Returned to compliance on 01/21/2017. Observation; no employee training has been completed since May 2015 Corrective Action: once a DO has been assigned train all employees on the UST system as required.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016
Citation:	23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description:	Failure to comply with one or more of the designated operator monthly inspection requirements: failed to inspect the monthly alarm history report; attach a copy of the alarm history; failed to inspect for the presence of liquid or debris in the spill container/spill bucket and under dispenser containment; failed to inspect the under dispenser containment to ensure that monitoring equipment is placed in the

USPS - OAKLAND VMF (Continued) **S121792151**

proper position; failure to inspect for liquid or debris in the containment sump where an alarm occurred or for which there is no record of a service visit; or failure to check that all testing and maintenance has been completed and documented.
Violation Notes: Returned to compliance on 01/21/2017. Observations: the facility has an incomplete record for the required monthly designated operator inspections reports. Corrective action: monthly designated operator inspections are required to be documented and a copy of the inspection shall be maintained onsiite for review during the annual UST monitoring system certification
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description: Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the CUPA, for the life of the underground storage tank and/or failure to maintain written monitoring and maintenance records on site, or off site if approved by the CUPA, for a period of 3 years, 6 1/2 years for cathodic protection, and 5 years for written performance claims pertaining to release detection systems and calibration and maintenance records for such systems.
Violation Notes: Returned to compliance on 01/21/2017. Observations: an incomplete record of UST maintenance and repair logs is available onsite. Corrective action: Maintain all UST repair, maintenance and other relevant documents onsite for the previous 3 years.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)
Violation Description: Failure to submit statement of UST compliance and/or Designated Operator certification.
Violation Notes: Returned to compliance on 01/21/2017. Observations: DO owner statement has expired and needs to be updated Corrective Action: update the DO statement in CERS
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 05-31-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 06/05/2018. OBSERVATION: The annotated site map submitted to the CUPA does not include all of the hazardous

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materials listed in the Hazardous Materials Inventory Page. CORRECTIVE ACTION: Revise the annotated Site Map to include all required content and submit electronically in the California Environmental Reporting System (CERS).
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description: Failure of service technician, designated operator, installer, and/or employee to obtain and maintain a proper and current International Code Council certification.
Violation Notes: Returned to compliance on 01/21/2017. Observations: facility does not currently have designated operator Corrective action: Contact and retain the services of an ICC certified designated operator and submit the tank owner designated operator agreement into CERS.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-06-2018
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description: Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 p.s.i.g. and restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes: Returned to compliance on 04/06/2018. OBSERVATION: The T-1 Diesel (North), T-Diesel (Middle) and T-3 Diesel (South) line leak detectors failed to detect a leak when tested. All line leak detectors shall be capable of detecting a 3-gallon per hour leak at 10 psi. CORRECTIVE ACTION. The Service technician replaced the T-Diesel (Middle) line leak detector and T-3 Diesel (South) line leak detector The T-1 Diesel (North) line leak detector was adjusted. All line leak detectors were retested during the inspection and passed. This was corrected on site.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 05-31-2018
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes: Returned to compliance on 06/11/2018. OBSERVATION: This facility s EPA ID number CA6180090148 is inactive. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation,

USPS - OAKLAND VMF (Continued) **S121792151**

hazardous waste without an EPA ID number. CORRECTIVE ACTION: Immediately contact DTSC and reactivate your EPA ID number and submit evidence to the CUPA within 30 days.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-06-2018
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to have current UST Monitoring Plan available on site.
Violation Notes: Returned to compliance on 05/25/2018. OBSERVATION: The monitoring plan on site is not approved by the CUPA. Line item 490-58 for all three tanks should be 794390-420. Please verify line item 451-b for all three tanks for Striker Plate/ Bottom Protector. The monitoring and response plans must be current and approved by the CUPA. CORRECTIVE ACTION: Submit and maintain an accurate monitoring plan. Submit corrections by May 26, 2018.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-06-2018
Citation: 23 CCR 16 2644.1(a)(4) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2644.1(a)(4)
Violation Description: Failure to notify the UPA 48 hours prior to testing.
Violation Notes: Returned to compliance on 05/24/2018. OBSERVATION: Owner/Operator did not notify the CUPA 48hours prior to testing. During the annual monitoring certification the dispensers, senor out and fail safe was not able to be tested due to not being able to authorize dispenser 4. The service technician stated that he would have to come back to the site complete the testing and that ACDEH would be notified. The test was completed on April 13, 2018, but ACDEH was not notified of the testing. CORRECTIVE ACTION: Ensure that the CUPA is provided 48 hours notification to the CUPA in the future.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: HSC 6.7 25291 - California Health and Safety Code, Chapter 6.7, Section(s) 25291
Violation Description: Failure to install leak detection equipment correct for the type of system.
Violation Notes: Returned to compliance on 01/21/2017. Observations: Product conveyance piping for dispenser 3/4 is outside the footprint of the UDC mounting frame, and should a leak occur the fuel would may not be captured in the UDC. Corrective Action: relocate the product conveyance piping to be completely within the footprint of the UDC, thereby allowing any liquid that may be released to be captured within the UDC, and causing the electronic sensor in the UDC to alarm. Contact ACDEH prior to

USPS - OAKLAND VMF (Continued) **S121792151**

completing all piping replacement.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)
Violation Description: The owner/operator has failed to designate an UST operator or to inform the CUPA or any change in the designated UST operator(s) within 30 days after a change.
Violation Notes: Returned to compliance on 01/21/2017. Observations: The facility does not currently have a designated operator. Corrective Action: contact and retain the services of an ICC certified designated operator and update the DO certification in CERS
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 06-17-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 06/17/2016. Observations: chemical inventory onsite is not reflected in the CERS submittal as the 1000 gallon used oil above ground storage tank is not noted on the chemical inventory. Corrective Action: update the chemical inventory to include the 1000 gallon used oil AST and notify ACDEH when the chemical inventory has been updated. The violation was corrected during the inspection and no further action is required.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-06-2018
Citation: 23 CCR 16 2715(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)
Violation Description: Failure to comply with one or more of the following designated operator (DO) monthly inspection requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(f)(2).
Violation Notes: Returned to compliance on 05/31/2018. OBSERVATION: The designated

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operator failed to document all the alarms from the attached alarm history on the October 2017 designated operator monthly inspection report(s) and failed to check that they were responded to appropriately. The missing alarms include: L9 UDC 2 Dispenser Pan fuel alarm on 10-18-17 and 10-17-17. Also the L8 UDC 1 Dispenser Pan fuel alarm on 10-18-17 . During the monthly inspection, the designated operator shall review the alarm history for the previous month, check that each alarm was documented and responded to appropriately, and attach a copy of the alarm history with documentation to the response to any alarms to the monthly report. The designated operator failed to check and note the correct test dates for the secondary containment test on the March 2018 through April 2017 designated operator monthly inspection report(s). The secondary containment test date listed in the D.O report is April 8, 2016 instead of 6-15-15. During the monthly [Truncated]

Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-06-2018
Citation:	HSC 6.7 25290.1(c)(3),25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3),25290.2(c)(3)
Violation Description:	Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003.
Violation Notes:	Returned to compliance on 04/06/2018. OBSERVATION: Owner/Operator did not maintain under-dispenser containment, sumps, and/or other secondary containment in good condition and/or free of debris/liquid. The T-3 Diesel (South) STP sump had approximately 24 ounces of liquid inside of it. CORRECTED ON SITE: The service technician removed the liquid from the sump. This was corrected on site.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	05-31-2018
Citation:	22 CCR 12 66262.42(a), (b), (d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.42(a), (b), (d)
Violation Description:	Failure to determine the status of any hazardous waste if a signed copy of the manifest isn t received within 35 days of the date the waste was accepted by the initial transporter and/or to submit an Exception Report to DTSC if a signed copy of the manifest isn t received within 45 days of the date the waste was accepted by the initial transporter.
Violation Notes:	Returned to compliance on 08/01/2018. OBSERVATION: The facility did not complete all uniform manifest exception reporting requirements for manifest without the designated facility copies. Manifest that did not have the signed designated facility copy on site: - 006447893SKS - 005507969SKS - 005370205SKS - 005371129SKS - 004787420SKS CORRECTIVE ACTION: Prepare a uniform hazardous waste manifest exception report for all manifest listed above. Submit a copy of the reports to the CUPA within 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW

USPS - OAKLAND VMF (Continued) **S121792151**

Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-06-2018
Citation: 23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description: Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the UPA, for the life of the UST.
Violation Notes: Returned to compliance on 05/24/2018. OBSERVATION: Records of Annual Monitoring Certification (AMC) test results for the UST system were not found on site. The site did not have the April 2017 AMC test results, the April 2016 AMC test results, the April 2015 AMC test results and the June 2015 secondary containment test results. These records shall be kept on site for 3 years. CORRECTIVE ACTION: Immediately locate and maintain these records on site. Submit verification to the CUPA within 30 days.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2636(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)
Violation Description: Failure to continuously monitor the interstitial space of the tank, piping and/or sumps sump such that the leak detection activates an audible/visual alarm when a leak is detected.
Violation Notes: Returned to compliance on 04/08/2016. Observation: 420 sensor in the interstitial space of UST 3 was removed for testing no float was present. The exterior of the sensor was oxidized and liquid was present on the sensor bell, indicating that residual liquid may be present in the UST interstitial space. The origin of the liquid is unknown and additional testing may be required to determine the source of the liquid. Corrective action: the 420 sensor float was repaired and approximately 200 ml of residual liquid was removed from the UST interstitial space. Violation was corrected during the inspection
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 05-31-2018
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 06/05/2018. OBSERVATION: The facility has not annually reviewed and certified that the business plan is complete, accurate, and up-to-date. The annotated site map submitted to the CUPA does not include all of the hazardous materials listed in the Hazardous Materials Inventory Page. CORRECTIVE ACTION: Review, revise, and certify the business plan electronically in the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/."

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Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715(c)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)(2)
Violation Description: Failure to comply with one or more of the following: maintain the spill bucket in good condition, containment free of debris/liquid, and/or to remove the contents of the spill bucket when a release/leak/spill was observed.
Violation Notes: Returned to compliance on 04/08/2016. Observation: spill bucket in the north and middle USTs contained residual liquid Corrective action: liquid in the spill bucket was removed and violation was corrected during the inspection
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715(d) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(d)
Violation Description: Failure to notify the owner or operator of any condition discovered during the monthly visual inspection that may require follow-up actions.
Violation Notes: Returned to compliance on 01/21/2017. Observation: the facility does not currently have a DO under contract. Corrective Action: contact and retain the services of an ICC certified designated operator and update CERS with the owner DO statement.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description: The owner/operator has failed to comply with one or more of the following: to maintain a copy of the designated operator monthly inspections for the last 12 months and/or maintain a list of trained employees on-site or off-site at a readily available location, if approved by the CUPA.
Violation Notes: Returned to compliance on 01/21/2017. Observations: the facility has an incomplete record for the required monthly designated operator inspections reports. Corrective action: monthly designated operator inspections are required to be documented and a copy of the inspection shall be maintained onsiite for review during the annual UST monitoring system certification
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

USPS - OAKLAND VMF (Continued) **S121792151**

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	05-31-2018
Citation:	22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description:	Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes:	Returned to compliance on 08/01/2018. OBSERVATION: Signed copies of manifest from the designated facility for the past 3 years were not found on site. Signed copies of manifest not found on site: - 006447893SKS - 005507969SKS - 005370205SKS - 005371129SKS - 004787420SKS Hazardous waste generators shall retain copies of all manifests signed off by the disposal facility and all receipts used in a consolidated manifesting procedure on site for three years and have them readily available for review. CORRECTIVE ACTION: Immediately locate a copy of all manifests and receipts for the last three years, maintain them on site, and submit copies to the CUPA with 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	05-31-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 06/05/2018. OBSERVATION: A complete business plan has not been received by the CUPA. The annotated site map does not include all of the hazardous materials listed in the Hazardous Materials Inventory Page. CORRECTIVE ACTION: Submit the business plan electronically in the California Environmental Reporting System (CERS) and implement immediately.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-13-2017
Citation:	HSC 6.7 25290.1(c)(3), 25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3), 25290.2(c)(3)
Violation Description:	Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003 and before July 1, 2004, or on or after July 1, 2004.
Violation Notes:	Returned to compliance on 04/13/2017. Observations: turbine sumps contained rain water Corrective Action: residual rain water was removed from the turbine sumps and the violation was corrected during the inspection
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS

USPS - OAKLAND VMF (Continued) **S121792151**

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-06-2018
Citation:	HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25284, 25286
Violation Description:	Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes:	Returned to compliance on 05/25/2018. OBSERVATION: The UST tank information for all three diesel tanks is not current in CERS. Line item 490-58 is incorrectly list 794380-208 as the instead of 794390-420. Please verify line item 451-b for all three tanks for Striker Plate/ Bottom Protector. Any change of information must be updated in CERS within 30 days of the change. CORRECTIVE ACTION: Submit and maintain an accurate Tank information. Submit corrections by May 26, 2018.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016
Citation:	23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description:	Failure to maintain leak detection alarm logs and/or maintain records of appropriate follow-up actions
Violation Notes:	Returned to compliance on 01/21/2017. Observations: an incomplete record for maintenance, alarm longs is available in onsite documents: Corrective Action: maintain all alarm logs with proper follow up, UST system maintenance documents onsite for the previous 3 years. Obtain all maintenance and repair documents from contractor and maintain the documents onsite as required.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-13-2017
Citation:	23 CCR 16 2631(g), 2632(c)(2)(A) & (B) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2631(g), 2632(c)(2)(A) & (B)
Violation Description:	Failure of the double-walled interstitial space of the tank to be continuously monitored with an audible and visual alarm.
Violation Notes:	Returned to compliance on 04/13/2017. Observations: Annular space 420 sensor monitoring #3 diesel UST failed during testing. Corrective Action: the sensor was replaced and the violation was corrected during the inspection.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016
Citation:	23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712

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Violation Description:	Failure to obtain permit to install, replace, repair, or modify part of the UST system containment or leak detection equipment.
Violation Notes:	Returned to compliance on 01/21/2017. Observations: a sensor fuel alarm was noted on 3/25/2016 and an automatic tank gage upgrade was completed. However, no notification or permit was obtained from ACDEH for this activity, and no work order or service recored is available in the file for ATG upgrade. Corrective action: Obtain a work order/service request from Weston Solutions to verify that all work was completed by a licensed and ICC certified contractor and provide the documentation to ACDEH.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-14-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations were discovered at the time of the inspection.
Eval Division:	Oakland City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-14-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	The site was compliant at the time of inspection.
Eval Division:	Oakland City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-17-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Complete a previously scheduled above ground storage tank inspection. USPS operates 1-1000 gallon used oil AST, 1-1000 gallon lubrication oil AST 2-110 gallon lubrication oil ASTs and 4-55 gallon ATF and lubrication drums. No violations were noted during the inspection.
Eval Division:	Alameda County Environmental Health
Eval Program:	APSA
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-17-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Complete a previously scheduled inspection for USPS vehicle maintenance facility and meet with facility representative Gary Pablo who granted access to complete the inspection. The facility has a current operating permit from ACDEH and information has been submitted to CERS, with the most recent submittal completed on 6/17/2016 to correct violations noted during the inspection. The facility is a tier 1 above ground storage tank facility and the SPCC plan has been implemented and updated as required. USPS operates 1-1000 gallon above

USPS - OAKLAND VMF (Continued) **S121792151**

ground storage (AST) storing used oil, which is connected to an electronic monitoring panel, 1-1000 gallon AST storing lubrication oil, 2-110 gallon AST for lubrication oil, 4-55 gallon drums of ATF and gear oil 1-250 gallon coolant AST, 1-200 gallon used coolant AST, compressed gases including ArCO2, Acytlene, Oxygen, Nitrogen and Argon. Employee training is completed on annually and training is documented electronically. Daily AST inspections [Truncated]
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-27-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Follow up for UST repair, discuss with contractor West Star. Arrive onsite to complete secondary containment testing for USPS facility. Penetration fitting in the piping and turbine sumps were in poor condition and require replacement, the penetration boots were replaced with similar boots and secondary containment testing was completed on the piping sump and the turbine sump. However, the secondary containment test boot for the piping did not pass testing and also required replacement, but the contractor did not have the replacement boots available and will order the replacement boots. Furthermore, during the site visit ACDEH found a piping sump for the backup generator inside the main post office facility was not monitored as required. Consequently, in the event of a release the release will not be detected at the earliest possible point. Moreover, in order to detect a release of into the secondary containment pipe transition sump a monitoring device must be installed.
Eval Division: Alameda County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-18-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: ACDEH Completed a follow up inspection for secondary containment testing associated with the replacement of test boots for the flex pipe fuel supply and fuel return lines used to supply a backup generator system. Arrive onsite and meet with West Star, the UST contractor hired to replace and test the replacement boots. ACDEH observed testing of the replacement test boots, which passed a 5 psi pressure test, demonstrating the functionality of the secondary containment components. Moreover, during a previous site visit ACDEH observed a piping transition sump located inside the main mail processing building that did not have a monitoring sensor as required. The UST system must be constructed with a monitoring system capable of detecting entry of liquid into secondary containment. Failure of the UST system to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance stored in the primary containment into the secondary [Truncated]
Eval Division: Alameda County Environmental Health
Eval Program: UST
Eval Source: CERS

USPS - OAKLAND VMF (Continued) **S121792151**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-12-2009
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: This site is a large quantity generator
Eval Division: Oakland City Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-31-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH ON SITE FOR HAZARDOUS WASTE GENERATOR INSPECTION. ESCORTED BY ERNESTO EUGENIO JR, THE MAINTENANCE MANAGER AND SALVADOR SERRANO, THE SUPERVISOR VEHICLE MAINTENANCE. ALL VIOLATIONS NOTED IN THE INSPECTION REPORT SHALL BE CORRECTED BY JUNE 30, 2018 AND ANY VERIFICATION DOCUMENTATION SUBMITTED WITHIN THE SAME TIME FRAME. THE FACILITY HAS 34 EMPLOYEES THAT HANDLE HAZARDOUS WASTE. AFTER REVIEWING THE GENERATOR’S DISPOSAL RECORDS AND BUSINESS OPERATIONS, IT WAS OBSERVED THE FACILITY IS A LARGE QUANTITY HAZARDOUS WASTE GENERATOR WHO GENERATES MORE THAN THAN 1000 KG OF HAZARDOUS WASTE PER MONTH. CERTIFICATION OF RETURN TO COMPLIANCE I certify that the violation(s) noted in this Hazardous Waste Generator inspection report for USPS-Oakland VMF conducted on May 31, 2018 located at 1675 7th St , Oakland, CA have been corrected. I have personally examined any documentation attached to the certification to establish that the [Truncated]
Eval Division: Alameda County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-08-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete an announced inspection for an annual monitoring system certification. Contractor onsite to complete the annual monitoring certification is Tanknology. USPS operates 3 USTs at the facility, with 2 dispensers and a VR monitoring panel which is located in the supervisors office. The facility has not had a DO since May 2015 and no DO reports are available since that time. CERTIFICATION OF RETURN TO COMPLIANCE I certify that the violation(s) noted on the Notice to Comply and/or /Summary of Violations page(s) have been corrected. I have personally examined any documentation attached to the certification to establish that the violations have been corrected.
PRINT:_______________________________________
SIGN:____
TITLE:_______________________________________
DATE:____
Eval Division: Alameda County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-13-2017
Violations Found: Yes

USPS - OAKLAND VMF (Continued) **S121792151**

Eval Type: Routine done by local agency
Eval Notes: ACDEH staff complete a previously scheduled UST inspection for the USPS vehicle maintenance facility. The facility operates 3 diesel UST to fuel the postal service truck fleet and to supply a backup generator system located at the postal distribution center. Permission to complete the inspection was granted by facility representative Ernie Eugenio, maintenance manager. Facility has completed employee training annually as required, facility maintains a permit to operate from ACDEH and has updated CERS annually as required. During a previous annual monitoring system certification ACDEH noted that a fuel piping transition sump was not properly monitored as required by regulation; a stand alone sensor with a remote audible/visual alarm -not connected to the Veever Root UST monitoring system- was installed and tested. All violations noted during the inspection were corrected during the inspection and no further action is required at this time.
Eval Division: Alameda County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-14-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violation noted
Eval Division: Oakland City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-31-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH ON SITE FOR HAZARDOUS MATERIALS BUSINESS PLAN INSPECTION. ESCORTED BY ERNESTO EUGENIO JR, THE MAINTENANCE MANAGER AND SALVADOR SERRANO, THE SUPERVISOR VEHICLE MAINTENANCE. ALL VIOLATIONS NOTED IN THE INSPECTION REPORT SHALL BE CORRECTED BY JUNE 30, 2018 AND ANY VERIFICATION DOCUMENTATION SUBMITTED WITHIN THE SAME TIME FRAME.
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-06-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH (ACDEH) ON SITE FOR ANNUAL MONITORING CERTIFICATION AND ROUTINE INSPECTION. THE SERVICE TECHNICIAN WAS BRENT BOWEN WITH TANKNOLOGY WHO POSSESSES THE CALIFORNIA UST ICC SERVICE TECHNICIAN CERTIFICATION THAT EXPIRES 6-23-19, THE VEEDER ROOT CERTIFICATION THAT EXPIRES 4-26-19 AND THE VMI CERTIFICATION THAT EXPIRES 6-9-19. ALL VIOLATIONS NOTED IN THE INSPECTION REPORT SHALL BE CORRECTED BY MAY 26, 2018 AND ANY VERIFICATION DOCUMENTATION SUBMITTED WITHIN THE SAME TIME FRAME. DID NOT TEST DISPENSERS, FAIL-SAFE AND SENSOR OUT DUE TO NOT BEING ABLE TO AUTHORIZE ALL STP AND DISPENSER 4 NOT WORKING. THIS WAS RETESTED ON APRIL 13, 2018. ACDEH WAS NOT NOTIFIED OF TESTING.

USPS - OAKLAND VMF (Continued) **S121792151**

Eval Division:	Alameda County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-14-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations noted.
Eval Division:	Oakland City Fire Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-14-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations noted.
Eval Division:	Oakland City Fire Department
Eval Program:	UST
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Alameda County Env Health
Entity Title:	Not reported
Affiliation Address:	1131 Harbor Parkway, Suite 240
Affiliation City:	Alameda
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94502-6577
Affiliation Phone:	(510) 567-6700
Affiliation Type Desc:	Property Owner
Entity Name:	U.S. Postal Service
Entity Title:	Not reported
Affiliation Address:	1675 7TH STREET
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94615
Affiliation Phone:	(510) 874-8462
Affiliation Type Desc:	UST Tank Operator
Entity Name:	UNTIED STATES POSTAL SERVICE-VMF
Entity Title:	Not reported
Affiliation Address:	1675 7th STREET
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94615-9351
Affiliation Phone:	(510) 874-8462
Affiliation Type Desc:	Environmental Contact
Entity Name:	PATRICK LANGSJOEN
Entity Title:	Not reported
Affiliation Address:	P.O. Box 889024

USPS - OAKLAND VMF (Continued) **S121792151**

Affiliation City: San Francisco
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94188
Affiliation Phone: (510) 874-8316

Affiliation Type Desc: Identification Signer
Entity Name: Ernesto Eugenio Jr.
Entity Title: MANAGER, VEHICLE MAINTEANCE FACILITY
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: U.S. POSTAL SERVICE
Entity Title: Not reported
Affiliation Address: 1675 7TH STREET
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94615
Affiliation Phone: (510) 874-8282

Affiliation Type Desc: Parent Corporation
Entity Name: USPS - North Bay VMF
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: UST Tank Owner
Entity Name: UNITED STATES POSTAL SERVICE-VMF
Entity Title: Not reported
Affiliation Address: 1675 7th STREET
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94615-9351
Affiliation Phone: (510) 874-8462

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1675 7TH STREET
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94615
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer

USPS - OAKLAND VMF (Continued) **S121792151**

Entity Name: Michele Floren
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: U.S. POSTAL SERVICE
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (510) 874-8462

Affiliation Type Desc: UST Permit Applicant
Entity Name: ERNESTO EUGENIO JR
Entity Title: MANAGER VEHICLE MAINTENANCE
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (510) 874-8462

Affiliation Type Desc: UST Property Owner Name
Entity Name: UNITED STATES POSTAL SERVICE VMF
Entity Title: Not reported
Affiliation Address: 1675 7th STREET
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94615-9351
Affiliation Phone: (510) 874-8462

Site ID: 79565
CERS ID: 10411021
CERS Description: Aboveground Petroleum Storage

Violations:
Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 06-17-2016
Citation: 19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes: Returned to compliance on 06/17/2016. Observations: primary facility contact lists Charley Simmons; however, Mr. Simmons retired in 3/2016 and has been replaced by Gary Pablo. Corrective Action: update CERS to reflect the correct primary emergency contact as Gary Pablo and notify ACDEH when the correction has been made to CERS. The violation was corrected during the inspection and no further action is required.

USPS - OAKLAND VMF (Continued) **S121792151**

Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2666 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2666
Violation Description: Failure to maintain entry fitting such that it properly seals to the containment.
Violation Notes: Returned to compliance on 01/21/2017. Observations: penetration fittings into the north and middle turbine sumps are not liquid tight and in bad condition, with visible disintegration of the fittings in evidence. Corrective action: penetration fittings in the north and middle UST turbine sumps with visible signs of disintegration must be replaced, with a permit from ACDEH.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)
Violation Description: Failure to comply with one or more of the following: provide training to facility employee(s) responsible for proper operation and maintenance every 12 months and/or train new employee(s) who are responsible for proper operation and maintenance within 30-days of hire and/or to have at least one employee present during operating hours that has been trained in the proper operation and maintenance of the UST system.
Violation Notes: Returned to compliance on 01/21/2017. Observation; no employee training has been completed since May 2015 Corrective Action: once a DO has been assigned train all employees on the UST system as required.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description: Failure to comply with one or more of the designated operator monthly inspection requirements: failed to inspect the monthly alarm history report; attach a copy of the alarm history; failed to inspect for the presence of liquid or debris in the spill container/spill bucket and under dispenser containment; failed to inspect the under dispenser containment to ensure that monitoring equipment is placed in the proper position; failure to inspect for liquid or debris in the containment sump where an alarm occurred or for which there is no record of a service visit; or failure to check that all testing and maintenance has been completed and documented.
Violation Notes: Returned to compliance on 01/21/2017. Observations: the facility has

USPS - OAKLAND VMF (Continued) **S121792151**

	an incomplete record for the required monthly designated operator inspections reports. Corrective action: monthly designated operator inspections are required to be documented and a copy of the inspection shall be maintained onsiite for review during the annual UST monitoring system certification
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016
Citation:	23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description:	Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the CUPA, for the life of the underground storage tank and/or failure to maintain written monitoring and maintenance records on site, or off site if approved by the CUPA, for a period of 3 years, 6 1/2 years for cathodic protection, and 5 years for written performance claims pertaining to release detection systems and calibration and maintenance records for such systems.
Violation Notes:	Returned to compliance on 01/21/2017. Observations: an incomplete record of UST maintenance and repair logs is available onsite. Corrective action: Maintain all UST repair, maintenance and other relevant documents onsite for the previous 3 years.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016
Citation:	23 CCR 16 2715(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)
Violation Description:	Failure to submit statement of UST compliance and/or Designated Operator certification.
Violation Notes:	Returned to compliance on 01/21/2017. Observations: DO owner statement has expired and needs to be updated Corrective Action: update the DO statement in CERS
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	05-31-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 06/05/2018. OBSERVATION: The annotated site map submitted to the CUPA does not include all of the hazardous materials listed in the Hazardous Materials Inventory Page. CORRECTIVE ACTION: Revise the annotated Site Map to include all required content and submit electronically in the California Environmental Reporting System (CERS).
Violation Division:	Alameda County Environmental Health

USPS - OAKLAND VMF (Continued) **S121792151**

Violation Program: HMRRP
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description: Failure of service technician, designated operator, installer, and/or employee to obtain and maintain a proper and current International Code Council certification.
Violation Notes: Returned to compliance on 01/21/2017. Observations: facility does not currently have designated operator Corrective action: Contact and retain the services of an ICC certified designated operator and submit the tank owner designated operator agreement into CERS.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-06-2018
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description: Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 p.s.i.g. and restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes: Returned to compliance on 04/06/2018. OBSERVATION: The T-1 Diesel (North), T-Diesel (Middle) and T-3 Diesel (South) line leak detectors failed to detect a leak when tested. All line leak detectors shall be capable of detecting a 3-gallon per hour leak at 10 psi. CORRECTIVE ACTION. The Service technician replaced the T-Diesel (Middle) line leak detector and T-3 Diesel (South) line leak detector The T-1 Diesel (North) line leak detector was adjusted. All line leak detectors were retested during the inspection and passed. This was corrected on site.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 05-31-2018
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes: Returned to compliance on 06/11/2018. OBSERVATION: This facility s EPA ID number CA6180090148 is inactive. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation, hazardous waste without an EPA ID number. CORRECTIVE ACTION: Immediately contact DTSC and reactivate your EPA ID number and submit evidence to the CUPA within 30 days.
Violation Division: Alameda County Environmental Health
Violation Program: HW

USPS - OAKLAND VMF (Continued) **S121792151**

Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-06-2018
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to have current UST Monitoring Plan available on site.
Violation Notes: Returned to compliance on 05/25/2018. OBSERVATION: The monitoring plan on site is not approved by the CUPA. Line item 490-58 for all three tanks should be 794390-420. Please verify line item 451-b for all three tanks for Striker Plate/ Bottom Protector. The monitoring and response plans must be current and approved by the CUPA. CORRECTIVE ACTION: Submit and maintain an accurate monitoring plan. Submit corrections by May 26, 2018.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-06-2018
Citation: 23 CCR 16 2644.1(a)(4) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2644.1(a)(4)
Violation Description: Failure to notify the UPA 48 hours prior to testing.
Violation Notes: Returned to compliance on 05/24/2018. OBSERVATION: Owner/Operator did not notify the CUPA 48hours prior to testing. During the annual monitoring certification the dispensers, senor out and fail safe was not able to be tested due to not being able to authorize dispenser 4. The service technician stated that he would have to come back to the site complete the testing and that ACDEH would be notified. The test was completed on April 13, 2018, but ACDEH was not notified of the testing. CORRECTIVE ACTION: Ensure that the CUPA is provided 48 hours notification to the CUPA in the future.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: HSC 6.7 25291 - California Health and Safety Code, Chapter 6.7, Section(s) 25291
Violation Description: Failure to install leak detection equipment correct for the type of system.
Violation Notes: Returned to compliance on 01/21/2017. Observations: Product conveyance piping for dispenser 3/4 is outside the footprint of the UDC mounting frame, and should a leak occur the fuel would may not be captured in the UDC. Corrective Action: relocate the product conveyance piping to be completely within the footprint of the UDC, thereby allowing any liquid that may be released to be captured within the UDC, and causing the electronic sensor in the UDC to alarm. Contact ACDEH prior to completing all piping replacement.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

USPS - OAKLAND VMF (Continued) **S121792151**

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016
Citation:	23 CCR 16 2715(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)
Violation Description:	The owner/operator has failed to designate an UST operator or to inform the CUPA or any change in the designated UST operator(s) within 30 days after a change.
Violation Notes:	Returned to compliance on 01/21/2017. Observations: The facility does not currently have a designated operator. Corrective Action: contact and retain the services of an ICC certified designated operator and update the DO certification in CERS
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	06-17-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 06/17/2016. Observations: chemical inventory onsite is not reflected in the CERS submittal as the 1000 gallon used oil above ground storage tank is not noted on the chemical inventory. Corrective Action: update the chemical inventory to include the 1000 gallon used oil AST and notify ACDEH when the chemical inventory has been updated. The violation was corrected during the inspection and no further action is required.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-06-2018
Citation:	23 CCR 16 2715(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)
Violation Description:	Failure to comply with one or more of the following designated operator (DO) monthly inspection requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(f)(2).
Violation Notes:	Returned to compliance on 05/31/2018. OBSERVATION: The designated operator failed to document all the alarms from the attached alarm history on the October 2017 designated operator monthly inspection report(s) and failed to check that they were responded to appropriately. The missing alarms include: L9 UDC 2 Dispenser Pan fuel alarm on 10-18-17 and 10-17-17. Also the L8 UDC 1 Dispenser Pan fuel

USPS - OAKLAND VMF (Continued) **S121792151**

alarm on 10-18-17 . During the monthly inspection, the designated operator shall review the alarm history for the previous month, check that each alarm was documented and responded to appropriately, and attach a copy of the alarm history with documentation to the response to any alarms to the monthly report. The designated operator failed to check and note the correct test dates for the secondary containment test on the March 2018 through April 2017 designated operator monthly inspection report(s). The secondary containment test date listed in the D.O report is April 8, 2016 instead of 6-15-15. During the monthly [Truncated]
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-06-2018
Citation: HSC 6.7 25290.1(c)(3),25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3),25290.2(c)(3)
Violation Description: Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003.
Violation Notes: Returned to compliance on 04/06/2018. OBSERVATION: Owner/Operator did not maintain under-dispenser containment, sumps, and/or other secondary containment in good condition and/or free of debris/liquid. The T-3 Diesel (South) STP sump had approximately 24 ounces of liquid inside of it. CORRECTED ON SITE: The service technician removed the liquid from the sump. This was corrected on site.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 05-31-2018
Citation: 22 CCR 12 66262.42(a), (b), (d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.42(a), (b), (d)
Violation Description: Failure to determine the status of any hazardous waste if a signed copy of the manifest isn t received within 35 days of the date the waste was accepted by the initial transporter and/or to submit an Exception Report to DTSC if a signed copy of the manifest isn t received within 45 days of the date the waste was accepted by the initial transporter.
Violation Notes: Returned to compliance on 08/01/2018. OBSERVATION: The facility did not complete all uniform manifest exception reporting requirements for manifest without the designated facility copies. Manifest that did not have the signed designated facility copy on site: - 006447893SKS - 005507969SKS - 005370205SKS - 005371129SKS - 004787420SKS CORRECTIVE ACTION: Prepare a uniform hazardous waste manifest exception report for all manifest listed above. Submit a copy of the reports to the CUPA within 30 days.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-06-2018

USPS - OAKLAND VMF (Continued) **S121792151**

Citation:	23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description:	Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the UPA, for the life of the UST.
Violation Notes:	Returned to compliance on 05/24/2018. OBSERVATION: Records of Annual Monitoring Certification (AMC) test results for the UST system were not found on site. The site did not have the April 2017 AMC test results, the April 2016 AMC test results, the April 2015 AMC test results and the June 2015 secondary containment test results. These records shall be kept on site for 3 years. CORRECTIVE ACTION: Immediately locate and maintain these records on site. Submit verification to the CUPA within 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016
Citation:	23 CCR 16 2636(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)
Violation Description:	Failure to continuously monitor the interstitial space of the tank, piping and/or sumps sump such that the leak detection activates an audible/visual alarm when a leak is detected.
Violation Notes:	Returned to compliance on 04/08/2016. Observation: 420 sensor in the interstitial space of UST 3 was removed for testing no float was present. The exterior of the sensor was oxidized and liquid was present on the sensor bell, indicating that residual liquid may be present in the UST interstitial space. The origin of the liquid is unknown and additional testing may be required to determine the source of the liquid. Corrective action: the 420 sensor float was repaired and approximately 200 ml of residual liquid was removed from the UST interstitial space. Violation was corrected during the inspection
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	05-31-2018
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 06/05/2018. OBSERVATION: The facility has not annually reviewed and certified that the business plan is complete, accurate, and up-to-date. The annotated site map submitted to the CUPA does not include all of the hazardous materials listed in the Hazardous Materials Inventory Page. CORRECTIVE ACTION: Review, revise, and certify the business plan electronically in the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/."
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	79565

USPS - OAKLAND VMF (Continued) **S121792151**

Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016
Citation:	23 CCR 16 2715(c)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)(2)
Violation Description:	Failure to comply with one or more of the following: maintain the spill bucket in good condition, containment free of debris/liquid, and/or to remove the contents of the spill bucket when a release/leak/spill was observed.
Violation Notes:	Returned to compliance on 04/08/2016. Observation: spill bucket in the north and middle USTs contained residual liquid Corrective action: liquid in the spill bucket was removed and violation was corrected during the inspection
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016
Citation:	23 CCR 16 2715(d) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(d)
Violation Description:	Failure to notify the owner or operator of any condition discovered during the monthly visual inspection that may require follow-up actions.
Violation Notes:	Returned to compliance on 01/21/2017. Observation: the facility does not currently have a DO under contract. Corrective Action: contact and retain the services of an ICC certified designated operator and update CERS with the owner DO statement.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016
Citation:	23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description:	The owner/operator has failed to comply with one or more of the following: to maintain a copy of the designated operator monthly inspections for the last 12 months and/or maintain a list of trained employees on-site or off-site at a readily available location, if approved by the CUPA.
Violation Notes:	Returned to compliance on 01/21/2017. Observations: the facility has an incomplete record for the required monthly designated operator inspections reports. Corrective action: monthly designated operator inspections are required to be documented and a copy of the inspection shall be maintained onsiite for review during the annual UST monitoring system certification
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	05-31-2018
Citation:	22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)

USPS - OAKLAND VMF (Continued) **S121792151**

Violation Description:	Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes:	Returned to compliance on 08/01/2018. OBSERVATION: Signed copies of manifest from the designated facility for the past 3 years were not found on site. Signed copies of manifest not found on site: - 006447893SKS - 005507969SKS - 005370205SKS - 005371129SKS - 004787420SKS Hazardous waste generators shall retain copies of all manifests signed off by the disposal facility and all receipts used in a consolidated manifesting procedure on site for three years and have them readily available for review. CORRECTIVE ACTION: Immediately locate a copy of all manifests and receipts for the last three years, maintain them on site, and submit copies to the CUPA with 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	05-31-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 06/05/2018. OBSERVATION: A complete business plan has not been received by the CUPA. The annotated site map does not include all of the hazardous materials listed in the Hazardous Materials Inventory Page. CORRECTIVE ACTION: Submit the business plan electronically in the California Environmental Reporting System (CERS) and implement immediately.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-13-2017
Citation:	HSC 6.7 25290.1(c)(3), 25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3), 25290.2(c)(3)
Violation Description:	Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003 and before July 1, 2004, or on or after July 1, 2004.
Violation Notes:	Returned to compliance on 04/13/2017. Observations: turbine sumps contained rain water Corrective Action: residual rain water was removed from the turbine sumps and the violation was corrected during the inspection
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-06-2018
Citation:	HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7,

USPS - OAKLAND VMF (Continued) **S121792151**

Section(s) 25284, 25286
Violation Description: Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes: Returned to compliance on 05/25/2018. OBSERVATION: The UST tank information for all three diesel tanks is not current in CERS. Line item 490-58 is incorrectly list 794380-208 as the instead of 794390-420. Please verify line item 451-b for all three tanks for Striker Plate/ Bottom Protector. Any change of information must be updated in CERS within 30 days of the change. CORRECTIVE ACTION: Submit and maintain an accurate Tank information. Submit corrections by May 26, 2018.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description: Failure to maintain leak detection alarm logs and/or maintain records of appropriate follow-up actions
Violation Notes: Returned to compliance on 01/21/2017. Observations: an incomplete record for maintenance, alarm longs is available in onsite documents: Corrective Action: maintain all alarm logs with proper follow up, UST system maintenance documents onsite for the previous 3 years. Obtain all maintenance and repair documents from contractor and maintain the documents onsite as required.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-13-2017
Citation: 23 CCR 16 2631(g), 2632(c)(2)(A) & (B) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2631(g), 2632(c)(2)(A) & (B)
Violation Description: Failure of the double-walled interstitial space of the tank to be continuously monitored with an audible and visual alarm.
Violation Notes: Returned to compliance on 04/13/2017. Observations: Annular space 420 sensor monitoring #3 diesel UST failed during testing. Corrective Action: the sensor was replaced and the violation was corrected during the inspection.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Description: Failure to obtain permit to install, replace, repair, or modify part of the UST system containment or leak detection equipment.
Violation Notes: Returned to compliance on 01/21/2017. Observations: a sensor fuel alarm was noted on 3/25/2016 and an automatic tank gage upgrade was

USPS - OAKLAND VMF (Continued) **S121792151**

completed. However, no notification or permit was obtained from ACDEH for this activity, and no work order or service recored is available in the file for ATG upgrade. Corrective action: Obtain a work order/service request from Weston Solutions to verify that all work was completed by a licensed and ICC certified contractor and provide the documentation to ACDEH.

Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-14-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations were discovered at the time of the inspection.
Eval Division:	Oakland City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-14-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	The site was compliant at the time of inspection.
Eval Division:	Oakland City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-17-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Complete a previously scheduled above ground storage tank inspection. USPS operates 1-1000 gallon used oil AST, 1-1000 gallon lubrication oil AST 2-110 gallon lubrication oil ASTs and 4-55 gallon ATF and lubrication drums. No violations were noted during the inspection.
Eval Division:	Alameda County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-17-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Complete a previously scheduled inspection for USPS vehicle maintenance facility and meet with facility representative Gary Pablo who granted access to complete the inspection. The facility has a current operating permit from ACDEH and information has been submitted to CERS, with the most recent submittal completed on 6/17/2016 to correct violations noted during the inspection. The facility is a tier 1 above ground storage tank facility and the SPCC plan has been implemented and updated as required. USPS operates 1-1000 gallon above ground storage (AST) storing used oil, which is connected to an electronic monitoring panel, 1-1000 gallon AST storing lubrication oil, 2-110 gallon AST for lubrication oil, 4-55 gallon drums of ATF and gear oil 1-250 gallon coolant AST, 1-200 gallon used coolant AST,

USPS - OAKLAND VMF (Continued) **S121792151**

	compressed gases including ArCO2, Acytlene, Oxygen, Nitrogen and Argon. Employee training is completed on annually and training is documented electronically. Daily AST inspections [Truncated]
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-27-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Follow up for UST repair, discuss with contractor West Star. Arrive onsite to complete secondary containment testing for USPS facility. Penetration fitting in the piping and turbine sumps were in poor condition and require replacement, the penetration boots were replaced with similar boots and secondary containment testing was completed on the piping sump and the turbine sump. However, the secondary containment test boot for the piping did not pass testing and also required replacement, but the contractor did not have the replacement boots available and will order the replacement boots. Furthermore, during the site visit ACDEH found a piping sump for the backup generator inside the main post office facility was not monitored as required. Consequently, in the event of a release the release will not be detected at the earliest possible point. Moreover, in order to detect a release of into the secondary containment pipe transition sump a monitoring device must be installed.
Eval Division:	Alameda County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-18-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	ACDEH Completed a follow up inspection for secondary containment testing associated with the replacement of test boots for the flex pipe fuel supply and fuel return lines used to supply a backup generator system. Arrive onsite and meet with West Star, the UST contractor hired to replace and test the replacement boots. ACDEH observed testing of the replacement test boots, which passed a 5 psi pressure test, demonstrating the functionality of the secondary containment components. Moreover, during a previous site visit ACDEH observed a piping transition sump located inside the main mail processing building that did not have a monitoring sensor as required. The UST system must be constructed with a monitoring system capable of detecting entry of liquid into secondary containment. Failure of the UST system to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance stored in the primary containment into the secondary [Truncated]
Eval Division:	Alameda County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-12-2009
Violations Found:	No
Eval Type:	Routine done by local agency

USPS - OAKLAND VMF (Continued) **S121792151**

Eval Notes: This site is a large quantity generator
Eval Division: Oakland City Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-31-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH ON SITE FOR HAZARDOUS WASTE GENERATOR INSPECTION. ESCORTED BY ERNESTO EUGENIO JR, THE MAINTENANCE MANAGER AND SALVADOR SERRANO, THE SUPERVISOR VEHICLE MAINTENANCE. ALL VIOLATIONS NOTED IN THE INSPECTION REPORT SHALL BE CORRECTED BY JUNE 30, 2018 AND ANY VERIFICATION DOCUMENTATION SUBMITTED WITHIN THE SAME TIME FRAME. THE FACILITY HAS 34 EMPLOYEES THAT HANDLE HAZARDOUS WASTE. AFTER REVIEWING THE GENERATOR’S DISPOSAL RECORDS AND BUSINESS OPERATIONS, IT WAS OBSERVED THE FACILITY IS A LARGE QUANTITY HAZARDOUS WASTE GENERATOR WHO GENERATES MORE THAN THAN 1000 KG OF HAZARDOUS WASTE PER MONTH. CERTIFICATION OF RETURN TO COMPLIANCE I certify that the violation(s) noted in this Hazardous Waste Generator inspection report for USPS-Oakland VMF conducted on May 31, 2018 located at 1675 7th St , Oakland, CA have been corrected. I have personally examined any documentation attached to the certification to establish that the [Truncated]
Eval Division: Alameda County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-08-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete an announced inspection for an annual monitoring system certification. Contractor onsite to complete the annual monitoring certification is Tanknology. USPS operates 3 USTs at the facility, with 2 dispensers and a VR monitoring panel which is located in the supervisors office. The facility has not had a DO since May 2015 and no DO reports are available since that time. CERTIFICATION OF RETURN TO COMPLIANCE I certify that the violation(s) noted on the Notice to Comply and/or /Summary of Violations page(s) have been corrected. I have personally examined any documentation attached to the certification to establish that the violations have been corrected.
PRINT:____
SIGN:____
TITLE:____
DATE:____
Eval Division: Alameda County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-13-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ACDEH staff complete a previously scheduled UST inspection for the USPS vehicle maintenance facility. The facility operates 3 diesel UST to fuel the postal service truck fleet and to supply a backup

USPS - OAKLAND VMF (Continued) **S121792151**

generator system located at the postal distribution center. Permission to complete the inspection was granted by facility representative Ernie Eugenio, maintenance manager. Facility has completed employee training annually as required, facility maintains a permit to operate from ACDEH and has updated CERS annually as required. During a previous annual monitoring system certification ACDEH noted that a fuel piping transition sump was not properly monitored as required by regulation; a stand alone sensor with a remote audible/visual alarm -not connected to the Veever Root UST monitoring system- was installed and tested. All violations noted during the inspection were corrected during the inspection and no further action is required at this time.
Eval Division: Alameda County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-14-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violation noted
Eval Division: Oakland City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-31-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH ON SITE FOR HAZARDOUS MATERIALS BUSINESS PLAN INSPECTION. ESCORTED BY ERNESTO EUGENIO JR, THE MAINTENANCE MANAGER AND SALVADOR SERRANO, THE SUPERVISOR VEHICLE MAINTENANCE. ALL VIOLATIONS NOTED IN THE INSPECTION REPORT SHALL BE CORRECTED BY JUNE 30, 2018 AND ANY VERIFICATION DOCUMENTATION SUBMITTED WITHIN THE SAME TIME FRAME.
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-06-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH (ACDEH) ON SITE FOR ANNUAL MONITORING CERTIFICATION AND ROUTINE INSPECTION. THE SERVICE TECHNICIAN WAS BRENT BOWEN WITH TANKNOLOGY WHO POSSESSES THE CALIFORNIA UST ICC SERVICE TECHNICIAN CERTIFICATION THAT EXPIRES 6-23-19, THE VEEDER ROOT CERTIFICATION THAT EXPIRES 4-26-19 AND THE VMI CERTIFICATION THAT EXPIRES 6-9-19. ALL VIOLATIONS NOTED IN THE INSPECTION REPORT SHALL BE CORRECTED BY MAY 26, 2018 AND ANY VERIFICATION DOCUMENTATION SUBMITTED WITHIN THE SAME TIME FRAME. DID NOT TEST DISPENSERS, FAIL-SAFE AND SENSOR OUT DUE TO NOT BEING ABLE TO AUTHORIZE ALL STP AND DISPENSER 4 NOT WORKING. THIS WAS RETESTED ON APRIL 13, 2018. ACDEH WAS NOT NOTIFIED OF TESTING.
Eval Division: Alameda County Environmental Health
Eval Program: UST
Eval Source: CERS

USPS - OAKLAND VMF (Continued) **S121792151**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-14-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations noted.
Eval Division:	Oakland City Fire Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-14-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations noted.
Eval Division:	Oakland City Fire Department
Eval Program:	UST
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Alameda County Env Health
Entity Title:	Not reported
Affiliation Address:	1131 Harbor Parkway, Suite 240
Affiliation City:	Alameda
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94502-6577
Affiliation Phone:	(510) 567-6700
Affiliation Type Desc:	Property Owner
Entity Name:	U.S. Postal Service
Entity Title:	Not reported
Affiliation Address:	1675 7TH STREET
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94615
Affiliation Phone:	(510) 874-8462
Affiliation Type Desc:	UST Tank Operator
Entity Name:	UNTIED STATES POSTAL SERVICE-VMF
Entity Title:	Not reported
Affiliation Address:	1675 7th STREET
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94615-9351
Affiliation Phone:	(510) 874-8462
Affiliation Type Desc:	Environmental Contact
Entity Name:	PATRICK LANGSJOEN
Entity Title:	Not reported
Affiliation Address:	P.O. Box 889024
Affiliation City:	San Francisco
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94188

USPS - OAKLAND VMF (Continued) **S121792151**

Affiliation Phone:	(510) 874-8316
Affiliation Type Desc:	Identification Signer
Entity Name:	Ernesto Eugenio Jr.
Entity Title:	MANAGER, VEHICLE MAINTEANCE FACILITY
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	U.S. POSTAL SERVICE
Entity Title:	Not reported
Affiliation Address:	1675 7TH STREET
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94615
Affiliation Phone:	(510) 874-8282
Affiliation Type Desc:	Parent Corporation
Entity Name:	USPS - North Bay VMF
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	UST Tank Owner
Entity Name:	UNITED STATES POSTAL SERVICE-VMF
Entity Title:	Not reported
Affiliation Address:	1675 7th STREET
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94615-9351
Affiliation Phone:	(510) 874-8462
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1675 7TH STREET
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94615
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Michele Floren
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported

USPS - OAKLAND VMF (Continued) **S121792151**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	U.S. POSTAL SERVICE
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 874-8462
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	ERNESTO EUGENIO JR
Entity Title:	MANAGER VEHICLE MAINTENANCE
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 874-8462
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	UNITED STATES POSTAL SERVICE VMF
Entity Title:	Not reported
Affiliation Address:	1675 7th STREET
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94615-9351
Affiliation Phone:	(510) 874-8462

CERS TANKS:

Site ID:	79565
CERS ID:	10411021
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	06-17-2016
Citation:	19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 06/17/2016. Observations: primary facility contact lists Charley Simmons; however, Mr. Simmons retired in 3/2016 and has been replaced by Gary Pablo. Corrective Action: update CERS to reflect the correct primary emergency contact as Gary Pablo and notify ACDEH when the correction has been made to CERS. The violation was corrected during the inspection and no further action is required.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP

USPS - OAKLAND VMF (Continued) **S121792151**

Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016
Citation:	23 CCR 16 2666 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2666
Violation Description:	Failure to maintain entry fitting such that it properly seals to the containment.
Violation Notes:	Returned to compliance on 01/21/2017. Observations: penetration fittings into the north and middle turbine sumps are not liquid tight and in bad condition, with visible disintegration of the fittings in evidence. Corrective action: penetration fittings in the north and middle UST turbine sumps with visible signs of disintegration must be replaced, with a permit from ACDEH.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016
Citation:	23 CCR 16 2715(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)
Violation Description:	Failure to comply with one or more of the following: provide training to facility employee(s) responsible for proper operation and maintenance every 12 months and/or train new employee(s) who are responsible for proper operation and maintenance within 30-days of hire and/or to have at least one employee present during operating hours that has been trained in the proper operation and maintenance of the UST system.
Violation Notes:	Returned to compliance on 01/21/2017. Observation; no employee training has been completed since May 2015 Corrective Action: once a DO has been assigned train all employees on the UST system as required.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016
Citation:	23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description:	Failure to comply with one or more of the designated operator monthly inspection requirements: failed to inspect the monthly alarm history report; attach a copy of the alarm history; failed to inspect for the presence of liquid or debris in the spill container/spill bucket and under dispenser containment; failed to inspect the under dispenser containment to ensure that monitoring equipment is placed in the proper position; failure to inspect for liquid or debris in the containment sump where an alarm occurred or for which there is no record of a service visit; or failure to check that all testing and maintenance has been completed and documented.
Violation Notes:	Returned to compliance on 01/21/2017. Observations: the facility has an incomplete record for the required monthly designated operator inspections reports. Corrective action: monthly designated operator

USPS - OAKLAND VMF (Continued) **S121792151**

	inspections are required to be documented and a copy of the inspection shall be maintained onsiite for review during the annual UST monitoring system certification
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016
Citation:	23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description:	Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the CUPA, for the life of the underground storage tank and/or failure to maintain written monitoring and maintenance records on site, or off site if approved by the CUPA, for a period of 3 years, 6 1/2 years for cathodic protection, and 5 years for written performance claims pertaining to release detection systems and calibration and maintenance records for such systems.
Violation Notes:	Returned to compliance on 01/21/2017. Observations: an incomplete record of UST maintenance and repair logs is available onsite. Corrective action: Maintain all UST repair, maintenance and other relevant documents onsite for the previous 3 years.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016
Citation:	23 CCR 16 2715(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)
Violation Description:	Failure to submit statement of UST compliance and/or Designated Operator certification.
Violation Notes:	Returned to compliance on 01/21/2017. Observations: DO owner statement has expired and needs to be updated Corrective Action: update the DO statement in CERS
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	05-31-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 06/05/2018. OBSERVATION: The annotated site map submitted to the CUPA does not include all of the hazardous materials listed in the Hazardous Materials Inventory Page. CORRECTIVE ACTION: Revise the annotated Site Map to include all required content and submit electronically in the California Environmental Reporting System (CERS).
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

USPS - OAKLAND VMF (Continued) **S121792151**

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description: Failure of service technician, designated operator, installer, and/or employee to obtain and maintain a proper and current International Code Council certification.
Violation Notes: Returned to compliance on 01/21/2017. Observations: facility does not currently have designated operator Corrective action: Contact and retain the services of an ICC certified designated operator and submit the tank owner designated operator agreement into CERS.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-06-2018
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description: Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 p.s.i.g. and restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes: Returned to compliance on 04/06/2018. OBSERVATION: The T-1 Diesel (North), T-Diesel (Middle) and T-3 Diesel (South) line leak detectors failed to detect a leak when tested. All line leak detectors shall be capable of detecting a 3-gallon per hour leak at 10 psi. CORRECTIVE ACTION. The Service technician replaced the T-Diesel (Middle) line leak detector and T-3 Diesel (South) line leak detector The T-1 Diesel (North) line leak detector was adjusted. All line leak detectors were retested during the inspection and passed. This was corrected on site.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 05-31-2018
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes: Returned to compliance on 06/11/2018. OBSERVATION: This facility s EPA ID number CA6180090148 is inactive. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation, hazardous waste without an EPA ID number. CORRECTIVE ACTION: Immediately contact DTSC and reactivate your EPA ID number and submit evidence to the CUPA within 30 days.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 79565

USPS - OAKLAND VMF (Continued) **S121792151**

Site Name:	USPS - Oakland VMF
Violation Date:	04-06-2018
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to have current UST Monitoring Plan available on site.
Violation Notes:	Returned to compliance on 05/25/2018. OBSERVATION: The monitoring plan on site is not approved by the CUPA. Line item 490-58 for all three tanks should be 794390-420. Please verify line item 451-b for all three tanks for Striker Plate/ Bottom Protector. The monitoring and response plans must be current and approved by the CUPA. CORRECTIVE ACTION: Submit and maintain an accurate monitoring plan. Submit corrections by May 26, 2018.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-06-2018
Citation:	23 CCR 16 2644.1(a)(4) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2644.1(a)(4)
Violation Description:	Failure to notify the UPA 48 hours prior to testing.
Violation Notes:	Returned to compliance on 05/24/2018. OBSERVATION: Owner/Operator did not notify the CUPA 48hours prior to testing. During the annual monitoring certification the dispensers, senor out and fail safe was not able to be tested due to not being able to authorize dispenser 4. The service technician stated that he would have to come back to the site complete the testing and that ACDEH would be notified. The test was completed on April 13, 2018, but ACDEH was not notified of the testing. CORRECTIVE ACTION: Ensure that the CUPA is provided 48 hours notification to the CUPA in the future.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016
Citation:	HSC 6.7 25291 - California Health and Safety Code, Chapter 6.7, Section(s) 25291
Violation Description:	Failure to install leak detection equipment correct for the type of system.
Violation Notes:	Returned to compliance on 01/21/2017. Observations: Product conveyance piping for dispenser 3/4 is outside the footprint of the UDC mounting frame, and should a leak occur the fuel would may not be captured in the UDC. Corrective Action: relocate the product conveyance piping to be completely within the footprint of the UDC, thereby allowing any liquid that may be released to be captured within the UDC, and causing the electronic sensor in the UDC to alarm. Contact ACDEH prior to completing all piping replacement.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-08-2016

USPS - OAKLAND VMF (Continued) **S121792151**

Citation:	23 CCR 16 2715(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)
Violation Description:	The owner/operator has failed to designate an UST operator or to inform the CUPA or any change in the designated UST operator(s) within 30 days after a change.
Violation Notes:	Returned to compliance on 01/21/2017. Observations: The facility does not currently have a designated operator. Corrective Action: contact and retain the services of an ICC certified designated operator and update the DO certification in CERS
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	06-17-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 06/17/2016. Observations: chemical inventory onsite is not reflected in the CERS submittal as the 1000 gallon used oil above ground storage tank is not noted on the chemical inventory. Corrective Action: update the chemical inventory to include the 1000 gallon used oil AST and notify ACDEH when the chemical inventory has been updated. The violation was corrected during the inspection and no further action is required.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-06-2018
Citation:	23 CCR 16 2715(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)
Violation Description:	Failure to comply with one or more of the following designated operator (DO) monthly inspection requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(f)(2).
Violation Notes:	Returned to compliance on 05/31/2018. OBSERVATION: The designated operator failed to document all the alarms from the attached alarm history on the October 2017 designated operator monthly inspection report(s) and failed to check that they were responded to appropriately. The missing alarms include: L9 UDC 2 Dispenser Pan fuel alarm on 10-18-17 and 10-17-17. Also the L8 UDC 1 Dispenser Pan fuel alarm on 10-18-17 . During the monthly inspection, the designated operator shall review the alarm history for the previous month, check that each alarm was documented and responded to appropriately, and

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	attach a copy of the alarm history with documentation to the response to any alarms to the monthly report. The designated operator failed to check and note the correct test dates for the secondary containment test on the March 2018 through April 2017 designated operator monthly inspection report(s). The secondary containment test date listed in the D.O report is April 8, 2016 instead of 6-15-15. During the monthly [Truncated]
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-06-2018
Citation:	HSC 6.7 25290.1(c)(3),25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3),25290.2(c)(3)
Violation Description:	Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003.
Violation Notes:	Returned to compliance on 04/06/2018. OBSERVATION: Owner/Operator did not maintain under-dispenser containment, sumps, and/or other secondary containment in good condition and/or free of debris/liquid. The T-3 Diesel (South) STP sump had approximately 24 ounces of liquid inside of it. CORRECTED ON SITE: The service technician removed the liquid from the sump. This was corrected on site.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	05-31-2018
Citation:	22 CCR 12 66262.42(a), (b), (d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.42(a), (b), (d)
Violation Description:	Failure to determine the status of any hazardous waste if a signed copy of the manifest isn t received within 35 days of the date the waste was accepted by the initial transporter and/or to submit an Exception Report to DTSC if a signed copy of the manifest isn t received within 45 days of the date the waste was accepted by the initial transporter.
Violation Notes:	Returned to compliance on 08/01/2018. OBSERVATION: The facility did not complete all uniform manifest exception reporting requirements for manifest without the designated facility copies. Manifest that did not have the signed designated facility copy on site: - 006447893SKS - 005507969SKS - 005370205SKS - 005371129SKS - 004787420SKS CORRECTIVE ACTION: Prepare a uniform hazardous waste manifest exception report for all manifest listed above. Submit a copy of the reports to the CUPA within 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-06-2018
Citation:	23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description:	Failure to maintain records of repairs, lining, and upgrades on site,

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or off site if approved by the UPA, for the life of the UST.
Violation Notes: Returned to compliance on 05/24/2018. OBSERVATION: Records of Annual Monitoring Certification (AMC) test results for the UST system were not found on site. The site did not have the April 2017 AMC test results, the April 2016 AMC test results, the April 2015 AMC test results and the June 2015 secondary containment test results. These records shall be kept on site for 3 years. CORRECTIVE ACTION: Immediately locate and maintain these records on site. Submit verification to the CUPA within 30 days.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2636(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)
Violation Description: Failure to continuously monitor the interstitial space of the tank, piping and/or sumps sump such that the leak detection activates an audible/visual alarm when a leak is detected.
Violation Notes: Returned to compliance on 04/08/2016. Observation: 420 sensor in the interstitial space of UST 3 was removed for testing no float was present. The exterior of the sensor was oxidized and liquid was present on the sensor bell, indicating that residual liquid may be present in the UST interstitial space. The origin of the liquid is unknown and additional testing may be required to determine the source of the liquid. Corrective action: the 420 sensor float was repaired and approximately 200 ml of residual liquid was removed from the UST interstitial space. Violation was corrected during the inspection
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 05-31-2018
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 06/05/2018. OBSERVATION: The facility has not annually reviewed and certified that the business plan is complete, accurate, and up-to-date. The annotated site map submitted to the CUPA does not include all of the hazardous materials listed in the Hazardous Materials Inventory Page. CORRECTIVE ACTION: Review, revise, and certify the business plan electronically in the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/."
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715(c)(2) - California Code of Regulations, Title 23,

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Chapter 16, Section(s) 2715(c)(2)
Violation Description: Failure to comply with one or more of the following: maintain the spill bucket in good condition, containment free of debris/liquid, and/or to remove the contents of the spill bucket when a release/leak/spill was observed.
Violation Notes: Returned to compliance on 04/08/2016. Observation: spill bucket in the north and middle USTs contained residual liquid Corrective action: liquid in the spill bucket was removed and violation was corrected during the inspection
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715(d) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(d)
Violation Description: Failure to notify the owner or operator of any condition discovered during the monthly visual inspection that may require follow-up actions.
Violation Notes: Returned to compliance on 01/21/2017. Observation: the facility does not currently have a DO under contract. Corrective Action: contact and retain the services of an ICC certified designated operator and update CERS with the owner DO statement.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description: The owner/operator has failed to comply with one or more of the following: to maintain a copy of the designated operator monthly inspections for the last 12 months and/or maintain a list of trained employees on-site or off-site at a readily available location, if approved by the CUPA.
Violation Notes: Returned to compliance on 01/21/2017. Observations: the facility has an incomplete record for the required monthly designated operator inspections reports. Corrective action: monthly designated operator inspections are required to be documented and a copy of the inspection shall be maintained onsiite for review during the annual UST monitoring system certification
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 05-31-2018
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description: Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted

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	for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes:	Returned to compliance on 08/01/2018. OBSERVATION: Signed copies of manifest from the designated facility for the past 3 years were not found on site. Signed copies of manifest not found on site: - 006447893SKS - 005507969SKS - 005370205SKS - 005371129SKS - 004787420SKS Hazardous waste generators shall retain copies of all manifests signed off by the disposal facility and all receipts used in a consolidated manifesting procedure on site for three years and have them readily available for review. CORRECTIVE ACTION: Immediately locate a copy of all manifests and receipts for the last three years, maintain them on site, and submit copies to the CUPA with 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	05-31-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 06/05/2018. OBSERVATION: A complete business plan has not been received by the CUPA. The annotated site map does not include all of the hazardous materials listed in the Hazardous Materials Inventory Page. CORRECTIVE ACTION: Submit the business plan electronically in the California Environmental Reporting System (CERS) and implement immediately.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-13-2017
Citation:	HSC 6.7 25290.1(c)(3), 25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3), 25290.2(c)(3)
Violation Description:	Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003 and before July 1, 2004, or on or after July 1, 2004.
Violation Notes:	Returned to compliance on 04/13/2017. Observations: turbine sumps contained rain water Corrective Action: residual rain water was removed from the turbine sumps and the violation was corrected during the inspection
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	79565
Site Name:	USPS - Oakland VMF
Violation Date:	04-06-2018
Citation:	HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25284, 25286
Violation Description:	Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.

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Violation Notes: Returned to compliance on 05/25/2018. OBSERVATION: The UST tank information for all three diesel tanks is not current in CERS. Line item 490-58 is incorrectly list 794380-208 as the instead of 794390-420. Please verify line item 451-b for all three tanks for Striker Plate/ Bottom Protector. Any change of information must be updated in CERS within 30 days of the change. CORRECTIVE ACTION: Submit and maintain an accurate Tank information. Submit corrections by May 26, 2018.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description: Failure to maintain leak detection alarm logs and/or maintain records of appropriate follow-up actions
Violation Notes: Returned to compliance on 01/21/2017. Observations: an incomplete record for maintenance, alarm longs is available in onsite documents: Corrective Action: maintain all alarm logs with proper follow up, UST system maintenance documents onsite for the previous 3 years. Obtain all maintenance and repair documents from contractor and maintain the documents onsite as required.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-13-2017
Citation: 23 CCR 16 2631(g), 2632(c)(2)(A) & (B) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2631(g), 2632(c)(2)(A) & (B)
Violation Description: Failure of the double-walled interstitial space of the tank to be continuously monitored with an audible and visual alarm.
Violation Notes: Returned to compliance on 04/13/2017. Observations: Annular space 420 sensor monitoring #3 diesel UST failed during testing. Corrective Action: the sensor was replaced and the violation was corrected during the inspection.
Violation Division: Alameda County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 79565
Site Name: USPS - Oakland VMF
Violation Date: 04-08-2016
Citation: 23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Description: Failure to obtain permit to install, replace, repair, or modify part of the UST system containment or leak detection equipment.
Violation Notes: Returned to compliance on 01/21/2017. Observations: a sensor fuel alarm was noted on 3/25/2016 and an automatic tank gage upgrade was completed. However, no notification or permit was obtained from ACDEH for this activity, and no work order or service recored is available in the file for ATG upgrade. Corrective action: Obtain a work

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	order/service request from Weston Solutions to verify that all work was completed by a licensed and ICC certified contractor and provide the documentation to ACDEH.
Violation Division:	Alameda County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-14-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations were discovered at the time of the inspection.
Eval Division:	Oakland City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-14-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	The site was compliant at the time of inspection.
Eval Division:	Oakland City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-17-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Complete a previously scheduled above ground storage tank inspection. USPS operates 1-1000 gallon used oil AST, 1-1000 gallon lubrication oil AST 2-110 gallon lubrication oil ASTs and 4-55 gallon ATF and lubrication drums. No violations were noted during the inspection.
Eval Division:	Alameda County Environmental Health
Eval Program:	APSA
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-17-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Complete a previously scheduled inspection for USPS vehicle maintenance facility and meet with facility representative Gary Pablo who granted access to complete the inspection. The facility has a current operating permit from ACDEH and information has been submitted to CERS, with the most recent submittal completed on 6/17/2016 to correct violations noted during the inspection. The facility is a tier 1 above ground storage tank facility and the SPCC plan has been implemented and updated as required. USPS operates 1-1000 gallon above ground storage (AST) storing used oil, which is connected to an electronic monitoring panel, 1-1000 gallon AST storing lubrication oil, 2-110 gallon AST for lubrication oil, 4-55 gallon drums of ATF and gear oil 1-250 gallon coolant AST, 1-200 gallon used coolant AST, compressed gases including ArCO2, Acytlene, Oxygen, Nitrogen and Argon. Employee training is completed on annually and training is documented electronically. Daily AST inspections [Truncated]

USPS - OAKLAND VMF (Continued) **S121792151**

Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-27-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Follow up for UST repair, discuss with contractor West Star. Arrive onsite to complete secondary containment testing for USPS facility. Penetration fitting in the piping and turbine sumps were in poor condition and require replacement, the penetration boots were replaced with similar boots and secondary containment testing was completed on the piping sump and the turbine sump. However, the secondary containment test boot for the piping did not pass testing and also required replacement, but the contractor did not have the replacement boots available and will order the replacement boots. Furthermore, during the site visit ACDEH found a piping sump for the backup generator inside the main post office facility was not monitored as required. Consequently, in the event of a release the release will not be detected at the earliest possible point. Moreover, in order to detect a release of into the secondary containment pipe transition sump a monitoring device must be installed.
Eval Division:	Alameda County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-18-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	ACDEH Completed a follow up inspection for secondary containment testing associated with the replacement of test boots for the flex pipe fuel supply and fuel return lines used to supply a backup generator system. Arrive onsite and meet with West Star, the UST contractor hired to replace and test the replacement boots. ACDEH observed testing of the replacement test boots, which passed a 5 psi pressure test, demonstrating the functionality of the secondary containment components. Moreover, during a previous site visit ACDEH observed a piping transition sump located inside the main mail processing building that did not have a monitoring sensor as required. The UST system must be constructed with a monitoring system capable of detecting entry of liquid into secondary containment. Failure of the UST system to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance stored in the primary containment into the secondary [Truncated]
Eval Division:	Alameda County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-12-2009
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	This site is a large quantity generator
Eval Division:	Oakland City Fire Department
Eval Program:	HW

USPS - OAKLAND VMF (Continued) **S121792151**

Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-31-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH ON SITE FOR HAZARDOUS WASTE GENERATOR INSPECTION. ESCORTED BY ERNESTO EUGENIO JR, THE MAINTENANCE MANAGER AND SALVADOR SERRANO, THE SUPERVISOR VEHICLE MAINTENANCE. ALL VIOLATIONS NOTED IN THE INSPECTION REPORT SHALL BE CORRECTED BY JUNE 30, 2018 AND ANY VERIFICATION DOCUMENTATION SUBMITTED WITHIN THE SAME TIME FRAME. THE FACILITY HAS 34 EMPLOYEES THAT HANDLE HAZARDOUS WASTE. AFTER REVIEWING THE GENERATOR’S DISPOSAL RECORDS AND BUSINESS OPERATIONS, IT WAS OBSERVED THE FACILITY IS A LARGE QUANTITY HAZARDOUS WASTE GENERATOR WHO GENERATES MORE THAN THAN 1000 KG OF HAZARDOUS WASTE PER MONTH. CERTIFICATION OF RETURN TO COMPLIANCE I certify that the violation(s) noted in this Hazardous Waste Generator inspection report for USPS-Oakland VMF conducted on May 31, 2018 located at 1675 7th St , Oakland, CA have been corrected. I have personally examined any documentation attached to the certification to establish that the [Truncated]
Eval Division: Alameda County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-08-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete an announced inspection for an annual monitoring system certification. Contractor onsite to complete the annual monitoring certification is Tanknology. USPS operates 3 USTs at the facility, with 2 dispensers and a VR monitoring panel which is located in the supervisors office. The facility has not had a DO since May 2015 and no DO reports are available since that time. CERTIFICATION OF RETURN TO COMPLIANCE I certify that the violation(s) noted on the Notice to Comply and/or /Summary of Violations page(s) have been corrected. I have personally examined any documentation attached to the certification to establish that the violations have been corrected.
PRINT:____
SIGN:____
TITLE:____
DATE:____
Eval Division: Alameda County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-13-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ACDEH staff complete a previously scheduled UST inspection for the USPS vehicle maintenance facility. The facility operates 3 diesel UST to fuel the postal service truck fleet and to supply a backup generator system located at the postal distribution center. Permission to complete the inspection was granted by facility representative Ernie Eugenio, maintenance manager. Facility has completed employee

USPS - OAKLAND VMF (Continued) **S121792151**

	training annually as required, facility maintains a permit to operate from ACDEH and has updated CERS annually as required. During a previous annual monitoring system certification ACDEH noted that a fuel piping transition sump was not properly monitored as required by regulation; a stand alone sensor with a remote audible/visual alarm -not connected to the Veever Root UST monitoring system- was installed and tested. All violations noted during the inspection were corrected during the inspection and no further action is required at this time.
Eval Division:	Alameda County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-14-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violation noted
Eval Division:	Oakland City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-31-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH ON SITE FOR HAZARDOUS MATERIALS BUSINESS PLAN INSPECTION. ESCORTED BY ERNESTO EUGENIO JR, THE MAINTENANCE MANAGER AND SALVADOR SERRANO, THE SUPERVISOR VEHICLE MAINTENANCE. ALL VIOLATIONS NOTED IN THE INSPECTION REPORT SHALL BE CORRECTED BY JUNE 30, 2018 AND ANY VERIFICATION DOCUMENTATION SUBMITTED WITHIN THE SAME TIME FRAME.
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-06-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH (ACDEH) ON SITE FOR ANNUAL MONITORING CERTIFICATION AND ROUTINE INSPECTION. THE SERVICE TECHNICIAN WAS BRENT BOWEN WITH TANKNOLOGY WHO POSSESSES THE CALIFORNIA UST ICC SERVICE TECHNICIAN CERTIFICATION THAT EXPIRES 6-23-19, THE VEEDER ROOT CERTIFICATION THAT EXPIRES 4-26-19 AND THE VMI CERTIFICATION THAT EXPIRES 6-9-19. ALL VIOLATIONS NOTED IN THE INSPECTION REPORT SHALL BE CORRECTED BY MAY 26, 2018 AND ANY VERIFICATION DOCUMENTATION SUBMITTED WITHIN THE SAME TIME FRAME. DID NOT TEST DISPENSERS, FAIL-SAFE AND SENSOR OUT DUE TO NOT BEING ABLE TO AUTHORIZE ALL STP AND DISPENSER 4 NOT WORKING. THIS WAS RETESTED ON APRIL 13, 2018. ACDEH WAS NOT NOTIFIED OF TESTING.
Eval Division:	Alameda County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-14-2013
Violations Found:	No

USPS - OAKLAND VMF (Continued) **S121792151**

Eval Type: Routine done by local agency
Eval Notes: No violations noted.
Eval Division: Oakland City Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-14-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations noted.
Eval Division: Oakland City Fire Department
Eval Program: UST
Eval Source: CERS

Affiliation:

Affiliation Type Desc: CUPA District
Entity Name: Alameda County Env Health
Entity Title: Not reported
Affiliation Address: 1131 Harbor Parkway, Suite 240
Affiliation City: Alameda
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94502-6577
Affiliation Phone: (510) 567-6700

Affiliation Type Desc: Property Owner
Entity Name: U.S. Postal Service
Entity Title: Not reported
Affiliation Address: 1675 7TH STREET
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94615
Affiliation Phone: (510) 874-8462

Affiliation Type Desc: UST Tank Operator
Entity Name: UNTIED STATES POSTAL SERVICE-VMF
Entity Title: Not reported
Affiliation Address: 1675 7th STREET
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94615-9351
Affiliation Phone: (510) 874-8462

Affiliation Type Desc: Environmental Contact
Entity Name: PATRICK LANGSJOEN
Entity Title: Not reported
Affiliation Address: P.O. Box 889024
Affiliation City: San Francisco
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94188
Affiliation Phone: (510) 874-8316

Affiliation Type Desc: Identification Signer

USPS - OAKLAND VMF (Continued) **S121792151**

Entity Name: Ernesto Eugenio Jr.
Entity Title: MANAGER, VEHICLE MAINTEANCE FACILITY
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: U.S. POSTAL SERVICE
Entity Title: Not reported
Affiliation Address: 1675 7TH STREET
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94615
Affiliation Phone: (510) 874-8282

Affiliation Type Desc: Parent Corporation
Entity Name: USPS - North Bay VMF
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: UST Tank Owner
Entity Name: UNITED STATES POSTAL SERVICE-VMF
Entity Title: Not reported
Affiliation Address: 1675 7th STREET
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94615-9351
Affiliation Phone: (510) 874-8462

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1675 7TH STREET
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94615
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer
Entity Name: Michele Floren
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported

USPS - OAKLAND VMF (Continued) **S121792151**

Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	U.S. POSTAL SERVICE
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 874-8462
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	ERNESTO EUGENIO JR
Entity Title:	MANAGER VEHICLE MAINTENANCE
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 874-8462
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	UNITED STATES POSTAL SERVICE VMF
Entity Title:	Not reported
Affiliation Address:	1675 7th STREET
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94615-9351
Affiliation Phone:	(510) 874-8462

T112 **MAIN POST OFFICE** **CA HIST UST** **U001599439**
SE **1675 - 7TH STREET** **N/A**
1/8-1/4 **OAKLAND, CA 94615**
0.248 mi.
1310 ft. **Site 9 of 9 in cluster T**

Relative:
Higher
Actual:
14 ft.

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000066335
Facility Type:	Other
Other Type:	POST OFFICE
Contact Name:	Not reported
Telephone:	4158748222
Owner Name:	S.S. SILBERBLATT INC & OAKLAND
Owner Address:	81 CENTRE AVENUE, ROOM 202
Owner City,St,Zip:	NEW ROCHELLE, NY 10801-721
Total Tanks:	0001
Tank Num:	001
Container Num:	003
Year Installed:	1969
Tank Capacity:	00008000
Tank Used for:	WASTE

MAIN POST OFFICE (Continued) **U001599439**

Type of Fuel: 4
Container Construction Thickness: X
Leak Detection: None

U113
ENE
1/4-1/2
0.268 mi.
1415 ft.

TAYLOR ROOF STRUCTURES
1769 13TH STREET
OAKLAND, CA 92626

Site 1 of 2 in cluster U

CA Notify 65 **S100226628**
N/A

Relative:
Higher
Actual:
13 ft.

NOTIFY 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported

U114
NE
1/4-1/2
0.285 mi.
1507 ft.

TAYLOR ROOF STRUCTURES
1746 13TH
OAKLAND, CA 94607

Site 2 of 2 in cluster U

CA LUST
CA Alameda County CS
CA HIST CORTESE
CA CERS

S102438454
N/A

Relative:
Higher
Actual:
13 ft.

LUST:
Lead Agency: ALAMEDA COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101338
Global Id: T0600101338
Latitude: 37.8138127107924
Longitude: -122.297249905394
Status: Completed - Case Closed
Status Date: 12/07/1995
Case Worker: Not reported
RB Case Number: 01-1449
Local Agency: Not reported
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: RO0001156
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0600101338
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600101338
Action Type: Other

TAYLOR ROOF STRUCTURES (Continued) **S102438454**

Date: 02/06/1989
Action: Leak Reported

Global Id: T0600101338
Action Type: REMEDIATION
Date: 09/09/9999
Action: Excavation

Global Id: T0600101338
Action Type: ENFORCEMENT
Date: 12/07/1995
Action: Closure/No Further Action Letter

Global Id: T0600101338
Action Type: ENFORCEMENT
Date: 02/13/1990
Action: * Historical Enforcement - #UNK

LUST:
Global Id: T0600101338
Status: Completed - Case Closed
Status Date: 12/07/1995

Global Id: T0600101338
Status: Open - Case Begin Date
Status Date: 02/06/1989

LUST REG 2:
Region: 2
Facility Id: 01-1449
Facility Status: Case Closed
Case Number: 3742
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 3/9/1992
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: 4/29/1990
Preliminary Site Assesment Began: 4/9/1991
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Case Closed
Record Id: RO0001156
PE: 5602
Facility Status: Case Closed
Latitude: 37.812712576
Longitude: -122.29814373

HIST CORTESE:
Region: CORTESE

TAYLOR ROOF STRUCTURES (Continued) **S102438454**

Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1449

CERS TANKS:
Site ID: 257681
CERS ID: T0600101338
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

115
NE
1/4-1/2
0.296 mi.
1563 ft.

14TH STREET APARTMENTS (AKA IRON HORSE)
1801 14TH STREET
OAKLAND, CA 94607

CA CPS-SLIC
CA DEED
CA CERS

S109521309
N/A

Relative:
Lower

Actual:
12 ft.

CPS-SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 01/26/2010
Global Id: SL0600197637
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.8136357994757
Longitude: -122.29939085751
Case Type: Cleanup Program Site
Case Worker: MEJ
Local Agency: Not reported
RB Case Number: 01S0556
File Location: Regional Board
Potential Media Affected: Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern: * PAHs/PNAs, Lead, Arsenic
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

DEED:
Envirostor ID: SL0600197637
Area: Not reported
Sub Area: Not reported
Site Type: SLIC
Status: COMPLETED - CASE CLOSED
Agency: SWRCB
Covenant Uploaded: Y
Deed Date(s): 11/09/2009
File Name: Geotracker Land Use/Deed Restrictions

14TH STREET APARTMENTS (AKA IRON HORSE) (Continued) **S109521309**

CERS TANKS:
Site ID: 213874
CERS ID: SL0600197637
CERS Description: Cleanup Program Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: MARK JOHNSON - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY STREET, SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

V116
NE
1/4-1/2
0.321 mi.
1693 ft.

CENTRAL STATION LAND, LLC
1399-1707 WOOD STREET
OAKLAND, CA

Site 1 of 2 in cluster V

CA CPS-SLIC
S106235290
N/A

Relative:
Lower

Actual:
12 ft.

SLIC REG 2:
Region: 2
Facility ID: SLT2O195298
Facility Status: Leak being confirmed
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

V117
NE
1/4-1/2
0.321 mi.
1693 ft.

SOUTHERN PACIFIC TRANSPORTATION COM
1399 WOOD ST
OAKLAND, CA 94607

Site 2 of 2 in cluster V

CA LUST
CA Alameda County CS
CA HIST CORTESE
CA CERS
1000597178
N/A

Relative:
Lower

Actual:
12 ft.

LUST:
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101301
Global Id: T0600101301
Latitude: 37.813433
Longitude: -122.296859
Status: Completed - Case Closed
Status Date: 04/13/2009
Case Worker: UUU

SOUTHERN PACIFIC TRANSPORTATION COM (Continued) **1000597178**

RB Case Number: 01S0556
Local Agency: Not reported
File Location: Local Agency
Local Case Number: RO0000476
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0600101301
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600101301
Action Type: Other
Date: 09/14/1989
Action: Leak Reported

Global Id: T0600101301
Action Type: RESPONSE
Date: 07/17/2007
Action: Correspondence

Global Id: T0600101301
Action Type: RESPONSE
Date: 04/13/2006
Action: Other Report / Document

Global Id: T0600101301
Action Type: RESPONSE
Date: 01/25/2006
Action: Other Workplan

Global Id: T0600101301
Action Type: RESPONSE
Date: 04/24/1997
Action: Request for Closure

Global Id: T0600101301
Action Type: RESPONSE
Date: 07/23/2003
Action: Site Assessment Report

Global Id: T0600101301
Action Type: ENFORCEMENT
Date: 07/03/2008
Action: Technical Correspondence / Assistance / Other - #20080703

Global Id: T0600101301
Action Type: ENFORCEMENT
Date: 04/13/2009

SOUTHERN PACIFIC TRANSPORTATION COM (Continued) **1000597178**

Action:	Closure/No Further Action Letter
Global Id:	T0600101301
Action Type:	RESPONSE
Date:	10/19/2005
Action:	Corrective Action Plan / Remedial Action Plan
Global Id:	T0600101301
Action Type:	ENFORCEMENT
Date:	05/10/2006
Action:	Closure/No Further Action Letter
Global Id:	T0600101301
Action Type:	ENFORCEMENT
Date:	11/02/2004
Action:	Staff Letter
Global Id:	T0600101301
Action Type:	REMEDIATION
Date:	09/14/1989
Action:	Excavation
Global Id:	T0600101301
Action Type:	Other
Date:	09/14/1989
Action:	Leak Discovery
Global Id:	T0600101301
Action Type:	RESPONSE
Date:	03/17/2005
Action:	Respond to Petition

LUST:

Global Id:	T0600101301
Status:	Completed - Case Closed
Status Date:	04/13/2009
Global Id:	T0600101301
Status:	Open - Case Begin Date
Status Date:	09/14/1989
Global Id:	T0600101301
Status:	Open - Site Assessment
Status Date:	09/14/1989
Global Id:	T0600101301
Status:	Open - Site Assessment
Status Date:	06/11/1992
Global Id:	T0600101301
Status:	Open - Site Assessment
Status Date:	01/26/1994
Global Id:	T0600101301
Status:	Open - Verification Monitoring
Status Date:	06/29/1994

SOUTHERN PACIFIC TRANSPORTATION COM (Continued) **1000597178**

LUST REG 2:
Region: 2
Facility Id: 01-1408
Facility Status: Pollution Characterization
Case Number: 3824
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 3/27/1992
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: 3/18/1998
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Leak Confirmation
Record Id: RO0000476
PE: 5602
Facility Status: Leak Confirmation
Latitude: 37.813354166
Longitude: -122.29797387

Status: 11
Record Id: RO0000476
PE: 5602
Facility Status: Not reported
Latitude: 37.813354166
Longitude: -122.29797387

Status: Preliminary Site Assessment Workplan Submitted
Record Id: RO0000476
PE: 5602
Facility Status: Preliminary Site Assessment Workplan Submitted
Latitude: 37.813354166
Longitude: -122.29797387

Status: Preliminary Site Assessment Underway
Record Id: RO0000476
PE: 5602
Facility Status: Preliminary Site Assessment Underway
Latitude: 37.813354166
Longitude: -122.29797387

Status: Verificaiton Monitoring Underway
Record Id: RO0000476
PE: 5602
Facility Status: Verification Monitoring Underway
Latitude: 37.813354166
Longitude: -122.29797387

HIST CORTESE:
Region: CORTESE
Facility County Code: 1

SOUTHERN PACIFIC TRANSPORTATION COM (Continued) **1000597178**

Reg By:	LTNKA
Reg Id:	01-1408

CERS TANKS:

Site ID:	244087
CERS ID:	T0600101301
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

W118
NNW
1/4-1/2
0.331 mi.
1750 ft.

OAKLAND ARMY BASE
2475-D WEST 12TH STREET
OAKLAND, CA 94607

Site 1 of 2 in cluster W

CA RESPONSE
CA ENVIROSTOR
CA HIST Cal-Sites
CA CERS

S105481917
N/A

Relative:
Lower

Actual:
10 ft.

AWP:

AWP Facility ID:	01970006
Region Code:	2
Region:	BERKELEY
SMBR Branch Code:	NO
SMBR Branch Unit:	OMF-NORTHERN CALIF
Site Name.:	OAKLAND ARMY BASE
Current Status Date:	01151988
Current Status:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency Code:	DTSC
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type:	Closed military facility
Awp Site Type:	CLOSED MILITARY BASE
NPL:	Not Listed
Tier Of AWP Site:	Not reported
Source Of Funding:	Not reported
Responsible Staff Member:	HWONG
Supervisor Responsible:	Not reported
SIC Code:	97
Facility SIC:	NATIONAL SECURITY/INTERNATIONAL AFFAIRS
RWQCB Code:	SF
RWQCB Associated With Site:	SAN FRANCISCO BAY
Site Access Controlled:	Controlled
Site Listed HWS List:	Not reported
Hazard Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Not reported
# Of Contamination Sources:	0
Lat/Long:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Description Of Entity:	MEASURED FROM HQ BUILDING ON BASE

OAKLAND ARMY BASE (Continued) **S105481917**

State Assembly Distt Code: 16
State Senate District: 09

RESPONSE:
Facility ID: 1970006
Site Type: State Response
Site Type Detail: Closed Base
Acres: 17
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Henry Wong
Supervisor: Daniel Murphy
Division Branch: Cleanup Berkeley
Site Code: 200233
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 18
Senate: 09
Special Program Status: DSMOA
Status: Active
Status Date: 01/15/1988
Restricted Use: NO
Funding: BRAC 95
Latitude: 37.81426
Longitude: -122.3065
APN: NONE SPECIFIED
Past Use: OFFICE BUILDING, RESIDENTIAL AREA, UNKNOWN, TRANSPORTATION - WAREHOUSING, EQUIPMENT/INSTRUMENT REPAIR, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, RECYCLING - DRUM, UNKNOWN, BATTERY STORAGE, DAY CARE FACILITY, DEGREASING FACILITY, DISTRIBUTOR - CHEMICAL, DRY CLEANING, FIRING RANGE - SMALL ARMS ETC..., FUEL - VEHICLE STORAGE/ REFUELING, FUEL HYDRANT PUMPING STATIONS, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, LANDFILL - HAZARDOUS WASTE, MACHINE SHOP, METAL FINISHING, OIL/WATER SEPARATORS, PAINT/DEPAINT FACILITY, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, PORT, RECYCLING - DRUM, RECYCLING - OTHER, RECYCLING - SCRAP METAL, RECYCLING - USED OIL , SHIPYARD - TERMINAL, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING, DEGREASING FACILITY, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, MACHINE SHOP, MAINTENANCE / CLEANING, MANUFACTURING - OTHER, NURSERY, OFFICE BUILDING, OIL/WATER SEPARATORS, PAINT/DEPAINT FACILITY, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, RAIL ROAD MAINTENANCE SHOP, RECYCLING - OTHER, RECYCLING - SCRAP METAL, RETAIL - SERVICE STATION, TRANSFORMER REPAIR, UNKNOWN, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING, EQUIPMENT/INSTRUMENT REPAIR, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, PORT, RECYCLING - OTHER, SHIPYARD - SHIP BUILDING/REPAIR, SHIPYARD - TERMINAL, UNKNOWN, DEGREASING FACILITY, ENGINE TESTING/REPAIR, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, OIL/WATER SEPARATORS, RAIL ROAD MAINTENANCE SHOP, VEHICLE MAINTENANCE, JUNKYARD, LANDFILL - CONSTRUCTION, UNKNOWN, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, RECYCLING - DRUM, UNKNOWN, DAY CARE FACILITY, JUNKYARD, OFFICE BUILDING, RESIDENTIAL AREA, UNKNOWN, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, MACHINE SHOP, MAINTENANCE / CLEANING, MANUFACTURING - OTHER, OFFICE BUILDING, OIL/WATER SEPARATORS, RETAIL

OAKLAND ARMY BASE (Continued) **S105481917**

- SERVICE STATION, UNKNOWN, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING, ILLEGAL DUMPING, LANDFILL - CONSTRUCTION, LANDFILL - HAZARDOUS WASTE, SHIPYARD - TERMINAL, UNKNOWN, DEGREASING FACILITY, ILLEGAL DUMPING, JUNKYARD, LDF, LANDFILL - CONSTRUCTION, RAIL ROAD MAINTENANCE SHOP, UNKNOWN

Potential COC :	* CONTAMINATED SOIL * HYDROCARBON SOLVENTS * UNSPECIFIED ORGANIC LIQUID MIXTURE Arsenic Chlordane Total Chromium (1:6 ratio Cr VI:Cr III DDD DDE DDT Endrin Lead Mercury (elemental Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs Tetrachloroethylene (PCE Toxaphene TPH-diesel TPH-gas TPH-MOTOR OIL 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride Manganese and compounds Asbestos Containing Materials (ACM Benzene Dioxin (as 2,3,7,8-TCDD TEQ Methyl tertbutyl ether (MTBE Naturally Occurring Asbestos (NOA Silver Under Investigation
Confirmed COC:	Arsenic Lead Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas Asbestos Containing Materials (ACM TPH-MOTOR OIL Chlordane DDD DDE DDT Endrin Toxaphene Under Investigation Benzene Total Chromium (1:6 ratio Cr VI:Cr III Dioxin (as 2,3,7,8-TCDD TEQ Mercury (elemental Methyl tertbutyl ether (MTBE Polychlorinated biphenyls (PCBs Silver Trichloroethylene (TCE Vinyl chloride Naturally Occurring Asbestos (NOA 1,1,1-Trichloroethane (TCA Tetrachloroethylene (PCE 30001-NO 30004-NO 30006-NO 30007-NO 30008-NO 30010-NO 30013-NO 30014-NO 30018-NO 30019-NO 31001-NO 30353-NO 30022-NO 30024-NO 30025-NO 30026-NO 30027-NO 30028-NO 3002502-NO
Potential Description:	OTH, SOIL, OTH, SED, SOIL, SURFW, OTH, SED, SOIL, OTH, SOIL, IA, OTH, SED, SOIL, SV, OTH, SOIL, SED, IA, OTH, SOIL, SV, OTH, SOIL, OTH, SOIL, OTH, SED, SOIL, SV, IA, SURFW, IA, OTH, SED, SOIL, SV, SURFW
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Facility ID:	1970006
Status:	Active
Status Date:	01/15/1988
Site Code:	200233
Site Type:	State Response
Site Type Detailed:	Closed Base
Acres:	17
NPL:	NO
Regulatory Agencies:	SMBRP

OAKLAND ARMY BASE (Continued) **S105481917**

Lead Agency:	SMBRP
Program Manager:	Henry Wong
Supervisor:	Daniel Murphy
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	DSMOA
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	BRAC 95
Latitude:	37.81426
Longitude:	-122.3065
APN:	NONE SPECIFIED
Past Use:	OFFICE BUILDING, RESIDENTIAL AREA, UNKNOWN, TRANSPORTATION - WAREHOUSING, EQUIPMENT/INSTRUMENT REPAIR, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, RECYCLING - DRUM, UNKNOWN, BATTERY STORAGE, DAY CARE FACILITY, DEGREASING FACILITY, DISTRIBUTOR - CHEMICAL, DRY CLEANING, FIRING RANGE - SMALL ARMS ETC..., FUEL - VEHICLE STORAGE/ REFUELING, FUEL HYDRANT PUMPING STATIONS, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, LANDFILL - HAZARDOUS WASTE, MACHINE SHOP, METAL FINISHING, OIL/WATER SEPARATORS, PAINT/DEPAINT FACILITY, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, PORT, RECYCLING - DRUM, RECYCLING - OTHER, RECYCLING - SCRAP METAL, RECYCLING - USED OIL , SHIPYARD - TERMINAL, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING, DEGREASING FACILITY, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, MACHINE SHOP, MAINTENANCE / CLEANING, MANUFACTURING - OTHER, NURSERY, OFFICE BUILDING, OIL/WATER SEPARATORS, PAINT/DEPAINT FACILITY, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, RAIL ROAD MAINTENANCE SHOP, RECYCLING - OTHER, RECYCLING - SCRAP METAL, RETAIL - SERVICE STATION, TRANSFORMER REPAIR, UNKNOWN, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING, EQUIPMENT/INSTRUMENT REPAIR, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, PORT, RECYCLING - OTHER, SHIPYARD - SHIP BUILDING/REPAIR, SHIPYARD - TERMINAL, UNKNOWN, DEGREASING FACILITY, ENGINE TESTING/REPAIR, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, OIL/WATER SEPARATORS, RAIL ROAD MAINTENANCE SHOP, VEHICLE MAINTENANCE, JUNKYARD, LANDFILL - CONSTRUCTION, UNKNOWN, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, RECYCLING - DRUM, UNKNOWN, DAY CARE FACILITY, JUNKYARD, OFFICE BUILDING, RESIDENTIAL AREA, UNKNOWN, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, MACHINE SHOP, MAINTENANCE / CLEANING, MANUFACTURING - OTHER, OFFICE BUILDING, OIL/WATER SEPARATORS, RETAIL - SERVICE STATION, UNKNOWN, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING, ILLEGAL DUMPING, LANDFILL - CONSTRUCTION, LANDFILL - HAZARDOUS WASTE, SHIPYARD - TERMINAL, UNKNOWN, DEGREASING FACILITY, ILLEGAL DUMPING, JUNKYARD, LDF, LANDFILL - CONSTRUCTION, RAIL ROAD MAINTENANCE SHOP, UNKNOWN
Potential COC:	* CONTAMINATED SOIL * HYDROCARBON SOLVENTS * UNSPECIFIED ORGANIC LIQUID MIXTURE Arsenic Chlordane Total Chromium (1:6 ratio Cr VI:Cr III DDD DDE DDT Endrin Lead Mercury (elemental Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs Tetrachloroethylene (PCE Toxaphene TPH-diesel TPH-gas TPH-MOTOR OIL 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride Arsenic Chlordane Total Chromium (1:6 ratio Cr VI:Cr III DDD DDE DDT Endrin Lead Mercury (elemental Toxaphene TPH-diesel TPH-gas TPH-MOTOR

OAKLAND ARMY BASE (Continued) **S105481917**

OIL Arsenic DDD DDE DDT Endrin Lead Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs Tetrachloroethylene (PCE TPH-diesel TPH-gas TPH-MOTOR OIL 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride Manganese and compounds Arsenic Polynuclear aromatic hydrocarbons (PAHs Tetrachloroethylene (PCE TPH-diesel TPH-gas TPH-MOTOR OIL 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride Arsenic Asbestos Containing Materials (ACM Benzene Chlordane Total Chromium (1:6 ratio Cr VI:Cr III DDD DDE DDT Dioxin (as 2,3,7,8-TCDD TEQ Endrin Lead Mercury (elemental Methyl tertbutyl ether (MTBE Naturally Occurring Asbestos (NOA Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs Silver Tetrachloroethylene (PCE Toxaphene TPH-diesel TPH-gas TPH-MOTOR OIL 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride Arsenic Asbestos Containing Materials (ACM Chlordane Total Chromium (1:6 ratio Cr VI:Cr III DDD DDE DDT Endrin Lead Mercury (elemental Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs Tetrachloroethylene (PCE Toxaphene TPH-diesel TPH-gas TPH-MOTOR OIL 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride Arsenic Asbestos Containing Materials (ACM Lead Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas TPH-MOTOR OIL Under Investigation Arsenic Chlordane DDD DDE DDT Endrin Lead Mercury (elemental Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs Under Investigation Arsenic Chlordane DDD DDE DDT Lead Polychlorinated biphenyls (PCBs Tetrachloroethylene (PCE TPH-diesel TPH-MOTOR OIL 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride Under Investigation Arsenic Asbestos Containing Materials (ACM Chlordane Total Chromium (1:6 ratio Cr VI:Cr III DDD DDE DDT Endrin Lead Mercury (elemental Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs Tetrachloroethylene (PCE Toxaphene TPH-diesel TPH-gas TPH-MOTOR OIL 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride Under Investigation Chlordane DDD DDE DDT Endrin Lead Toxaphene

Confirmed COC: Arsenic Lead Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas Asbestos Containing Materials (ACM TPH-MOTOR OIL Chlordane DDD DDE DDT Endrin Lead Toxaphene Under Investigation Arsenic Benzene Chlordane Total Chromium (1:6 ratio Cr VI:Cr III DDD DDE DDT Dioxin (as 2,3,7,8-TCDD TEQ Endrin Lead Mercury (elemental Methyl tertbutyl ether (MTBE Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs Silver Toxaphene TPH-diesel TPH-gas Trichloroethylene (TCE Vinyl chloride Asbestos Containing Materials (ACM Naturally Occurring Asbestos (NOA TPH-MOTOR OIL 1,1,1-Trichloroethane (TCA Tetrachloroethylene (PCE Arsenic Chlordane Total Chromium (1:6 ratio Cr VI:Cr III DDD DDE DDT Endrin Lead Mercury (elemental Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs Toxaphene TPH-diesel TPH-gas Trichloroethylene (TCE Vinyl chloride Under Investigation Asbestos Containing Materials (ACM TPH-MOTOR OIL 1,1,1-Trichloroethane (TCA Tetrachloroethylene (PCE Arsenic Chlordane Total Chromium (1:6 ratio Cr VI:Cr III DDD DDE DDT Endrin Lead Mercury (elemental Toxaphene TPH-diesel TPH-gas TPH-MOTOR OIL 30001-NO 30004-NO 30006-NO 30007-NO 30008-NO 30010-NO 30013-NO 30014-NO 30018-NO 30019-NO 31001-NO Arsenic Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas Trichloroethylene (TCE Vinyl chloride TPH-MOTOR OIL 1,1,1-Trichloroethane (TCA Tetrachloroethylene (PCE Arsenic Chlordane Total Chromium (1:6 ratio Cr VI:Cr III DDD DDE DDT Endrin Lead Mercury (elemental Polychlorinated biphenyls (PCBs Polynuclear

OAKLAND ARMY BASE (Continued) **S105481917**

aromatic hydrocarbons (PAHs Toxaphene TPH-diesel TPH-gas Trichloroethylene (TCE Vinyl chloride Asbestos Containing Materials (ACM TPH-MOTOR OIL 1,1,1-Trichloroethane (TCA Tetrachloroethylene (PCE Arsenic Chlordane Total Chromium (1:6 ratio Cr VI:Cr III DDD DDE DDT Endrin Lead Mercury (elemental Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs Toxaphene TPH-diesel TPH-gas Trichloroethylene (TCE Vinyl chloride TPH-MOTOR OIL 1,1,1-Trichloroethane (TCA Tetrachloroethylene (PCE 30001-NO 30006-NO 30007-NO 30008-NO 30010-NO 30013-NO 30353-NO 30018-NO 30019-NO 30022-NO 30024-NO 30025-NO 30026-NO 30027-NO 30028-NO 3002502-NO Arsenic Chlordane Tetrachloroethylene (PCE TPH-diesel 1,1,1-Trichloroethane (TCA TPH-MOTOR OIL Under Investigation Polychlorinated biphenyls (PCBs Trichloroethylene (TCE Vinyl chloride Lead DDD DDE DDT

Potential Description: OTH, SOIL, OTH, SED, SOIL, SURFW, OTH, SED, SOIL, OTH, SOIL, IA, OTH, SED, SOIL, SV, OTH, SOIL, SED, IA, OTH, SOIL, SV, OTH, SOIL, OTH, SOIL, OTH, SED, SOIL, SV, IA, SURFW, IA, OTH, SED, SOIL, SV, SURFW
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Calsite:
Region: BERKELEY
Facility ID: 01970006
Facility Type: CLOSE
Type: CLOSED MILITARY BASE
Branch: NO
Branch Name: OMF-NORTHERN CALIF
File Name: OAKLAND ARMY BASE
State Senate District: 01151988
Status: ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
NPL: Not Listed
SIC Code: 97
SIC Name: NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Access: Controlled
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Not reported

OAKLAND ARMY BASE (Continued) **S105481917**

Staff Member Responsible for Site: HWONG
Supervisor Responsible for Site: Not reported
Region Water Control Board: SF
Region Water Control Board Name: SAN FRANCISCO BAY
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: MEASURED FROM HQ BUILDING ON BASE
State Assembly District Code: 16
State Senate District Code: 09
Facility ID: 01970006
Activity: RAP
Activity Name: REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code: OU4
Proposed Budget: 0
AWP Completion Date: 02282006
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: RIFS
Activity Name: REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code: OBRA
Proposed Budget: 0
AWP Completion Date: 09262002
Revised Due Date: Not reported
Comments Date: 09262002
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0

OAKLAND ARMY BASE (Continued) **S105481917**

Unknown Type: 0
Facility ID: 01970006
Activity: RAP
Activity Name: REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code: OBRA
Proposed Budget: 0
AWP Completion Date: 09262002
Revised Due Date: Not reported
Comments Date: 09262002
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: RAW
Activity Name: REMOVAL ACTION WORKPLAN
AWP Code: OU2
Proposed Budget: 0
AWP Completion Date: 08152001
Revised Due Date: Not reported
Comments Date: 08152001
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: RIFS
Activity Name: REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code: OU4
Proposed Budget: 0
AWP Completion Date: 01302005
Revised Due Date: Not reported
Comments Date: Not reported

OAKLAND ARMY BASE (Continued) **S105481917**

Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: RMDL
Activity Name: REMEDIAL ACTION (RAP REQUIRED)
AWP Code: OU4
Proposed Budget: 0
AWP Completion Date: 12302007
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: DES
Activity Name: DESIGN
AWP Code: OU4
Proposed Budget: 0
AWP Completion Date: 06302006
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported

OAKLAND ARMY BASE (Continued) **S105481917**

Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: PEA
Activity Name: PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code: 807
Proposed Budget: 0
AWP Completion Date: 06251997
Revised Due Date: Not reported
Comments Date: 06251997
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: PEA
Activity Name: PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code: 648
Proposed Budget: 0
AWP Completion Date: 12311997
Revised Due Date: Not reported
Comments Date: 12311997
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: CERFA

OAKLAND ARMY BASE (Continued) **S105481917**

Activity Name: COMMUNITY ENVIRONMENTAL RESPONSE FACILITATION ACT
AWP Code: BASWD
Proposed Budget: 0
AWP Completion Date: 12201996
Revised Due Date: Not reported
Comments Date: 12201996
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: BWEBS
Activity Name: BASEWIDE ENVIRONMENTAL BASELINE SURVEY
AWP Code: OAB-F
Proposed Budget: 0
AWP Completion Date: 09301996
Revised Due Date: Not reported
Comments Date: 09301996
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: PEA
Activity Name: PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code: BASWD
Proposed Budget: 0
AWP Completion Date: 06051998
Revised Due Date: Not reported
Comments Date: 06051998
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported

OAKLAND ARMY BASE (Continued) **S105481917**

Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01970006
Activity:	SS
Activity Name:	SITE SCREENING
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	01151988
Revised Due Date:	Not reported
Comments Date:	01151988
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01970006
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	OBRA
Proposed Budget:	0
AWP Completion Date:	06302014
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported

OAKLAND ARMY BASE (Continued) **S105481917**

For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01970006
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	MOA
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	04152003
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01970006
Activity:	CEQA
Activity Name:	CEQA INCLUDING NEGATIVE DECS
AWP Code:	OBRA
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	08012002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01970006
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	OU4
Proposed Budget:	0

OAKLAND ARMY BASE (Continued) **S105481917**

AWP Completion Date:	12312007
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01970006
Activity:	CEQA
Activity Name:	CEQA INCLUDING NEGATIVE DECS
AWP Code:	OU2
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	08152001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01970006
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	OBRA
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09262002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0

OAKLAND ARMY BASE (Continued) **S105481917**

Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	2475-D WEST 12TH STREET
Alternate City,St,Zip:	OAKLAND, CA 94607
Alternate Address:	2475-D WEST 12TH STREET
Alternate City,St,Zip:	OAKLAND, CA 94626
Alternate Address:	422 ACRES; EASTERN SHORE OF SF BAY
Alternate City,St,Zip:	OAKLAND, CA 94626
Alternate Address:	OAKLAND ARMY BASE TRANSITION OFFICE
Alternate City,St,Zip:	Not reported
Background Info:	Oakland Army Base (OARB) is situated near the eastern terminus of the San Francisco-Oakland Bay Bridge. OARB occupies approx- ima tely 422 acres and is bounded by the Southern Pacific Trans- port ation Company railroad tracks on the east, the Port of Oakland Au thority (formerly the Fleet and Industrial Supply Center Oakland) on the south, the Bay Bridge on the north, and the Oaklnd Outer Harbor on the west. From December 8, 1941 to September 30, 1999, OARB carried out it's mission in support activites for the sea, rail and land transportation of military personnel and material f or the U.S. Army. These activities included operation and mainte nance of facilities and equipment, industrial processes, preparat ion of vehicles for overseas ship- ment, storage of fuels, manage ment of wastes, cleaning operations, support of seagoing vessels, railroad rolling stock and trackage, trucking, wharf, and wareho using operations. In December 1995, OARB was placed on the BRAC IV list and design- ated for closure. OARB is scheduled to be t ransferred to the City of Oakland in 2001. The Oakland Base Reus e Authority (OBRA) which is the Local Reuse Authority (LRA) for t he base developed a reuse plan in July 1998. Environmental inve stigation and cleanup of OARB is being perform- ed in accordance with the BRAC Cleanup Plan (July 1996) which was revised and upda ted in January 1999. The California Department of Toxic Substanc es Control (DTSC) is the lead agency for the environmental restor ation as described in the Defense State Memorandum of Understandi ng (DSMOA). OARB is not on the U. S. Environmental Protection Ag ency's National Priorities List (NPL). The 26 BRAC parcels were grouped into 7 Operable Units (OU), initially identified accordi ng to types of operation and geo- graphic location. OU1 included Parcels 4 through 7 and 9 through 15, OU2 consisted entirely of P arcel 8, OU3 included Parcels 16 through 26, OU4 included parcels 1 through 3 (shoreline, wharves, and submerged land), OU5 was re served for no further action parcels, OU6 was for parcels that ha d unexpected conditions, and OU7 was a small contaminated area at the east end of Building 807 in Parcel 12. The Regional Water Quality Control Board (RWQCB) is the lead regulatory agency for c losure of underground fuel storage tanks (USTs) at OARB. USTs th at contained used oils/fuels and oil/ water separators are not pa rt of the UST program and are address- ed under the operable unit cleanup program as described above. Based on Risk Based Correcti

OAKLAND ARMY BASE (Continued) **S105481917**

ve Action (RBCA) evaluation, 4 of the 14 UST fuel sites have been
included in a program for further investigation and/or remediati
on. *** OPERABLE UNIT/SITE DESCRIPTION *** OU1 Operable Unit
1 covers 167 acres area with warehouses, a rail yard, open stora
ge area, parking lots, padre grounds administrative areas, wash p
latforms, maintenance shops, a printing plant and a plating shop.
OU1 consists of 11 parcels. OU2 Operable Unit 2 includes railr
oad engine maintenance, fueling and repair facilities. This is a
6.3 acres area at the northeastern border of the OARB. OU3 Oper
able Unit 3 is a 49.4 acres area at the southwestern end of OARB.
The area consists primarily of housing, housing support office
space, vehicle service areas and motor pool maintenance areas. O
U3 consists of 11 parcels. OU4 Operable Unit 4 consists of 127 a
cres with three parcels located at the northwestern end of OARB.
OU4 facilities include waterfronts, piers and cargo storage area
s. OU5 Operable Unit 5 is for three no further action parcels to
taling 35 acres. The area consists of support services, guest- h
ouse, child center, playground, theater, warehouses and Maritime
Street. OU6 Operable Unit 6 is reserved for funding any work rel
ated to basewide issues. The Army has not been using this operab
le unit for remedial and investigation activities. OU7 Operable
Unit 7 is a 300-foot by 600-foot area located****

Comments Date: 01151988
Comments: SITE SCREENING DONE
Comments Date: 04152003
Comments: ORDER - MOA -- The Memorandum of Agreement (MOA) is between the A
Comments Date: 04152003
Comments: rmy, the Department of Toxic Substances Control, and the San Fran
Comments Date: 04152003
Comments: cisco Bay Regional Water Quality Control Board. The MOA specifie
Comments Date: 04152003
Comments: s the Army's responsibility to fund the cleanup activities, to in
Comments Date: 04152003
Comments: vestigate and remediate any Army-Retained Condition, and to conti
Comments Date: 04152003
Comments: nue the cleanup activities in the event Oakland defaults on its r
Comments Date: 04152003
Comments: esponsibilities under the Consent Agreement.
Comments Date: 06051998
Comments: PEA - BASWD -- Completion of the Basewide Preliminary Assessment
Comments Date: 06051998
Comments: /Site Inspection (PA/SI), also called Preliminary Endangerment As
Comments Date: 06051998
Comments: sessment (PEA) activity for Oakland Army Base. Twenty six (26) pa
Comments Date: 06051998
Comments: rcels were evaluated in the final PA/SI reports. Twenty (20) parc
Comments Date: 06051998
Comments: els are recommended for further action while six (6) parcels are
Comments Date: 06051998
Comments: recommended for no further action.
Comments Date: 06251997
Comments: PEA 807 -- Completed the Preliminary Assessment/Site Inspection f
Comments Date: 06251997
Comments: or Building 807.
Comments Date: 08012002
Comments: CEQA - BASWD -- The City of Oakland prepared the final Environmen
Comments Date: 08012002

OAKLAND ARMY BASE (Continued) **S105481917**

Comments: tal Impact Report (EIR) for the Oakland Army Base (OARB) Area Red
Comments Date: 08012002
Comments: evelopment Plan. The EIR includes environmental impact analysis
Comments Date: 08012002
Comments: for remedial alternatives proposed in the OARB’s Remedial Action
Comments Date: 08012002
Comments: Plan. DTSC was a responsible agency for the EIR decision.
Comments Date: 08152001
Comments: RAW - OU2 - Removal Action workplan for the removal of pesticide
Comments Date: 08152001
Comments: contaminated soil at a wetland soil in OU2. CEQA - OU2 - Negati
Comments Date: 08152001
Comments: ve Declaration for Removal Action workplan to remove pesticide co
Comments Date: 08152001
Comments: ntaminated soil at a wetland soil in OU2.
Comments Date: 09262002
Comments: RAP - OBRA (Oakland Base Reuse Authority) -- The City of Oakland
Comments Date: 09262002
Comments: prepared a Remedial Action Plan (RAP) and Risk Management Plan (R
Comments Date: 09262002
Comments: MP) that address 366 out of 425 acres of the base property. The
Comments Date: 09262002
Comments: remaining 59 acres of the base will be designated as a seperate
Comments Date: 09262002
Comments: site. RIFS - OBRA -- The elements of RIFS for OUs 1237 have bee
Comments Date: 09262002
Comments: n incorporated into the Remedial Action Plan (RAP) and Risk Manag
Comments Date: 09262002
Comments: ement Plan. The RAP addresses 366 out of 425 acres of the base p
Comments Date: 09262002
Comments: roperty. Upon approval of the RAP, the RIFS for OUs 1237 is also
Comments Date: 09262002
Comments: completed. ORDER - OBRA -- DTSC and the City of Oakland signed
Comments Date: 09262002
Comments: the Consent Agreement for 366 acres of the base property expecte
Comments Date: 09262002
Comments: d to be early transferred by June 2003.
Comments Date: 09301996
Comments: BWEBS OAB-F -- Completed the review of the Basewide Environmental
Comments Date: 09301996
Comments: Baseline Survey.
Comments Date: 12201996
Comments: CERFA BASWD -- Department of Toxic Substances Control made the de
Comments Date: 12201996
Comments: termination that no parcel at Oakland Army Base can be classified
Comments Date: 12201996
Comments: as uncontaminated property.
Comments Date: 12311997
Comments: PEA 648 -- Completed the Preliminary Assessment/Site Inspection f
Comments Date: 12311997
Comments: or Building 648.
ID Name: Not reported
ID Value: Not reported
Alternate Name: OAKLAND ARMY BASE
Alternate Name: Oakland Army Base
Alternate Name: Not reported
Special Programs Code: DSMOA

OAKLAND ARMY BASE (Continued) **S105481917**

Special Programs Name: DEFENSE MEMORANDUM OF AGREEMENT

CERS TANKS:
Site ID: 340823
CERS ID: 01970006
CERS Description: State Response

Affiliation:
Affiliation Type Desc: Lead Project Manager
Entity Name: HENRY WONG
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: BERKELEY
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Supervisor
Entity Name: JANET NAITO
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

W119 **OAKLAND ARMY BASE WAREHOUSE AREA** **SEMS** **1015730585**
NNW **TULAGI ST** **RCRA-SQG** **CA4210020661**
1/4-1/2 **OAKLAND, CA 94626**
0.331 mi.
1750 ft. **Site 2 of 2 in cluster W**

Relative:
Lower

Actual:
10 ft.

SEMS:
Site ID: 0902758
EPA ID: CA4210020661
Cong District: 08
FIPS Code: 06001
Latitude: 37.822222
Longitude: -122.304167
FF: Y
NPL: Not on the NPL
Non NPL Status: Other Cleanup Activity: Federal Facility-Lead Cleanup

SEMS Detail:
Region: 09
Site ID: 0902758
EPA ID: CA4210020661
Site Name: OAKLAND ARMY BASE WAREHOUSE AREA
NPL: N
FF: Y
OU: 00
Action Code: OO
Action Name: SITE REASS
SEQ: 1
Start Date: Not reported

OAKLAND ARMY BASE WAREHOUSE AREA (Continued) **1015730585**

Finish Date:	8/15/2006 4:00:00 AM
Qual:	L
Current Action Lead:	EPA Perf In-Hse
Region:	09
Site ID:	0902758
EPA ID:	CA4210020661
Site Name:	OAKLAND ARMY BASE WAREHOUSE AREA
NPL:	N
FF:	Y
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1980-08-01 04:00:00
Finish Date:	8/1/1980 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0902758
EPA ID:	CA4210020661
Site Name:	OAKLAND ARMY BASE WAREHOUSE AREA
NPL:	N
FF:	Y
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	Not reported
Finish Date:	6/1/1987 4:00:00 AM
Qual:	L
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902758
EPA ID:	CA4210020661
Site Name:	OAKLAND ARMY BASE WAREHOUSE AREA
NPL:	N
FF:	Y
OU:	00
Action Code:	VA
Action Name:	OTHR CLEANUP
SEQ:	1
Start Date:	2006-08-15 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902758
EPA ID:	CA4210020661
Site Name:	OAKLAND ARMY BASE WAREHOUSE AREA
NPL:	N
FF:	Y
OU:	05
Action Code:	NH

OAKLAND ARMY BASE WAREHOUSE AREA (Continued) **1015730585**

Action Name:	FF RI
SEQ:	3
Start Date:	2000-02-15 05:00:00
Finish Date:	9/27/2002 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902758
EPA ID:	CA4210020661
Site Name:	OAKLAND ARMY BASE WAREHOUSE AREA
NPL:	N
FF:	Y
OU:	01
Action Code:	NI
Action Name:	FF FS
SEQ:	1
Start Date:	1999-12-22 05:00:00
Finish Date:	9/27/2002 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902758
EPA ID:	CA4210020661
Site Name:	OAKLAND ARMY BASE WAREHOUSE AREA
NPL:	N
FF:	Y
OU:	02
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	2
Start Date:	2000-02-04 05:00:00
Finish Date:	5/23/2005 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902758
EPA ID:	CA4210020661
Site Name:	OAKLAND ARMY BASE WAREHOUSE AREA
NPL:	N
FF:	Y
OU:	07
Action Code:	NH
Action Name:	FF RI
SEQ:	5
Start Date:	2000-03-24 05:00:00
Finish Date:	9/27/2002 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902758
EPA ID:	CA4210020661
Site Name:	OAKLAND ARMY BASE WAREHOUSE AREA
NPL:	N

OAKLAND ARMY BASE WAREHOUSE AREA (Continued) **1015730585**

FF: Y
OU: 04
Action Code: LW
Action Name: FF RI/FS
SEQ: 1
Start Date: 2004-11-08 05:00:00
Finish Date: 3/20/2006 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902758
EPA ID: CA4210020661
Site Name: OAKLAND ARMY BASE WAREHOUSE AREA
NPL: N
FF: Y
OU: 03
Action Code: NH
Action Name: FF RI
SEQ: 2
Start Date: 2000-02-28 05:00:00
Finish Date: 9/27/2002 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902758
EPA ID: CA4210020661
Site Name: OAKLAND ARMY BASE WAREHOUSE AREA
NPL: N
FF: Y
OU: 01
Action Code: NH
Action Name: FF RI
SEQ: 1
Start Date: 1999-12-22 05:00:00
Finish Date: 9/27/2002 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902758
EPA ID: CA4210020661
Site Name: OAKLAND ARMY BASE WAREHOUSE AREA
NPL: N
FF: Y
OU: 08
Action Code: NI
Action Name: FF FS
SEQ: 2
Start Date: 2002-09-27 04:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: Fed Fac

OAKLAND ARMY BASE WAREHOUSE AREA (Continued) **1015730585**

RCRA-SQG:

Date form received by agency:	10/12/2000
Facility name:	USARMY OAKLAND ARMY BASE
Site name:	OAKLAND ARMY BASE
Facility address:	2475-D W. 12TH STREET OAKLAND, CA 94607-5780
EPA ID:	CA4210020661
Contact:	BRUCE HAYMAKER
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	510-466-2787
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Federal
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	09/01/1996
Site name:	USARMY OAKLAND ARMY BASE

OAKLAND ARMY BASE WAREHOUSE AREA (Continued) **1015730585**

Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: USARMY OAKLAND ARMY BASE
Classification: Small Quantity Generator

Date form received by agency: 06/22/1990
Site name: OAKLAND ARMY BASE
Classification: Large Quantity Generator

Date form received by agency: 08/18/1980
Site name: USARMY OAKLAND ARMY BASE
Classification: Large Quantity Generator

Violation Status: No violations found

X120 **ENE** **1/4-1/2** **0.345 mi.** **1824 ft.**	**WILLOW PARK** **1368 WILLOW STREET** **OAKLAND, CA 94608** **Site 1 of 2 in cluster X**	**CA ENVIROSTOR** **CA VCP** **CA HAZNET**	**S112941986** **N/A**

Relative:
Higher

Actual:
13 ft.

ENVIROSTOR:
Facility ID: 1990028
Status: No Further Action
Status Date: 06/08/2005
Site Code: 201578
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 1
NPL: NO
Regulatory Agencies: SMBRP, US EPA, CITY OF OAKLAND
Lead Agency: CITY OF OAKLAND
Program Manager: Lynn Nakashima
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.81237
Longitude: -122.2965
APN: 006-001100100, 6-11-1
Past Use: JUNKYARD
Potential COC: Arsenic Lead
Confirmed COC: Arsenic Lead
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

WILLOW PARK (Continued) **S112941986**

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

VCP:

Facility ID:	1990028
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, US EPA, CITY OF OAKLAND
Lead Agency:	CITY OF OAKLAND
Lead Agency Description:	OAKLAND, CITY OF
Project Manager:	Lynn Nakashima
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Site Code:	201578
Assembly:	18
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	No Further Action
Status Date:	06/08/2005
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.81237 / -122.2965
APN:	006-001100100, 6-11-1
Past Use:	JUNKYARD
Potential COC:	30001, 30013
Confirmed COC:	30001,30013
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

WILLOW PARK (Continued) **S112941986**

HAZNET:

Facility Name:	CITY OF OAKLAND (PUBLIC WORKS ENVIRON PROGRAM)
envid:	S112941986
Year:	2005
GEPAID:	CAC002584655
Contact:	DAVID FINACOM/MARK GOMEZ/ENVIR PRO
Telephone:	5102387314
Mailing Name:	Not reported
Mailing Address:	250 FRANK H OGAWA PLZ STE 5301
Mailing City,St,Zip:	OAKLAND, CA 94612
Gen County:	Not reported
TSD EPA ID:	CAT000646117
TSD County:	Not reported
Waste Category:	Other inorganic solid waste
Disposal Method:	Disposal, Land Fill
Tons:	15.17
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Alameda

envid:	S112941986
Year:	2004
GEPAID:	CAC002584655
Contact:	DAVID FINACOM/MARK GOMEZ/ENVIR PRO
Telephone:	5102387314
Mailing Name:	Not reported
Mailing Address:	250 FRANK H OGAWA PLZ STE 5301
Mailing City,St,Zip:	OAKLAND, CA 94612
Gen County:	Not reported
TSD EPA ID:	CAD980675276
TSD County:	Not reported
Waste Category:	Contaminated soil from site clean-up
Disposal Method:	Not reported
Tons:	318.57
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Alameda

envid:	S112941986
Year:	2004
GEPAID:	CAC002584655
Contact:	DAVID FINACOM/MARK GOMEZ/ENVIR PRO
Telephone:	5102387314
Mailing Name:	Not reported
Mailing Address:	250 FRANK H OGAWA PLZ STE 5301
Mailing City,St,Zip:	OAKLAND, CA 94612
Gen County:	Not reported
TSD EPA ID:	CAD980675276
TSD County:	Not reported
Waste Category:	Contaminated soil from site clean-up
Disposal Method:	Disposal, Land Fill
Tons:	515.79
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Alameda

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
X121	**WILLOW PARK**	**US BROWNFIELDS**	**1014949625**
ENE	**14TH AND WILLOW ST WEST**	**FINDS**	**N/A**
1/4-1/2	**WEST OAKLAND, CA 94607**		
0.354 mi.			
1867 ft.	**Site 2 of 2 in cluster X**		

Relative:
Higher

Actual:
13 ft.

US BROWNFIELDS:

Property Name:	WILLOW PARK
Recipient Name:	Oakland, City of
Grant Type:	BCRLF
Property Number:	Not reported
Parcel size:	.94
Latitude:	37.8126641
Longitude:	-122.296542
HCM Label:	Not reported
Map Scale:	Not reported
Point of Reference:	Not reported
Highlights:	Not reported
Datum:	Not reported
Acres Property ID:	16501
IC Data Access:	Not reported
Start Date:	11/01/2004 00:00:00
Redev Completition Date:	Not reported
Completed Date:	12/01/2004 00:00:00
Acres Cleaned Up:	.94
Cleanup Funding:	568000
Cleanup Funding Source:	State/Tribal Funding (non-section 128(a))
Assessment Funding:	Not reported
Assessment Funding Source:	Not reported
Redevelopment Funding:	Not reported
Redev. Funding Source:	Not reported
Redev. Funding Entity Name:	Not reported
Redevelopment Start Date:	Not reported
Assessment Funding Entity:	Not reported
Cleanup Funding Entity:	California Parks and Recreation Murray Hayden Prop 12 grant
Grant Type:	Hazardous
Accomplishment Type:	Not reported
Accomplishment Count:	0
Cooperative Agreement Number:	98968501
Start Date:	Not reported
Ownership Entity:	Government
Completion Date:	Not reported
Current Owner:	City of Oakland
Did Owner Change:	N
Cleanup Required:	Y
Video Available:	Not reported
Photo Available:	Not reported
Institutional Controls Required:	N
IC Category Proprietary Controls:	Not reported
IC Cat. Info. Devices:	Not reported
IC Cat. Gov. Controls:	Not reported
IC Cat. Enforcement Permit Tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported

WILLOW PARK (Continued) **1014949625**

Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Y
Lead cleaned up:	Y
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Y
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Surface Water:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
Nickel Cleaned Up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported

WILLOW PARK (Continued) **1014949625**

Chromium contaminant found: Not reported
Copper contaminant found: Not reported
Iron contaminant found: Not reported
Mercury contaminant found: Not reported
Nickel contaminant found: Not reported
No contaminant found: Not reported
Pesticides contaminant found: Not reported
Selenium contaminant found: Not reported
SVOCs contaminant found: Not reported
Unknown contaminant found: Not reported
Future Use: Multistory Not reported
Media affected Bluiding Material: Not reported
Media affected indoor air: Not reported
Building material media cleaned up: Not reported
Indoor air media cleaned up: Not reported
Unknown media cleaned up: Not reported
Past Use: Multistory Not reported
Property Description: park
Below Poverty Number: 2059
Below Poverty Percent: 36.2%
Meidan Income: 12241
Meidan Income Number: 3369
Meidan Income Percent: 59.2%
Vacant Housing Number: 494
Vacant Housing Percent: 19.0%
Unemployed Number: 413
Unemployed Percent: 7.3%

Property Name: WILLOW PARK
Recipient Name: Oakland, City of
Grant Type: BCRLF
Property Number: Not reported
Parcel size: .94
Latitude: 37.8126641
Longitude: -122.296542
HCM Label: Not reported
Map Scale: Not reported
Point of Reference: Not reported
Highlights: Not reported
Datum: Not reported
Acres Property ID: 16501
IC Data Access: Not reported
Start Date: 11/01/2004 00:00:00
Redev Completition Date: Not reported
Completed Date: 12/01/2004 00:00:00
Acres Cleaned Up: .94
Cleanup Funding: 200000
Cleanup Funding Source: Brownfields RLF Grant Funds Loaned
Assessment Funding: Not reported
Assessment Funding Source: Not reported
Redevelopment Funding: Not reported
Redev. Funding Source: Not reported
Redev. Funding Entity Name: Not reported
Redevelopment Start Date: Not reported
Assessment Funding Entity: Not reported
Cleanup Funding Entity: EPA
Grant Type: Hazardous

WILLOW PARK (Continued) **1014949625**

Accomplishment Type:	Not reported
Accomplishment Count:	0
Cooperative Agreement Number:	98968501
Start Date:	Not reported
Ownership Entity:	Government
Completion Date:	Not reported
Current Owner:	City of Oakland
Did Owner Change:	N
Cleanup Required:	Y
Video Available:	Not reported
Photo Available:	Not reported
Institutional Controls Required:	N
IC Category Proprietary Controls:	Not reported
IC Cat. Info. Devices:	Not reported
IC Cat. Gov. Controls:	Not reported
IC Cat. Enforcement Permit Tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Y
Lead cleaned up:	Y
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Y
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported

WILLOW PARK (Continued) **1014949625**

Surface Water:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
Nickel Cleaned Up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Property Description:	park
Below Poverty Number:	2059
Below Poverty Percent:	36.2%
Meidan Income:	12241
Meidan Income Number:	3369
Meidan Income Percent:	59.2%
Vacant Housing Number:	494
Vacant Housing Percent:	19.0%
Unemployed Number:	413
Unemployed Percent:	7.3%

Property Name:	WILLOW PARK
Recipient Name:	Oakland, City of
Grant Type:	BCRLF
Property Number:	Not reported
Parcel size:	.94
Latitude:	37.8126641

WILLOW PARK (Continued) **1014949625**

Longitude:	-122.296542
HCM Label:	Not reported
Map Scale:	Not reported
Point of Reference:	Not reported
Highlights:	Not reported
Datum:	Not reported
Acres Property ID:	16501
IC Data Access:	Not reported
Start Date:	11/01/2004 00:00:00
Redev Completition Date:	Not reported
Completed Date:	12/01/2004 00:00:00
Acres Cleaned Up:	.94
Cleanup Funding:	482800
Cleanup Funding Source:	Other Federal Funding
Assessment Funding:	Not reported
Assessment Funding Source:	Not reported
Redevelopment Funding:	Not reported
Redev. Funding Source:	Not reported
Redev. Funding Entity Name:	Not reported
Redevelopment Start Date:	Not reported
Assessment Funding Entity:	Not reported
Cleanup Funding Entity:	National Park Service Urban Parks and Recreation Program
Grant Type:	Hazardous
Accomplishment Type:	Not reported
Accomplishment Count:	0
Cooperative Agreement Number:	98968501
Start Date:	Not reported
Ownership Entity:	Government
Completion Date:	Not reported
Current Owner:	City of Oakland
Did Owner Change:	N
Cleanup Required:	Y
Video Available:	Not reported
Photo Available:	Not reported
Institutional Controls Required:	N
IC Category Proprietary Controls:	Not reported
IC Cat. Info. Devices:	Not reported
IC Cat. Gov. Controls:	Not reported
IC Cat. Enforcement Permit Tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Y
Lead cleaned up:	Y
No media affected:	Not reported

WILLOW PARK (Continued) **1014949625**

Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Y
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Surface Water:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
Nickel Cleaned Up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported

WILLOW PARK (Continued) **1014949625**

Media affected Bluiding Material: Not reported
Media affected indoor air: Not reported
Building material media cleaned up: Not reported
Indoor air media cleaned up: Not reported
Unknown media cleaned up: Not reported
Past Use: Multistory Not reported
Property Description: park
Below Poverty Number: 2059
Below Poverty Percent: 36.2%
Meidan Income: 12241
Meidan Income Number: 3369
Meidan Income Percent: 59.2%
Vacant Housing Number: 494
Vacant Housing Percent: 19.0%
Unemployed Number: 413
Unemployed Percent: 7.3%

FINDS:

Registry ID: 110061015360

Environmental Interest/Information System
US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES)
is an federal online database for Brownfields Grantees to
electronically submit data directly to EPA.

Click this hyperlink while viewing on your computer to access
additional FINDS: detail in the EDR Site Report.

Y122 **LOT AT 530-542 LEWIS STREET** **SEMS-ARCHIVE** **1001212408**
SE **530-542 LEWIS STREET** **CA0002059467**
1/4-1/2 **OAKLAND, CA 94607**
0.370 mi.
1954 ft. **Site 1 of 3 in cluster Y**

Relative:
Higher

Actual:
13 ft.

SEMS Archive:
Site ID: 0905369
EPA ID: CA0002059467
Cong District: Not reported
FIPS Code: 06001
FF: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information
Latitude: Not reported
Longitude: Not reported

SEMS Archive Detail:
Region: 09
Site ID: 0905369
EPA ID: CA0002059467
Site Name: LOT AT 530-542 LEWIS STREET
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1

LOT AT 530-542 LEWIS STREET (Continued) **1001212408**

Start Date:	Not reported
Finish Date:	2003-09-15 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse
Region:	09
Site ID:	0905369
EPA ID:	CA0002059467
Site Name:	LOT AT 530-542 LEWIS STREET
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	2002-04-17 04:00:00
Finish Date:	2003-02-04 05:00:00
Qual:	N
Current Action Lead:	St Perf
Region:	09
Site ID:	0905369
EPA ID:	CA0002059467
Site Name:	LOT AT 530-542 LEWIS STREET
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1997-09-25 04:00:00
Finish Date:	1997-09-25 04:00:00
Qual:	Not reported
Current Action Lead:	St Perf

Map ID / Direction / Distance / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
Y123	**528 LEWIS STREET**	**CA HIST Cal-Sites**	**S105749935**
SE	**528 LEWIS STREET**	**CA CERS**	**N/A**
1/4-1/2	**OAKLAND, CA 94607**		
0.373 mi.			
1971 ft.	**Site 2 of 3 in cluster Y**		

Relative:
Higher

Actual:
13 ft.

Calsite:

Region:	BERKELEY
Facility ID:	01880002
Facility Type:	STATE
Type:	STATE FUNDED SITE
Branch:	NC
Branch Name:	NORTH COAST
File Name:	Not reported
State Senate District:	06182004
Status:	CERTIFIED AS HAVING BEEN REMEDIED SATISFACTORILY UNDER DTSC OVERSIGHT
Status Name:	CERTIFIED
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
NPL:	Not Listed
SIC Code:	88
SIC Name:	PRIVATE HOUSEHOLDS
Access:	Not reported

528 LEWIS STREET (Continued) **S105749935**

Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Unknown
Staff Member Responsible for Site: KHILF
Supervisor Responsible for Site: Not reported
Region Water Control Board: SF
Region Water Control Board Name: SAN FRANCISCO BAY
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 16
State Senate District Code: 09
Facility ID: 01880002
Activity: PEA
Activity Name: PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code: PA/SI
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 06282002
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01880002
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: ISE
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 10282002
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported

528 LEWIS STREET (Continued) **S105749935**

Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01880002
Activity: RAW
Activity Name: REMOVAL ACTION WORKPLAN
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 10242003
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01880002
Activity: RA
Activity Name: REMOVAL ACTION
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 06182004
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 805
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: N
Activity Comments: 700 CUBIC YARDS OF CONTAMINATED SOIL AND 105 CUBIC YARDS OFSURFACE DEBRIS (RECYCLABLE METALS, GAS CYLINDERS, AND GARBAGE)
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01880002
Activity: CERT
Activity Name: CERTIFICATION

528 LEWIS STREET (Continued) **S105749935**

AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 06182004
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01880002
Activity: FDNC
Activity Name: FINAL DETERMINATION OF NON-COMPLIANCE
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 12102002
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01880002
Activity: CEQA
Activity Name: CEQA INCLUDING NEGATIVE DECS
AWP Code: NOE
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 10242003
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP

528 LEWIS STREET (Continued) **S105749935**

Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Alternate Address: 530/542 LEWIS STREET
Alternate City,St,Zip: OAKLAND, CA 94607
Alternate Address: 528 LEWIS STREET
Alternate City,St,Zip: OAKLAND, CA 94607
Background Info: The Lewis Street Site is a former residential property which has been used to store automobiles, drums, pressurized gas containers, and other miscellaneous equipment. The property is fenced. No volatile or semivolatile organic compounds were detected at significant levels.
Comments Date: 06091997
Comments: SITE SCREENING PREPARED UNDER THE EPA GRANT INDICATES THAT
Comments Date: 06091997
Comments: FURTHER ASSESSMENT OF THIS SITE IS NEEDED.
Comments Date: 06182004
Comments: The Removal Action consisted of removal of approximately 105
Comments Date: 06182004
Comments: cubic yards of above-ground debris including tires, compressed
Comments Date: 06182004
Comments: gas cylinders and heavy equipment and excavation and offsite
Comments Date: 06182004
Comments: disposal of 700 cubic yards of soil and debris contaminated with
Comments Date: 06182004
Comments: lead to a Class I landfill. The property was then backfilled
Comments Date: 06182004
Comments: with clean material. All contamination above residential
Comments Date: 06182004
Comments: standards was removed and the site was certified in June 2004.
Comments Date: 06282002
Comments: DTSC conducted a Preliminary Assessment which found further
Comments Date: 06282002
Comments: action was required. Surface samples collected at the site found
Comments Date: 06282002
Comments: lead as high as 1,080 parts per million (ppm).
Comments Date: 10242003
Comments: DTSC approved a Removal Action Workplan (RAW) requiring the
Comments Date: 10242003
Comments: removal of all soils above residential levels. A notice of
Comments Date: 10242003
Comments: exemption was approved for removal activities.
Comments Date: 10282002
Comments: An Imminent and Substantial Endangerment Order was issued to the
Comments Date: 10282002
Comments: property owner.
Comments Date: 11092001
Comments: DTSC conducted sampling at the site. Lead concentrations in

528 LEWIS STREET (Continued) **S105749935**

Comments Date:	11092001
Comments:	surface soil were as high as 1,080 milligrams per kilogram (ppm).
Comments Date:	11092001
Comments:	No volatile or semi-volatile compounds were found.
Comments Date:	12102002
Comments:	The owner was found in non-compliance with the Order in December
Comments Date:	12102002
Comments:	2002.
Comments Date:	12142003
Comments:	The Superior Court of California, County of Alameda issued an
Comments Date:	12142003
Comments:	inspection warrant which granted DTSC access to sample and
Comments Date:	12142003
Comments:	remediate the Lewis property. A warrant was needed since DTSC
Comments Date:	12142003
Comments:	could not locate the property owner. Subsequently, DTSC was
Comments Date:	12142003
Comments:	able to contact the property owner and work with them throughout
Comments Date:	12142003
Comments:	the cleanup.
ID Name:	CALSTARS CODE
ID Value:	201023
Alternate Name:	530/542 LEWIS STREET
Alternate Name:	528 LEWIS STREET
Alternate Name:	Not reported
Special Programs Code:	Not reported
Special Programs Name:	Not reported

CERS TANKS:

Site ID:	334091
CERS ID:	01880002
CERS Description:	State Response

Affiliation:

Affiliation Type Desc:	Supervisor
Entity Name:	Karen Toth
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Y124 **528 LEWIS STREET** **CA RESPONSE** **S112935742**
SE **528 LEWIS STREET** **CA ENVIROSTOR** **N/A**
1/4-1/2 **OAKLAND, CA 94607** **CA HAZNET**
0.373 mi.
1971 ft. **Site 3 of 3 in cluster Y**

Relative:
Higher

Actual:
13 ft.

RESPONSE:

Facility ID:	1880002
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	0.19
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP

528 LEWIS STREET (Continued) **S112935742**

Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	201023
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	18
Senate:	09
Special Program Status:	EPA - PASI
Status:	Certified
Status Date:	06/18/2004
Restricted Use:	NO
Funding:	Orphan Funds
Latitude:	37.80527
Longitude:	-122.2980
APN:	4-99-29
Past Use:	JUNKYARD
Potential COC :	Lead
Confirmed COC:	Lead
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Facility ID:	1880002
Status:	Certified
Status Date:	06/18/2004
Site Code:	201023
Site Type:	State Response
Site Type Detailed:	State Response or NPL
Acres:	0.19
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	EPA - PASI

528 LEWIS STREET (Continued) **S112935742**

Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Orphan Funds
Latitude:	37.80527
Longitude:	-122.2980
APN:	4-99-29
Past Use:	JUNKYARD
Potential COC:	Lead
Confirmed COC:	Lead
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

HAZNET:

Facility Name:	DTSC AT 528 LEWIS ST
envid:	S112935742
Year:	2004
GEPAID:	CAC002574674
Contact:	KATHERINE HILF
Telephone:	5105408317
Mailing Name:	Not reported
Mailing Address:	700 HEINZ ST
Mailing City,St,Zip:	BERKELEY, CA 94710
Gen County:	Not reported
TSD EPA ID:	CAT000646117
TSD County:	Not reported
Waste Category:	Contaminated soil from site clean-up
Disposal Method:	Disposal, Land Fill
Tons:	561.3
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Alameda

envid:	S112935742
Year:	2004
GEPAID:	CAC002574674
Contact:	KATHERINE HILF
Telephone:	5105408317
Mailing Name:	Not reported
Mailing Address:	700 HEINZ ST

528 LEWIS STREET (Continued) **S112935742**

Mailing City,St,Zip: BERKELEY, CA 94710
Gen County: Not reported
TSD EPA ID: IND000646943
TSD County: Not reported
Waste Category: Off-specification, aged or surplus inorganics
Disposal Method: Disposal, Other
Tons: 1
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Alameda

envid: S112935742
Year: 2004
GEPAID: CAC002574674
Contact: KATHERINE HILF
Telephone: 5105408317
Mailing Name: Not reported
Mailing Address: 700 HEINZ ST
Mailing City,St,Zip: BERKELEY, CA 94710
Gen County: Not reported
TSD EPA ID: NVD980895338
TSD County: Not reported
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Recycler
Tons: 0.16
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Alameda

envid: S112935742
Year: 2004
GEPAID: CAC002574674
Contact: KATHERINE HILF
Telephone: 5105408317
Mailing Name: Not reported
Mailing Address: 700 HEINZ ST
Mailing City,St,Zip: BERKELEY, CA 94710
Gen County: Not reported
TSD EPA ID: NVD980895338
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Tons: 0.41
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Alameda

envid: S112935742
Year: 2004
GEPAID: CAC002574674
Contact: KATHERINE HILF
Telephone: 5105408317
Mailing Name: Not reported
Mailing Address: 700 HEINZ ST
Mailing City,St,Zip: BERKELEY, CA 94710
Gen County: Not reported
TSD EPA ID: IND000646943

528 LEWIS STREET (Continued) **S112935742**

TSD County:	Not reported
Waste Category:	Off-specification, aged or surplus organics
Disposal Method:	Disposal, Other
Tons:	1.65
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Alameda

Click this hyperlink while viewing on your computer to access additional CA_HAZNET: detail in the EDR Site Report.

125
SSE
1/4-1/2
0.406 mi.
2145 ft.

CYPRESS FREEWAY RECONSTRUCTION
I-80/I-580/I-980
OAKLAND, CA 94607

CA CPS-SLIC **S106235212**
CA NON-CASE INFO **N/A**

Relative:
Lower

Actual:
11 ft.

SLIC REG 2:

Region:	2
Facility ID:	SL20239857
Facility Status:	Remedial action (cleanup) Underway
Date Closed:	Not reported
Local Case #:	Not reported
How Discovered:	DVA
Leak Cause:	Not reported
Leak Source:	Not reported
Date Confirmed:	Not reported
Date Prelim Site Assmnt Workplan Submitted:	Not reported
Date Preliminary Site Assessment Began:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

NON-CASE INFO:

Global ID:	SL20239857
Case Type:	Non-Case Information
Status:	Informational Item
Status Date:	06/02/2009
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker:	CSF
Local Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number:	SL20239857
Loc Case Number:	Not reported
File Location:	Not reported
Potential Contaminants of Concern:	Benzene, Ethylbenzene, Gasoline, Toluene, Xylene
Potential Media Affected:	Other Groundwater (uses other than drinking water), Soil
Site History:	Refer to DTSC Envirostor website for specific cases within the Cypress Reconstruction project.
Begin Date:	1996-01-01 00:00:00
How Discovered:	Not reported
How Discovered Description:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
Latitude:	37.8031382186487
Longitude:	-122.301177978516
Geotracker:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=SL20239857

Z126
NE
1/4-1/2
0.414 mi.
2187 ft.

UTILITY TRUCK BODIES
1530 WOOD
OAKLAND, CA 94607

Site 1 of 2 in cluster Z

CA LUST
CA Alameda County CS
CA HIST CORTESE
CA CERS

1001264713
N/A

Relative:
Lower

Actual:
12 ft.

LUST:

Lead Agency:	ALAMEDA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101698
Global Id:	T0600101698
Latitude:	37.814239
Longitude:	-122.296496
Status:	Completed - Case Closed
Status Date:	04/30/2002
Case Worker:	Not reported
RB Case Number:	01-1832
Local Agency:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	RO0000024
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0600101698
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0600101698
Action Type:	Other
Date:	02/14/1990
Action:	Leak Reported

Global Id:	T0600101698
Action Type:	RESPONSE
Date:	10/30/2001
Action:	Request for Closure

Global Id:	T0600101698
Action Type:	REMEDIATION
Date:	12/05/1989
Action:	Excavation

Global Id:	T0600101698
Action Type:	ENFORCEMENT
Date:	04/30/2002
Action:	Closure/No Further Action Letter - #20020430

Global Id:	T0600101698
Action Type:	Other
Date:	12/05/1989
Action:	Leak Began

UTILITY TRUCK BODIES (Continued) **1001264713**

Global Id:	T0600101698
Action Type:	Other
Date:	12/05/1989
Action:	Leak Discovery

LUST:

Global Id:	T0600101698
Status:	Completed - Case Closed
Status Date:	04/30/2002
Global Id:	T0600101698
Status:	Open - Case Begin Date
Status Date:	12/05/1989

LUST REG 2:

Region:	2
Facility Id:	01-1832
Facility Status:	Preliminary site assessment underway
Case Number:	3875
How Discovered:	Tank Closure
Leak Cause:	UNK
Leak Source:	Tank
Date Leak Confirmed:	7/21/1993
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	1/2/1965
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

Alameda County CS:

Status:	Case Closed
Record Id:	RO0000024
PE:	5602
Facility Status:	Case Closed
Latitude:	37.814097443
Longitude:	-122.29695679

HIST CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1832

CERS TANKS:

Site ID:	251445
CERS ID:	T0600101698
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported

UTILITY TRUCK BODIES (Continued) **1001264713**

Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

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127 **NNW** **1/4-1/2** **0.418 mi.** **2205 ft.**	**PORT OF OAKLAND - FORMER OAKLAND ARMY BASE** **MARITIME STREET AND 14TH STREET** **OAKLAND, CA 94607**	**CA RESPONSE** **CA ENVIROSTOR** **CA DEED**	**S108484718** **N/A**

Relative:
Lower

Actual:
9 ft.

RESPONSE:

Facility ID:	80001200
Site Type:	State Response
Site Type Detail:	Closed Base
Acres:	6.76
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Henry Wong
Supervisor:	Daniel Murphy
Division Branch:	Cleanup Berkeley
Site Code:	201742
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	18
Senate:	09
Special Program Status:	Voluntary Cleanup Program
Status:	Certified O&M - Land Use Restrictions Only
Status Date:	05/01/2009
Restricted Use:	YES
Funding:	Other Non-Military Funds
Latitude:	37.81427
Longitude:	-122.3066
APN:	NONE SPECIFIED
Past Use:	DEGREASING FACILITY, OFFICE BUILDING, UNKNOWN, TRANSPORTATION - WAREHOUSING
Potential COC :	Arsenic Lead Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas TPH-MOTOR OIL
Confirmed COC:	Arsenic Lead Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas TPH-MOTOR OIL
Potential Description:	OTH, SOIL
Alias Name:	201742
Alias Type:	Project Code (Site Code)
Alias Name:	71000002
Alias Type:	Envirostor ID Number
Alias Name:	80001200
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	07/23/2013
Comments:	DTSC, City of Oakland, and Port of Oakland inspected the site on 1/29/13. DTSC found site activities consistent with the land use

PORT OF OAKLAND - FORMER OAKLAND ARMY BASE (Continued) **S108484718**

covenant.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 04/24/2014
Comments: DTSC, City of Oakland, and Port of Oakland inspected the site on 3/5/14. DTSC found site activities consistent with the land use covenant.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 03/29/2010
Comments: The Port of Oakland submitted the 3/26/10 Annual Report pursuant to the "Covenant to Restrict Use of Property, Environmental Restriction" (LUC) for the Oakland United States Army Reserve Center #2, Parcel 18 and Subparcels 19 and 21, Former Oakland Army Base. DTSC conducted site inspection on 3/22/10; and the Port conducted site inspection on 3/22/10 and 3/26/10. The site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since the Port acquired the property on 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and hereby concurs with the 3/26/10 Annual Report.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 01/28/2009
Comments: The Port of Oakland submitted the 1/22/09 Annual Report pursuant to the Covenant to Restrict Use of Property, Environmental Restriction (LUC). Site inspection was conducted on 1/8/09 and the site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and concurred with the 1/22/09 Annual Report.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 12/07/2011
Comments: DTSC, City of Oakland, and Port of Oakland inspected the site on 3/23/11. DTSC found site activities consistent with the land use covenant.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 04/26/2012
Comments: DTSC, City of Oakland, and Port of Oakland inspected the site on 3/20/12. DTSC found site activities consistent with the land use covenant.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported

PORT OF OAKLAND - FORMER OAKLAND ARMY BASE (Continued) **S108484718**

Completed Document Type:	Monitoring Report
Completed Date:	01/28/2009
Comments:	The Port of Oakland submitted the 1/22/09 Annual Report pursuant to the Covenant to Restrict Use of Property, Environmental Restriction (LUC). Site inspection was conducted on 1/8/09 and the site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and concurred with the 1/22/09 Annual Report.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	03/29/2010
Comments:	The Port of Oakland submitted the 3/26/10 Annual Report pursuant to the "Covenant to Restrict Use of Property, Environmental Restriction" (LUC) for the Oakland United States Army Reserve Center #2, Parcel 18 and Subparcels 19 and 21, Former Oakland Army Base. DTSC conducted site inspection on 3/22/10; and the Port conducted site inspection on 3/22/10 and 3/26/10. The site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since the Port acquired the property on 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and hereby concurs with the 3/26/10 Annual Report.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	03/01/2011
Comments:	The Port of Oakland submitted the 1/6/11 Annual Report pursuant to the "Covenant to Restrict Use of Property, Environmental Restriction" (LUC) for the Oakland United States Army Reserve Center #2, Parcel 18 and Subparcels 19 and 21, Former Oakland Army Base. The Port conducted site inspection on 1/6/11 and confirmed that the site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since the Port acquired the property on 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and hereby concurs with the 1/6/11 Annual Report.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	07/24/2013
Comments:	DTSC reviewed the 1/11/13 Annual Report for the United States Army Reserve Center #2, Parcel 18 and Subparcels 19. DTSC has no comment.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Reports
Completed Date:	04/16/2012
Comments:	The Annual Report documents the followings: The Port of Oakland conducted site inspection on January 10, 2012 and confirmed that the site was in compliance with the Covenant, Sections 4.01(a) through

PORT OF OAKLAND - FORMER OAKLAND ARMY BASE (Continued) **S108484718**

4.01(d); The Port of Oakland reported that no dewatering activities or violations of the Covenant had occurred since the Port acquired the property on June 29, 2007; and The Port of Oakland certified and attested to full compliance with the terms and conditions of the Covenant. The Consent Agreement states that the Port of Oakland’s compliance with the Implementation and Enforcement Plan pursuant to the Covenant would satisfy the five-year review requirement. Since the Port of Oakland is complying with the Covenant and meeting the Consent Agreement provisions, the institutional control remedy is functioning as intended by the December 4, 2006 "Amendment to Final Remedial Action Plan Oakland Army Base, Oakland, California for Former Parcel 18 and Subparcels 19 and 21, Oakland United States Army Reserve Center #2." The institutional control remedy continues to protect human health and the environment at Parcel 18 and Subparcels 19 and 21.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/24/2014
Comments: The Port of Oakland reports that the institutional controls, as specified in the June 29, 2007 Covenant to Restrict Use of Property, Environmental Restriction for the subject areas, continue to protect human health and the environment.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/25/2016
Comments: The Port of Oakland reports that the institutional controls, as specified in the June 29, 2007 Covenant to Restrict Use of Property, Environmental Restriction for the subject areas, continue to protect human health and the environment.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 04/19/2017
Comments: The Annual Report documents the followings: The Port of Oakland conducted site inspection on March 15, 2017 and confirmed that the site was in compliance with the Land Use Covenant, Sections 4.01(a) through 4.01(d); The Port of Oakland reported that no dewatering activities or violations of the Land Use Covenant had occurred since the Port acquired the property on June 29, 2007; and The Port of Oakland certified and attested to full compliance with the terms and conditions of the Land Use Covenant. The Consent Agreement states that the Port of Oakland’s compliance with the Implementation and Enforcement Plan pursuant to the Land Use Covenant would satisfy the five-year review requirement. Since the Port of Oakland is complying with the Land Use Covenant and meeting the Consent Agreement provisions, the institutional control remedy is functioning as intended by the December 4, 2006 "Amendment to Final Remedial Action Plan Oakland Army Base, Oakland, California for Former Parcel 18 and Subparcels 19 and 21, Oakland United States Army Reserve Center #2." The institutional control remedy continues to protect human health and the environment at Parcel 18 and Subparcels 19 and 21.

PORT OF OAKLAND - FORMER OAKLAND ARMY BASE (Continued) **S108484718**

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/02/2015
Comments: The Port of Oakland reports that the institutional controls, as specified in the June 29, 2007 Covenant to Restrict Use of Property, Environmental Restriction for the subject areas, continue to protect human health and the environment.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 07/01/2016
Comments: The Port proposes to cover the Former Army Reserves Parcels (i.e., former Parcel 18 and Subparcels 19 and 21) with soil and recycled materials that are stockpiled on the Port Development Area of the Former Oakland Army Base Economic Development Conveyance Area (EDC Area) and have already been approved for reuse at the EDC Area.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/19/2017
Comments: The Port of Oakland reports that the institutional controls, as specified in the June 29, 2007 Covenant to Restrict Use of Property, Environmental Restriction for the subject areas, continue to protect human health and the environment.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/26/2018
Comments: The Port of Oakland reports that the institutional controls, as specified in the June 29, 2007 Covenant to Restrict Use of Property, Environmental Restriction for the subject areas, continue to protect human health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 06/29/2007
Comments: DTSC and the Army Reserve executed and recorded the Covenant to Restrict Use of Property, Environmental Restriction with the Alameda County Assessor’s Office on 6/29/07. The Covenant includes the following environmental restrictions and requirements: Sensitive land uses, including, but not limited to, residential housing, schools for persons under 18 years of age, day-care facilities for children, hospitals, and hospices are prohibited. Placement of Property soil outside of the Property boundary for any purpose is permitted only with the written approval of DTSC. The construction of groundwater wells and extraction of groundwater from new and/or existing wells for any purpose are permitted only with the written approval of DTSC. Construction dewatering activities are permitted subject to all applicable local and State requirements, including those of the California Regional Water Quality Control Board, for disposing of the liquid from dewatering activities.

PORT OF OAKLAND - FORMER OAKLAND ARMY BASE (Continued) **S108484718**

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	05/25/2016
Comments:	DTSC, City of Oakland, and Port of Oakland inspected the site on 3/22/16.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	04/19/2017
Comments:	DTSC, City of Oakland, and Port of Oakland inspected the site on 3/14/17.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	06/11/2015
Comments:	DTSC, City of Oakland, and Port of Oakland inspected the site on 2/27/15.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/02/2014
Comments:	The estimate includes DTSC oversight activity and Terradex costs.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	06/26/2018
Comments:	DTSC, City of Oakland, and Port of Oakland inspected the site on 5/1/18.

Future Area Name:	Basewide
Future Sub Area Name:	Not reported
Future Document Type:	5 Year Review Reports
Future Due Date:	2022
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Facility ID:	80001200
Status:	Certified O&M - Land Use Restrictions Only
Status Date:	05/01/2009
Site Code:	201742
Site Type:	State Response
Site Type Detailed:	Closed Base
Acres:	6.76
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Henry Wong
Supervisor:	Daniel Murphy

PORT OF OAKLAND - FORMER OAKLAND ARMY BASE (Continued) **S108484718**

Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Voluntary Cleanup Program
Restricted Use: YES
Site Mgmt Req: NONE SPECIFIED
Funding: Other Non-Military Funds
Latitude: 37.81427
Longitude: -122.3066
APN: NONE SPECIFIED
Past Use: DEGREASING FACILITY, OFFICE BUILDING, UNKNOWN, TRANSPORTATION - WAREHOUSING
Potential COC: Arsenic Lead Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas TPH-MOTOR OIL
Confirmed COC: Arsenic Lead Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas TPH-MOTOR OIL
Potential Description: OTH, SOIL
Alias Name: 201742
Alias Type: Project Code (Site Code)
Alias Name: 71000002
Alias Type: Envirostor ID Number
Alias Name: 80001200
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 07/23/2013
Comments: DTSC, City of Oakland, and Port of Oakland inspected the site on 1/29/13. DTSC found site activities consistent with the land use covenant.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 04/24/2014
Comments: DTSC, City of Oakland, and Port of Oakland inspected the site on 3/5/14. DTSC found site activities consistent with the land use covenant.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 03/29/2010
Comments: The Port of Oakland submitted the 3/26/10 Annual Report pursuant to the "Covenant to Restrict Use of Property, Environmental Restriction" (LUC) for the Oakland United States Army Reserve Center #2, Parcel 18 and Subparcels 19 and 21, Former Oakland Army Base. DTSC conducted site inspection on 3/22/10; and the Port conducted site inspection on 3/22/10 and 3/26/10. The site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since the Port acquired the property on 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and hereby concurs with the 3/26/10 Annual Report.

Completed Area Name: Basewide

PORT OF OAKLAND - FORMER OAKLAND ARMY BASE (Continued) **S108484718**

Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 01/28/2009
Comments: The Port of Oakland submitted the 1/22/09 Annual Report pursuant to the Covenant to Restrict Use of Property, Environmental Restriction (LUC). Site inspection was conducted on 1/8/09 and the site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and concurred with the 1/22/09 Annual Report.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 12/07/2011
Comments: DTSC, City of Oakland, and Port of Oakland inspected the site on 3/23/11. DTSC found site activities consistent with the land use covenant.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 04/26/2012
Comments: DTSC, City of Oakland, and Port of Oakland inspected the site on 3/20/12. DTSC found site activities consistent with the land use covenant.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/28/2009
Comments: The Port of Oakland submitted the 1/22/09 Annual Report pursuant to the Covenant to Restrict Use of Property, Environmental Restriction (LUC). Site inspection was conducted on 1/8/09 and the site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and concurred with the 1/22/09 Annual Report.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/29/2010
Comments: The Port of Oakland submitted the 3/26/10 Annual Report pursuant to the "Covenant to Restrict Use of Property, Environmental Restriction" (LUC) for the Oakland United States Army Reserve Center #2, Parcel 18 and Subparcels 19 and 21, Former Oakland Army Base. DTSC conducted site inspection on 3/22/10; and the Port conducted site inspection on 3/22/10 and 3/26/10. The site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since the Port acquired the property on 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and hereby concurs with the 3/26/10 Annual Report.

PORT OF OAKLAND - FORMER OAKLAND ARMY BASE (Continued) **S108484718**

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	03/01/2011
Comments:	The Port of Oakland submitted the 1/6/11 Annual Report pursuant to the "Covenant to Restrict Use of Property, Environmental Restriction" (LUC) for the Oakland United States Army Reserve Center #2, Parcel 18 and Subparcels 19 and 21, Former Oakland Army Base. The Port conducted site inspection on 1/6/11 and confirmed that the site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since the Port acquired the property on 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and hereby concurs with the 1/6/11 Annual Report.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	07/24/2013
Comments:	DTSC reviewed the 1/11/13 Annual Report for the United States Army Reserve Center #2, Parcel 18 and Subparcels 19. DTSC has no comment.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Reports
Completed Date:	04/16/2012
Comments:	The Annual Report documents the followings: The Port of Oakland conducted site inspection on January 10, 2012 and confirmed that the site was in compliance with the Covenant, Sections 4.01(a) through 4.01(d); The Port of Oakland reported that no dewatering activities or violations of the Covenant had occurred since the Port acquired the property on June 29, 2007; and The Port of Oakland certified and attested to full compliance with the terms and conditions of the Covenant. The Consent Agreement states that the Port of Oakland's compliance with the Implementation and Enforcement Plan pursuant to the Covenant would satisfy the five-year review requirement. Since the Port of Oakland is complying with the Covenant and meeting the Consent Agreement provisions, the institutional control remedy is functioning as intended by the December 4, 2006 "Amendment to Final Remedial Action Plan Oakland Army Base, Oakland, California for Former Parcel 18 and Subparcels 19 and 21, Oakland United States Army Reserve Center #2." The institutional control remedy continues to protect human health and the environment at Parcel 18 and Subparcels 19 and 21.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	04/24/2014
Comments:	The Port of Oakland reports that the institutional controls, as specified in the June 29, 2007 Covenant to Restrict Use of Property, Environmental Restriction for the subject areas, continue to protect human health and the environment.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported

PORT OF OAKLAND - FORMER OAKLAND ARMY BASE (Continued) **S108484718**

Completed Document Type:	Monitoring Report
Completed Date:	05/25/2016
Comments:	The Port of Oakland reports that the institutional controls, as specified in the June 29, 2007 Covenant to Restrict Use of Property, Environmental Restriction for the subject areas, continue to protect human health and the environment.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Reports
Completed Date:	04/19/2017
Comments:	The Annual Report documents the followings: The Port of Oakland conducted site inspection on March 15, 2017 and confirmed that the site was in compliance with the Land Use Covenant, Sections 4.01(a) through 4.01(d); The Port of Oakland reported that no dewatering activities or violations of the Land Use Covenant had occurred since the Port acquired the property on June 29, 2007; and The Port of Oakland certified and attested to full compliance with the terms and conditions of the Land Use Covenant. The Consent Agreement states that the Port of Oakland’s compliance with the Implementation and Enforcement Plan pursuant to the Land Use Covenant would satisfy the five-year review requirement. Since the Port of Oakland is complying with the Land Use Covenant and meeting the Consent Agreement provisions, the institutional control remedy is functioning as intended by the December 4, 2006 "Amendment to Final Remedial Action Plan Oakland Army Base, Oakland, California for Former Parcel 18 and Subparcels 19 and 21, Oakland United States Army Reserve Center #2." The institutional control remedy continues to protect human health and the environment at Parcel 18 and Subparcels 19 and 21.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	06/02/2015
Comments:	The Port of Oakland reports that the institutional controls, as specified in the June 29, 2007 Covenant to Restrict Use of Property, Environmental Restriction for the subject areas, continue to protect human health and the environment.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Soils Management Plan
Completed Date:	07/01/2016
Comments:	The Port proposes to cover the Former Army Reserves Parcels (i.e., former Parcel 18 and Subparcels 19 and 21) with soil and recycled materials that are stockpiled on the Port Development Area of the Former Oakland Army Base Economic Development Conveyance Area (EDC Area) and have already been approved for reuse at the EDC Area.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	04/19/2017
Comments:	The Port of Oakland reports that the institutional controls, as specified in the June 29, 2007 Covenant to Restrict Use of Property, Environmental Restriction for the subject areas, continue to protect human health and the environment.

PORT OF OAKLAND - FORMER OAKLAND ARMY BASE (Continued) **S108484718**

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	06/26/2018
Comments:	The Port of Oakland reports that the institutional controls, as specified in the June 29, 2007 Covenant to Restrict Use of Property, Environmental Restriction for the subject areas, continue to protect human health and the environment.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction
Completed Date:	06/29/2007
Comments:	DTSC and the Army Reserve executed and recorded the Covenant to Restrict Use of Property, Environmental Restriction with the Alameda County Assessor’s Office on 6/29/07. The Covenant includes the following environmental restrictions and requirements: Sensitive land uses, including, but not limited to, residential housing, schools for persons under 18 years of age, day-care facilities for children, hospitals, and hospices are prohibited. Placement of Property soil outside of the Property boundary for any purpose is permitted only with the written approval of DTSC. The construction of groundwater wells and extraction of groundwater from new and/or existing wells for any purpose are permitted only with the written approval of DTSC. Construction dewatering activities are permitted subject to all applicable local and State requirements, including those of the California Regional Water Quality Control Board, for disposing of the liquid from dewatering activities.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	05/25/2016
Comments:	DTSC, City of Oakland, and Port of Oakland inspected the site on 3/22/16.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	04/19/2017
Comments:	DTSC, City of Oakland, and Port of Oakland inspected the site on 3/14/17.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	06/11/2015
Comments:	DTSC, City of Oakland, and Port of Oakland inspected the site on 2/27/15.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/02/2014
Comments:	The estimate includes DTSC oversight activity and Terradex costs.

Completed Area Name:	PROJECT WIDE

PORT OF OAKLAND - FORMER OAKLAND ARMY BASE (Continued) **S108484718**

Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/26/2018
Comments: DTSC, City of Oakland, and Port of Oakland inspected the site on 5/1/18.

Future Area Name: Basewide
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2022
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

DEED:
Envirostor ID: 80001200
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: STATE RESPONSE
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 06/29/2007
File Name: Envirostor Land Use Restrictions

AA128 **YUSEN TERMINALS** **CA LUST** **S103472375**
NW **1195 MARITIME ST** **CA WDS** **N/A**
1/4-1/2 **OAKLAND, CA 94607**
0.418 mi.
2205 ft. **Site 1 of 3 in cluster AA**

Relative:
Lower

Actual:
9 ft.

LUST REG 2:
Region: 2
Facility Id: 01-0939
Facility Status: Case Closed
Case Number: 4013
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 8/22/1996
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

WDS:
Facility ID: San Francisco Bay 01I004999
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water

YUSEN TERMINALS (Continued) **S103472375**

pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 2
Facility Telephone: 5108912900
Facility Contact: MICHAEL OGIEGLO
Agency Name: CENTENNIAL SERVICES
Agency Address: 1195 Maritime St
Agency City,St,Zip: Oakland 946071027
Agency Contact: MICHAEL OGIEGLO
Agency Telephone: 5108912900
Agency Type: Private
SIC Code: 0
SIC Code 2: Not reported
Primary Waste Type: Not reported
Primary Waste: Not reported
Waste Type2: Not reported
Waste2: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

AA129 **STEVEDORING SVCS OF AMERI** **CA CHMIRS** **S100276783**
NW **1195 MARITIME** **CA HIST CORTESE** **N/A**
1/4-1/2 **OAKLAND, CA**
0.418 mi.
2205 ft. **Site 2 of 3 in cluster AA**

Relative:
Lower

Actual:
9 ft.

CHMIRS:
OES Incident Number: 100503
OES notification: Not reported
OES Date: Not reported
OES Time: Not reported
Date Completed: **04-JUN-91**
Property Use: 942
Agency Id Number: 1075
Agency Incident Number: 9115671
Time Notified: 2006
Time Completed: 2100
Surrounding Area: 942

STEVEDORING SVCS OF AMERI (Continued) **S100276783**

Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: N
Resp Agncy Personel # Of Decontaminated: 0
Responding Agency Personel # Of Injuries: 0
Responding Agency Personel # Of Fatalities: 0
Others Number Of Decontaminated: 0
Others Number Of Injuries: 0
Others Number Of Fatalities: 0
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: DAVID FLETCHER
Report Date: 04-JUN-91
Facility Telephone: 415 273-3856
Waterway Involved: Not reported
Waterway: Not reported
Spill Site: Not reported
Cleanup By: Not reported
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 88-92
Agency: Not reported
Incident Date: 04-JUN-91
Admin Agency: Not reported
Amount: Not reported
Contained: Not reported
Site Type: Not reported
E Date: 08-JUL-92
Substance: Not reported
Unknown: Not reported
Substance #2: Not reported
Substance #3: Not reported
Evacuations: Not reported
Number of Injuries: Not reported
Number of Fatalities: Not reported
#1 Pipeline: Not reported
#2 Pipeline: Not reported
#3 Pipeline: Not reported
#1 Vessel >= 300 Tons: Not reported
#2 Vessel >= 300 Tons: Not reported
#3 Vessel >= 300 Tons: Not reported
Evacs: Not reported
Injuries: Not reported
Fatals: Not reported
Comments: Y
Description: Not reported

HIST CORTESE:
Region: CORTESE

STEVEDORING SVCS OF AMERI (Continued) **S100276783**

Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0939

AA130
NW
1/4-1/2
0.418 mi.
2205 ft.

PORT OF OAKLAND YUSEN TERMINAL
1195 MARITIME ST
OAKLAND, CA 94607

Site 3 of 3 in cluster AA

CA LUST
CA Alameda County CS
CA Notify 65
CA CERS

S100226822
N/A

Relative:
Lower

Actual:
9 ft.

LUST:
Lead Agency: ALAMEDA COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100864
Global Id: T0600100864
Latitude: 37.8126882
Longitude: -122.3110461
Status: Completed - Case Closed
Status Date: 01/10/1997
Case Worker: Not reported
RB Case Number: 01-0939
Local Agency: Not reported
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: RO0000926
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0600100864
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600100864
Action Type: Other
Date: 12/21/1992
Action: Leak Reported

Global Id: T0600100864
Action Type: REMEDIATION
Date: 09/09/9999
Action: Excavation

LUST:
Global Id: T0600100864
Status: Completed - Case Closed
Status Date: 01/10/1997

Global Id: T0600100864
Status: Open - Case Begin Date
Status Date: 12/21/1992

PORT OF OAKLAND YUSEN TERMINAL (Continued) **S100226822**

Alameda County CS:

Status:	Case Closed
Record Id:	RO0000926
PE:	5602
Facility Status:	Case Closed
Latitude:	37.818319828
Longitude:	-122.3052825

NOTIFY 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Issue Date:	Not reported
Incident Description:	Not reported

CERS TANKS:

Site ID:	223267
CERS ID:	T0600100864
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

AB131	**BASF CORPORATION**	**CA LUST**	**1000226859**
NE	**1545 WILLOW ST**	**RCRA NonGen / NLR**	**CAD009122912**
1/4-1/2	**OAKLAND, CA 94607**	**FINDS**	
0.422 mi.		**ECHO**	
2227 ft.	**Site 1 of 2 in cluster AB**	**CA CERS**	

Relative:
Lower

Actual:
12 ft.

LUST REG 2:

Region:	2
Facility Id:	01-0152
Facility Status:	Case Closed
Case Number:	01-0152
How Discovered:	Tank Closure
Leak Cause:	Structure Failure
Leak Source:	Tank
Date Leak Confirmed:	Not reported
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

BASF CORPORATION (Continued) **1000226859**

RCRA NonGen / NLR:

Date form received by agency:	10/15/1999
Facility name:	BASF CORPORATION
Facility address:	1545 WILLOW ST OAKLAND, CA 94607
EPA ID:	CAD009122912
Mailing address:	P O BOX 23344 OAKLAND, CA 94607
Contact:	JENNIFER INFANTINO
Contact address:	3000 N CONTINENTAL DR MT OLIVE, NJ 17828-1234
Contact country:	US
Contact telephone:	973-426-2600
Contact email:	Not reported
EPA Region:	09
Land type:	Other land type
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	BASF CORPORATION
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No

BASF CORPORATION (Continued) **1000226859**

Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	09/01/1996
Site name:	BASF CORPORATION
Classification:	Small Quantity Generator
Violation Status:	No violations found

Evaluation Action Summary:

Evaluation date:	10/29/1992
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State Contractor/Grantee

Evaluation date:	02/25/1986
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State Contractor/Grantee

FINDS:

Registry ID: 110009528957

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000226859
Registry ID:	110009528957
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110009528957

CERS TANKS:

Site ID:	208519
CERS ID:	T0600100141
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

BASF CORPORATION (Continued) **1000226859**

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Site ID:	208519
CERS ID:	SLT19763584
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

AB132	**BASF CORPORATION**	**CA ENVIROSTOR**	**S101629611**
NE	**1545 WILLOW ST**	**CA LUST**	**N/A**
1/4-1/2	**OAKLAND, CA 94607**	**CA Alameda County CS**	
0.422 mi.		**CA HIST UST**	
2227 ft.	**Site 2 of 2 in cluster AB**	**CA HIST CORTESE**	

Relative:
Lower

Actual:
12 ft.

ENVIROSTOR:

Facility ID:	60000360
Status:	Refer: RWQCB
Status Date:	03/27/2007
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	1
NPL:	NO
Regulatory Agencies:	RWQCB 2 - San Francisco Bay, ALAMEDA COUNTY
Lead Agency:	RWQCB 2 - San Francisco Bay
Program Manager:	Not reported
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	37.81381
Longitude:	-122.2960
APN:	7-556-2
Past Use:	MANUFACTURING - OTHER
Potential COC:	TPH-diesel TPH-gas Vinyl chloride 1,2-Dichloroethylene (cis

BASF CORPORATION (Continued) **S101629611**

1,2-Dichloroethylene (trans
Confirmed COC: TPH-diesel TPH-gas Vinyl chloride 1,2-Dichloroethylene (cis
1,2-Dichloroethylene (trans
Potential Description: OTH, SOIL
Alias Name: 7-556-2
Alias Type: APN
Alias Name: SLT19763584
Alias Type: GeoTracker Global ID
Alias Name: T0600100141
Alias Type: GeoTracker Global ID
Alias Name: 60000360
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 03/27/2007
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LUST:
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100141
Global Id: T0600100141
Latitude: 37.81382
Longitude: -122.296089
Status: Completed - Case Closed
Status Date: 11/04/1994
Case Worker: UUU
RB Case Number: 01-0152
Local Agency: Not reported
File Location: Not reported
Local Case Number: 01-0152
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: * Solvents
Site History: Not reported

LUST:
Global Id: T0600100141
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

BASF CORPORATION (Continued) **S101629611**

LUST:
Global Id: T0600100141
Action Type: Other
Date: 03/22/1990
Action: Leak Reported

Global Id: T0600100141
Action Type: ENFORCEMENT
Date: 11/04/1994
Action: Closure/No Further Action Letter

Global Id: T0600100141
Action Type: Other
Date: 03/22/1990
Action: Leak Discovery

Global Id: T0600100141
Action Type: Other
Date: 03/22/1990
Action: Leak Stopped

LUST:
Global Id: T0600100141
Status: Completed - Case Closed
Status Date: 11/04/1994

Global Id: T0600100141
Status: Open - Case Begin Date
Status Date: 03/22/1990

Lead Agency: ALAMEDA COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=SLT19763584
Global Id: SLT19763584
Latitude: 37.813624
Longitude: -122.295792
Status: Completed - Case Closed
Status Date: 11/04/1994
Case Worker: Not reported
RB Case Number: NA
Local Agency: Not reported
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: RO0002956
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: * Solvents
Site History: Not reported

LUST:
Global Id: SLT19763584
Action Type: Other
Date: 03/22/1990
Action: Leak Reported

Global Id: SLT19763584
Action Type: Other
Date: 03/22/1990

BASF CORPORATION (Continued) **S101629611**

Action: Leak Discovery

LUST:
Global Id: SLT19763584
Status: Completed - Case Closed
Status Date: 11/04/1994

Global Id: SLT19763584
Status: Open - Case Begin Date
Status Date: 03/22/1990

Alameda County CS:
Status: Case Closed
Record Id: RO0002956
PE: 5602
Facility Status: Case Closed
Latitude: Not reported
Longitude: Not reported

HIST UST:
File Number: 0003604A
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0003604A.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

HIST CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0152

AC133 **SSE** **1/4-1/2** **0.428 mi.** **2259 ft.**	**SMITH'S WRECKING YARD** **1600 3RD STREET** **OAKLAND, CA 94607**	**CA ENVIROSTOR** **CA VCP** **CA HAZNET**	**S112921473** **N/A**

Site 1 of 2 in cluster AC

Relative:
Lower

Actual:
12 ft.

ENVIROSTOR:
Facility ID: 1990014
Status: Certified
Status Date: 05/25/2001
Site Code: 200355
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 0.3
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Lynn Nakashima
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.80333
Longitude: -122.2991
APN: NONE SPECIFIED
Past Use: JUNKYARD
Potential COC: Arsenic Lead Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs TPH-diesel Beryllium and compounds
Confirmed COC: Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs TPH-diesel Beryllium and compounds Arsenic Lead
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Facility ID: 1990014
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup

SMITH'S WRECKING YARD (Continued) **S112921473**

Site Mgmt. Req.: NONE SPECIFIED
Acres: 0.3
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Lynn Nakashima
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Site Code: 200355
Assembly: 18
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified
Status Date: 05/25/2001
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.80333 / -122.2991
APN: NONE SPECIFIED
Past Use: JUNKYARD
Potential COC: 30001, 30013, 30018, 30019, 30024, 30080
Confirmed COC: 30018,30019,30024,30080,30001,30013
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HAZNET:
Facility Name: ZUEDELAC APARTMENTS
envid: S112921473
Year: 2003
GEPAID: CAC002550979
Contact: Richard Phillips
Telephone: 5103936420
Mailing Name: Not reported
Mailing Address: 1600 3rd Ave
Mailing City,St,Zip: OAKLAND, CA 94606
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Off-specification, aged or surplus organics

SMITH'S WRECKING YARD (Continued) **S112921473**

Disposal Method: Recycler
Tons: 0.22
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Alameda

envid: S112921473
Year: 2002
GEPAID: CAC002550979
Contact: Richard Phillips
Telephone: 5103936420
Mailing Name: Not reported
Mailing Address: 1600 3rd Ave
Mailing City,St,Zip: OAKLAND, CA 94606
Gen County: Not reported
TSD EPA ID: CAD981382732
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: 3.37
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Alameda

Z134
NE
1/4-1/2
0.433 mi.
2288 ft.

CENTRAL STATION VILLAGE
1401-1599 WOOD STREET
OAKLAND, CA 94607

Site 2 of 2 in cluster Z

CA CPS-SLIC **S109117943**
CA CERS **N/A**

Relative:
Lower

Actual:
12 ft.

CPS-SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 12/28/2009
Global Id: SL0600180308
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.8141312518765
Longitude: -122.297921718028
Case Type: Cleanup Program Site
Case Worker: MEJ
Local Agency: Not reported
RB Case Number: 01S0556
File Location: Regional Board
Potential Media Affected: Soil
Potential Contaminants of Concern: Lead, Other Petroleum, * Pesticide/Herbicides, * SEMIVOLATILE ORGANICS
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

CERS TANKS:
Site ID: 248154
CERS ID: SL0600180308
CERS Description: Cleanup Program Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: MARK JOHNSON - SAN FRANCISCO BAY RWQCB (REGION 2)

CENTRAL STATION VILLAGE (Continued) **S109117943**

Entity Title: Not reported
Affiliation Address: 1515 CLAY STREET, SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

135
SE
1/4-1/2
0.434 mi.
2290 ft.

RELIABLE HANDI CAB
1520 7TH
OAKLAND, CA 94607

CA LUST
CA Alameda County CS
CA HIST CORTESE
CA CERS

U003713129
N/A

Relative:
Higher

Actual:
15 ft.

LUST:
Lead Agency: ALAMEDA COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101133
Global Id: T0600101133
Latitude: 37.80587
Longitude: -122.296286
Status: Completed - Case Closed
Status Date: 06/14/1995
Case Worker: Not reported
RB Case Number: 01-1234
Local Agency: Not reported
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: RO0001137
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0600101133
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600101133
Action Type: Other
Date: 04/01/1991
Action: Leak Reported

Global Id: T0600101133
Action Type: REMEDIATION
Date: 09/09/9999
Action: Excavation

LUST:
Global Id: T0600101133
Status: Completed - Case Closed

RELIABLE HANDI CAB (Continued) **U003713129**

Status Date: 06/14/1995

Global Id: T0600101133
Status: Open - Case Begin Date
Status Date: 04/01/1991

LUST REG 2:
Region: 2
Facility Id: 01-1234
Facility Status: Case Closed
Case Number: 3703
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 3/5/1992
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Case Closed
Record Id: RO0001137
PE: 5602
Facility Status: Case Closed
Latitude: 37.805793296
Longitude: -122.29640194

HIST CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1234

CERS TANKS:
Site ID: 194580
CERS ID: T0600101133
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

136 **PORT OF OAKLAND** **CA LUST** **S100178945**
West **801 MARITIME STREET** **CA Alameda County CS** **N/A**
1/4-1/2 **OAKLAND, CA 94607** **CA HIST CORTESE**
0.441 mi. **CA Notify 65**
2328 ft. **CA CERS**

Relative:
Lower

Actual:
8 ft.

LUST:

Lead Agency:	ALAMEDA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101102
Global Id:	T0600101102
Latitude:	37.810178
Longitude:	-122.313262
Status:	Completed - Case Closed
Status Date:	11/17/2010
Case Worker:	PK
RB Case Number:	01-1199
Local Agency:	ALAMEDA COUNTY LOP
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	RO0000019
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel
Site History:	Three USTs and approximately 120 linear feet of piping were removed from the site on February 16, 1989. The tank pit was over-excavated with approximately 1,500 cubic yards of soil treated onsite removed from the excavation. One groundwater monitoring well was installed at the site in July 1996. Additional site investigations were in conducted in 2007 and 2008.

LUST:

Global Id:	T0600101102
Contact Type:	Local Agency Caseworker
Contact Name:	PARESH KHATRI
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	paresh.khatri@acgov.org
Phone Number:	5107772478
Global Id:	T0600101102
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0600101102
Action Type:	Other
Date:	02/17/1989
Action:	Leak Reported
Global Id:	T0600101102
Action Type:	ENFORCEMENT
Date:	07/28/2008
Action:	Technical Correspondence / Assistance / Other - #07/28/2008

PORT OF OAKLAND (Continued) **S100178945**

Global Id: T0600101102
Action Type: ENFORCEMENT
Date: 07/24/2009
Action: Staff Letter - #20090724

Global Id: T0600101102
Action Type: ENFORCEMENT
Date: 07/22/2010
Action: Staff Letter - #20100722

Global Id: T0600101102
Action Type: ENFORCEMENT
Date: 11/17/2010
Action: Closure/No Further Action Letter

Global Id: T0600101102
Action Type: REMEDIATION
Date: 02/16/1989
Action: Excavation

Global Id: T0600101102
Action Type: RESPONSE
Date: 08/23/2010
Action: Fact Sheets - Public Participation

Global Id: T0600101102
Action Type: RESPONSE
Date: 10/25/2010
Action: Well Destruction Report

Global Id: T0600101102
Action Type: Other
Date: 02/16/1989
Action: Leak Discovery

Global Id: T0600101102
Action Type: Other
Date: 02/16/1989
Action: Leak Stopped

LUST:
Global Id: T0600101102
Status: Completed - Case Closed
Status Date: 11/17/2010

Global Id: T0600101102
Status: Open - Case Begin Date
Status Date: 02/16/1989

Global Id: T0600101102
Status: Open - Site Assessment
Status Date: 02/16/1989

Global Id: T0600101102
Status: Open - Site Assessment
Status Date: 05/03/1994

PORT OF OAKLAND (Continued) **S100178945**

Global Id: T0600101102
Status: Open - Site Assessment
Status Date: 07/15/1996

LUST REG 2:
Region: 2
Facility Id: 01-1199
Facility Status: Post remedial action monitoring
Case Number: 3780
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: 4/21/1989
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: 3/20/1992

Alameda County CS:
Status: Leak Confirmation
Record Id: RO0000019
PE: 5602
Facility Status: Leak Confirmation
Latitude: 37.811961322
Longitude: -122.31199028

Status: Preliminary Site Assessment Workplan Submitted
Record Id: RO0000019
PE: 5602
Facility Status: Preliminary Site Assessment Workplan Submitted
Latitude: 37.811961322
Longitude: -122.31199028

Status: Case Closed
Record Id: RO0000019
PE: 5602
Facility Status: Case Closed
Latitude: 37.811961322
Longitude: -122.31199028

HIST CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1199

NOTIFY 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported

PORT OF OAKLAND (Continued) **S100178945**

Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported

CERS TANKS:
Site ID: 238121
CERS ID: T0600101102
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Local Agency Caseworker
Entity Name: PARESH KHATRI - ALAMEDA COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1131 HARBOR BAY PARKWAY
Affiliation City: ALAMEDA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 5107772478

AD137
WSW
1/4-1/2
0.442 mi.
2336 ft.

Relative:
Lower

Actual:
9 ft.

PORT OF OAKLAND
2277 7TH ST
OAKLAND, CA 94607

Site 1 of 3 in cluster AD

CA LUST
CA Alameda County CS
CA SWEEPS UST
CA FID UST
CA CHMIRS
CA NPDES
CA CIWQS

S101580399
N/A

LUST:
Lead Agency: ALAMEDA COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101866
Global Id: T0600101866
Latitude: 37.8078174204523
Longitude: -122.314846515656
Status: Open - Verification Monitoring
Status Date: 06/07/2011
Case Worker: KEN
RB Case Number: 01-2020
Local Agency: ALAMEDA COUNTY LOP
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: RO0000010
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Arsenic, Lead, Zinc, Gasoline
Site History: Not all historic documents for the fuel leak case may be available on GeoTracker. A more complete historic case file for this site is located on the Alameda County Environmental Health website at

PORT OF OAKLAND (Continued) **S101580399**

https://ehgis.acgov.org/dehpublic/dehpublic.jsp. A geophysical survey conducted at the site on February 8, 1993 identified the presence of underground storage tanks (USTs). Four USTs were removed on September 22, 1993 by PTS Environmental. In 1994 and 1995, several borings and monitoring wells were installed at the site. Significantly elevated concentrations of petroleum hydrocarbons were detected in soil and over six feet of free product were detected in groundwater monitoring well MW-3. Active skimmers commenced operation in November 15, 1996 and ceased in May 2011. MW-8, was never sampled as it contained separate phase petroleum product. MW-8 was decommissioned due to railroad construction and was replaced by MW-8A on the general vicinity of the MW-8 well location. No separate phase petroleum product has been reported in the replacement well. Two additional wells (MW-6 and MW-7) were decommissioned as a result of Port improvements. Post development replacement wells were installed and free product removal restarted. ORC added to MW-4 in 2006 and a low vacuum systerm added in 2007 to recovery wells for enhanced recovery. Free product removal ceased on 6/07/2011. Since shutdown, separate phase petroleum product thickness has increased in six wells by up to 7.66 feet, Well screens for some wells always submerged and occasionally true for several other MWs. FP plume stability in question when FP may be above the well screen. Well MW-8 formerly located along the northern property boundary contained 1-foot separate phase petroleum product suggesting the plume is off site O2 measurements are >4% outside of plume area. . Metals include 880 mg/kg As, 680 mg/kg Pb and 600 mg/kg Zn; however, site s capped.

LUST:

Global Id:	T0600101866
Contact Type:	Local Agency Caseworker
Contact Name:	KEITH NOWELL
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 Harbor Bay Parkway
City:	ALAMEDA
Email:	keith.nowell@acgov.org
Phone Number:	5105676764

Global Id:	T0600101866
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0600101866
Action Type:	ENFORCEMENT
Date:	06/20/2016
Action:	Staff Letter - #20160620

Global Id:	T0600101866
Action Type:	ENFORCEMENT
Date:	07/21/2016
Action:	Email Correspondence - #20160721

PORT OF OAKLAND (Continued) **S101580399**

Global Id: T0600101866
Action Type: Other
Date: 09/23/1993
Action: Leak Reported

Global Id: T0600101866
Action Type: RESPONSE
Date: 02/28/2013
Action: Monitoring Report - Semi-Annually - Regulator Responded

Global Id: T0600101866
Action Type: RESPONSE
Date: 11/24/2014
Action: Site Investigation Workplan - Regulator Responded

Global Id: T0600101866
Action Type: RESPONSE
Date: 11/24/2014
Action: Site Investigation Workplan - Regulator Responded

Global Id: T0600101866
Action Type: RESPONSE
Date: 11/24/2014
Action: Site Investigation Workplan - Regulator Responded

Global Id: T0600101866
Action Type: RESPONSE
Date: 11/24/2014
Action: Site Investigation Workplan - Regulator Responded

Global Id: T0600101866
Action Type: RESPONSE
Date: 10/16/2014
Action: Clean Up Fund - 5-Year Review Summary - Regulator Responded

Global Id: T0600101866
Action Type: RESPONSE
Date: 01/31/2014
Action: Request for Closure - Regulator Responded

Global Id: T0600101866
Action Type: RESPONSE
Date: 11/24/2014
Action: Site Investigation Workplan - Regulator Responded

Global Id: T0600101866
Action Type: RESPONSE
Date: 06/10/2014
Action: Other Workplan - Regulator Responded

Global Id: T0600101866
Action Type: RESPONSE
Date: 07/18/2014
Action: Other Workplan - Regulator Responded

Global Id: T0600101866
Action Type: RESPONSE

PORT OF OAKLAND (Continued) **S101580399**

Date: 11/24/2014
Action: Remedial Investigation Workplan - Regulator Responded

Global Id: T0600101866
Action Type: RESPONSE
Date: 10/07/2013
Action: Request for Closure - Regulator Responded

Global Id: T0600101866
Action Type: RESPONSE
Date: 11/24/2014
Action: Well Installation Workplan - Regulator Responded

Global Id: T0600101866
Action Type: RESPONSE
Date: 11/24/2014
Action: Well Destruction Workplan - Regulator Responded

Global Id: T0600101866
Action Type: RESPONSE
Date: 11/24/2014
Action: Site Investigation Workplan - Regulator Responded

Global Id: T0600101866
Action Type: RESPONSE
Date: 07/16/2014
Action: Other Workplan - Regulator Responded

Global Id: T0600101866
Action Type: RESPONSE
Date: 11/24/2014
Action: Site Investigation Workplan - Regulator Responded

Global Id: T0600101866
Action Type: RESPONSE
Date: 03/11/2015
Action: Correspondence - Regulator Responded

Global Id: T0600101866
Action Type: RESPONSE
Date: 11/24/2014
Action: Site Investigation Workplan - Regulator Responded

Global Id: T0600101866
Action Type: ENFORCEMENT
Date: 09/28/2016
Action: Verbal Communication - #20160928

Global Id: T0600101866
Action Type: RESPONSE
Date: 07/17/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0600101866
Action Type: ENFORCEMENT
Date: 07/24/2009
Action: Staff Letter - #20090724

PORT OF OAKLAND (Continued) **S101580399**

Global Id:	T0600101866
Action Type:	RESPONSE
Date:	12/16/2013
Action:	Correspondence
Global Id:	T0600101866
Action Type:	RESPONSE
Date:	01/24/2014
Action:	Other Report / Document
Global Id:	T0600101866
Action Type:	RESPONSE
Date:	11/10/2014
Action:	Conceptual Site Model
Global Id:	T0600101866
Action Type:	RESPONSE
Date:	11/10/2014
Action:	Conceptual Site Model
Global Id:	T0600101866
Action Type:	ENFORCEMENT
Date:	09/02/2010
Action:	Staff Letter - #20100910
Global Id:	T0600101866
Action Type:	ENFORCEMENT
Date:	06/23/2011
Action:	Notice to Comply - #20110623
Global Id:	T0600101866
Action Type:	ENFORCEMENT
Date:	06/09/2011
Action:	Staff Letter - #20110609
Global Id:	T0600101866
Action Type:	ENFORCEMENT
Date:	06/06/2012
Action:	File review
Global Id:	T0600101866
Action Type:	ENFORCEMENT
Date:	10/16/2018
Action:	Email Correspondence - #20181016
Global Id:	T0600101866
Action Type:	RESPONSE
Date:	08/26/2014
Action:	Clean Up Fund - 5-Year Review Summary
Global Id:	T0600101866
Action Type:	RESPONSE
Date:	10/29/2014
Action:	Email Correspondence
Global Id:	T0600101866
Action Type:	REMEDIATION

PORT OF OAKLAND (Continued) **S101580399**

Date:	09/23/1993
Action:	Excavation
Global Id:	T0600101866
Action Type:	ENFORCEMENT
Date:	12/19/2013
Action:	Staff Letter - #20131219
Global Id:	T0600101866
Action Type:	ENFORCEMENT
Date:	12/04/2013
Action:	Staff Letter - #20131204
Global Id:	T0600101866
Action Type:	ENFORCEMENT
Date:	12/19/2013
Action:	Meeting - #20131219
Global Id:	T0600101866
Action Type:	ENFORCEMENT
Date:	03/26/2014
Action:	Staff Letter - #20140326
Global Id:	T0600101866
Action Type:	ENFORCEMENT
Date:	07/09/2014
Action:	Staff Letter - #20140709
Global Id:	T0600101866
Action Type:	ENFORCEMENT
Date:	09/24/2014
Action:	Meeting - #20140924
Global Id:	T0600101866
Action Type:	ENFORCEMENT
Date:	09/11/2014
Action:	Staff Letter - #20140911
Global Id:	T0600101866
Action Type:	ENFORCEMENT
Date:	09/24/2014
Action:	Staff Letter - #20140924
Global Id:	T0600101866
Action Type:	ENFORCEMENT
Date:	05/26/2015
Action:	Staff Letter - #20150526
Global Id:	T0600101866
Action Type:	ENFORCEMENT
Date:	03/31/2015
Action:	Email Correspondence - #20150331
Global Id:	T0600101866
Action Type:	ENFORCEMENT
Date:	05/20/2014
Action:	Staff Letter - #20140520

PORT OF OAKLAND (Continued) **S101580399**

Global Id:	T0600101866
Action Type:	ENFORCEMENT
Date:	06/26/2018
Action:	Staff Letter - #20180626
Global Id:	T0600101866
Action Type:	RESPONSE
Date:	05/27/2014
Action:	Other Report / Document
Global Id:	T0600101866
Action Type:	RESPONSE
Date:	09/15/2014
Action:	Conceptual Site Model
Global Id:	T0600101866
Action Type:	REMEDIATION
Date:	08/23/1993
Action:	Excavation
Global Id:	T0600101866
Action Type:	RESPONSE
Date:	06/15/2014
Action:	Other Report / Document
Global Id:	T0600101866
Action Type:	RESPONSE
Date:	11/10/2014
Action:	CAP/RAP - Feasibility Study Report
Global Id:	T0600101866
Action Type:	RESPONSE
Date:	07/10/2014
Action:	Correspondence
Global Id:	T0600101866
Action Type:	RESPONSE
Date:	11/24/2014
Action:	Tank Removal Report / UST Sampling Report
Global Id:	T0600101866
Action Type:	RESPONSE
Date:	10/29/2014
Action:	Email Correspondence
Global Id:	T0600101866
Action Type:	RESPONSE
Date:	10/16/2018
Action:	Email Correspondence
Global Id:	T0600101866
Action Type:	REMEDIATION
Date:	06/30/1994
Action:	Free Product Removal
Global Id:	T0600101866
Action Type:	RESPONSE

PORT OF OAKLAND (Continued) **S101580399**

Date: 11/01/2010
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0600101866
Action Type: ENFORCEMENT
Date: 10/29/2014
Action: Staff Letter - #20141029

Global Id: T0600101866
Action Type: ENFORCEMENT
Date: 03/26/2014
Action: Staff Letter - #20140326

Global Id: T0600101866
Action Type: RESPONSE
Date: 08/05/2011
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0600101866
Action Type: RESPONSE
Date: 08/19/2016
Action: Other Report / Document

LUST:
Global Id: T0600101866
Status: Open - Case Begin Date
Status Date: 09/23/1993

Global Id: T0600101866
Status: Open - Remediation
Status Date: 11/15/1996

Global Id: T0600101866
Status: Open - Verification Monitoring
Status Date: 06/07/2011

Alameda County CS:
Status: Pollution Characterization
Record Id: RO0000010
PE: 5602
Facility Status: Pollution Charaterization
Latitude: 37.808625593
Longitude: -122.31485542

Status: Remedial Action Underway
Record Id: RO0000010
PE: 5602
Facility Status: Remedial Action Underway
Latitude: 37.808625593
Longitude: -122.31485542

SWEEPS UST:
Status: Not reported
Comp Number: 59967
Number: Not reported

PORT OF OAKLAND (Continued) **S101580399**

Board Of Equalization: 44-000568
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-059967-000001
Tank Status: Not reported
Capacity: 500
Active Date: Not reported
Tank Use: OIL
STG: WASTE
Content: WASTE OIL
Number Of Tanks: 4

Status: Not reported
Comp Number: 59967
Number: Not reported
Board Of Equalization: 44-000568
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-059967-000002
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 59967
Number: Not reported
Board Of Equalization: 44-000568
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-059967-000003
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 59967
Number: Not reported
Board Of Equalization: 44-000568
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-059967-000004

PORT OF OAKLAND (Continued) **S101580399**

Tank Status:	Not reported
Capacity:	285
Active Date:	Not reported
Tank Use:	OIL
STG:	WASTE
Content:	WASTE OIL
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	59967
Number:	4
Board Of Equalization:	44-000568
Referral Date:	08-20-93
Action Date:	05-02-94
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

CA FID UST:

Facility ID:	01002783
Regulated By:	UTNKA
Regulated ID:	00059967
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4158359414
Mail To:	Not reported
Mailing Address:	530 WATER ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	OAKLAND 94607
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

CHMIRS:

OES Incident Number:	12-2652
OES notification:	05/03/2012
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported

PORT OF OAKLAND (Continued) **S101580399**

Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Facility Telephone: Not reported
Waterway Involved: No
Waterway: Not reported
Spill Site: Other
Cleanup By: Unknown
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Qt.(s)
Other: Not reported
Date/Time: 625
Year: 2012
Agency: NRC
Incident Date: 5/3/2012
Admin Agency: City of Oakland Fire Department
Amount: Not reported
Contained: Unknown
Site Type: Not reported
E Date: Not reported
Substance: Motor Oil
Quantity Released: 20
Unknown: Not reported
Substance #2: Not reported
Substance #3: Not reported
Evacuations: Not reported
Number of Injuries: Not reported
Number of Fatalities: Not reported
#1 Pipeline: Not reported
#2 Pipeline: Not reported
#3 Pipeline: Not reported
#1 Vessel >= 300 Tons: Not reported
#2 Vessel >= 300 Tons: Not reported
#3 Vessel >= 300 Tons: Not reported
Evacs: Not reported
Injuries: Not reported
Fatals: Not reported
Comments: Not reported
Description: CALLER STATED THAT THERE WAS A DISCHARGE OF 20 QUARTS OF MOTOR OIL FROM THE CRANK CASE OF A VEHICLE, THE CAUSE WAS DUE TO THE OPERATOR

PORT OF OAKLAND (Continued) **S101580399**

LOOSING THE CONTROL OF THE VEHICLE CAUSING THE VEHICLE TO TIP ON ITS SIDE, THERE WERE MINOR INJURIES TO THE DRIVER OF THE VEHICLE HE WAS SENT TO THE HOSPITAL.

NPDES:

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	2 01I019269
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	09/28/2015
Operator Name:	Port of Oakland
Operator Address:	530 Water St
Operator City:	Oakland
Operator State:	California
Operator Zip:	94607

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Terminated
Agency Number:	0
Region:	2
Regulatory Measure ID:	276870
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 01I019269
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	01/13/2005
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	08/26/2015
Discharge Name:	Port of Oakland
Discharge Address:	530 Water St
Discharge City:	Oakland
Discharge State:	California
Discharge Zip:	94607
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported

PORT OF OAKLAND (Continued) **S101580399**

Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2

PORT OF OAKLAND (Continued) **S101580399**

Regulatory Measure ID: 276870
Order Number: Not reported
Regulatory Measure Type: Industrial
Place ID: Not reported
WDID: 2 01I019269
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: 08/26/2015
Discharge Name: Not reported
Discharge Address: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
Received Date: 05/09/2008
Processed Date: 01/13/2005
Status: Terminated
Status Date: 09/28/2015
Place Size: 8
Place Size Unit: Acres
Contact: Bill Morrison
Contact Title: Not reported
Contact Phone: 510-627-1500
Contact Phone Ext: Not reported
Contact Email: tleong@portoakland.com
Operator Name: Port of Oakland
Operator Address: 530 Water St
Operator City: Oakland
Operator State: California
Operator Zip: 94607
Operator Contact: Tim Leong
Operator Contact Title: Not reported
Operator Contact Phone: 510-627-1537
Operator Contact Phone Ext: Not reported
Operator Contact Email: tleong@portoakland.com
Operator Type: Other
Developer: Not reported
Developer Address: Not reported
Developer City: Not reported
Developer State: California
Developer Zip: Not reported
Developer Contact: Not reported
Developer Contact Title: Not reported
Constype Linear Utility Ind: Not reported
Emergency Phone: 510-627-1500
Emergency Phone Ext: Not reported
Constype Above Ground Ind: Not reported
Constype Below Ground Ind: Not reported
Constype Cable Line Ind: Not reported
Constype Comm Line Ind: Not reported
Constype Commertial Ind: Not reported
Constype Electrical Line Ind: Not reported
Constype Gas Line Ind: Not reported
Constype Industrial Ind: Not reported
Constype Other Description: Not reported
Constype Other Ind: Not reported

PORT OF OAKLAND (Continued) **S101580399**

Constype Recons Ind: Not reported
Constype Residential Ind: Not reported
Constype Transport Ind: Not reported
Constype Utility Description: Not reported
Constype Utility Ind: Not reported
Constype Water Sewer Ind: Not reported
Dir Discharge Uswater Ind: N
Receiving Water Name: San Francisco Bay
Certifier: Richard Sinkoff
Certifier Title: Director of Environmental Programs and Planning
Certification Date: 08-APR-15
Primary Sic: 3799-Transportation Equipment, NEC
Secondary Sic: 3714-Motor Vehicle Parts and Accessories
Tertiary Sic: Not reported

CIWQS:
Agency: Port of Oakland
Agency Address: 530 Water St, Oakland, CA 94607
Place/Project Type: Industrial - Transportation Equipment, NEC
SIC/NAICS: Multiple
Region: 2
Program: INDSTW
Regulatory Measure Status: Terminated
Regulatory Measure Type: Storm water industrial
Order Number: 2014-0057-DWQ
WDID: 2 01I019269
NPDES Number: CAS000001
Adoption Date: Not reported
Effective Date: 01/13/2005
Termination Date: 08/26/2015
Expiration/Review Date: Not reported
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 37.80752
Longitude: -122.3122

AD138 **PORT OF OAKLAND / NATION’S WAY TRAN** **CA Alameda County CS** **S118189963**
WSW **651 MARITIME ST** **CA CHMIRS** **N/A**
1/4-1/2 **OAKLAND, CA 94607**
0.442 mi.
2336 ft. **Site 2 of 3 in cluster AD**

Relative:
Lower

Actual:
9 ft.

Alameda County CS:
Status: Leak Confirmation
Record Id: RO0000187
PE: 5602
Facility Status: Leak Confirmation
Latitude: 37.808458013
Longitude: -122.31303027

Status: Preliminary Site Assessment Underway
Record Id: RO0000187

PORT OF OAKLAND / NATION'S WAY TRAN (Continued) **S118189963**

PE: 5602
Facility Status: Preliminary Site Assessment Underway
Latitude: 37.808458013
Longitude: -122.31303027

Status: Pollution Characterization
Record Id: RO0000187
PE: 5602
Facility Status: Pollution Charaterization
Latitude: 37.808458013
Longitude: -122.31303027

Status: Remedial Action Underway
Record Id: RO0000187
PE: 5602
Facility Status: Remedial Action Underway
Latitude: 37.808458013
Longitude: -122.31303027

Status: Case Closed
Record Id: RO0000187
PE: 5602
Facility Status: Case Closed
Latitude: 37.808458013
Longitude: -122.31303027

CHMIRS:
OES Incident Number: 15-4579
OES notification: 08/07/2015
OES Date: Not reported
OES Time: Not reported
Date Completed: Not reported
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Facility Telephone: Not reported
Waterway Involved: No

PORT OF OAKLAND / NATION'S WAY TRAN (Continued) **S118189963**

Waterway:	Not reported
Spill Site:	Merchant/Business
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	CHEMICAL
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1600
Year:	2015
Agency:	Port of Oakland
Incident Date:	08/06/2015
Admin Agency:	Alameda County Environmental Health
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Liquid Sewer Solvent. Potassium Hydroxide
Quantity Released:	2
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	A forklift punctured a container causing this release to the asphalt roadway. The release was contained to the roadway and no waterways were affected by this release.

AD139 **WSW** **1/4-1/2** **0.442 mi.** **2336 ft.**	**PORT OF OAKLAND** **651 MARITIME STREET** **OAKLAND, CA 94607** **Site 3 of 3 in cluster AD**	**CA LUST** **CA EMI** **CA HIST CORTESE** **CA CERS**	**S102435400** **N/A**

Relative:
Lower

Actual:
9 ft.

LUST REG 2:

Region:	2
Facility Id:	01-2020
Facility Status:	Preliminary site assessment underway
Case Number:	3899
How Discovered:	Tank Closure
Leak Cause:	UNK
Leak Source:	UNK
Date Leak Confirmed:	8/24/1995

PORT OF OAKLAND (Continued) **S102435400**

Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 1/2/1965
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

EMI:

Year: 2008
County Code: 1
Air Basin: SF
Facility ID: 16715
Air District Name: BA
SIC Code: 1799
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: .001
NOX - Oxides of Nitrogen Tons/Yr: .001
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Year: 2009
County Code: 1
Air Basin: SF
Facility ID: 16715
Air District Name: BA
SIC Code: 1799
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.019
Reactive Organic Gases Tons/Yr: 1.8329600000000001E-2
Carbon Monoxide Emissions Tons/Yr: 0.02
NOX - Oxides of Nitrogen Tons/Yr: 2.1999999999999999E-2
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0.001
Part. Matter 10 Micrometers and Smllr Tons/Yr:9.7599999999999998E-4

Year: 2010
County Code: 1
Air Basin: SF
Facility ID: 16715
Air District Name: BA
SIC Code: 1799
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.002
Reactive Organic Gases Tons/Yr: 1.5353000000000001E-3
Carbon Monoxide Emissions Tons/Yr: 0.012
NOX - Oxides of Nitrogen Tons/Yr: 1.2999999999999999E-2
SOX - Oxides of Sulphur Tons/Yr: 0

PORT OF OAKLAND (Continued) **S102435400**

Particulate Matter Tons/Yr: 0.00102459016393442
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0.001

Year: 2011
County Code: 1
Air Basin: SF
Facility ID: 16715
Air District Name: BA
SIC Code: 1799
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.001
Reactive Organic Gases Tons/Yr: 0.0008367
Carbon Monoxide Emissions Tons/Yr: 0.013
NOX - Oxides of Nitrogen Tons/Yr: 0.015
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 2012
County Code: 1
Air Basin: SF
Facility ID: 16715
Air District Name: BA
SIC Code: 1799
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.007
Reactive Organic Gases Tons/Yr: 0.0058569
Carbon Monoxide Emissions Tons/Yr: 0.105
NOX - Oxides of Nitrogen Tons/Yr: 0.118
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0.0051229508197
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0.005

Year: 2013
County Code: 1
Air Basin: SF
Facility ID: 16715
Air District Name: BA
SIC Code: 1799
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.001
Reactive Organic Gases Tons/Yr: 0.0008367
Carbon Monoxide Emissions Tons/Yr: 0.011
NOX - Oxides of Nitrogen Tons/Yr: 0.012
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0.001
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 2014
County Code: 1
Air Basin: SF

PORT OF OAKLAND (Continued) **S102435400**

Facility ID: 16715
Air District Name: BA
SIC Code: 1799
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.001435017
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0.021801522
NOX - Oxides of Nitrogen Tons/Yr: 0.024506502
SOX - Oxides of Sulphur Tons/Yr: 3.5779e-005
Particulate Matter Tons/Yr: 0.001037836
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0.000996322

Year: 2015
County Code: 1
Air Basin: SF
Facility ID: 16715
Air District Name: BA
SIC Code: 1799
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 7.9079e-005
Reactive Organic Gases Tons/Yr: 7.0992e-005
Carbon Monoxide Emissions Tons/Yr: 0.001201403
NOX - Oxides of Nitrogen Tons/Yr: 0.001350465
SOX - Oxides of Sulphur Tons/Yr: 1.972e-006
Particulate Matter Tons/Yr: 5.7191e-005
Part. Matter 10 Micrometers and Smllr Tons/Yr: 5.4904e-005

Year: 2016
County Code: 1
Air Basin: SF
Facility ID: 16715
Air District Name: BA
SIC Code: 1799
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.000331493
Reactive Organic Gases Tons/Yr: 0.0002912166005
Carbon Monoxide Emissions Tons/Yr: 0.005036215
NOX - Oxides of Nitrogen Tons/Yr: 0.005661075
SOX - Oxides of Sulphur Tons/Yr: 8.265e-006
Particulate Matter Tons/Yr: 0.000239743
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0.000230153

HIST CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-2020

CERS TANKS:
Site ID: 206737

PORT OF OAKLAND (Continued) **S102435400**

CERS ID:	T0600101866
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	KEITH NOWELL - ALAMEDA COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	1131 Harbor Bay Parkway
Affiliation City:	ALAMEDA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	5105676764

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

AC140 **SSE** **1/4-1/2** **0.448 mi.** **2368 ft.**	**SOUTHERN PACIFIC -WEST OAKLAND RAIL YARD** **CYPRESS CORRIDOR** **OAKLAND, CA 94607** **Site 2 of 2 in cluster AC**	**CA RESPONSE** **CA ENVIROSTOR** **CA HIST Cal-Sites** **CA DEED** **CA Cortese**	**S106893873** **N/A**

Relative:
Lower

Actual:
11 ft.

AWP:

AWP Facility ID:	01400010
Region Code:	2
Region:	BERKELEY
SMBR Branch Code:	NC
SMBR Branch Unit:	NORTH COAST
Site Name.:	CYPRESS FREEWAY/SOUTHERN PACIFIC RAILROA
Current Status Date:	06201994
Current Status:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency Code:	DTSC
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type:	responsible party
Awp Site Type:	RESPONSIBLE PARTY
NPL:	Not Listed
Tier Of AWP Site:	Not reported
Source Of Funding:	F
Responsible Staff Member:	JSOTO
Supervisor Responsible:	Not reported
SIC Code:	40
Facility SIC:	RAILROAD TRANSPORTATION
RWQCB Code:	SF
RWQCB Associated With Site:	SAN FRANCISCO BAY
Site Access Controlled:	Controlled
Site Listed HWS List:	Not reported
Hazard Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Not reported

SOUTHERN PACIFIC -WEST OAKLAND RAIL YARD (Continued) **S106893873**

# Of Contamination Sources:	0
Lat/Long:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Description Of Entity:	Not reported
State Assembly Distt Code:	16
State Senate District:	09

RESPONSE:

Facility ID:	1400010
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	53.5
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Claude Jemison
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Site Code:	200486
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	18
Senate:	09
Special Program Status:	Not reported
Status:	Certified / Operation & Maintenance
Status Date:	05/28/2009
Restricted Use:	YES
Funding:	Responsible Party
Latitude:	37.80305
Longitude:	-122.2994
APN:	NONE SPECIFIED
Past Use:	RAILROAD RIGHT OF WAY
Potential COC :	Arsenic Lead TPH-MOTOR OIL
Confirmed COC:	Arsenic Lead TPH-MOTOR OIL
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Facility ID:	1400010

SOUTHERN PACIFIC -WEST OAKLAND RAIL YARD (Continued) **S106893873**

Status: Certified / Operation & Maintenance
Status Date: 05/28/2009
Site Code: 200486
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 53.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Claude Jemison
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Not reported
Restricted Use: YES
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.80305
Longitude: -122.2994
APN: NONE SPECIFIED
Past Use: RAILROAD RIGHT OF WAY
Potential COC: Arsenic Lead TPH-MOTOR OIL
Confirmed COC: Arsenic Lead TPH-MOTOR OIL
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Calsite:
Region: BERKELEY
Facility ID: 01400010
Facility Type: RP
Type: RESPONSIBLE PARTY
Branch: NC
Branch Name: NORTH COAST
File Name: CYPRESS FREEWAY/SOUTHERN PACIFIC RAILROA
State Senate District: 06201994
Status: ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL

SOUTHERN PACIFIC -WEST OAKLAND RAIL YARD (Continued) **S106893873**

NPL: Not Listed
SIC Code: 40
SIC Name: RAILROAD TRANSPORTATION
Access: Controlled
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Not reported
Staff Member Responsible for Site: JSOTO
Supervisor Responsible for Site: Not reported
Region Water Control Board: SF
Region Water Control Board Name: SAN FRANCISCO BAY
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 16
State Senate District Code: 09
Facility ID: 01400010
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: RAO
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 06201994
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01400010
Activity: RIFS
Activity Name: REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 10101997
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0

SOUTHERN PACIFIC -WEST OAKLAND RAIL YARD (Continued) **S106893873**

Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01400010
Activity: CERT
Activity Name: CERTIFICATION
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: 07022005
Revised Due Date: 07022006
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01400010
Activity: RAW
Activity Name: REMOVAL ACTION WORKPLAN
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 03201998
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0

SOUTHERN PACIFIC -WEST OAKLAND RAIL YARD (Continued) **S106893873**

Facility ID: 01400010
Activity: RA
Activity Name: REMOVAL ACTION
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: 07012005
Revised Due Date: 07012006
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01400010
Activity: CEQA
Activity Name: CEQA INCLUDING NEGATIVE DECS
AWP Code: NOE
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 03201998
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01400010
Activity: DES
Activity Name: DESIGN
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 07161999
Est Person-Yrs to complete: 0

SOUTHERN PACIFIC -WEST OAKLAND RAIL YARD (Continued) **S106893873**

Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	CYPRESS CORRIDOR
Alternate City,St,Zip:	OAKLAND, CA 94607
Background Info:	Southern Pacific has operated a railroad switching yard and railroad tracks for approximately 90 years. Site was first investigated in 1980.
Comments Date:	03201998
Comments:	Approved RAW requiring a deed restriction and an asphalt cap
Comments Date:	03201998
Comments:	over the Southern Elevated Section of the site. The area to be
Comments Date:	03201998
Comments:	capped is approximately 258,000 square feet.
Comments Date:	06201994
Comments:	Issued I or SE order on property within the footprint of the
Comments Date:	06201994
Comments:	Cypress Freeway Reconstruction Project.
Comments Date:	10101997
Comments:	Approved RI. Investigations mainly detected high boiling
Comments Date:	10101997
Comments:	petroleum hydrocarbons (JB oil, motor oil or oil and grease) in
Comments Date:	10101997
Comments:	the soil (fill material). Other chemicals such as lead,
Comments Date:	10101997
Comments:	volatile organic compounds, polynuclear aromatic hydrocarbons,
Comments Date:	10101997
Comments:	and pesticides were detected in isolated area of the site at low
Comments Date:	10101997
Comments:	concentrations. Chemicals detected in the groundwater included
Comments Date:	10101997
Comments:	cis-1,2-dichloroethene and trichloroethene in isolated area.
ID Name:	EPA IDENTIFICATION NUMBER
ID Value:	CAD000628198
ID Name:	CALSTARS CODE
ID Value:	200486
Alternate Name:	SOUTHERN PACIFIC -WEST OAKLAND RAIL YARD
Alternate Name:	CYPRESS FREEWAY/SOUTHERN PACIFIC RAILROA
Alternate Name:	Not reported
Special Programs Code:	Not reported
Special Programs Name:	Not reported

DEED:

Envirostor ID:	1400010
Area:	PROJECT WIDE

SOUTHERN PACIFIC -WEST OAKLAND RAIL YARD (Continued) **S106893873**

Sub Area:	Not reported
Site Type:	STATE RESPONSE
Status:	CERTIFIED / OPERATION & MAINTENANCE
Agency:	Not reported
Covenant Uploaded:	Not reported
Deed Date(s):	03/13/2009
File Name:	Envirostor Land Use Restrictions

CORTESE:

Region:	CORTESE
Envirostor Id:	1400010
Site/Facility Type:	STATE RESPONSE
Cleanup Status:	CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS
Status Date:	05/28/2009
Site Code:	200486
Latitude:	37.803055
Longitude:	-122.29944
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	envirostor
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Haz Waste & Substances Sites

AE141 **WEST RECYCLER BIN STORAGE** **CA ENVIROSTOR** **S102860820**
NE **1405 WOOD STREET** **N/A**
1/4-1/2 **OAKLAND, CA 94607**
0.465 mi.
2453 ft. **Site 1 of 2 in cluster AE**

Relative:
Lower

Actual:
12 ft.

ENVIROSTOR:

Facility ID:	1890018
Status:	Refer: RWQCB
Status Date:	02/28/2001
Site Code:	201096
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	1
NPL:	NO
Regulatory Agencies:	RWQCB 2 - San Francisco Bay, CITY OF OAKLAND
Lead Agency:	RWQCB 2 - San Francisco Bay
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.81553

WEST RECYCLER BIN STORAGE (Continued) **S102860820**

Longitude:	-122.2969
APN:	0-310-13, O-310-13
Past Use:	EQUIPMENT/INSTRUMENT REPAIR, VEHICLE MAINTENANCE
Potential COC:	Arsenic Lead Cadmium and compounds Molybdenum
Confirmed COC:	Cadmium and compounds Molybdenum Arsenic Lead
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

AE142 **WEST RECYCLER BIN STORAGE** **SEMS-ARCHIVE** **1003880077**
NE **1405 WOOD STREET** **CA0002059525**
1/4-1/2 **OAKLAND, CA**
0.465 mi.
2453 ft. **Site 2 of 2 in cluster AE**

Relative:
Lower

Actual:
12 ft.

SEMS Archive:

Site ID:	0905378
EPA ID:	CA0002059525
Cong District:	Not reported
FIPS Code:	06001
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information
Latitude:	37.814306
Longitude:	-122.296250

SEMS Archive Detail:

Region:	09
Site ID:	0905378
EPA ID:	CA0002059525
Site Name:	WEST RECYCLER BIN STORAGE
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1999-03-05 05:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

WEST RECYCLER BIN STORAGE (Continued) **1003880077**

Region:	09
Site ID:	0905378
EPA ID:	CA0002059525
Site Name:	WEST RECYCLER BIN STORAGE
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1997-10-20 04:00:00
Finish Date:	1999-03-05 05:00:00
Qual:	N
Current Action Lead:	St Perf

Region:	09
Site ID:	0905378
EPA ID:	CA0002059525
Site Name:	WEST RECYCLER BIN STORAGE
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1997-09-25 04:00:00
Finish Date:	1997-09-25 04:00:00
Qual:	Not reported
Current Action Lead:	St Perf

---

143 **West** **1/4-1/2** **0.470 mi.** **2483 ft.**	**PORT OF OAKLAND / NATION'S WAY TRANSPORT** **651 MARITIME STREET** **OAKLAND, CA 94607**	**CA LUST** **CA SWEEPS UST** **CA HIST CORTESE**	**S102434179** **N/A**

Relative:
Lower

Actual:
9 ft.

LUST:

Lead Agency:	ALAMEDA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100892
Global Id:	T0600100892
Latitude:	37.807461404649
Longitude:	-122.313945293427
Status:	Completed - Case Closed
Status Date:	03/17/2017
Case Worker:	KEN
RB Case Number:	01-0969
Local Agency:	ALAMEDA COUNTY LOP
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	RO0000187
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	For several years, the RO0000010 and RO0000187 case files were separately maintained, but contained the same set of data. Since the cases deal with different locations on the same site, a decision was made to administratively closed RO0000187 and incorporate it to RO0000010 in order to eliminate the duplication of effort, ACDEH case

PORT OF OAKLAND / NATION’S WAY TRANSPORT (Continued) **S102434179**

file RO0000187 was administratively closed with out public participation or issuance of a RAC on March 17, 2017. Any reports and data related to ACDEH case file RO0000187 after March 17, 2017 will be found in the RO0000010 case file. Two adjacent LUST facilities operated at the Port of Oakland along Seventh Street. One facility, identified as Port of Oakland, was occupied by Building C-401, addressed as 2227 Seventh Street. The second facility, identified as Port of Oakland / Nations Way Transport, was occupied by Buildings C-406 and C-407 and were addressed as 2225 Seventh Street. The 2227 Seventh Street property was occupied by four USTs were removed on September 23, 1993. Free phase product was observed floating on tank pit groundwater, resulting in Alameda County Environmental Health (ACEH) opening case file number RO0000010. The 2225 Seventh Street property was occupied by nine USTs, which were removed between March 1990 and August 1992. Free phase product was observed floating on tank pit groundwater, resulting in Alameda County Department of Environmental Health (ACDEH) opening case file number RO0000187. The Port of Oakland demolished the structures on both properties during port redevelopment, resulting in re-addressing the site as 651 Maritime Street and making it difficult to distinguish between the 2225 and 2227 Seventh Street facilities. For several years, the RO0000010 and RO0000187 case files were separately maintained, but contained the same set of data. In order to eliminate the duplication of effort, ACDEH case file RO0000187 has been made inactive as of 1/01/2015. Any reports and data related to ACDEH case file RO0000187 after 1/01/2015 will be found in the RO0000010 case file. Not all historic documents for the fuel leak case may be available on GeoTracker. A more complete historic case file for this site is located on the Alameda County Environmental Health website at https://ehgis.acgov.org/dehpublic/dehpublic.jsp. The site contained nine USTs at 2255 Seventh St: 5x 20k-gal and 1x10k-gal diesel, 1x8k-gal gasoline, 1x6k-gal oil, and 1x2k-gal waste oil. the 10k-gal diesel UST failed a 1989 pressure test and was removed in July 1991. The 5x 20k-gal diesel, 1x8k-gal gasoline, and 1x6k-gal oil USTs were removed on 7/27/1992. Free product was noted floating on groundwater infiltraing into the tank pit. The 2k-gal waste oil was removed on 8/18/1992. A sheen was observed on groundwater infiltraing into the tank pit. Vacuum applied to FP recovery system on 7/31/2006 with premature FP removal discontinued on 6/07/2011 and increased TPH concentrations observed in wells, including down-gradient site boundary well MW-4, for one year following ceasing FP removal. Plume may be stabilized or decreasing; however, well screens for some wells always submerged and occasionally true for several other MWs. Well network delineating plume not old enough for 5-yrs of data, O2 measurements indicate much of the site is >4%. Methane generation from plume biodegradation is problematic for closure. 170,000 ug/M3 benzene reported in soil gas. Though metals include 880 mg/kg As, 680 mg/kg Pb and 600 mg/kg Zn, site is capped and an SMP is in place.

LUST:

Global Id:	T0600100892
Contact Type:	Local Agency Caseworker
Contact Name:	KEITH NOWELL
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 Harbor Bay Parkway
City:	ALAMEDA
Email:	keith.nowell@acgov.org
Phone Number:	5105676764

PORT OF OAKLAND / NATION'S WAY TRANSPORT (Continued) **S102434179**

Global Id:	T0600100892
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0600100892
Action Type:	Other
Date:	08/14/1992
Action:	Leak Reported
Global Id:	T0600100892
Action Type:	ENFORCEMENT
Date:	09/30/2008
Action:	Technical Correspondence / Assistance / Other - #20080930
Global Id:	T0600100892
Action Type:	ENFORCEMENT
Date:	06/20/2016
Action:	Staff Letter - #20160620
Global Id:	T0600100892
Action Type:	RESPONSE
Date:	10/07/2013
Action:	Request for Closure - Regulator Responded
Global Id:	T0600100892
Action Type:	RESPONSE
Date:	06/10/2014
Action:	Other Workplan - Regulator Responded
Global Id:	T0600100892
Action Type:	ENFORCEMENT
Date:	07/21/2016
Action:	Email Correspondence - #20160721
Global Id:	T0600100892
Action Type:	RESPONSE
Date:	07/19/2012
Action:	Monitoring Report - Semi-Annually
Global Id:	T0600100892
Action Type:	RESPONSE
Date:	07/19/2013
Action:	Monitoring Report - Semi-Annually
Global Id:	T0600100892
Action Type:	ENFORCEMENT
Date:	07/24/2009
Action:	Staff Letter - #20090724
Global Id:	T0600100892
Action Type:	RESPONSE

PORT OF OAKLAND / NATION'S WAY TRANSPORT (Continued) **S102434179**

Date: 12/16/2013
Action: Correspondence

Global Id: T0600100892
Action Type: RESPONSE
Date: 01/24/2014
Action: Other Report / Document

Global Id: T0600100892
Action Type: RESPONSE
Date: 09/15/2014
Action: Conceptual Site Model

Global Id: T0600100892
Action Type: RESPONSE
Date: 11/10/2014
Action: Conceptual Site Model

Global Id: T0600100892
Action Type: REMEDIATION
Date: 06/30/1994
Action: Free Product Removal

Global Id: T0600100892
Action Type: ENFORCEMENT
Date: 06/06/2012
Action: File review

Global Id: T0600100892
Action Type: RESPONSE
Date: 06/15/2014
Action: Other Report / Document

Global Id: T0600100892
Action Type: RESPONSE
Date: 07/18/2014
Action: Other Workplan

Global Id: T0600100892
Action Type: ENFORCEMENT
Date: 12/19/2013
Action: Staff Letter - #20131219

Global Id: T0600100892
Action Type: ENFORCEMENT
Date: 12/19/2013
Action: Meeting - #20131219

Global Id: T0600100892
Action Type: ENFORCEMENT
Date: 12/04/2013
Action: Staff Letter - #20131204

Global Id: T0600100892
Action Type: ENFORCEMENT
Date: 07/09/2014
Action: Staff Letter - #20140709

PORT OF OAKLAND / NATION’S WAY TRANSPORT (Continued) **S102434179**

Global Id:	T0600100892
Action Type:	ENFORCEMENT
Date:	09/24/2014
Action:	Meeting - #20140924
Global Id:	T0600100892
Action Type:	ENFORCEMENT
Date:	10/29/2014
Action:	Staff Letter - #20141029
Global Id:	T0600100892
Action Type:	ENFORCEMENT
Date:	05/20/2014
Action:	Staff Letter - #20140520
Global Id:	T0600100892
Action Type:	ENFORCEMENT
Date:	05/26/2015
Action:	Staff Letter - #20150526
Global Id:	T0600100892
Action Type:	RESPONSE
Date:	05/27/2014
Action:	CAP/RAP - Feasibility Study Report
Global Id:	T0600100892
Action Type:	RESPONSE
Date:	05/27/2014
Action:	Correspondence
Global Id:	T0600100892
Action Type:	RESPONSE
Date:	09/15/2014
Action:	Conceptual Site Model
Global Id:	T0600100892
Action Type:	REMEDIATION
Date:	06/30/1994
Action:	Free Product Removal
Global Id:	T0600100892
Action Type:	RESPONSE
Date:	07/10/2014
Action:	Correspondence
Global Id:	T0600100892
Action Type:	REMEDIATION
Date:	06/30/1994
Action:	Free Product Removal
Global Id:	T0600100892
Action Type:	Other
Date:	08/14/1992
Action:	Leak Discovery
Global Id:	T0600100892
Action Type:	RESPONSE

PORT OF OAKLAND / NATION'S WAY TRANSPORT (Continued) **S102434179**

Date:	08/19/2016
Action:	Other Report / Document
Global Id:	T0600100892
Action Type:	ENFORCEMENT
Date:	09/24/2014
Action:	Staff Letter - #20140924
Global Id:	T0600100892
Action Type:	ENFORCEMENT
Date:	03/26/2014
Action:	Staff Letter - #20140326

LUST:

Global Id:	T0600100892
Status:	Completed - Case Closed
Status Date:	03/17/2017
Global Id:	T0600100892
Status:	Open - Assessment & Interim Remedial Action
Status Date:	06/30/1994
Global Id:	T0600100892
Status:	Open - Assessment & Interim Remedial Action
Status Date:	07/28/2006
Global Id:	T0600100892
Status:	Open - Assessment & Interim Remedial Action
Status Date:	07/31/2006
Global Id:	T0600100892
Status:	Open - Case Begin Date
Status Date:	08/14/1992
Global Id:	T0600100892
Status:	Open - Remediation
Status Date:	06/07/2011
Global Id:	T0600100892
Status:	Open - Remediation
Status Date:	06/07/2011
Global Id:	T0600100892
Status:	Open - Site Assessment
Status Date:	09/01/1992
Global Id:	T0600100892
Status:	Open - Verification Monitoring
Status Date:	06/07/2011

LUST REG 2:

Region:	2
Facility Id:	01-0969
Facility Status:	Preliminary site assessment underway
Case Number:	940

PORT OF OAKLAND / NATION’S WAY TRANSPORT (Continued) **S102434179**

How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 9/1/1992
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: 11/23/1992
Preliminary Site Assesment Began: 1/2/1965
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SWEEPS UST:
Status: Not reported
Comp Number: 49050
Number: Not reported
Board Of Equalization: 44-018631
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-049050-000001
Tank Status: Not reported
Capacity: 8000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: 8

Status: Not reported
Comp Number: 49050
Number: Not reported
Board Of Equalization: 44-018631
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-049050-000002
Tank Status: Not reported
Capacity: 20000
Active Date: Not reported
Tank Use: EMPTY
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 49050
Number: Not reported
Board Of Equalization: 44-018631
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-049050-000003
Tank Status: Not reported

PORT OF OAKLAND / NATION'S WAY TRANSPORT (Continued) **S102434179**

Capacity: 20000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 49050
Number: Not reported
Board Of Equalization: 44-018631
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-049050-000004
Tank Status: Not reported
Capacity: 20000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 49050
Number: Not reported
Board Of Equalization: 44-018631
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-049050-000005
Tank Status: Not reported
Capacity: 20000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 49050
Number: Not reported
Board Of Equalization: 44-018631
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-049050-000006
Tank Status: Not reported
Capacity: 20000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

PORT OF OAKLAND / NATION'S WAY TRANSPORT (Continued) **S102434179**

Status: Not reported
Comp Number: 49050
Number: Not reported
Board Of Equalization: 44-018631
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-049050-000007
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 49050
Number: Not reported
Board Of Equalization: 44-018631
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-049050-000008
Tank Status: Not reported
Capacity: 500
Active Date: Not reported
Tank Use: OIL
STG: WASTE
Content: WASTE OIL
Number Of Tanks: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0969

144
East
1/4-1/2
0.474 mi.
2504 ft.

WEST OAKLAND AREA I
7TH STREET BETWEEN PINE AND CENTER STREETS
OAKLAND, CA 94607

US BROWNFIELDS **1016358727**
FINDS **N/A**

Relative:
Higher

Actual:
20 ft.

US BROWNFIELDS:
Property Name: WEST OAKLAND AREA I
Recipient Name: R9 TBA (STAG Funded)
Grant Type: TBA
Property Number: Not reported
Parcel size: 70
Latitude: 37.8146
Longitude: -122.2945
HCM Label: Not reported
Map Scale: Not reported
Point of Reference: Not reported

WEST OAKLAND AREA I (Continued) **1016358727**

Highlights: Not reported
Datum: Not reported
Acres Property ID: 131530
IC Data Access: Not reported
Start Date: Not reported
Redev Completition Date: Not reported
Completed Date: Not reported
Acres Cleaned Up: Not reported
Cleanup Funding: Not reported
Cleanup Funding Source: Not reported
Assessment Funding: 11000
Assessment Funding Source: US EPA - TBA Funding
Redevelopment Funding: Not reported
Redev. Funding Source: Not reported
Redev. Funding Entity Name: Not reported
Redevelopment Start Date: Not reported
Assessment Funding Entity: EPA
Cleanup Funding Entity: Not reported
Grant Type: Hazardous
Accomplishment Type: Phase I Environmental Assessment
Accomplishment Count: 1
Cooperative Agreement Number: n/a
Start Date: 09/14/2010 00:00:00
Ownership Entity: Not reported
Completion Date: 02/20/2011 00:00:00
Current Owner: Not reported
Did Owner Change: Not reported
Cleanup Required: U
Video Available: Not reported
Photo Available: Not reported
Institutional Controls Required: U
IC Category Proprietary Controls: Not reported
IC Cat. Info. Devices: Not reported
IC Cat. Gov. Controls: Not reported
IC Cat. Enforcement Permit Tools: Not reported
IC in place date: Not reported
IC in place: Not reported
State/tribal program date: Not reported
State/tribal program ID: Not reported
State/tribal NFA date: Not reported
Air contaminated: Not reported
Air cleaned: Not reported
Asbestos found: Not reported
Asbestos cleaned: Not reported
Controled substance found: Not reported
Controled substance cleaned: Not reported
Drinking water affected: Not reported
Drinking water cleaned: Not reported
Groundwater affected: Not reported
Groundwater cleaned: Not reported
Lead contaminant found: Not reported
Lead cleaned up: Not reported
No media affected: Not reported
Unknown media affected: Not reported
Other cleaned up: Not reported
Other metals found: Not reported
Other metals cleaned: Not reported

WEST OAKLAND AREA I (Continued) **1016358727**

Other contaminants found: Not reported
Other contams found description: Not reported
PAHs found: Not reported
PAHs cleaned up: Not reported
PCBs found: Not reported
PCBs cleaned up: Not reported
Petro products found: Not reported
Petro products cleaned: Not reported
Sediments found: Not reported
Sediments cleaned: Not reported
Soil affected: Not reported
Soil cleaned up: Not reported
Surface water cleaned: Not reported
VOCs found: Not reported
VOCs cleaned: Not reported
Cleanup other description: Not reported
Num. of cleanup and re-dev. jobs: Not reported
Past use greenspace acreage: Not reported
Past use residential acreage: Not reported
Surface Water: Not reported
Past use commercial acreage: Not reported
Past use industrial acreage: Not reported
Future use greenspace acreage: Not reported
Future use residential acreage: Not reported
Future use commercial acreage: Not reported
Future use industrial acreage: Not reported
Greenspace acreage and type: Not reported
Superfund Fed. landowner flag: Not reported
Arsenic cleaned up: Not reported
Cadmium cleaned up: Not reported
Chromium cleaned up: Not reported
Copper cleaned up: Not reported
Iron cleaned up: Not reported
mercury cleaned up: Not reported
Nickel Cleaned Up: Not reported
No clean up: Not reported
Pesticides cleaned up: Not reported
Selenium cleaned up: Not reported
SVOCs cleaned up: Not reported
Unknown clean up: Not reported
Arsenic contaminant found: Not reported
Cadmium contaminant found: Not reported
Chromium contaminant found: Not reported
Copper contaminant found: Not reported
Iron contaminant found: Not reported
Mercury contaminant found: Not reported
Nickel contaminant found: Not reported
No contaminant found: Not reported
Pesticides contaminant found: Not reported
Selenium contaminant found: Not reported
SVOCs contaminant found: Not reported
Unknown contaminant found: Not reported
Future Use: Multistory Not reported
Media affected Bluiding Material: Not reported
Media affected indoor air: Not reported
Building material media cleaned up: Not reported
Indoor air media cleaned up: Not reported

WEST OAKLAND AREA I (Continued) **1016358727**

Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Property Description:	Not reported
Below Poverty Number:	3007
Below Poverty Percent:	35.5%
Meidan Income:	12689
Meidan Income Number:	4863
Meidan Income Percent:	57.4%
Vacant Housing Number:	579
Vacant Housing Percent:	15.0%
Unemployed Number:	717
Unemployed Percent:	8.5%

FINDS:

Registry ID: 110043562999

Environmental Interest/Information System
US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

AF145
SSE
1/4-1/2
0.481 mi.
2540 ft.

CYPRESS FREEWAY-3RD STREET SOUNDWALL **CA ENVIROSTOR** **S116165224**
3RD STREET BETWEEN CENTER AND PERALTA ST **CA VCP** **N/A**
OAKLAND, CA 94607

Site 1 of 3 in cluster AF

Relative:
Lower

Actual:
11 ft.

ENVIROSTOR:

Facility ID:	1400012
Status:	Certified
Status Date:	06/30/1998
Site Code:	200939
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	1.6
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Lynn Nakashima
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.8029
Longitude:	-122.2986
APN:	NONE SPECIFIED
Past Use:	RAILROAD RIGHT OF WAY
Potential COC:	Lead Polychlorinated biphenyls (PCBs TPH-diesel Heptachlor epoxide

CYPRESS FREEWAY-3RD STREET SOUNDWALL (Continued) **S116165224**

Confirmed COC: 30018-NO 30024-NO 30309-NO 30013-NO
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Facility ID: 1400012
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1.6
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Lynn Nakashima
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Site Code: 200939
Assembly: 18
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified
Status Date: 06/30/1998
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.8029 / -122.2986
APN: NONE SPECIFIED
Past Use: RAILROAD RIGHT OF WAY
Potential COC: 30013, 30018, 30024, 30309
Confirmed COC: 30018-NO,30024-NO,30309-NO,30013-NO
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

CYPRESS FREEWAY-3RD STREET SOUNDWALL (Continued) **S116165224**

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

AF146
SSE
1/4-1/2
0.488 mi.
2574 ft.

SO. PRESCOTT NEIGHBORHOOD PARK
3RD STREET
OAKLAND, CA 94607

Site 2 of 3 in cluster AF

CA ENVIROSTOR **S116165257**
CA VCP **N/A**

Relative:
Lower

Actual:
11 ft.

ENVIROSTOR:
Facility ID: 1990019
Status: Certified
Status Date: 05/25/2001
Site Code: 200485
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 4.3
NPL: NO
Regulatory Agencies: SMBRP, US EPA, CITY OF OAKLAND
Lead Agency: SMBRP
Program Manager: Lynn Nakashima
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.803
Longitude: -122.2982
APN: 0000039300100, 0000039300201, 0000039300202, 0000039300301, 0000039300302, 0000039300401, 0000039300402
Past Use: JUNKYARD
Potential COC: Lead
Confirmed COC: Lead
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported

SO. PRESCOTT NEIGHBORHOOD PARK (Continued) **S116165257**

Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Facility ID: 1990019
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 4.3
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP, US EPA, CITY OF OAKLAND
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Lynn Nakashima
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Site Code: 200485
Assembly: 18
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified
Status Date: 05/25/2001
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.803 / -122.2982
APN: 0000039300100, 0000039300201, 0000039300202, 0000039300301, 0000039300302, 0000039300401, 0000039300402
Past Use: JUNKYARD
Potential COC: 30013
Confirmed COC: 30013
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

147 **SE** **1/2-1** **0.501 mi.** **2647 ft.**	**WEST OAKLAND BART STATION SITE** **1451 7TH STREET** **OAKLAND, CA 94607**	**CA ENVIROSTOR**	**S110372802** **N/A**

Relative:
Higher

Actual:
14 ft.

ENVIROSTOR:

Facility ID:	70000133
Status:	Refer: Local Agency
Status Date:	10/15/2007
Site Code:	201636
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	3.5
NPL:	NO
Regulatory Agencies:	SMBRP, US EPA
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	EPA - Target Site Investigation
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	37.80455
Longitude:	-122.2945
APN:	004-0071-003-00, 004-0077-003-00
Past Use:	UNKNOWN
Potential COC:	Under Investigation
Confirmed COC:	NONE SPECIFIED
Potential Description:	UE
Alias Name:	West Oakland BART Parking Lot
Alias Type:	Alternate Name
Alias Name:	004-0071-003-00
Alias Type:	APN
Alias Name:	004-0077-003-00
Alias Type:	APN
Alias Name:	201636
Alias Type:	Project Code (Site Code)
Alias Name:	70000133
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	04/16/2007
Comments:	EPA letter dated April 2,2007 states that all concerns and comments have been adequately addresses by the current revision. The document(Sampling and Analysis Plan) is approved by EPA QA Office.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	05/06/2007
Comments:	Sampled April 28, 29 and May 6, 2007. Fieldwork completed.
Completed Area Name:	PROJECT WIDE

WEST OAKLAND BART STATION SITE (Continued) **S110372802**

Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 10/15/2007
Comments: Report concluded that some contamination exists on site under the parking lot. Petroleum hydrocarbons in the form of diesel and motor oil, arsenic above background, lead, pcbs, and gasoline in one groundwater sample were found above screening levels.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/28/2006
Comments: Contract issued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/13/2006
Comments: Approved as amended.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 05/09/2006
Comments: Phase I report for the West Oakland BART Station done by Levine Fricke for the City of Oakland. Not reviewed or approved by DTSC. Submitted as background information for the site.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

AF148	**1536 THIRD STREET**	**CA ENVIROSTOR**	**S116165252**
SSE	**1536 THIRD STREET**		**N/A**
1/2-1	**OAKLAND, CA 94607**		
0.503 mi.			
2657 ft.	**Site 3 of 3 in cluster AF**		

Relative: **Lower**

Actual: **11 ft.**

ENVIROSTOR:
Facility ID: 1880003
Status: Refer: Other Agency
Status Date: 08/31/1998
Site Code: 201024
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: Not reported
NPL: NO
Regulatory Agencies: ALAMEDA COUNTY, CITY OF OAKLAND
Lead Agency: CITY OF OAKLAND
Program Manager: Lynn Nakashima
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley

1536 THIRD STREET (Continued) **S116165252**

Assembly: 18
Senate: 09
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.80319
Longitude: -122.2977
APN: O-392-13
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

149
ENE
1/2-1
0.506 mi.
2674 ft.

ACME GALVANIZING
1655 17TH
OAKLAND, CA 94607

CA ENVIROSTOR
CA CPS-SLIC
CA Alameda County CS
CA CERS

S100854038
N/A

Relative:
Lower

Actual:
12 ft.

ENVIROSTOR:
Facility ID: 60002571
Status: Active
Status Date: 10/23/2017
Site Code: 202164
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 1.1
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Nancy Tu
Supervisor: Daniel Murphy
Division Branch: Cleanup Berkeley
Assembly: , 18
Senate: , 09
Special Program: EPA - PASI
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED

ACME GALVANIZING (Continued) **S100854038**

Funding: EPA Grant
Latitude: 37.81422
Longitude: -122.2943
APN: 007 055900102, 007 055900400, 007 055900500, 007 055900600
Past Use: HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, METAL PLATING - OTHER, OFFICE BUILDING, HAZARDOUS WASTE TREATMENT
Potential COC: Total Chromium (1:6 ratio Cr VI:Cr III Lead Cadmium and compounds Hydrochloric Acid (Hydrogen Chloride Sulfuric Acid Zinc
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: 007 055900102
Alias Type: APN
Alias Name: 007 055900400
Alias Type: APN
Alias Name: 007 055900500
Alias Type: APN
Alias Name: 007 055900600
Alias Type: APN
Alias Name: 202164
Alias Type: Project Code (Site Code)
Alias Name: 60002571
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: PA/SI Site Screening
Completed Date: 06/13/2018
Comments: DTSC submitted the PA/SI screening within USEPA’s SPLASH system on 6/13/2018.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CPS-SLIC:
Region: STATE
Facility Status: **Open - Assessment & Interim Remedial Action**
Status Date: 08/31/2001
Global Id: T10000001503
Lead Agency: US ENVIRONMENTAL PROTECTION AGENCY
Lead Agency Case Number: RO0002777
Latitude: 37.814183
Longitude: -122.294455
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number: Not reported
File Location: All Files are on GeoTracker or in the Local Agency Database
Potential Media Affected: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Other Acid or Corrosive, Lead

ACME GALVANIZING (Continued) **S100854038**

Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Alameda County CS:

Status:	Leak Confirmation
Record Id:	RO0002777
PE:	5502
Facility Status:	Leak Confirmation
Latitude:	Not reported
Longitude:	Not reported
Status:	11
Record Id:	RO0002777
PE:	5502
Facility Status:	Not reported
Latitude:	Not reported
Longitude:	Not reported

CERS TANKS:

Site ID:	196606
CERS ID:	T10000001503
CERS Description:	Cleanup Program Site

---

150 **West** **1/2-1** **0.513 mi.** **2710 ft.**	**FLEET INDUSTRIAL SUPPLY CENTER OAKLAND** **7TH & MARITIME** **OAKLAND, CA 94625**	**SEMS** **ROD** **NY MANIFEST**	**1014931889** **CA4170090027**

Relative:
Lower

Actual:
8 ft.

SEMS:

Site ID:	0902755
EPA ID:	CA4170090027
Cong District:	08
FIPS Code:	06001
Latitude:	37.809722
Longitude:	-122.313889
FF:	Y
NPL:	Not on the NPL
Non NPL Status:	Deferred to RCRA (Subtitle C)

SEMS Detail:

Region:	09
Site ID:	0902755
EPA ID:	CA4170090027
Site Name:	FLEET INDUSTRIAL SUPPLY CENTER OAKLAND
NPL:	N
FF:	Y
OU:	00
Action Code:	OO
Action Name:	SITE REASS
SEQ:	1
Start Date:	Not reported
Finish Date:	6/24/2004 4:00:00 AM
Qual:	D
Current Action Lead:	EPA Perf In-Hse

FLEET INDUSTRIAL SUPPLY CENTER OAKLAND (Continued) **1014931889**

Region: 09
Site ID: 0902755
EPA ID: CA4170090027
Site Name: FLEET INDUSTRIAL SUPPLY CENTER OAKLAND
NPL: N
FF: Y
OU: 02
Action Code: RO
Action Name: ROD
SEQ: 2
Start Date: Not reported
Finish Date: 9/6/1999 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0902755
EPA ID: CA4170090027
Site Name: FLEET INDUSTRIAL SUPPLY CENTER OAKLAND
NPL: N
FF: Y
OU: 02
Action Code: LW
Action Name: FF RI/FS
SEQ: 2
Start Date: 1997-12-19 05:00:00
Finish Date: 9/6/1999 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902755
EPA ID: CA4170090027
Site Name: FLEET INDUSTRIAL SUPPLY CENTER OAKLAND
NPL: N
FF: Y
OU: 00
Action Code: LV
Action Name: FF RV
SEQ: 2
Start Date: 1999-06-30 04:00:00
Finish Date: 9/30/1999 4:00:00 AM
Qual: P
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902755
EPA ID: CA4170090027
Site Name: FLEET INDUSTRIAL SUPPLY CENTER OAKLAND
NPL: N
FF: Y
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 10/18/1991 4:00:00 AM

FLEET INDUSTRIAL SUPPLY CENTER OAKLAND (Continued) **1014931889**

Qual:	H
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902755
EPA ID:	CA4170090027
Site Name:	FLEET INDUSTRIAL SUPPLY CENTER OAKLAND
NPL:	N
FF:	Y
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	Not reported
Finish Date:	10/18/1991 4:00:00 AM
Qual:	H
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902755
EPA ID:	CA4170090027
Site Name:	FLEET INDUSTRIAL SUPPLY CENTER OAKLAND
NPL:	N
FF:	Y
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1980-11-01 05:00:00
Finish Date:	11/1/1980 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902755
EPA ID:	CA4170090027
Site Name:	FLEET INDUSTRIAL SUPPLY CENTER OAKLAND
NPL:	N
FF:	Y
OU:	00
Action Code:	LV
Action Name:	FF RV
SEQ:	1
Start Date:	1995-07-07 04:00:00
Finish Date:	3/31/1997 5:00:00 AM
Qual:	P
Current Action Lead:	Fed Fac

ROD:

Full-text of USEPA Record of Decision(s) is available from EDR.

NY MANIFEST:

Country:	USA
EPA ID:	CA4170090027
Facility Status:	Not reported

FLEET INDUSTRIAL SUPPLY CENTER OAKLAND (Continued) **1014931889**

Location Address 1: ENVIRO OFFICE BLDG 321-1C
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: OAKLAND
Location State: CA
Location Zip: 94625
Location Zip 4: Not reported

NY MANIFEST:
EPAID: CA4170090027
Mailing Name: NAVAL SUPPLY CTR OAKLAND
Mailing Contact: T REEVES
Mailing Address 1: ENVIRO OFFICE BLDG 321-1C
Mailing Address 2: Not reported
Mailing City: OAKLAND
Mailing State: CA
Mailing Zip: 94625
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 5103024788

NY MANIFEST:
Document ID: NYB1174707
Manifest Status: K
seq: Not reported
Year: 1996
Trans1 State ID: Not reported
Trans2 State ID: Not reported
Generator Ship Date: 03/07/1996
Trans1 Recv Date: 03/07/1996
Trans2 Recv Date: 03/28/1996
TSD Site Recv Date: 04/11/1996
Part A Recv Date: 03/22/1996
Part B Recv Date: 04/18/1996
Generator EPA ID: CA4170090027
Trans1 EPA ID: MOD095038998
Trans2 EPA ID: MOD095038998
TSDF ID 1: NYD048148175
TSDF ID 2: Not reported
Manifest Tracking Number: Not reported
Import Indicator: Not reported
Export Indicator: Not reported
Discr Quantity Indicator: Not reported
Discr Type Indicator: Not reported
Discr Residue Indicator: Not reported
Discr Partial Reject Indicator: Not reported
Discr Full Reject Indicator: Not reported
Manifest Ref Number: Not reported
Alt Facility RCRA ID: Not reported
Alt Facility Sign Date: Not reported
MGMT Method Type Code: Not reported
Waste Code: U151 - MERCURY
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported

FLEET INDUSTRIAL SUPPLY CENTER OAKLAND (Continued) **1014931889**

Waste Code:	Not reported
Quantity:	00210
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

151
East
1/2-1
0.515 mi.
2717 ft.

NEW OAKLAND FIRE STATION #3
CENTER AND 14TH STREET
OAKLAND, CA 94607

CA ENVIROSTOR **S116165254**
CA VCP **N/A**

Relative:
Higher

Actual:
17 ft.

ENVIROSTOR:

Facility ID:	1920063
Status:	Certified
Status Date:	12/28/1994
Site Code:	200498
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	0.9
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Lynn Nakashima
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.81111
Longitude:	-122.2930
APN:	NONE SPECIFIED
Past Use:	UNKNOWN
Potential COC:	* CONTAMINATED SOIL Lead TPH-MOTOR OIL
Confirmed COC:	Lead * CONTAMINATED SOIL TPH-MOTOR OIL
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported

NEW OAKLAND FIRE STATION #3 (Continued) **S116165254**

Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Facility ID: 1920063
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 0.9
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Lynn Nakashima
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Site Code: 200498
Assembly: 18
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified
Status Date: 12/28/1994
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.81111 / -122.2930
APN: NONE SPECIFIED
Past Use: UNKNOWN
Potential COC: 10097, 30013, 3002502
Confirmed COC: 30013,10097,3002502
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

152 **ENE** **1/2-1** **0.520 mi.** **2744 ft.**	**1614 CAMPBELL ST** **1614 CAMPBELL ST** **OAKLAND, CA 94610**	**RCRA-LQG** **CA ENVIROSTOR** **CA Alameda County CS** **CA VCP** **FINDS** **ECHO**	**1001217518** **CAR000036111**
Relative: **Lower** **Actual:** **12 ft.**			

RCRA-LQG:

Date form received by agency: 12/29/2009
Facility name: 1614 CAMPBELL ST
Facility address: 1614 CAMPBELL ST
OAKLAND, CA 94610
EPA ID: CAR000036111
Mailing address: 409 13TH ST
STE 800
OAKLAND, CA 94610
Contact: FRANK E FLORES
Contact address: 409 13TH ST STE 800
OAKLAND, CA 94610
Contact country: US
Contact telephone: 510-452-2944
Telephone ext.: 16
Contact email: FRANK@MPFCORP.COM
EPA Region: 09
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: 1614 CAMPBELL ST LLC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/2006
Owner/Op end date: Not reported

Owner/operator name: 1614 CAMPBELL ST LLC
Owner/operator address: 409 13TH ST NO 800
OAKLAND, CA 94610
Owner/operator country: US
Owner/operator telephone: 510-452-2944
Owner/operator email: Not reported
Owner/operator fax: Not reported

1614 CAMPBELL ST (Continued) **1001217518**

Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/2006
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code: 151
. Waste name: Asbestos-containing waste

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: D008
. Waste name: LEAD

Historical Generators:

Date form received by agency:	02/10/1998
Site name:	RELIANCE PRODUCTS INC
Classification:	Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Violation Status: No violations found

1614 CAMPBELL ST (Continued) **1001217518**

ENVIROSTOR:

Facility ID:	70000082
Status:	Certified
Status Date:	03/09/2011
Site Code:	201876
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	1.45
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Allan Fone
Supervisor:	Daniel Murphy
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.81344
Longitude:	-122.2934
APN:	007-0560-001-02, 7-560-1-2
Past Use:	MANUFACTURING - OTHER
Potential COC:	TPH-diesel TPH-gas TPH-MOTOR OIL
Confirmed COC:	TPH-diesel TPH-gas TPH-MOTOR OIL
Potential Description:	OTH, SOIL
Alias Name:	Greitzer Parcel
Alias Type:	Alternate Name
Alias Name:	Greitzer Property
Alias Type:	Alternate Name
Alias Name:	007-0560-001-02
Alias Type:	APN
Alias Name:	7-560-1-2
Alias Type:	APN
Alias Name:	110002920876
Alias Type:	EPA (FRS #)
Alias Name:	SL0600145137
Alias Type:	GeoTracker Global ID
Alias Name:	201619
Alias Type:	Project Code (Site Code)
Alias Name:	201876
Alias Type:	Project Code (Site Code)
Alias Name:	70000082
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	08/13/2009
Comments:	Annual update letter revised and mailed out 8/13/2009.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Letter - Demand
Completed Date:	10/21/2009

1614 CAMPBELL ST (Continued) **1001217518**

Comments: Letters sent to RPs on 10/21/2009.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 07/15/2008
Comments: Second Amendament to Voluntary Cleanup Agreement fully executed on 7/15/08 and mailed to Responsible Parties.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/22/2010
Comments: Removal action completed on 10/22/2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 03/09/2011
Comments: Removal Action Completion Report approved 3/9/11.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement Termination Notification
Completed Date: 02/07/2013
Comments: Letters were sent to Market Holdings, LLC, and 1614 Campbell Street, LLC, concerning termination of the Voluntary Cleanup Agreement (VCA). All activities in the Scople of Work of the VCA and its amendments have been completed. Cost recovery is finished.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 03/05/2005
Comments: Existing site-related reports and correspondence prior to DTSC involvement.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/29/2013
Comments: Closeout memos completed 1/29/13. Site accounts are fully paid with no outstanding balance remaining.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 01/25/2011
Comments: Demand letters to Market Holdings LLC and 1614 Campbell St LLC. Responsible parties previous made payments, but balances are still due.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 07/15/2010
Comments: Letter from DTSC Office of Legal Counsel to Market Holdings, LLC

1614 CAMPBELL ST (Continued) **1001217518**

regarding 10 past due invoices.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	01/10/2006
Comments:	VCA fully executed 1/10/2006. Scope of work is document review and RI/FS.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	10/19/2007
Comments:	First Amendment to VCA executed on 10/19/07.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	07/13/2005
Comments:	Letter from consultant requesting regulatory oversight from DTSC or RWQCB

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Workplan
Completed Date:	06/27/2006
Comments:	Review of Final RI Workplan completed and approved. Approval letter sent 6/27/06.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	07/10/2006
Comments:	RI fieldwork started 7/5/2006.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	08/08/2007
Comments:	Final DTSC letter accepting remedial investigation (RI) mailed 8/8/07. Complete RI report consists of Report of Remedial Investigation (dated 8-7-06) and Report of Addtional Remedial Investigation Activities (dated 6-22-7). DTSC letter requested submittal of draft Remvoal Action Workplan by 9/7/07 and comments on updated draft VCA amendment by 8/23/07.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Health & Safety Plan
Completed Date:	07/05/2006
Comments:	Revised site specific health and safety plan received by email 6/30/2006.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Community Profile
Completed Date:	04/03/2007

1614 CAMPBELL ST (Continued) **1001217518**

Comments: Community profile OK’d by supervisor and approved by PPS 4/3/07.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 07/31/2008
Comments: RAW approved 7/30/08. Approval letter sent to project proponent 7/31/08. RAW to be finalized and submitted to DTSC and West Oakland Library.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 05/23/2008
Comments: Fact sheet approved 5/23/08

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 05/15/2008
Comments: Public Notice finished and approved 5/15/08.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 07/30/2008
Comments: Based on comments received on draft RAW and draft Notice of Exemption (NOE), no changes are needed. NOE approved 7/30/08.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 03/09/2011
Comments: Certification of Remdiation Action completed 3/9/2011.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Alameda County CS:
Status: 11
Record Id: RO0002613
PE: 5502
Facility Status: Not reported
Latitude: Not reported
Longitude: Not reported

Status: Preliminary Site Assessment Underway
Record Id: RO0002613
PE: 5502
Facility Status: Preliminary Site Assessment Underway

1614 CAMPBELL ST (Continued) **1001217518**

Latitude:	Not reported
Longitude:	Not reported

VCP:

Facility ID:	70000082
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1.45
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Allan Fone
Supervisor:	Daniel Murphy
Division Branch:	Cleanup Berkeley
Site Code:	201876
Assembly:	18
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified
Status Date:	03/09/2011
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.81344 / -122.2934
APN:	007-0560-001-02, 7-560-1-2
Past Use:	MANUFACTURING - OTHER
Potential COC:	30024, 30025, 3002502
Confirmed COC:	30024,30025,3002502
Potential Description:	OTH, SOIL
Alias Name:	Greitzer Parcel
Alias Type:	Alternate Name
Alias Name:	Greitzer Property
Alias Type:	Alternate Name
Alias Name:	007-0560-001-02
Alias Type:	APN
Alias Name:	7-560-1-2
Alias Type:	APN
Alias Name:	110002920876
Alias Type:	EPA (FRS #)
Alias Name:	SL0600145137
Alias Type:	GeoTracker Global ID
Alias Name:	201619
Alias Type:	Project Code (Site Code)
Alias Name:	201876
Alias Type:	Project Code (Site Code)
Alias Name:	70000082
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	08/13/2009
Comments:	Annual update letter revised and mailed out 8/13/2009.

Completed Area Name:	PROJECT WIDE

1614 CAMPBELL ST (Continued) **1001217518**

Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 10/21/2009
Comments: Letters sent to RPs on 10/21/2009.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 07/15/2008
Comments: Second Amendament to Voluntary Cleanup Agreement fully executed on 7/15/08 and mailed to Responsible Parties.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/22/2010
Comments: Removal action completed on 10/22/2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 03/09/2011
Comments: Removal Action Completion Report approved 3/9/11.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement Termination Notification
Completed Date: 02/07/2013
Comments: Letters were sent to Market Holdings, LLC, and 1614 Campbell Street, LLC, concerning termination of the Voluntary Cleanup Agreement (VCA). All activities in the Scope of Work of the VCA and its amendments have been completed. Cost recovery is finished.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 03/05/2005
Comments: Existing site-related reports and correspondence prior to DTSC involvement.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/29/2013
Comments: Closeout memos completed 1/29/13. Site accounts are fully paid with no outstanding balance remaining.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 01/25/2011
Comments: Demand letters to Market Holdings LLC and 1614 Campbell St LLC. Responsible parties previous made payments, but balances are still due.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

1614 CAMPBELL ST (Continued) **1001217518**

Completed Document Type: Letter - Demand
Completed Date: 07/15/2010
Comments: Letter from DTSC Office of Legal Counsel to Market Holdings, LLC regarding 10 past due invoices.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 01/10/2006
Comments: VCA fully executed 1/10/2006. Scope of work is document review and RI/FS.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 10/19/2007
Comments: First Amendment to VCA executed on 10/19/07.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 07/13/2005
Comments: Letter from consultant requesting regulatory oversight from DTSC or RWQCB

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 06/27/2006
Comments: Review of Final RI Workplan completed and approved. Approval letter sent 6/27/06.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/10/2006
Comments: RI fieldwork started 7/5/2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 08/08/2007
Comments: Final DTSC letter accepting remedial investigation (RI) mailed 8/8/07. Complete RI report consists of Report of Remedial Investigation (dated 8-7-06) and Report of Addtional Remedial Investigation Activities (dated 6-22-7). DTSC letter requested submittal of draft Remvoal Action Workplan by 9/7/07 and comments on updated draft VCA amendment by 8/23/07.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Health & Safety Plan
Completed Date: 07/05/2006
Comments: Revised site specific health and safety plan received by email 6/30/2006.

Completed Area Name: PROJECT WIDE

1614 CAMPBELL ST (Continued) **1001217518**

Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 04/03/2007
Comments: Community profile OK’d by supervisor and approved by PPS 4/3/07.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 07/31/2008
Comments: RAW approved 7/30/08. Approval letter sent to project proponent 7/31/08. RAW to be finalized and submitted to DTSC and West Oakland Library.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 05/23/2008
Comments: Fact sheet approved 5/23/08

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 05/15/2008
Comments: Public Notice finished and approved 5/15/08.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 07/30/2008
Comments: Based on comments received on draft RAW and draft Notice of Exemption (NOE), no changes are needed. NOE approved 7/30/08.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 03/09/2011
Comments: Certification of Remdiation Action completed 3/9/2011.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

FINDS:

Registry ID: 110002920876

Environmental Interest/Information System

California Department of Toxic Substances Control EnviroStor System (DTSC-EnviroStor) is an online search and Geographic Information System (GIS) tool for identifying sites that have known contamination or sites for which there may be reasons to investigate further. The

1614 CAMPBELL ST (Continued) **1001217518**

EnviroStor database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites.

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1001217518
Registry ID:	110002920876
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002920876

153
SE
1/2-1
0.528 mi.
2787 ft.

SOUTHERN PACIFIC 3RD ST VACANT LOT
1509/1513 THIRD STREET
OAKLAND, CA 94607

CA ENVIROSTOR **S116165225**
CA VCP **N/A**

Relative:
Lower

Actual:
11 ft.

ENVIROSTOR:

Facility ID:	1400013
Status:	Certified
Status Date:	07/28/2000
Site Code:	201028
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	0.12
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Lynn Nakashima
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.80300
Longitude:	-122.2984
APN:	NONE SPECIFIED
Past Use:	RAILROAD RIGHT OF WAY

SOUTHERN PACIFIC 3RD ST VACANT LOT (Continued) **S116165225**

Potential COC:	Lead
Confirmed COC:	Lead
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

VCP:

Facility ID:	1400013
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0.12
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Lynn Nakashima
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Site Code:	201028
Assembly:	18
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified
Status Date:	07/28/2000
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.80300 / -122.2984
APN:	NONE SPECIFIED
Past Use:	RAILROAD RIGHT OF WAY
Potential COC:	30013
Confirmed COC:	30013
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported

SOUTHERN PACIFIC 3RD ST VACANT LOT (Continued) **S116165225**

Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

AG154
NE
1/2-1
0.544 mi.
2873 ft.

SP, W.OAKLAND YD.-(OILY WASTE)
1707 WOOD STREET
OAKLAND, CA 94607

Site 1 of 4 in cluster AG

CA Toxic Pits **S100676226**
N/A

Relative:
Lower

Actual:
11 ft.

TOXIC PITS:
Region: 02
Task #: 82010
Owner: SOUTHERN PACIFIC TRANS. CO.
1/2 Mi Limit: Y
Num. of Pits: 4
Cease Discharge Due: 09/02/92
Cease Discharge Complete: / /
Closure Due: 09/02/92
Closure Completed: 04/21/93
Status: CLOSED
Hydro Geological Assessment Report Due: / /
Final Hydro Geological Assessment Review Completed: / /

AG155
NE
1/2-1
0.544 mi.
2873 ft.

SP, W.OAKLAND YARD-(WASHWATER)
1707 WOOD STREET
OAKLAND, CA 94607

Site 2 of 4 in cluster AG

CA Toxic Pits **S100676234**
N/A

Relative:
Lower

Actual:
11 ft.

TOXIC PITS:
Region: 02
Task #: 82034
Owner: SOUTHERN PACIFIC TRANS. CO.
1/2 Mi Limit: Y
Num. of Pits: 2
Cease Discharge Due: / /
Cease Discharge Complete: 01/16/88
Closure Due: 09/30/90
Closure Completed: 06/30/92
Status: CLOSED
Hydro Geological Assessment Report Due: / /
Final Hydro Geological Assessment Review Completed: 10/17/89

AG156 **NE** **1/2-1** **0.544 mi.** **2873 ft.**	**SOUTHERN PACIFIC TRANSPORTATION CO. OAKLAND** **1707 WOOD STREET** **OAKLAND, CA 94607** **Site 3 of 4 in cluster AG**	**CA BOND EXP. PLAN**	**S100833473** **N/A**

Relative: **Lower**

Actual: **11 ft.**

CA BOND EXP. PLAN:

Reponsible Party:	RWQCB REFERRAL SITE
Project Revenue Source Company:	Not reported
Project Revenue Source Addr:	Not reported
Project Revenue Source City,St,Zip:	Not reported
Project Revenue Source Desc:	The responsible parties will pay all costs associated with remedial investigations and cleanup activities under RWQCB oversight. There are no plans to utilize Bond funds for this site.
Site Description:	Southern Pacific, Oakland, is a large railyard, switching and maintenance facility located between the Outer Harbor and Inner Harbor of San Francisco Bay. The site includes two surface impoundments which are separated by approximately a one-half mile distance: an oil/water separator system for waste waters from the cleaning of rail cars and an inactive waste pond for wash waters from the interiors of tank cars (referred to as polychlorinated biphenyl (PCB) sludge pond). There is soil and groundwater contamination at each of the surface impoundment areas.
Hazardous Waste Desc:	This site has been contaminated by PCBs, polynuclear aromatics (PNAs), benzene, toluene, xylene, ethylbenzene, waste oils, solvents such as trichloroethylene (TCE) and dichloroethylene (DCE) and heavy metals such as lead and arsenic. Shallow ground water is contaminated by solvents.
Threat To Public Health & Env:	The waste impoundment area is fenced; however, direct contact would present a potential health threat. This site is located within one mile of the San Francisco Bay; a drainage ditch is underneath the site. Potential for migration of contaminants tothe Bay is low. Solvents are known to have migrated offsite (at least 200 feet from the site at 3-foot depth) and to shallow ground water. There are no known domestic wells within three miles of the site.
Site Activity Status:	Southern Pacific submitted a draft RAP to the RWQCB and DHS in April, 1988. The RWQCB has determined the RAP to be unacceptable and is requiring additional hydrogeologic and site characterization.

AG157 **NE** **1/2-1** **0.544 mi.** **2873 ft.**	**SOUTHERN PACIFIC TRANSPORTATION CO** **1707 WOOD ST** **OAKLAND, CA 94607** **Site 4 of 4 in cluster AG**	**CA RESPONSE** **CA ENVIROSTOR** **CA CPS-SLIC** **FTTS** **HIST FTTS** **CA CERS**	**1004444105** **N/A**

Relative: **Lower**

Actual: **11 ft.**

RESPONSE:

Facility ID:	1400001
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	29.2
National Priorities List:	NO
Cleanup Oversight Agencies:	RWQCB 2 - San Francisco Bay
Lead Agency Description:	RWQCB 2 - San Francisco Bay
Project Manager:	Not reported
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Site Code:	Not reported
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	18
Senate:	09
Special Program Status:	Designation of Single Agency
Status:	Refer: RWQCB

SOUTHERN PACIFIC TRANSPORTATION CO (Continued) **1004444105**

Status Date: 04/17/2001
Restricted Use: NO
Funding: Not reported
Latitude: 37.81666
Longitude: -122.2958
APN: 0-310-14, 0-310-3-10, 0-310-3-11, 0-310-3-9, 0-310-5, 0-310-7, 0-310-8, 0-315-4, 0310-3-8, 6-29-1, 7-556-10-1, O-310-7-7
Past Use: FOUNDRY, MANUFACTURING - LUMBER/WOOD PRODUCTS, RAIL ROAD MAINTENANCE SHOP, VEHICLE MAINTENANCE
Potential COC : * HYDROCARBON SOLVENTS * LIQUIDS WITH PH <= 2 * OIL/WATER SEPARATION SLUDGE * OTHER ORGANIC SOLIDS * OXYGENATED SOLVENTS * CONTAMINATED SOIL * Sludge - Halogenated Compounds * UNSPECIFIED SLUDGE WASTE * WASTE OIL & MIXED OIL * OTHER INORGANIC SOLID WASTE Arsenic Lead Polychlorinated biphenyls (PCBs
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 1400001
Status: Refer: RWQCB
Status Date: 04/17/2001
Site Code: Not reported
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 29.2
NPL: NO
Regulatory Agencies: RWQCB 2 - San Francisco Bay
Lead Agency: RWQCB 2 - San Francisco Bay
Program Manager: Not reported
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Designation of Single Agency
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.81666

SOUTHERN PACIFIC TRANSPORTATION CO (Continued) **1004444105**

Longitude: -122.2958
APN: 0-310-14, 0-310-3-10, 0-310-3-11, 0-310-3-9, 0-310-5, 0-310-7, 0-310-8, 0-315-4, 0310-3-8, 6-29-1, 7-556-10-1, O-310-7-7
Past Use: FOUNDRY, MANUFACTURING - LUMBER/WOOD PRODUCTS, RAIL ROAD MAINTENANCE SHOP, VEHICLE MAINTENANCE
Potential COC: * HYDROCARBON SOLVENTS * LIQUIDS WITH PH <= 2 * OIL/WATER SEPARATION SLUDGE * OTHER ORGANIC SOLIDS * OXYGENATED SOLVENTS * CONTAMINATED SOIL * Sludge - Halogenated Compounds * UNSPECIFIED SLUDGE WASTE * WASTE OIL & MIXED OIL * OTHER INORGANIC SOLID WASTE Arsenic Lead Polychlorinated biphenyls (PCBs
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CPS-SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 06/04/2009
Global Id: SLT2O193296
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.8164249766933
Longitude: -122.296061341278
Case Type: Cleanup Program Site
Case Worker: UUU
Local Agency: Not reported
RB Case Number: SLT2O193296
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

SLIC REG 2:
Region: 2
Facility ID: SLT2O193296
Facility Status: Leak being confirmed
Date Closed: Not reported

SOUTHERN PACIFIC TRANSPORTATION CO (Continued) **1004444105**

Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

FTTS INSP:
Inspection Number: 1989042600991 1
Region: 09
Inspection Date: 04/26/89
Inspector: ELLISON
Violation occurred: No
Investigation Type: Section 6 PCB Federal Conducted
Investigation Reason: Neutral Scheme, Region
Legislation Code: TSCA
Facility Function: User

HIST FTTS INSP:
Inspection Number: 1989042600991 1
Region: 09
Inspection Date: Not reported
Inspector: ELLISON
Violation occurred: No
Investigation Type: Section 6 PCB Federal Conducted
Investigation Reason: Neutral Scheme, Region
Legislation Code: TSCA
Facility Function: User

CERS TANKS:
Site ID: 248783
CERS ID: SLT2O193296
CERS Description: Cleanup Program Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

158
North
1/2-1
0.547 mi.
2887 ft.

PACIFIC MARINE MAINTENANCE COM
1425 MARITIME STREET
OAKLAND, CA 92626

CA EMI
CA Notify 65

S100179003
N/A

Relative:
Lower

Actual:
9 ft.

EMI:

Year: 2002
County Code: 1
Air Basin: SF
Facility ID: 8345
Air District Name: BA
SIC Code: 7532
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 2003
County Code: 1
Air Basin: SF
Facility ID: 8345
Air District Name: BA
SIC Code: 7532
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

NOTIFY 65:

Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported

159 **MANNYSERVICES/MCKINNEY GAS** **CA ENVIROSTOR** **S102860814**
ENE **1600 PERALTA** **N/A**
1/2-1 **OAKLAND, CA 94607**
0.561 mi.
2960 ft.

Relative:
Higher

Actual:
13 ft.

ENVIROSTOR:

Facility ID:	1750027
Status:	Refer: Other Agency
Status Date:	10/02/1997
Site Code:	Not reported
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	US EPA
Lead Agency:	US EPA
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.81284
Longitude:	-122.2925
APN:	5-396-3
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

AH160 **FOOD EXPRESS INC** **CA ENVIROSTOR** **S117700342**
ENE **1639 18TH ST** **CA NPDES** **N/A**
1/2-1 **OAKLAND, CA 94607** **CA CIWQS**
0.596 mi.
3145 ft. **Site 1 of 3 in cluster AH**

Relative:
Lower

Actual:
12 ft.

ENVIROSTOR:
Facility ID: 60002775
Status: Active
Status Date: 01/17/2019
Site Code: 202228
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 1
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Steven Ross
Supervisor: Yujie Jin
Division Branch: Cleanup Legacy Landfills
Assembly: , 18
Senate: , 09
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not Applicable
Latitude: 37.81408
Longitude: -122.2926
APN: 007-0561-0018-01
Past Use: RECYCLING - SCRAP METAL
Potential COC: Lead
Confirmed COC: Lead
Potential Description: SOIL
Alias Name: 007-0561-0018-01
Alias Type: APN
Alias Name: 202228
Alias Type: Project Code (Site Code)
Alias Name: 01420131
Alias Type: Envirostor ID Number
Alias Name: 60002775
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

FOOD EXPRESS INC (Continued) **S117700342**

NPDES:
Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported
Agency Number: Not reported
Regulatory Measure ID: Not reported
Place ID: Not reported
Order Number: Not reported
WDID: 2 01I010528
Regulatory Measure Type: Industrial
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: Not reported
Discharge Name: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
Status: Terminated
Status Date: 08/25/1993
Operator Name: Food Express Inc
Operator Address: PO Box 660460
Operator City: Arcadia
Operator State: California
Operator Zip: 91066

NPDES as of 03/2018:
NPDES Number: Not reported
Status: Not reported
Agency Number: Not reported
Region: 2
Regulatory Measure ID: 275845
Order Number: Not reported
Regulatory Measure Type: Industrial
Place ID: Not reported
WDID: 2 01I010528
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Not reported
Discharge Address: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
Received Date: 05/09/2008
Processed Date: 08/25/1993
Status: Terminated
Status Date: 08/25/1993
Place Size: 10890
Place Size Unit: SqFt
Contact: Don Wilde
Contact Title: Not reported
Contact Phone: Not reported

FOOD EXPRESS INC (Continued) **S117700342**

Contact Phone Ext: Not reported
Contact Email: Not reported
Operator Name: Food Express Inc
Operator Address: PO Box 660460
Operator City: Arcadia
Operator State: California
Operator Zip: 91066
Operator Contact: Dick Mccormick
Operator Contact Title: Not reported
Operator Contact Phone: Not reported
Operator Contact Phone Ext: Not reported
Operator Contact Email: Not reported
Operator Type: Private Business
Developer: Not reported
Developer Address: Not reported
Developer City: Not reported
Developer State: California
Developer Zip: Not reported
Developer Contact: Not reported
Developer Contact Title: Not reported
Constype Linear Utility Ind: Not reported
Emergency Phone: Not reported
Emergency Phone Ext: Not reported
Constype Above Ground Ind: Not reported
Constype Below Ground Ind: Not reported
Constype Cable Line Ind: Not reported
Constype Comm Line Ind: Not reported
Constype Commertial Ind: Not reported
Constype Electrical Line Ind: Not reported
Constype Gas Line Ind: Not reported
Constype Industrial Ind: Not reported
Constype Other Description: Not reported
Constype Other Ind: Not reported
Constype Recons Ind: Not reported
Constype Residential Ind: Not reported
Constype Transport Ind: Not reported
Constype Utility Description: Not reported
Constype Utility Ind: Not reported
Constype Water Sewer Ind: Not reported
Dir Discharge Uswater Ind: Not reported
Receiving Water Name: San Francisco Bay
Certifier: Not reported
Certifier Title: Not reported
Certification Date: Not reported
Primary Sic: 4213-Trucking, Except Local
Secondary Sic: Not reported
Tertiary Sic: Not reported

CIWQS:
Agency: Food Express Inc
Agency Address: PO Box 660460, Arcadia, CA 91066
Place/Project Type: Industrial - Trucking, Except Local
SIC/NAICS: 4213
Region: 2
Program: INDSTW
Regulatory Measure Status: Terminated

FOOD EXPRESS INC (Continued) **S117700342**

Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	2 01I010528
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	08/25/1993
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	37.81451
Longitude:	-122.29269

AH161 **MARK ABOUDI PROPERTY** **CA ENVIROSTOR** **S112865832**
ENE **1639 18TH STREET** **CA VCP** **N/A**
1/2-1 **OAKLAND, CA 94607** **CA DEED**
0.596 mi. **CA HAZNET**
3145 ft. **Site 2 of 3 in cluster AH**

Relative:
Lower

Actual:
12 ft.

ENVIROSTOR:

Facility ID:	1420131
Status:	Certified O&M - Land Use Restrictions Only
Status Date:	09/23/2010
Site Code:	201550
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	1
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Claude Jemison
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Voluntary Cleanup Program
Restricted Use:	YES
Site Mgmt Req:	DAY, ELD, HOS, EX, NOWN, NUSE, NDEV, NSUB, HS, SCH, FOOD, COV, RES
Funding:	Responsible Party
Latitude:	37.81408
Longitude:	-122.2926
APN:	007-0561-0018-01, 7-561-18-1
Past Use:	MANUFACTURING - OTHER, PAINT MANUFACTURING, RECYCLING - SCRAP METAL
Potential COC:	Lead
Confirmed COC:	Lead
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported

MARK ABOUDI PROPERTY (Continued) **S112865832**

Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Facility ID: 1420131
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: DAY, ELD, HOS, EX, NOWN, NUSE, NDEV, NSUB, HS, SCH, FOOD, COV, RES
Acres: 1
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Claude Jemison
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Site Code: 201550
Assembly: 18
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified O&M - Land Use Restrictions Only
Status Date: 09/23/2010
Restricted Use: YES
Funding: Responsible Party
Lat/Long: 37.81408 / -122.2926
APN: 007-0561-0018-01, 7-561-18-1
Past Use: MANUFACTURING - OTHER, PAINT MANUFACTURING, RECYCLING - SCRAP METAL
Potential COC: 30013
Confirmed COC: 30013
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported

MARK ABOUDI PROPERTY (Continued) **S112865832**

Schedule Revised Date: Not reported

DEED:

Envirostor ID:	1420131
Area:	PROJECT WIDE
Sub Area:	Not reported
Site Type:	VOLUNTARY CLEANUP
Status:	CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency:	Not reported
Covenant Uploaded:	Not reported
Deed Date(s):	03/27/2006
File Name:	Envirostor Land Use Restrictions

HAZNET:

Facility Name:	RADOMSKY SALVAGE C0, INC.
envid:	S112865832
Year:	1998
GEPAID:	CAC001081848
Contact:	ITZ RADOMSKY
Telephone:	5108324190
Mailing Name:	Not reported
Mailing Address:	930 PINE STREET
Mailing City,St,Zip:	OAKLAND, CA 946070000
Gen County:	Not reported
TSD EPA ID:	CAL000161743
TSD County:	Not reported
Waste Category:	Waste oil and mixed oil
Disposal Method:	Transfer Station
Tons:	.3336
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	1

envid:	S112865832
Year:	1998
GEPAID:	CAC001081848
Contact:	ITZ RADOMSKY
Telephone:	5108324190
Mailing Name:	Not reported
Mailing Address:	930 PINE STREET
Mailing City,St,Zip:	OAKLAND, CA 946070000
Gen County:	Not reported
TSD EPA ID:	CAD009466392
TSD County:	Not reported
Waste Category:	Other empty containers 30 gallons or more
Disposal Method:	Recycler
Tons:	.2750
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	1

162 **SE** **1/2-1** **0.610 mi.** **3222 ft.**	**BOBO'S JUNKYARD** **1401 THIRD STREET** **OAKLAND, CA 94607**	**CA ENVIROSTOR** **CA VCP** **CA DEED**	**S117333348** **N/A**

Relative:
Lower

Actual:
11 ft.

ENVIROSTOR:
Facility ID: 1400003
Status: Certified / Operation & Maintenance
Status Date: 05/28/2009
Site Code: 200486
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 1.84
NPL: NO
Regulatory Agencies: SMBRP, US EPA, CITY OF OAKLAND
Lead Agency: SMBRP
Program Manager: Claude Jemison
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Voluntary Cleanup Program
Restricted Use: YES
Site Mgmt Req: DAY, MON, HS, SCH, FOOD, RES
Funding: Responsible Party
Latitude: 37.80294
Longitude: -122.2972
APN: 003-0029-450
Past Use: JUNKYARD
Potential COC: Arsenic Benzene DDD DDE DDT Lead TPH-diesel TPH-gas TPH-MOTOR OIL Trichloroethylene (TCE Vinyl chloride Dieldrin Ethylbenzene Polynuclear aromatic hydrocarbons (PAHs Toluene Xylenes
Confirmed COC: Polynuclear aromatic hydrocarbons (PAHs Toluene TPH-diesel TPH-gas Trichloroethylene (TCE Vinyl chloride Dieldrin Ethylbenzene Arsenic Benzene DDD DDE DDT Lead TPH-MOTOR OIL Xylenes
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Facility ID: 1400003

BOBO’S JUNKYARD (Continued) **S117333348**

Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: DAY, MON, HS, SCH, FOOD, RES
Acres: 1.84
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP, US EPA, CITY OF OAKLAND
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Claude Jemison
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Site Code: 200486
Assembly: 18
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified / Operation & Maintenance
Status Date: 05/28/2009
Restricted Use: YES
Funding: Responsible Party
Lat/Long: 37.80294 / -122.2972
APN: 003-0029-450
Past Use: JUNKYARD
Potential COC: 30001, 30003, 30006, 30007, 30008, 30013, 30024, 30025, 3002502, 30027, 30028, 30207, 30272, 30472, 30550, 30593
Confirmed COC: 30472,30550,30024,30025,30027,30028,30207,30272,30001,30003,30006, 30007,30008,30013,3002502,30593
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

DEED:
Envirostor ID: 1400003
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: VOLUNTARY CLEANUP
Status: CERTIFIED / OPERATION & MAINTENANCE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 11/05/1997
File Name: Envirostor Land Use Restrictions

Map ID / Direction / Distance / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
163 **NNE** **1/2-1** **0.613 mi.** **3239 ft.**	**BUILDING 331 EAST** **7 MERRITIME** **OAKLAND, CA 92626**	**CA Notify 65**	**S100179524** **N/A**

Relative:
Lower

Actual:
9 ft.

NOTIFY 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported

Map ID / Direction / Distance / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
AI164 **SE** **1/2-1** **0.620 mi.** **3274 ft.**	**CALIFORNIA SODA COMPANY** **355 MANDELA PARKWAY** **OAKLAND, CA 94067** **Site 1 of 2 in cluster AI**	**CA ENVIROSTOR** **CA HAZNET** **CA CERS**	**S113013459** **N/A**

Relative:
Lower

Actual:
12 ft.

ENVIROSTOR:
Facility ID: 1280091
Status: No Further Action
Status Date: 05/27/1999
Site Code: 201025
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0.25
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: EPA - PASI
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.80367
Longitude: -122.2944
APN: NONE SPECIFIED
Past Use: NONE
Potential COC: NONE SPECIFIED No Contaminants found
Confirmed COC: No Contaminants found
Potential Description: NMA
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported

CALIFORNIA SODA COMPANY (Continued) **S113013459**

Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HAZNET:
Facility Name: CALIFORNIA SODA COMPANY
envid: S113013459
Year: 2016
GEPAID: CAD982044232
Contact: RON HINCK
Telephone: 5104446217
Mailing Name: Not reported
Mailing Address: PO BOX 2706
Mailing City,St,Zip: SAN ANSELMO, CA 94979
Gen County: Alameda
TSD EPA ID: MOD981123391
TSD County: 99
Waste Category: Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: Not reported
Tons: 0.00417
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Alameda

envid: S113013459
Year: 2016
GEPAID: CAD982044232
Contact: RON HINCK
Telephone: 5104446217
Mailing Name: Not reported
Mailing Address: PO BOX 2706
Mailing City,St,Zip: SAN ANSELMO, CA 94979
Gen County: Alameda
TSD EPA ID: CAD982444481
TSD County: San Bernardino
Waste Category: Laboratory waste chemicals
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.6587
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Alameda

envid: S113013459
Year: 2016
GEPAID: CAD982044232
Contact: RON HINCK
Telephone: 5104446217
Mailing Name: Not reported
Mailing Address: PO BOX 2706
Mailing City,St,Zip: SAN ANSELMO, CA 94979
Gen County: Alameda
TSD EPA ID: MOD981123391

CALIFORNIA SODA COMPANY (Continued) **S113013459**

TSD County: 99
Waste Category: Off-specification, aged or surplus inorganics
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.14675
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Alameda

envid: S113013459
Year: 2016
GEPAID: CAD982044232
Contact: RON HINCK
Telephone: 5104446217
Mailing Name: Not reported
Mailing Address: PO BOX 2706
Mailing City,St,Zip: SAN ANSELMO, CA 94979
Gen County: Alameda
TSD EPA ID: CAD982444481
TSD County: San Bernardino
Waste Category: Other organic solids
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.925
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Alameda

envid: S113013459
Year: 2016
GEPAID: CAD982044232
Contact: RON HINCK
Telephone: 5104446217
Mailing Name: Not reported
Mailing Address: PO BOX 2706
Mailing City,St,Zip: SAN ANSELMO, CA 94979
Gen County: Alameda
TSD EPA ID: MOD981123391
TSD County: 99
Waste Category: Laboratory waste chemicals
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.37177
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Alameda

Click this hyperlink while viewing on your computer to access
20 additional CA_HAZNET: record(s) in the EDR Site Report.

AI165 **SF BAY AREA RAPID TRANSIT DISTRICT** **CA RESPONSE** **S102769550**
SE **349 MANDELA PKWY** **CA ENVIROSTOR** **N/A**
1/2-1 **OAKLAND, CA 94607** **CA HIST Cal-Sites**
0.623 mi.
3291 ft. **Site 2 of 2 in cluster AI**

Relative:
Lower

Actual:
12 ft.

RESPONSE:

Facility ID:	1750021
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	0.3
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Janet Naito
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Site Code:	200993
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	18
Senate:	09
Special Program Status:	Not reported
Status:	Certified
Status Date:	04/24/2000
Restricted Use:	NO
Funding:	Responsible Party
Latitude:	37.80324
Longitude:	-122.2947
APN:	004007300900
Past Use:	JUNKYARD
Potential COC :	* CONTAMINATED SOIL Lead
Confirmed COC:	Lead * CONTAMINATED SOIL
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Facility ID:	1750021
Status:	Certified
Status Date:	04/24/2000
Site Code:	200993
Site Type:	State Response

SF BAY AREA RAPID TRANSIT DISTRICT (Continued) **S102769550**

Site Type Detailed:	State Response or NPL
Acres:	0.3
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Janet Naito
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.80324
Longitude:	-122.2947
APN:	004007300900
Past Use:	JUNKYARD
Potential COC:	* CONTAMINATED SOIL Lead
Confirmed COC:	Lead * CONTAMINATED SOIL
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Calsite:

Region:	BERKELEY
Facility ID:	01750021
Facility Type:	RP
Type:	RESPONSIBLE PARTY
Branch:	NC
Branch Name:	NORTH COAST
File Name:	Not reported
State Senate District:	04242000
Status:	CERTIFIED AS HAVING BEEN REMEDIED SATISFACTORILY UNDER DTSC OVERSIGHT
Status Name:	CERTIFIED
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
NPL:	Not Listed
SIC Code:	75
SIC Name:	AUTO REPAIR, SERVICES & PARKING
Access:	Controlled

SF BAY AREA RAPID TRANSIT DISTRICT (Continued) **S102769550**

Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Suspected
Staff Member Responsible for Site: Not reported
Supervisor Responsible for Site: Not reported
Region Water Control Board: SF
Region Water Control Board Name: SAN FRANCISCO BAY
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 16
State Senate District Code: 09
Facility ID: 01750021
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: I&SE
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 08221997
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: CERT
Definition of Status: CERTIFIED
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01750021
Activity: RAW
Activity Name: REMOVAL ACTION WORKPLAN
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 10291999
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: CERT
Definition of Status: CERTIFIED
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported

SF BAY AREA RAPID TRANSIT DISTRICT (Continued) **S102769550**

Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01750021
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	04242000
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	38
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	34 TONS OF CONTAMINATED SOIL WAS REMOVED OFF-SITE. THE SITE WASCLEANED TO RESIDENTIAL STANDARDS.
For Commercial Reuse:	0.30000
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01750021
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	04242000
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01750021
Activity:	CEQA
Activity Name:	CEQA INCLUDING NEGATIVE DECS

SF BAY AREA RAPID TRANSIT DISTRICT (Continued) **S102769550**

AWP Code: NOE
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 10291999
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: CERT
Definition of Status: CERTIFIED
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Alternate Address: 349 MANDELA PARKWAY
Alternate City,St,Zip: OAKLAND, CA 94607
Alternate Address: 349 MANDELA PKWY
Alternate City,St,Zip: OAKLAND, CA 94607
Background Info: Alexander’s Ragtime Auto Wreckers operated an auto wrecking facility at the 0.3 acre Site from approximately 1966 to 1987. Meyer Goldberg and Miriam Goldberg were owners of the Site during Alexander’s Ragtime Auto Wrecker’s operation at the Site. The Goldbergs sold the Site to the San Francisco Bay Area Rapid Transit District (BART) in 1987. The Site is located in an industrial neighborhood with residences and other commercial areas located less than one block away. Business activities in the area include manufacturing, food processing, warehousing and offices. Residential areas are located to the north and west of the the Site.
Comments Date: 04242000
Comments: Completed RA. Certified Site. RA consisted of field excavation
Comments Date: 04242000
Comments: of soil above the cleanup standards and collection of
Comments Date: 04242000
Comments: confirmation samples. Cleanup standard for lead was met.
Comments Date: 08221997
Comments: Issued I&SE Order. Order issued to the Bay Area Rapid Transit
Comments Date: 08221997
Comments: District (BART), Alexanders Ragtime Auto Wreckers, Mr. Alexander
Comments Date: 08221997
Comments: and the Goldbergs for investigation and remediation of elevated
Comments Date: 08221997
Comments: levels of metals. Unable to serve order on the Goldbergs
Comments Date: 08221997
Comments: (Deceased), Mr. Alexander, and Alexander’s Ragtime Auto Wreckers.
Comments Date: 10291999
Comments: Approved RAW. RAW required cleanup to residential standards.
Comments Date: 10291999
Comments: The objective was to remove lead-contaminated soil to have an
Comments Date: 10291999

SF BAY AREA RAPID TRANSIT DISTRICT (Continued) **S102769550**

Comments:	average lead concentration (expressed as the 95% upper
Comments Date:	10291999
Comments:	confidence limit of the mean) less than 400 milligrams per
Comments Date:	10291999
Comments:	kilogram (mg/kg) and no single point above 840 mg/kg. Notice of
Comments Date:	10291999
Comments:	Exemption filed to meet CEQA requirements.
ID Name:	CALSTARS CODE
ID Value:	200993
Alternate Name:	SF BAY AREA RAPID TRANSIT DISTRICT
Alternate Name:	BART/MANDELA
Alternate Name:	Not reported
Special Programs Code:	Not reported
Special Programs Name:	Not reported

AH166 **ALTA PLATING & CHEMICAL CORP.** **CA ENVIROSTOR** **S107735828**
ENE **1433 18TH STREET** **N/A**
1/2-1 **OAKLAND, CA 94607**
0.626 mi.
3305 ft. **Site 3 of 3 in cluster AH**

Relative:
Lower

Actual:
12 ft.

ENVIROSTOR:

Facility ID:	70000088
Status:	Inactive - Needs Evaluation
Status Date:	05/04/2006
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0.27
NPL:	NO
Regulatory Agencies:	SMBRP, US EPA
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	37.81362
Longitude:	-122.2914
APN:	5-397-15-2
Past Use:	METAL PLATING - OTHER
Potential COC:	Nickel Zinc
Confirmed COC:	30407-NO 30594-NO
Potential Description:	SOIL
Alias Name:	5-397-15-2
Alias Type:	APN
Alias Name:	70000088
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	04/19/2006

ALTA PLATING & CHEMICAL CORP. (Continued) **S107735828**

Comments: The site screening report was approved by EPA. No further action required under CERCLA. However, since no confirmation sampling was taken, the site needs to be re-evaluated under DTSC lead.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

AJ167 **AUTO CHLOR PROJ** **CA ENVIROSTOR** **S121621688**
East **1350 14TH ST** **CA CIWQS** **N/A**
1/2-1 **OAKLAND, CA 94607**
0.665 mi.
3511 ft. **Site 1 of 2 in cluster AJ**

Relative:
Higher

Actual:
18 ft.

ENVIROSTOR:
Facility ID: 60002513
Status: Active
Status Date: 06/19/2017
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.81095
Longitude: -122.2894
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 60002513
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 12/11/2017
Comments: Not reported

Future Area Name: Not reported

AUTO CHLOR PROJ (Continued) **S121621688**

Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

CIWQS:

Agency:	Jerry Ivy Property Trust
Agency Address:	450 Ferguson Dr, Mountain View, CA 94043
Place/Project Type:	Construction - Industrial
SIC/NAICS:	Not reported
Region:	2
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	99-08DW
WDID:	2 01C355078
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	04/14/2009
Termination Date:	11/16/2009
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	Not reported
Longitude:	Not reported

AJ168 **CARNATION DAIRIES** **CA RESPONSE** **S108054490**
East **1310 14TH STREET/1315 16TH STREET** **CA ENVIROSTOR** **N/A**
1/2-1 **OAKLAND, CA 94607** **CA CERS**
0.676 mi.
3567 ft. **Site 2 of 2 in cluster AJ**

Relative:
Higher

Actual:
18 ft.

RESPONSE:

Facility ID:	60000370
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	2.53
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, RWQCB 2 - San Francisco Bay, ALAMEDA COUNTY
Lead Agency Description:	ALAMEDA COUNTY
Project Manager:	Jovanne Villamater
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Site Code:	Not reported
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	18
Senate:	09
Special Program Status:	Not reported
Status:	Refer: Other Agency

CARNATION DAIRIES (Continued) **S108054490**

Status Date: 09/12/2006
Restricted Use: NO
Funding: Not Applicable
Latitude: 37.81113
Longitude: -122.2894
APN: 005-0375-002-01
Past Use: FUEL - VEHICLE STORAGE/ REFUELING, MAINTENANCE / CLEANING
Potential COC : Benzene Tetrachloroethylene (PCE TPH-diesel TPH-gas 1,4-Dichlorobenzene 1,2-Dichloroethane (EDC Ethylbenzene Toluene Xylenes
Confirmed COC: Toluene Tetrachloroethylene (PCE TPH-diesel TPH-gas 1,4-Dichlorobenzene 1,2-Dichloroethane (EDC Ethylbenzene Benzene Xylenes
Potential Description: OTH, SOIL, SV
Alias Name: 005-0375-002-01
Alias Type: APN
Alias Name: 110033618486
Alias Type: EPA (FRS #)
Alias Name: T0600100262
Alias Type: GeoTracker Global ID
Alias Name: 60000370
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 08/15/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 09/07/2006
Comments: Site screening concluded that contaminants remain in soil, soil gas, and groundwater at the site. Historical distributions of contaminants are generally consistent with on-site sources. Extent of contamination appears fairly stable. ACDEH continues to oversee cleanup at the site.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 60000370
Status: Refer: Other Agency
Status Date: 09/12/2006
Site Code: Not reported
Site Type: State Response
Site Type Detailed: State Response or NPL

CARNATION DAIRIES (Continued) **S108054490**

Acres: 2.53
NPL: NO
Regulatory Agencies: SMBRP, RWQCB 2 - San Francisco Bay, ALAMEDA COUNTY
Lead Agency: ALAMEDA COUNTY
Program Manager: Jovanne Villamater
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not Applicable
Latitude: 37.81113
Longitude: -122.2894
APN: 005-0375-002-01
Past Use: FUEL - VEHICLE STORAGE/ REFUELING, MAINTENANCE / CLEANING
Potential COC: Benzene Tetrachloroethylene (PCE TPH-diesel TPH-gas 1,4-Dichlorobenzene 1,2-Dichloroethane (EDC Ethylbenzene Toluene Xylenes
Confirmed COC: Toluene Tetrachloroethylene (PCE TPH-diesel TPH-gas 1,4-Dichlorobenzene 1,2-Dichloroethane (EDC Ethylbenzene Benzene Xylenes
Potential Description: OTH, SOIL, SV
Alias Name: 005-0375-002-01
Alias Type: APN
Alias Name: 110033618486
Alias Type: EPA (FRS #)
Alias Name: T0600100262
Alias Type: GeoTracker Global ID
Alias Name: 60000370
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 08/15/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 09/07/2006
Comments: Site screening concluded that contaminants remain in soil, soil gas, and groundwater at the site. Historical distributions of contaminants are generally consistent with on-site sources. Extent of contamination appears fairly stable. ACDEH continues to oversee cleanup at the site.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported

CARNATION DAIRIES (Continued) **S108054490**

Schedule Revised Date: Not reported

CERS TANKS:
Site ID: 335795
CERS ID: 60000370
CERS Description: State Response

Affiliation:
Affiliation Type Desc: Lead Project Manager
Entity Name: JOVANNE VILLAMATER
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: BERKELEY
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Supervisor
Entity Name: MARK PIROS
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

AK169 **ESE** **1/2-1** **0.681 mi.** **3597 ft.**	**SMILO CHEMICAL COMPANY** **500 KIRKHAM STREET** **OAKLAND, CA 94607** **Site 1 of 2 in cluster AK**	**CA ENVIROSTOR** **CA LUST** **CA Alameda County CS** **CA VCP** **CA HIST CORTESE** **CA CERS**	**S104578474** **N/A**
Relative: **Higher** **Actual:** **14 ft.**			

ENVIROSTOR:
Facility ID: 1510022
Status: Active
Status Date: 03/17/2016
Site Code: 900268
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 3
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Elizabeth Chung-Huynh
Supervisor: Janet Naito
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.80396
Longitude: -122.2921

SMILO CHEMICAL COMPANY (Continued) **S104578474**

APN: 004 004900100
Past Use: MANUFACTURING - CHEMICALS, VEHICLE MAINTENANCE
Potential COC: Lead TPH-diesel TPH-gas TPH-MOTOR OIL
Confirmed COC: TPH-diesel TPH-gas Lead TPH-MOTOR OIL
Potential Description: OTH, SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LUST:
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600102242
Global Id: T0600102242
Latitude: 37.803914
Longitude: -122.2929
Status: Open - Site Assessment
Status Date: 12/30/1995
Case Worker: Not reported
RB Case Number: 01-2433
Local Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: 01510022
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Acetone, Other Solvent or Non-Petroleum Hydrocarbon, Polychlorinated biphenyls (PCBs), Arsenic,
Site History: Case is overseen by DTSC under Envirostor Case No. 01510022 (Smilo Chemical Company) This site is part of the Cypress Freeway Reconstruction Project. The site was formerly known as Smilo Chemical Company, which operated as a chemical repackaging company. It was later used as a truck repair facility in which the facility occupied approximately one third of the site. Also see listing in GeoTracker for Container Frieght (Case No. 01-2399) for related documents.

LUST:
Global Id: T0600102242
Contact Type: Local Agency Caseworker
Contact Name: BARBARA COOK
Organization Name: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Address: 700 HEINZ ST.
City: BERKELEY
Email: Not reported
Phone Number: Not reported

SMILO CHEMICAL COMPANY (Continued) **S104578474**

Global Id:	T0600102242
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0600102242
Action Type:	Other
Date:	08/30/1995
Action:	Leak Reported

Global Id:	T0600102242
Action Type:	ENFORCEMENT
Date:	07/03/2008
Action:	Technical Correspondence / Assistance / Other - #20080703

Global Id:	T0600102242
Action Type:	REMEDIATION
Date:	08/30/1995
Action:	Excavation

Global Id:	T0600102242
Action Type:	Other
Date:	08/30/1995
Action:	Leak Discovery

LUST:

Global Id:	T0600102242
Status:	Open - Case Begin Date
Status Date:	08/30/1995

Global Id:	T0600102242
Status:	Open - Site Assessment
Status Date:	08/30/1995

Global Id:	T0600102242
Status:	Open - Site Assessment
Status Date:	12/30/1995

LUST REG 2:

Region:	2
Facility Id:	01-2433
Facility Status:	Leak being confirmed
Case Number:	2265
How Discovered:	Tank Closure
Leak Cause:	UNK
Leak Source:	UNK
Date Leak Confirmed:	8/8/1991
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	Not reported

SMILO CHEMICAL COMPANY (Continued) **S104578474**

Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

Alameda County CS:

Status:	Leak Confirmation
Record Id:	RO0000421
PE:	5602
Facility Status:	Leak Confirmation
Latitude:	Not reported
Longitude:	Not reported

Status:	11
Record Id:	RO0000421
PE:	5602
Facility Status:	Not reported
Latitude:	Not reported
Longitude:	Not reported

Status:	Pollution Characterization
Record Id:	RO0000421
PE:	5602
Facility Status:	Pollution Charaterization
Latitude:	Not reported
Longitude:	Not reported

VCP:

Facility ID:	1510022
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	3
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Elizabeth Chung-Huynh
Supervisor:	Janet Naito
Division Branch:	Cleanup Berkeley
Site Code:	900268
Assembly:	18
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Active
Status Date:	03/17/2016
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.80396 / -122.2921
APN:	004 004900100
Past Use:	MANUFACTURING - CHEMICALS, VEHICLE MAINTENANCE
Potential COC:	30013, 30024, 30025, 3002502
Confirmed COC:	30024,30025,30013,3002502
Potential Description:	OTH, SOIL
Alias Name:	Not reported
Alias Type:	Not reported

SMILO CHEMICAL COMPANY (Continued) **S104578474**

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-2433

Region: CORTESE
Facility County Code: 1
Reg By: CALSI
Reg Id: 01510022

CERS TANKS:
Site ID: 242891
CERS ID: T0600102242
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Local Agency Caseworker
Entity Name: BARBARA COOK - DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Entity Title: Not reported
Affiliation Address: 700 HEINZ ST.
Affiliation City: BERKELEY
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

AK170 **SE** **1/2-1** **0.724 mi.** **3822 ft.**	**CONTAINER FREIGHT** **1285 5TH ST** **OAKLAND, CA 94606** **Site 2 of 2 in cluster AK**	**CA ENVIROSTOR** **CA LUST** **CA Alameda County CS** **CA VCP** **CA HIST CORTESE** **CA CERS**	**S103576443** **N/A**

Relative:
Higher

Actual:
13 ft.

ENVIROSTOR:
Facility ID: 1420128
Status: Inactive - Needs Evaluation
Status Date: 09/03/2010
Site Code: 200467
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 2.81
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Voluntary Cleanup Program
Restricted Use: YES
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.80255
Longitude: -122.2921
APN: O-390-3
Past Use: TRANSPORTATION - WAREHOUSING
Potential COC: Arsenic Lead TPH-diesel Trichloroethylene (TCE Polynuclear aromatic hydrocarbons (PAHs
Confirmed COC: Arsenic Lead Polynuclear aromatic hydrocarbons (PAHs TPH-diesel Trichloroethylene (TCE
Potential Description: OTH, SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LUST:
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Case Type: LUST Cleanup Site

CONTAINER FREIGHT (Continued) **S103576443**

Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600102209
Global Id: T0600102209
Latitude: 37.8074
Longitude: -122.2887
Status: Open - Remediation
Status Date: 08/30/1995
Case Worker: Not reported
RB Case Number: 01-2399
Local Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: 01420128
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon, Polychlorinated biphenyls (PCBs), Other Insecticides
Site History: The case is overseen by DTSC. Envirostor ID No. 01420128. The site is part of the Cypress Freeway Construction Project. Former site uses include a warehouse and distribution facility since 1967. Site activities consisted of unloading cargo from freight trains and transferring to trucks. Prior to this use, the site was owned by the Commissary Department of the Southern Pacific Railroad. It is not known what site activities took place when it was owned by the railroad. Caltrans purchased the site in 1994 in connection with reconstruction of the Cypress Freeway.

LUST:
Global Id: T0600102209
Contact Type: Local Agency Caseworker
Contact Name: BARBARA COOK
Organization Name: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Address: 700 HEINZ ST.
City: BERKELEY
Email: Not reported
Phone Number: Not reported

Global Id: T0600102209
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600102209
Action Type: Other
Date: 09/12/1995
Action: Leak Reported

Global Id: T0600102209
Action Type: RESPONSE
Date: 08/01/1995
Action: Other Report / Document

Global Id: T0600102209
Action Type: RESPONSE
Date: 09/22/2000
Action: Site Assessment Report

CONTAINER FREIGHT (Continued) **S103576443**

Global Id:	T0600102209
Action Type:	ENFORCEMENT
Date:	07/03/2008
Action:	Technical Correspondence / Assistance / Other - #20080703
Global Id:	T0600102209
Action Type:	REMEDIATION
Date:	08/30/1995
Action:	Excavation
Global Id:	T0600102209
Action Type:	Other
Date:	08/30/1995
Action:	Leak Discovery
Global Id:	T0600102209
Action Type:	Other
Date:	08/30/1995
Action:	Leak Stopped

LUST:

Global Id:	T0600102209
Status:	Open - Case Begin Date
Status Date:	08/30/1995
Global Id:	T0600102209
Status:	Open - Remediation
Status Date:	08/30/1995
Global Id:	T0600102209
Status:	Open - Site Assessment
Status Date:	08/30/1995

LUST REG 2:

Region:	2
Facility Id:	01-2399
Facility Status:	Leak being confirmed
Case Number:	5507
How Discovered:	Tank Closure
Leak Cause:	UNK
Leak Source:	UNK
Date Leak Confirmed:	8/8/1995
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

Alameda County CS:

Status:	Leak Confirmation
Record Id:	RO0000420
PE:	5602
Facility Status:	Leak Confirmation

CONTAINER FREIGHT (Continued) **S103576443**

Latitude:	37.795736965
Longitude:	-122.2541101
Status:	11
Record Id:	RO0000420
PE:	5602
Facility Status:	Not reported
Latitude:	37.795736965
Longitude:	-122.2541101
Status:	Pollution Characterization
Record Id:	RO0000420
PE:	5602
Facility Status:	Pollution Charaterization
Latitude:	37.795736965
Longitude:	-122.2541101
Status:	Remedial Action Underway
Record Id:	RO0000420
PE:	5602
Facility Status:	Remedial Action Underway
Latitude:	37.795736965
Longitude:	-122.2541101

VCP:

Facility ID:	1420128
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	2.81
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	200467
Assembly:	18
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Inactive - Needs Evaluation
Status Date:	09/03/2010
Restricted Use:	YES
Funding:	Responsible Party
Lat/Long:	37.80255 / -122.2921
APN:	O-390-3
Past Use:	TRANSPORTATION - WAREHOUSING
Potential COC:	30001, 30013, 30024, 30027, 30472
Confirmed COC:	30001,30013,30472,30024,30027
Potential Description:	OTH, SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported

CONTAINER FREIGHT (Continued) **S103576443**

Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-2399

CERS TANKS:
Site ID: 241890
CERS ID: T0600102209
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Local Agency Caseworker
Entity Name: BARBARA COOK - DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Entity Title: Not reported
Affiliation Address: 700 HEINZ ST.
Affiliation City: BERKELEY
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

AL171 **NABISCO BRANDS, INC.** **CA Notify 65** **U000057663**
East **1267 14TH STREET** **N/A**
1/2-1 **OAKLAND, CA 92626**
0.726 mi.
3832 ft. **Site 1 of 2 in cluster AL**

Relative:
Higher

Actual:
20 ft.

NOTIFY 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported

NABISCO BRANDS, INC. (Continued) **U000057663**

Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported

AL172 **NABISCO** **CA ENVIROSTOR** **S102434115**
East **1267 14TH STREET** **CA LUST** **N/A**
1/2-1 **OAKLAND, CA 94607** **CA Alameda County CS**
0.726 mi. **CA HIST CORTESE**
3832 ft. **Site 2 of 2 in cluster AL** **CA CERS**

Relative:
Higher

Actual:
20 ft.

ENVIROSTOR:
Facility ID: 60000369
Status: No Further Action
Status Date: 08/11/2006
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 1.86
NPL: NO
Regulatory Agencies: SMBRP, ALAMEDA COUNTY
Lead Agency: ALAMEDA COUNTY
Program Manager: Not reported
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: EPA - PASI
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not Applicable
Latitude: 37.80952
Longitude: -122.2889
APN: 004-0037-001-02, 004-0037-032-06
Past Use: MANUFACTURING - OTHER
Potential COC: NONE SPECIFIED No Contaminants found
Confirmed COC: 31000-NO
Potential Description: NMA
Alias Name: 004-0037-001-02
Alias Type: APN
Alias Name: 004-0037-032-06
Alias Type: APN
Alias Name: 110010488267
Alias Type: EPA (FRS #)
Alias Name: 60000369
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 08/11/2006
Comments: Site screening concluded that UST-related remediation, overseen by ACDEH, was completed in 1992. Available data indicates that no COCs remain in soil or groundwater at levels of concern.

Future Area Name: Not reported
Future Sub Area Name: Not reported

NABISCO (Continued) **S102434115**

Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LUST:
Lead Agency: ALAMEDA COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100949
Global Id: T0600100949
Latitude: 37.8099549
Longitude: -122.2883577
Status: Completed - Case Closed
Status Date: 06/08/1993
Case Worker: Not reported
RB Case Number: 01-1028
Local Agency: Not reported
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: RO0001166
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

LUST:
Global Id: T0600100949
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600100949
Action Type: Other
Date: 08/02/1988
Action: Leak Reported

Global Id: T0600100949
Action Type: REMEDIATION
Date: 09/09/9999
Action: Not reported

LUST:
Global Id: T0600100949
Status: Completed - Case Closed
Status Date: 06/08/1993

Global Id: T0600100949
Status: Open - Case Begin Date
Status Date: 08/02/1988

NABISCO (Continued) **S102434115**

LUST REG 2:

Region:	2
Facility Id:	01-1028
Facility Status:	Case Closed
Case Number:	1249
How Discovered:	Tank Closure
Leak Cause:	Structure Failure
Leak Source:	Tank
Date Leak Confirmed:	Not reported
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	12/7/1989
Preliminary Site Assesment Began:	4/17/1990
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

Alameda County CS:

Status:	Case Closed
Record Id:	RO0001166
PE:	5602
Facility Status:	Case Closed
Latitude:	37.809983963
Longitude:	-122.28869083

HIST CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1028

CERS TANKS:

Site ID:	230916
CERS ID:	T0600100949
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

173
West
1/2-1
0.732 mi.
3863 ft.

Relative:
Lower

Actual:
7 ft.

TRANS BAY CONTAINER TERMINAL
2500 7TH STREET
OAKLAND, CA 94607

CA RESPONSE
CA ENVIROSTOR
CA HIST Cal-Sites
CA DEED
CA CHMIRS
CA Cortese
CA EMI
CA WDS
CA CIWQS

S105940082
N/A

AWP:

AWP Facility ID:	01280092
Region Code:	2
Region:	BERKELEY
SMBR Branch Code:	NC
SMBR Branch Unit:	NORTH COAST
Site Name.:	Not reported
Current Status Date:	09102001
Current Status:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency Code:	DTSC
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type:	responsible party
Awp Site Type:	RESPONSIBLE PARTY
NPL:	Not Listed
Tier Of AWP Site:	Not reported
Source Of Funding:	C
Responsible Staff Member:	EGILLERA
Supervisor Responsible:	Not reported
SIC Code:	28
Facility SIC:	MANU - CHEMICALS & ALLIED PRODUCTS
RWQCB Code:	SF
RWQCB Associated With Site:	SAN FRANCISCO BAY
Site Access Controlled:	Not reported
Site Listed HWS List:	Not reported
Hazard Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Not reported
# Of Contamination Sources:	0
Lat/Long:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Description Of Entity:	Not reported
State Assembly Distt Code:	16
State Senate District:	09

RESPONSE:

Facility ID:	1280092
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	6.5
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Elizabeth Chung-Huynh
Supervisor:	Janet Naito
Division Branch:	Cleanup Berkeley
Site Code:	201392
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	18

TRANS BAY CONTAINER TERMINAL (Continued) **S105940082**

Senate:	09
Special Program Status:	Not reported
Status:	Certified / Operation & Maintenance
Status Date:	09/20/2011
Restricted Use:	YES
Funding:	Responsible Party
Latitude:	37.81086
Longitude:	-122.3215
APN:	NONE SPECIFIED
Past Use:	MANUFACTURING - CHEMICALS
Potential COC :	Polynuclear aromatic hydrocarbons (PAHs Tetrachloroethylene (PCE TPH-diesel TPH-gas Trichloroethylene (TCE
Confirmed COC:	Polynuclear aromatic hydrocarbons (PAHs Tetrachloroethylene (PCE TPH-diesel TPH-gas Trichloroethylene (TCE
Potential Description:	OTH, SOIL, SV
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Facility ID:	1280092
Status:	Certified / Operation & Maintenance
Status Date:	09/20/2011
Site Code:	201392
Site Type:	State Response
Site Type Detailed:	State Response or NPL
Acres:	6.5
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Elizabeth Chung-Huynh
Supervisor:	Janet Naito
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Not reported
Restricted Use:	YES
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.81086
Longitude:	-122.3215

TRANS BAY CONTAINER TERMINAL (Continued) **S105940082**

APN: NONE SPECIFIED
Past Use: MANUFACTURING - CHEMICALS
Potential COC: Polynuclear aromatic hydrocarbons (PAHs Tetrachloroethylene (PCE TPH-diesel TPH-gas Trichloroethylene (TCE
Confirmed COC: Polynuclear aromatic hydrocarbons (PAHs Tetrachloroethylene (PCE TPH-diesel TPH-gas Trichloroethylene (TCE
Potential Description: OTH, SOIL, SV
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Calsite:
Region: BERKELEY
Facility ID: 01280092
Facility Type: RP
Type: RESPONSIBLE PARTY
Branch: NC
Branch Name: NORTH COAST
File Name: Not reported
State Senate District: 09102001
Status: ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
NPL: Not Listed
SIC Code: 28
SIC Name: MANU - CHEMICALS & ALLIED PRODUCTS
Access: Not reported
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Not reported
Staff Member Responsible for Site: EGILLERA
Supervisor Responsible for Site: Not reported
Region Water Control Board: SF
Region Water Control Board Name: SAN FRANCISCO BAY
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 16
State Senate District Code: 09

TRANS BAY CONTAINER TERMINAL (Continued) **S105940082**

Facility ID:	01280092
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	ISE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09142001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01280092
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	07012005
Revised Due Date:	07012006
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01280092
Activity:	RAW
Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	12312004
Revised Due Date:	11302005
Comments Date:	Not reported
Est Person-Yrs to complete:	0

TRANS BAY CONTAINER TERMINAL (Continued) **S105940082**

Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01280092
Activity: RA
Activity Name: REMOVAL ACTION
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: 04302005
Revised Due Date: 01312006
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Alternate Address: 2700 7TH STREET
Alternate City,St,Zip: OAKLAND, CA 94607
Alternate Address: 2500 7TH STREET
Alternate City,St,Zip: OAKLAND, CA 94607
Background Info: The site is located along the edge of the Port of Oakland’s Outer Harbor. From 1958 to 1974, the site was occupied by the McGuire Chemical Company. McGurie blended, packaged and stored chemicals such as anti-freeze and various volatile organic chemicals (VOCs), including aromatic and chlorinated compounds. Potential contaminants at the site include: total petroleum hydrocarbons (TPH) as gasoline, diesel, and motor oil, tetrachloroethylene (PCE), trichloroethene (TCE), polynuclear aromatic hydrocarbons (PAHs), arsenic, and metals such as copper, nickel and lead. The chemicals were stored in above ground tanks. Investigations have found aromatic and chlorinated solvents in soil and groundwater in the former area of the above ground tanks. The site currently operates as a marine container terminal.

TRANS BAY CONTAINER TERMINAL (Continued) **S105940082**

Comments Date: 02042004
Comments: Approved final RI. To characterize the extent of soil and
Comments Date: 02042004
Comments: groundwater contamination, the site’s soils and groundwater were
Comments Date: 02042004
Comments: investigated in phases. The primary contaminants of concern are
Comments Date: 02042004
Comments: VOCs and TPH.
Comments Date: 09142001
Comments: Issued I&SE Order requiring the Port of Oakland to investigate
Comments Date: 09142001
Comments: the site and to conduct remedials as necessary.
ID Name: CALSTARS CODE
ID Value: 201392
Alternate Name: PORT OF OAKLAND, BERTH 25 AND 26
Alternate Name: MC GUIRE CHEMICAL COMPANY
Alternate Name: Not reported
Special Programs Code: Not reported
Special Programs Name: Not reported

DEED:
Envirostor ID: 1280092
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: STATE RESPONSE
Status: CERTIFIED / OPERATION & MAINTENANCE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 09/07/2011
File Name: Envirostor Land Use Restrictions

CHMIRS:
OES Incident Number: 10-1859
OES notification: 03/17/2010
OES Date: Not reported
OES Time: Not reported
Date Completed: Not reported
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported

TRANS BAY CONTAINER TERMINAL (Continued) **S105940082**

CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	San Francisco Bay
Spill Site:	Ship/Harbor/Port
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	2230
Year:	2010
Agency:	TransBay Container Terminal
Incident Date:	3/17/2010
Admin Agency:	City of Oakland Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	San Francisco Bay
E Date:	Not reported
Substance:	Hydraulic Fluid
Quantity Released:	1
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	A hydraulic line on a crane broke causing the spill.

CORTESE:

Region:	CORTESE
Envirostor Id:	1280092
Site/Facility Type:	STATE RESPONSE
Cleanup Status:	CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS
Status Date:	09/20/2011
Site Code:	201392
Latitude:	37.810869
Longitude:	-122.32152
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	envirostor

TRANS BAY CONTAINER TERMINAL (Continued) **S105940082**

Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Haz Waste & Substances Sites

EMI:

Year:	2001
County Code:	1
Air Basin:	SF
Facility ID:	12387
Air District Name:	BA
SIC Code:	4491
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2002
County Code:	1
Air Basin:	SF
Facility ID:	12387
Air District Name:	BA
SIC Code:	4491
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2003
County Code:	1
Air Basin:	SF
Facility ID:	12387
Air District Name:	BA
SIC Code:	4491
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	3

TRANS BAY CONTAINER TERMINAL (Continued) **S105940082**

SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Year: 2004
County Code: 1
Air Basin: SF
Facility ID: 12387
Air District Name: BA
SIC Code: 4491
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.205
Reactive Organic Gases Tons/Yr: 0.1715235
Carbon Monoxide Emissions Tons/Yr: 0.545
NOX - Oxides of Nitrogen Tons/Yr: 2.612
SOX - Oxides of Sulphur Tons/Yr: 0.005
Particulate Matter Tons/Yr: 0.01
Part. Matter 10 Micrometers and Smllr Tons/Yr:0.00976

Year: 2005
County Code: 1
Air Basin: SF
Facility ID: 12387
Air District Name: BA
SIC Code: 4491
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 2.601
Reactive Organic Gases Tons/Yr: 2.1762567
Carbon Monoxide Emissions Tons/Yr: 7.17
NOX - Oxides of Nitrogen Tons/Yr: 32.968
SOX - Oxides of Sulphur Tons/Yr: .041
Particulate Matter Tons/Yr: .047
Part. Matter 10 Micrometers and Smllr Tons/Yr:.045872

Year: 2006
County Code: 1
Air Basin: SF
Facility ID: 12387
Air District Name: BA
SIC Code: 4491
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1.3
Reactive Organic Gases Tons/Yr: 1.08771
Carbon Monoxide Emissions Tons/Yr: 2.868
NOX - Oxides of Nitrogen Tons/Yr: 32.968
SOX - Oxides of Sulphur Tons/Yr: .51
Particulate Matter Tons/Yr: .047
Part. Matter 10 Micrometers and Smllr Tons/Yr:.045872

Year: 2007
County Code: 1

TRANS BAY CONTAINER TERMINAL (Continued) **S105940082**

Air Basin: SF
Facility ID: 12387
Air District Name: BA
SIC Code: 4491
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1.3
Reactive Organic Gases Tons/Yr: 1.08771
Carbon Monoxide Emissions Tons/Yr: 2.868
NOX - Oxides of Nitrogen Tons/Yr: 32.968
SOX - Oxides of Sulphur Tons/Yr: .51
Particulate Matter Tons/Yr: .047
Part. Matter 10 Micrometers and Smllr Tons/Yr:.045872

Year: 2008
County Code: 1
Air Basin: SF
Facility ID: 12387
Air District Name: BA
SIC Code: 4491
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: .137
Reactive Organic Gases Tons/Yr: .1146279
Carbon Monoxide Emissions Tons/Yr: .294
NOX - Oxides of Nitrogen Tons/Yr: 3.386
SOX - Oxides of Sulphur Tons/Yr: .002
Particulate Matter Tons/Yr: .005
Part. Matter 10 Micrometers and Smllr Tons/Yr:.00488

Year: 2009
County Code: 1
Air Basin: SF
Facility ID: 12387
Air District Name: BA
SIC Code: 4491
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.13700000000000001
Reactive Organic Gases Tons/Yr: 0.1146279
Carbon Monoxide Emissions Tons/Yr: 0.314
NOX - Oxides of Nitrogen Tons/Yr: 3.6549999999999998
SOX - Oxides of Sulphur Tons/Yr: 0.002
Particulate Matter Tons/Yr: 0.0121229508196721
Part. Matter 10 Micrometers and Smllr Tons/Yr:1.1832000000000001E-2

Year: 2010
County Code: 1
Air Basin: SF
Facility ID: 12387
Air District Name: BA
SIC Code: 4491
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported

TRANS BAY CONTAINER TERMINAL (Continued) **S105940082**

Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.13700000000000001
Reactive Organic Gases Tons/Yr: 0.1146279
Carbon Monoxide Emissions Tons/Yr: 0.314
NOX - Oxides of Nitrogen Tons/Yr: 3.6549999999999998
SOX - Oxides of Sulphur Tons/Yr: 0.002
Particulate Matter Tons/Yr: 1.2295081967213101E-2
Part. Matter 10 Micrometers and Smllr Tons/Yr:0.012

WDS:
Facility ID: San Francisco Bay 01I002461
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 2
Facility Telephone: 5108390790
Facility Contact: RUSS PALCER
Agency Name: TRANSBAY CONTAINER TERMINAL
Agency Address: 2500 7th St
Agency City,St,Zip: Oakland 946071008
Agency Contact: RUSS POLCER
Agency Telephone: 5108390790
Agency Type: ?
SIC Code: 0
SIC Code 2: Not reported
Primary Waste Type: Not reported
Primary Waste: Not reported
Waste Type2: Not reported
Waste2: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

TRANS BAY CONTAINER TERMINAL (Continued) **S105940082**

CIWQS:

Agency:	Transbay Container Terminal I
Agency Address:	2500 7th St, Oakland, CA 94607
Place/Project Type:	Industrial - Marine Cargo Handling
SIC/NAICS:	Multiple
Region:	2
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	2 01I002461
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	04/01/1992
Termination Date:	10/25/2010
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	37.80885
Longitude:	-122.31801

174
East
1/2-1
0.738 mi.
3896 ft.

COMMAIR MECHANICAL SERVICE
1266 14TH STREET
OAKLAND, CA 94607

CA ENVIROSTOR **S118757106**
N/A

Relative:
Higher

Actual:
19 ft.

ENVIROSTOR:

Facility ID:	60000366
Status:	No Action Required
Status Date:	02/08/2007
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	1.65
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Claude Jemison
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	37.81067
Longitude:	-122.2886
APN:	5-376-9-1
Past Use:	NONE
Potential COC:	Polychlorinated biphenyls (PCBs
Confirmed COC:	Polychlorinated biphenyls (PCBs

COMMAIR MECHANICAL SERVICE (Continued) **S118757106**

Potential Description:	SED
Alias Name:	5-376-9-1
Alias Type:	APN
Alias Name:	60000366
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	02/08/2007
Comments:	No action required because site is completely paved and the site no lonber stores PCB containing ballasts. PCB sampling results of sediments on the paved surfaces were not able to be duplicated.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	08/08/2006
Comments:	Letters requesting information on the site were sent to the owner and former operator.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

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175 **ESE** **1/2-1** **0.744 mi.** **3926 ft.**	**PALM COURT** **902 UNION STREET** **OAKLAND, CA 94612**	**CA ENVIROSTOR** **CA VCP**	**S106568180** **N/A**

Relative:
Higher

Actual:
22 ft.

ENVIROSTOR:

Facility ID:	1990027
Status:	No Further Action
Status Date:	03/14/2005
Site Code:	201557
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	1.25
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Janet Naito
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party

PALM COURT (Continued) **S106568180**

Latitude: 37.8069
Longitude: -122.2892
APN: 4-41-002, 4-41-003, 4-41-004, 4-41-005, 4-41-006, 4-41-007, 4-41-008, 4-41-009, 4-41-010, 4-41-012, 4-41-013
Past Use: RESIDENTIAL AREA
Potential COC: Chlordane Lead
Confirmed COC: Chlordane Lead
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Facility ID: 1990027
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1.25
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Janet Naito
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Site Code: 201557
Assembly: 18
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: No Further Action
Status Date: 03/14/2005
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.8069 / -122.2892
APN: 4-41-002, 4-41-003, 4-41-004, 4-41-005, 4-41-006, 4-41-007, 4-41-008, 4-41-009, 4-41-010, 4-41-012, 4-41-013
Past Use: RESIDENTIAL AREA
Potential COC: 30004, 30013
Confirmed COC: 30004,30013
Potential Description: SOIL
Alias Name: Not reported

PALM COURT (Continued) **S106568180**

Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

176
SW
1/2-1
0.762 mi.
4022 ft.

FLEET INDUSTRIAL SUPPLY CENTER, OAKLAND
531 ACRES; EASTERN SHORE OF THE SF BAY
OAKLAND, CA 94625

CA RESPONSE
CA ENVIROSTOR
CA HIST Cal-Sites

S105418623
N/A

Relative:
Lower

Actual:
8 ft.

AWP:

AWP Facility ID:	01420124
Region Code:	2
Region:	BERKELEY
SMBR Branch Code:	NO
SMBR Branch Unit:	OMF-NORTHERN CALIF
Site Name.:	Not reported
Current Status Date:	01011991
Current Status:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency Code:	DTSC
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type:	Closed military facility
Awp Site Type:	CLOSED MILITARY BASE
NPL:	Not Listed
Tier Of AWP Site:	Not reported
Source Of Funding:	Not reported
Responsible Staff Member:	HWONG
Supervisor Responsible:	Not reported
SIC Code:	42
Facility SIC:	TRUCKING & WAREHOUSING
RWQCB Code:	Not reported
RWQCB Associated With Site:	Not reported
Site Access Controlled:	Not reported
Site Listed HWS List:	Not reported
Hazard Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Suspected
# Of Contamination Sources:	4
Lat/Long:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Description Of Entity:	Not reported
State Assembly Distt Code:	16

FLEET INDUSTRIAL SUPPLY CENTER, OAKLAND (Continued) **S105418623**

State Senate District: 09

RESPONSE:
Facility ID: 1420124
Site Type: State Response
Site Type Detail: Closed Base
Acres: 531
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Henry Wong
Supervisor: Daniel Murphy
Division Branch: Cleanup Berkeley
Site Code: 202110
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 18
Senate: 09
Special Program Status: Not reported
Status: Certified O&M - Land Use Restrictions Only
Status Date: 06/22/2011
Restricted Use: YES
Funding: * Defense Environmental Restoration Program (DERP)
Latitude: 37.80222
Longitude: -122.3155
APN: 0-355-2
Past Use: DEGREASING FACILITY, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, FUEL - VEHICLE STORAGE/ REFUELING, RAIL ROAD MAINTENANCE SHOP, SHIPYARD - TERMINAL, VEHICLE MAINTENANCE, PORT, UNDERGROUND STORAGE TANKS, UNKNOWN, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING
Potential COC : Arsenic Benzene Lead TPH-diesel TPH-gas TPH-MOTOR OIL 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride DDT Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs
Confirmed COC: Arsenic Benzene Lead TPH-diesel TPH-gas 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride TPH-MOTOR OIL DDT Polynuclear aromatic hydrocarbons (PAHs Polychlorinated biphenyls (PCBs
Potential Description: OTH, SED
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

FLEET INDUSTRIAL SUPPLY CENTER, OAKLAND (Continued) **S105418623**

ENVIROSTOR:
Facility ID: 1420124
Status: Certified O&M - Land Use Restrictions Only
Status Date: 06/22/2011
Site Code: 202110
Site Type: State Response
Site Type Detailed: Closed Base
Acres: 531
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Henry Wong
Supervisor: Daniel Murphy
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Not reported
Restricted Use: YES
Site Mgmt Req: NONE SPECIFIED
Funding: * Defense Environmental Restoration Program (DERP)
Latitude: 37.80222
Longitude: -122.3155
APN: 0-355-2
Past Use: DEGREASING FACILITY, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, FUEL - VEHICLE STORAGE/ REFUELING, RAIL ROAD MAINTENANCE SHOP, SHIPYARD - TERMINAL, VEHICLE MAINTENANCE, PORT, UNDERGROUND STORAGE TANKS, UNKNOWN, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING
Potential COC: Arsenic Benzene Lead TPH-diesel TPH-gas TPH-MOTOR OIL 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride Arsenic DDT Lead Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-MOTOR OIL
Confirmed COC: Arsenic Benzene Lead TPH-diesel TPH-gas 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride TPH-MOTOR OIL Arsenic DDT Lead Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-MOTOR OIL Polychlorinated biphenyls (PCBs
Potential Description: OTH, SED
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

FLEET INDUSTRIAL SUPPLY CENTER, OAKLAND (Continued) **S105418623**

Calsite:
Region: BERKELEY
Facility ID: 01420124
Facility Type: CLOSE
Type: CLOSED MILITARY BASE
Branch: NO
Branch Name: OMF-NORTHERN CALIF
File Name: Not reported
State Senate District: 01011991
Status: ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
NPL: Not Listed
SIC Code: 42
SIC Name: TRUCKING & WAREHOUSING
Access: Not reported
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Suspected
Staff Member Responsible for Site: HWONG
Supervisor Responsible for Site: Not reported
Region Water Control Board: Not reported
Region Water Control Board Name: Not reported
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 16
State Senate District Code: 09
Facility ID: 01420124
Activity: DEED
Activity Name: DEED RESTRICTIONS
AWP Code: BSWD
Proposed Budget: 0
AWP Completion Date: 02222001
Revised Due Date: Not reported
Comments Date: 02222001
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01420124
Activity: OM
Activity Name: OPERATION & MAINTENANCE

FLEET INDUSTRIAL SUPPLY CENTER, OAKLAND (Continued) **S105418623**

AWP Code: BSWD
Proposed Budget: 0
AWP Completion Date: 04302014
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01420124
Activity: RAP
Activity Name: REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code: ONSH
Proposed Budget: 0
AWP Completion Date: 10262000
Revised Due Date: Not reported
Comments Date: 10262000
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01420124
Activity: RIFS
Activity Name: REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code: ONSH
Proposed Budget: 0
AWP Completion Date: 05232000
Revised Due Date: Not reported
Comments Date: 05232000
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP

FLEET INDUSTRIAL SUPPLY CENTER, OAKLAND (Continued) **S105418623**

Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01420124
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	OFFSH
Proposed Budget:	0
AWP Completion Date:	06241999
Revised Due Date:	Not reported
Comments Date:	06241999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01420124
Activity:	CERFA
Activity Name:	COMMUNITY ENVIRONMENTAL RESPONSE FACILITATION ACT
AWP Code:	FISCO
Proposed Budget:	0
AWP Completion Date:	02281997
Revised Due Date:	Not reported
Comments Date:	02281997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0

FLEET INDUSTRIAL SUPPLY CENTER, OAKLAND (Continued) **S105418623**

For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01420124
Activity: FOSL
Activity Name: FINDING OF SUITABILITY TO LEASE
AWP Code: LS4/5
Proposed Budget: 0
AWP Completion Date: 06201996
Revised Due Date: Not reported
Comments Date: 06201996
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 212
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01420124
Activity: RA
Activity Name: REMOVAL ACTION
AWP Code: 740
Proposed Budget: 0
AWP Completion Date: 12051996
Revised Due Date: Not reported
Comments Date: 12051996
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 50
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: N
Activity Comments: PETROLEUM AND SOLVENT CONTAMINATED SOIL WAS EXCAVATED FROM UST 740. EXCAVATED WAS FIRST STORED IN COVERED ROLL-OFF BINS AND THEN SHIPPED OFF-SITE AND DISPOSED OF AT A PERMITTED FACILITY.
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01420124
Activity: RA
Activity Name: REMOVAL ACTION
AWP Code: 6 STS

FLEET INDUSTRIAL SUPPLY CENTER, OAKLAND (Continued) **S105418623**

Proposed Budget: 0
AWP Completion Date: 08061996
Revised Due Date: Not reported
Comments Date: 08061996
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 1075
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: N
Activity Comments: SOIL CONTAMINATED WITH PCBS, BIS (2-ETHYLHEXYL)PHTHALATE, AND POLYCHLORINATED BIPHENYL WERE EXCAVATED FROM LOT 111612,642,643,644, BLDG 511-E,710.EXCAVATED SOILS SHIPPED TO PERMITTED FACILITY.
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01420124
Activity: FOSL
Activity Name: FINDING OF SUITABILITY TO LEASE
AWP Code: LS3B
Proposed Budget: 0
AWP Completion Date: 03291996
Revised Due Date: Not reported
Comments Date: 03291996
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01420124
Activity: BWEBS
Activity Name: BASEWIDE ENVIRONMENTAL BASELINE SURVEY
AWP Code: 526AC
Proposed Budget: 0
AWP Completion Date: 03281996
Revised Due Date: Not reported
Comments Date: 03281996
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported

FLEET INDUSTRIAL SUPPLY CENTER, OAKLAND (Continued) **S105418623**

Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01420124
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	NARAP
Proposed Budget:	0
AWP Completion Date:	12011995
Revised Due Date:	Not reported
Comments Date:	12011995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01420124
Activity:	FOSL
Activity Name:	FINDING OF SUITABILITY TO LEASE
AWP Code:	L2A3A
Proposed Budget:	0
AWP Completion Date:	10311995
Revised Due Date:	Not reported
Comments Date:	10311995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported

FLEET INDUSTRIAL SUPPLY CENTER, OAKLAND (Continued) **S105418623**

For Commercial Reuse: 0
For Industrial Reuse: 190
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01420124
Activity: RA
Activity Name: REMOVAL ACTION
AWP Code: STORM
Proposed Budget: 0
AWP Completion Date: 05301995
Revised Due Date: Not reported
Comments Date: 05301995
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01420124
Activity: FOSL
Activity Name: FINDING OF SUITABILITY TO LEASE
AWP Code: LS2
Proposed Budget: 0
AWP Completion Date: 05051995
Revised Due Date: Not reported
Comments Date: 05051995
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 25
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01420124
Activity: PEA
Activity Name: PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code: ESI
Proposed Budget: 0

FLEET INDUSTRIAL SUPPLY CENTER, OAKLAND (Continued) **S105418623**

AWP Completion Date:	04301995
Revised Due Date:	Not reported
Comments Date:	04301995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01420124
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	645
Proposed Budget:	0
AWP Completion Date:	07191995
Revised Due Date:	Not reported
Comments Date:	07191995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	REMOVED APPROXIMATELY 4 INCHES OF SOIL CONTAMINATED WITH SPENT SAND-BLAST ABRASIVE AND ASSOCIATED METALS.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01420124
Activity:	FOSL
Activity Name:	FINDING OF SUITABILITY TO LEASE
AWP Code:	LS1
Proposed Budget:	0
AWP Completion Date:	01311995
Revised Due Date:	Not reported
Comments Date:	01311995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE

FLEET INDUSTRIAL SUPPLY CENTER, OAKLAND (Continued) **S105418623**

Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 76
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01420124
Activity: RA
Activity Name: REMOVAL ACTION
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: 09011994
Revised Due Date: Not reported
Comments Date: 09011994
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 280
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: N
Activity Comments: EXCAVATE AND DISPOSE SOIL CONTAINING PCBS AND LEAD TO AN OFF-SITE CLASS I LANDFILL.
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01420124
Activity: PPP
Activity Name: PUBLIC PARTICIPATION PLAN
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: 10281993
Revised Due Date: Not reported
Comments Date: 10281993
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0

FLEET INDUSTRIAL SUPPLY CENTER, OAKLAND (Continued) **S105418623**

For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01420124
Activity:	SS
Activity Name:	SITE SCREENING
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	06161988
Revised Due Date:	Not reported
Comments Date:	06161988
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01420124
Activity:	SS
Activity Name:	SITE SCREENING
AWP Code:	NSC
Proposed Budget:	0
AWP Completion Date:	04031987
Revised Due Date:	Not reported
Comments Date:	04031987
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01420124
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	BSWD
Proposed Budget:	0
AWP Completion Date:	06302005

FLEET INDUSTRIAL SUPPLY CENTER, OAKLAND (Continued) **S105418623**

Revised Due Date: 06302007
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01420124
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: BASWD
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 05071999
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01420124
Activity: CEQA
Activity Name: CEQA INCLUDING NEGATIVE DECS
AWP Code: 740
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 12011995
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0

FLEET INDUSTRIAL SUPPLY CENTER, OAKLAND (Continued) **S105418623**

Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01420124
Activity: CEQA
Activity Name: CEQA INCLUDING NEGATIVE DECS
AWP Code: LT645
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 11161994
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01420124
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: FFA
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 09291992
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0

FLEET INDUSTRIAL SUPPLY CENTER, OAKLAND (Continued) **S105418623**

Alternate Address: 531 ACRES; EASTERN SHORE OF THE SF BAY
Alternate City,St,Zip: OAKLAND, CA 94625
Alternate Address: 541 ACRES; EASTERN SHORE OF THE SF BAY
Alternate City,St,Zip: OAKLAND, CA 94625
Alternate Address: PORT OF OAKLAND 530 WATER STREET, 2 FLR
Alternate City,St,Zip: OAKLAND, CA 94607
Background Info: Fleet and Industrial Supply Center Oakland (FISCO) is a former Navy facility that provided supplies and support services to fleet units and shore activities. The Navy established the site as the Naval Supply Depot in December 1941. Between 1990 and 1992, the Navy identified 99 potential sites of contamination. 25 of the potential sites were identified as Installation Restoration Sites for additional investigation and potential cleanup activities. Of those 25 sites, 11 sites were recommended for no further action and subsequently approved as no action sites in 1995. Of the remaining 14 installation Restoration sites, 4 were designated as no further action sites as a result of removal actions or investigation results and 10 were investigated further as part of the phase II Remedial Investigation. The remedial repsonse strategy implemented at FISCO has mirrored the Environmental Protection Agency's Superfund Accelerated Cleanup Model approach. This strategy has included the early identification and removal of contaminated media that pose risks to human health or the environment, or are sources of groundwater contamination. 4 removal actions have taken place at FISCO to address soil contamination and sources of groundwater contamin- ation. As a result of the early identification and removal strategy, no remaining areas of soil or ground water contamination require cleanup to reduce risks to human health or the environ- ment. On September 30, 1998, FISCO was disestablished as scheduled under the Defense Base Closure and Realignment Act of 1993. Governor Gray Davis determined that 201 acres of FISCO property are suitable for early transfer in May 1999. The Navy completed the transfer of the entire 531 acres of the former FISCO property to the Port of Oakland in June 1999. The area will be developed for intermodal marine terminal, railroad and truck cargo activities in accordance with the Vision 2000 Program.
Comments Date: 09261981
Comments: 6/82): Violations include hazardous waste stored longer than one
Comments Date: 09261981
Comments: year without written approval, damaged storage containers, and i
Comments Date: 09261981
Comments: nadequate separation of incompatible wastes. On 2/4/83, letter
Comments Date: 09261981
Comments: from Dept of Navy to DHS: Contract with IT Corp for handling & di
Comments Date: 09261981
Comments: sposal of all hazardous wastes required to cancel ISD. On 3/01/
Comments Date: 09261981
Comments: 84: Preliminary Assessment: 1980 Incident - seventy-five gallons
Comments Date: 09261981
Comments: of PCB-oil drained off paved area into drainage ditch on west si
Comments Date: 09261981
Comments: te, several miles from open waters of the bay on Oakland inner ha
Comments Date: 09261981
Comments: rbor. Clean-up done by Navy contractor. Sources of Activity - s
Comments Date: 09261981
Comments: torage area & old transformer storage area; transformers at lot 7
Comments Date: 09261981

FLEET INDUSTRIAL SUPPLY CENTER, OAKLAND (Continued) S105418623

Comments: 10. Records Search - 02-17-83 DHS letter to Captain Plante; w
Comments Date: 09261981
Comments: aste stored in drums, uncovered bags, no berms around waste. DHS
Comments Date: 09261981
Comments: has scheduled a second inspection. Preliminary Assessment (RCR
Comments Date: 09261981
Comments: A 3012) submitted to EPA.
Comments Date: 10041994
Comments: Name Change - Historically, this site has been referenced
Comments Date: 10041994
Comments: as the Oakland Naval Supply Center (NSC)
Comments Date: 10262000
Comments: RAP - ONSH -- Completion of the Remedial Action Plan for the Onsh
Comments Date: 10262000
Comments: ore Operable Unit.
Comments Date: 10281993
Comments: PPP -- The Public Participation Plan (PPP) has been reviewed and
Comments Date: 10281993
Comments: approved by the Department’s Regional Project Manager and Public
Comments Date: 10281993
Comments: Participation Specialist on October 28, 1993.
Comments Date: 11161994
Comments: CEQA - LT645 -- A CEQA package was prepared and approved for the
Comments Date: 11161994
Comments: Removal Action at Lot 645. 200 cubic yards of soil containing sa
Comments Date: 11161994
Comments: ndblast grit and associated metals will be removed.
Comments Date: 12011995
Comments: CEQA 740 CEQA for Removal Action at Building 740.
Comments Date: 01311991
Comments: This is the date the site was first listed pursuant to
Comments Date: 01311991
Comments: section 25356.
Comments Date: 01311991
Comments: Soils are stained with oily waste and paint. One site is
Comments Date: 01311991
Comments: contaminated with PCB.
Comments Date: 02022001
Comments: DEED - BSWD -- Completion of the Land Use Covenant as required
Comments Date: 02022001
Comments: by the Remedial Action Plan for the Onshore Operable Unit.
Comments Date: 02022001
Comments: Not reported
Comments Date: 04301995
Comments: PEA ESI 04-30-1995 Expanded Site Investigation to complete PA/
Comments Date: 04301995
Comments: SI and bring all investigation activities to the same level prior
Comments Date: 04301995
Comments: to Phase I RI.
Comments Date: 05071999
Comments: Completion of a Consent Agreement of the early transfer of 201 ac
Comments Date: 05071999
Comments: res of FISCO property.
Comments Date: 05232000
Comments: Completion of the Remedial Investigation Report and Feasibility S
Comments Date: 05232000
Comments: tudy Report for the Onshore Operable Unit.

FLEET INDUSTRIAL SUPPLY CENTER, OAKLAND (Continued) **S105418623**

Comments Date: 05301995
Comments: RA STORM Emergency removal action to clean out storm drain catch
Comments Date: 05301995
Comments: basins in the vicinity of Installation Restoration sites in order
Comments Date: 05301995
Comments: to minimize transport of contaminants to San Francisco Bay. Volu
Comments Date: 05301995
Comments: me Treated, Stabilized, or Disposed: 42 cu yards 21,000 gallons.
Comments Date: 06161988
Comments: Site Screening Done: Site is within recognized seismic activity r
Comments Date: 06161988
Comments: egion. There are twenty underground fuel tanks on site. Ten are a
Comments Date: 06161988
Comments: ctive. Dept of Navy has conducted a Preliminary Assessment; conta
Comments Date: 06161988
Comments: minants unknown.
Comments Date: 06241999
Comments: RAP - OFFSH -- DTSC, RWQCB and the Port of Oakland signed the Off
Comments Date: 06241999
Comments: shore Sediment OU RAP.
Comments Date: 07191995
Comments: RA 645 Remove approximately 4 inches of soil contaminated with sp
Comments Date: 07191995
Comments: ent sand-blast abrasive and associated metals.
Comments Date: 09011994
Comments: This removal action is to excavate and dispose soil contain- ing
Comments Date: 09011994
Comments: polychlorinated biphenyls (PCB) and lead to an off site class 1 l
Comments Date: 09011994
Comments: andfill. The estimated volume of removal of PCB - contaminated s
Comments Date: 09011994
Comments: oil is approximately 117 cubic yards and resulted in about 150 cu
Comments Date: 09011994
Comments: bic yards of lead - contaminated soil being excavated and dispose
Comments Date: 09011994
Comments: d of.
Comments Date: 09261981
Comments: NSC: Facility identified from EPA Superfund List. Some leakage
Comments Date: 09261981
Comments: may have occurred. On 10/02/81 site referred to HMMS/Enforcemen
Comments Date: 09261981
Comments: t. On 11/11/82, DHS Region 2 ISD Compliance Inspection (also 11/1
ID Name: EPA IDENTIFICATION NUMBER
ID Value: CA4170090027
ID Name: BEP DATABASE PCODE
ID Value: P23044
Alternate Name: OAKLAND NAVAL SUPPLY CENTER (NSC)
Alternate Name: NAVAL SUPPLY CENTER OAKLAND
Alternate Name: FLEET INDUSTRIAL SUPPLY CENTER, OAKLAND
Alternate Name: Not reported
Special Programs Code: R3012
Special Programs Name: RCRA 3012
Special Programs Code: DSMOA
Special Programs Name: DEFENSE MEMORANDUM OF AGREEMENT

177 **ESE** **1/2-1** **0.777 mi.** **4103 ft.** **Relative:** **Higher** **Actual:** **14 ft.**	**CONDON FREIGHT** **324 UNION ST** **OAKLAND, CA 94607**	**CA ENVIROSTOR** **CA LUST** **CA Alameda County CS** **CA VCP** **CA SWEEPS UST** **CA HIST UST** **CA FID UST** **CA HIST CORTESE** **CA CERS**	**1000191295** **N/A**

ENVIROSTOR:

Facility ID:	1420126
Status:	No Further Action
Status Date:	10/01/1998
Site Code:	200465
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	1.4
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Lynn Nakashima
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.8017
Longitude:	-122.2913
APN:	NONE SPECIFIED
Past Use:	VEHICLE MAINTENANCE
Potential COC:	* HYDROCARBON SOLVENTS * CONTAMINATED SOIL Arsenic Lead Cadmium and compounds
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

LUST:

CONDON FREIGHT (Continued) **1000191295**

Lead Agency: ALAMEDA COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101200
Global Id: T0600101200
Latitude: 37.8020027
Longitude: -122.2912125
Status: Completed - Case Closed
Status Date: 11/06/1997
Case Worker: Not reported
RB Case Number: 01-1305
Local Agency: Not reported
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: RO0000989
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:
Global Id: T0600101200
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600101200
Action Type: Other
Date: 04/12/1993
Action: Leak Reported

Global Id: T0600101200
Action Type: REMEDIATION
Date: 05/05/1993
Action: Excavation

LUST:
Global Id: T0600101200
Status: Completed - Case Closed
Status Date: 11/06/1997

Global Id: T0600101200
Status: Open - Case Begin Date
Status Date: 04/12/1993

LUST REG 2:
Region: 2
Facility Id: 01-1305
Facility Status: Case Closed
Case Number: 1741
How Discovered: Subsurface Monitoring
Leak Cause: UNK
Leak Source: UNK

CONDON FREIGHT (Continued) **1000191295**

Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 6/14/1995
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Case Closed
Record Id: RO0000989
PE: 5602
Facility Status: Case Closed
Latitude: 37.801672502
Longitude: -122.29114611

VCP:
Facility ID: 1420126
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1.4
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Lynn Nakashima
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Site Code: 200465
Assembly: 18
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: No Further Action
Status Date: 10/01/1998
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.8017 / -122.2913
APN: NONE SPECIFIED
Past Use: VEHICLE MAINTENANCE
Potential COC: 10009, 10097, 30001, 30013, 30108
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported

CONDON FREIGHT (Continued) **1000191295**

Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SWEEPS UST:

Status:	Not reported
Comp Number:	42073
Number:	Not reported
Board Of Equalization:	44-000414
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	01-000-042073-000001
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	DIESEL
Number Of Tanks:	5

Status:	Not reported
Comp Number:	42073
Number:	Not reported
Board Of Equalization:	44-000414
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	01-000-042073-000002
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	DIESEL
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	42073
Number:	Not reported
Board Of Equalization:	44-000414
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	01-000-042073-000003
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	OIL
STG:	PRODUCT
Content:	NEW MOTOR OIL

CONDON FREIGHT (Continued) **1000191295**

Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	42073
Number:	Not reported
Board Of Equalization:	44-000414
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	01-000-042073-000004
Tank Status:	Not reported
Capacity:	500
Active Date:	Not reported
Tank Use:	OIL
STG:	WASTE
Content:	WASTE OIL
Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	42073
Number:	Not reported
Board Of Equalization:	44-000414
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	01-000-042073-000005
Tank Status:	Not reported
Capacity:	500
Active Date:	Not reported
Tank Use:	PETROLEUM
STG:	PRODUCT
Content:	STODDARD SOL
Number Of Tanks:	Not reported

HIST UST:

File Number:	000364C4
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000364C4.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported

CONDON FREIGHT (Continued) **1000191295**

Leak Detection: Not reported

Click here for Geo Tracker PDF:

CA FID UST:

Facility ID:	01000581
Regulated By:	UTNKA
Regulated ID:	00042073
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4157636628
Mail To:	Not reported
Mailing Address:	324 UNION ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	OAKLAND 94607
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

HIST CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	CALSI
Reg Id:	01420126

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1305

CERS TANKS:

Site ID:	227709
CERS ID:	T0600101200
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

AM178 **NE** **1/2-1** **0.777 mi.** **4103 ft.**	**BNSF WOOD STREET YARD** **WOOD STREET & WEST GRAND AVENUE** **OAKLAND, CA 94607** **Site 1 of 3 in cluster AM**	**CA RESPONSE** **CA ENVIROSTOR** **CA HIST Cal-Sites** **CA DEED**	**S106568694** **N/A**

Relative:
Lower

Actual:
10 ft.

AWP:
AWP Facility ID: 01400017
Region Code: 2
Region: BERKELEY
SMBR Branch Code: NC
SMBR Branch Unit: NORTH COAST
Site Name.: Not reported
Current Status Date: 07202004
Current Status: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency Code: DTSC
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type: responsible party
Awp Site Type: RESPONSIBLE PARTY
NPL: Not Listed
Tier Of AWP Site: Not reported
Source Of Funding: Not reported
Responsible Staff Member: EGILLERA
Supervisor Responsible: Not reported
SIC Code: 40
Facility SIC: RAILROAD TRANSPORTATION
RWQCB Code: SF
RWQCB Associated With Site: SAN FRANCISCO BAY
Site Access Controlled: Not reported
Site Listed HWS List: Not reported
Hazard Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Not reported
Of Contamination Sources: 0
Lat/Long: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Description Of Entity: Not reported
State Assembly Distt Code: 16
State Senate District: 09

RESPONSE:
Facility ID: 1400017
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: 0.03
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Claude Jemison
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Site Code: 201016
Site Mgmt. Req.: DAY, ELD, HOS, EX, OIL, NOWN, NDEV, NSUB, HS, SCH, FOOD, RES
Assembly: 18
Senate: 09
Special Program Status: Not reported
Status: Certified O&M - Land Use Restrictions Only
Status Date: 06/28/2006

BNSF WOOD STREET YARD (Continued) **S106568694**

Restricted Use: YES
Funding: Responsible Party
Latitude: 37.81924
Longitude: -122.2937
APN: 007-0581-010-00, 024 053600100, 501-42-2, 50142-2
Past Use: RAILROAD RIGHT OF WAY
Potential COC : Arsenic TPH-diesel
Confirmed COC: TPH-diesel Arsenic
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 1400017
Status: Certified O&M - Land Use Restrictions Only
Status Date: 06/28/2006
Site Code: 201016
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 0.03
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Claude Jemison
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Not reported
Restricted Use: YES
Site Mgmt Req: DAY, ELD, HOS, EX, OIL, NOWN, NDEV, NSUB, HS, SCH, FOOD, RES
Funding: Responsible Party
Latitude: 37.81924
Longitude: -122.2937
APN: 007-0581-010-00, 024 053600100, 501-42-2, 50142-2
Past Use: RAILROAD RIGHT OF WAY
Potential COC: Arsenic TPH-diesel
Confirmed COC: TPH-diesel Arsenic
Potential Description: SOIL
Alias Name: Not reported

BNSF WOOD STREET YARD (Continued) **S106568694**

Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Calsite:
Region: BERKELEY
Facility ID: 01400017
Facility Type: RP
Type: RESPONSIBLE PARTY
Branch: NC
Branch Name: NORTH COAST
File Name: Not reported
State Senate District: 07202004
Status: ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
NPL: Not Listed
SIC Code: 40
SIC Name: RAILROAD TRANSPORTATION
Access: Not reported
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Not reported
Staff Member Responsible for Site: EGILLERA
Supervisor Responsible for Site: Not reported
Region Water Control Board: SF
Region Water Control Board Name: SAN FRANCISCO BAY
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 16
State Senate District Code: 09
Facility ID: Not reported
Activity: Not reported
Activity Name: Not reported
AWP Code: Not reported
Proposed Budget: Not reported
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: Not reported

BNSF WOOD STREET YARD (Continued) **S106568694**

Est Person-Yrs to complete: Not reported
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: Not reported
Definition of Status: Not reported
Liquids Removed (Gals): Not reported
Liquids Treated (Gals): Not reported
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: Not reported
For Industrial Reuse: Not reported
For Residential Reuse: Not reported
Unknown Type: Not reported
Alternate Address: WOOD STREET & WEST GAND AVENUE
Alternate City,St,Zip: OAKLAND, CA 94607
Background Info: Subject site consists of two (2) parcels; both parcels were part of an active railyard from approximately the 1930’s through the early 1990’s. Portions of the site have been incorporated with the Cypress Freeway reconstruction project.
Comments Date: Not reported
Comments: Not reported
ID Name: CALSTARS CODE
ID Value: 201016
Alternate Name: BNSF WOOD STREET YARD
Alternate Name: Not reported
Special Programs Code: Not reported
Special Programs Name: Not reported

DEED:
Envirostor ID: 1400017
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: STATE RESPONSE
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 06/01/2006
File Name: Envirostor Land Use Restrictions

AM179 **LDS TRUCKING** **CA ENVIROSTOR** **S102008225**
NE **2233 WOOD STREET** **CA VCP** **N/A**
1/2-1 **OAKLAND, CA 94607**
0.792 mi.
4182 ft. **Site 2 of 3 in cluster AM**

Relative:
Lower

Actual:
10 ft.

ENVIROSTOR:
Facility ID: 1420127
Status: Certified
Status Date: 07/07/2008
Site Code: 200456
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 1.25
NPL: NO

LDS TRUCKING (Continued) **S102008225**

Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.82024
Longitude:	-122.2926
APN:	NONE SPECIFIED
Past Use:	RETAIL - SERVICE STATION
Potential COC:	Lead TPH-gas
Confirmed COC:	Lead TPH-gas
Potential Description:	OTH, SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

VCP:

Facility ID:	1420127
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1.25
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Site Code:	200456
Assembly:	18
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified
Status Date:	07/07/2008

LDS TRUCKING (Continued) **S102008225**

Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.82024 / -122.2926
APN:	NONE SPECIFIED
Past Use:	RETAIL - SERVICE STATION
Potential COC:	30013, 30025
Confirmed COC:	30013,30025
Potential Description:	OTH, SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

180
SE
1/2-1
0.793 mi.
4188 ft.

AMTRAK MAINTENANCE FACILITY
3RD & UNION STREETS
OAKLAND, CA 94607

CA ENVIROSTOR
CA VCP
CA DEED

S104549015
N/A

Relative:
Lower

Actual:
12 ft.

ENVIROSTOR:

Facility ID:	1400014
Status:	Certified / Operation & Maintenance
Status Date:	06/30/2011
Site Code:	201301
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	18
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Claude Jemison
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Voluntary Cleanup Program
Restricted Use:	YES
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.80138
Longitude:	-122.2913
APN:	000-0390-003, 000-0390-005, 000-0390-006, 000-0390-010-3, 004-0025-008, 004-0025-009

AMTRAK MAINTENANCE FACILITY (Continued) **S104549015**

Past Use: RAIL ROAD MAINTENANCE SHOP, RAILROAD RIGHT OF WAY
Potential COC: Arsenic Lead TPH-diesel TPH-MOTOR OIL PCBs (unspeciated mixture, high risk, e.g. Aroclor 1254 Polynuclear aromatic hydrocarbons (PAHs
Confirmed COC: Arsenic Lead PCBs (unspeciated mixture, high risk, e.g. Aroclor 1254 Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-MOTOR OIL
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Facility ID: 1400014
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 18
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Claude Jemison
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Site Code: 201301
Assembly: 18
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified / Operation & Maintenance
Status Date: 06/30/2011
Restricted Use: YES
Funding: Responsible Party
Lat/Long: 37.80138 / -122.2913
APN: 000-0390-003, 000-0390-005, 000-0390-006, 000-0390-010-3, 004-0025-008, 004-0025-009
Past Use: RAIL ROAD MAINTENANCE SHOP, RAILROAD RIGHT OF WAY
Potential COC: 30001, 30013, 30024, 3002502, 30470, 30472
Confirmed COC: 30001,30013,30470,30472,30024,3002502
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

AMTRAK MAINTENANCE FACILITY (Continued) **S104549015**

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

DEED:

Envirostor ID:	1400014
Area:	PROJECT WIDE
Sub Area:	Not reported
Site Type:	VOLUNTARY CLEANUP
Status:	CERTIFIED / OPERATION & MAINTENANCE
Agency:	Not reported
Covenant Uploaded:	Not reported
Deed Date(s):	06/30/2011
File Name:	Envirostor Land Use Restrictions

AM181 **ARMY-NAVY DISTRIBUTING CENTER (J09CA0753)** **CA ENVIROSTOR** **S109348517**
NE **2233 WOOD STREET** **N/A**
1/2-1 **EMERYVILLE, CA 94608**
0.799 mi.
4218 ft. **Site 3 of 3 in cluster AM**

Relative:
Lower

Actual:
10 ft.

ENVIROSTOR:

Facility ID:	80000374
Status:	No Further Action
Status Date:	06/30/2008
Site Code:	201753
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	3.08
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Carrie Tatoian-Cain
Supervisor:	Charles Ridenour
Division Branch:	Cleanup Sacramento
Assembly:	18
Senate:	09
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	37.82027
Longitude:	-122.2925
APN:	NONE SPECIFIED

ARMY-NAVY DISTRIBUTING CENTER (J09CA0753) (Continued) **S109348517**

Past Use:	TRANSPORTATION - WAREHOUSING
Potential COC:	NONE SPECIFIED No Contaminants found
Confirmed COC:	No Contaminants found
Potential Description:	NMA
Alias Name:	CA99799F569600
Alias Type:	Federal Facility ID
Alias Name:	J09CA0753
Alias Type:	INPR
Alias Name:	201753
Alias Type:	Project Code (Site Code)
Alias Name:	80000374
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	06/26/2008
Comments:	DTSC concurred No Action is required. In the event new information indicates DoD activities have impacted the environment during DoD past ownership and operation, DTSC reserves the right to require additional investigation.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

AN182 **MANDELA PARKWAY CORRIDOR** **CA ENVIROSTOR** **S116165227**
ENE **MANDELA PARKWAY BETWEEN 34TH AND 8TH STS** **CA VCP** **N/A**
1/2-1 **OAKLAND, CA 94607**
0.828 mi.
4372 ft. **Site 1 of 2 in cluster AN**

Relative:
Lower

Actual:
11 ft.

ENVIROSTOR:

Facility ID:	1410118
Status:	Certified
Status Date:	06/28/2007
Site Code:	201078
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	10.3
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED

MANDELA PARKWAY CORRIDOR (Continued) **S116165227**

Funding:	Responsible Party
Latitude:	37.81662
Longitude:	-122.2894
APN:	NONE SPECIFIED
Past Use:	HIGHWAY RIGHT-OF-WAY
Potential COC:	Lead TPH-MOTOR OIL
Confirmed COC:	Lead TPH-MOTOR OIL
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

VCP:

Facility ID:	1410118
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	10.3
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Site Code:	201078
Assembly:	18
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified
Status Date:	06/28/2007
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.81662 / -122.2894
APN:	NONE SPECIFIED
Past Use:	HIGHWAY RIGHT-OF-WAY
Potential COC:	30013, 3002502
Confirmed COC:	30013,3002502
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

MANDELA PARKWAY CORRIDOR (Continued) **S116165227**

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

---

183 **SSE** **1/2-1** **0.829 mi.** **4377 ft.** **Relative:** **Lower** **Actual:** **8 ft.**	**SHEREX CHEMICAL COMPANY INC** **1401 MIDDLE HARBOR RD** **OAKLAND, CA 94607**	**SEMS-ARCHIVE** **CA ENVIROSTOR** **CA CPS-SLIC** **CA SWEEPS UST** **CA HIST UST** **CA FID UST** **RCRA NonGen / NLR** **FINDS** **ECHO** **CA HIST CORTESE**	**1000356959** **CAD990788168**

SEMS Archive:
Site ID: 0903629
EPA ID: CAD990788168
Cong District: 08
FIPS Code: 06001
FF: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information
Latitude: 37.808333
Longitude: -122.288333

SEMS Archive Detail:
Region: 09
Site ID: 0903629
EPA ID: CAD990788168
Site Name: SHEREX CHEM CO
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1989-07-05 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 09
Site ID: 0903629
EPA ID: CAD990788168

SHEREX CHEMICAL COMPANY INC (Continued) **1000356959**

Site Name: SHEREX CHEM CO
NPL: N
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1987-12-01 05:00:00
Finish Date: 1987-12-01 05:00:00
Qual: Not reported
Current Action Lead: St Perf

Region: 09
Site ID: 0903629
EPA ID: CAD990788168
Site Name: SHEREX CHEM CO
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 1989-07-05 04:00:00
Qual: N
Current Action Lead: St Perf

ENVIROSTOR:
Facility ID: 1730096
Status: Refer: Local Agency
Status Date: 09/17/2009
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 5.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Denise Tsuji
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: EPA - PASI
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: EPA Grant
Latitude: 37.79747
Longitude: -122.2981
APN: NONE SPECIFIED
Past Use: MANUFACTURING - CHEMICALS
Potential COC: * ORGANIC LIQUIDS WITH METALS * CONTAMINATED SOIL * DETERGENT & SOAP * WASTE OIL & MIXED OIL * ALKALINE SOLUTION 2<PH<12.5, WITH METALS * OTHER INORGANIC SOLID WASTE Lead Cadmium and compounds Chromium VI Nickel
Confirmed COC: NONE SPECIFIED

SHEREX CHEMICAL COMPANY INC (Continued) **1000356959**

Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SLIC REG 2:
Region: 2
Facility ID: 01S0085
Facility Status: Preliminary site assessment underway
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: 6/16/1994
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SWEEPS UST:
Status: Not reported
Comp Number: 59372
Number: Not reported
Board Of Equalization: 44-000592
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-000-059372-000001
Tank Status: Not reported
Capacity: 12000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: 2

Status: Not reported

SHEREX CHEMICAL COMPANY INC (Continued) **1000356959**

Comp Number:	59372
Number:	Not reported
Board Of Equalization:	44-000592
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	01-000-059372-000002
Tank Status:	Not reported
Capacity:	550
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	LEADED
Number Of Tanks:	Not reported

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000059372
Facility Type:	Other
Other Type:	MANUFACTURING
Contact Name:	R.W. FISHER, PLT MGR/F.W. TREF
Telephone:	4158323882
Owner Name:	SHEREX CHEMICAL COMPANY, INC.
Owner Address:	1401 MIDDLE HARBOR ROAD
Owner City,St,Zip:	OAKLAND, CA 94607
Total Tanks:	0002

Tank Num:	001
Container Num:	U1
Year Installed:	1935
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Tank Num:	002
Container Num:	U2
Year Installed:	Not reported
Tank Capacity:	00000550
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Visual

CA FID UST:

Facility ID:	01002240
Regulated By:	UTNKI
Regulated ID:	00059372
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4158323882
Mail To:	Not reported

SHEREX CHEMICAL COMPANY INC (Continued) **1000356959**

Mailing Address:	1401 MIDDLE HARBOR RD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	OAKLAND 94607
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

RCRA NonGen / NLR:

Date form received by agency:	08/18/1980
Facility name:	SHEREX CHEMICAL COMPANY INC
Facility address:	1401 MIDDLE HARBOR RD OAKLAND, CA 94607
EPA ID:	CAD990788168
Mailing address:	PO BOX 599 OAKLAND, CA 94604
Contact:	ENVIRONMENTAL MANAGER
Contact address:	1401 MIDDLE HARBOR RD OAKLAND, CA 94607
Contact country:	US
Contact telephone:	415-832-3882
Contact email:	Not reported
EPA Region:	09
Land type:	Other land type
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	ASAG INC
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

SHEREX CHEMICAL COMPANY INC (Continued) **1000356959**

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date:	11/22/1985
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	12/12/1983
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	EPA

FINDS:

Registry ID: 110002903733

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000356959
Registry ID:	110002903733
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002903733

HIST CORTESE:

Region:	CORTESE
Facility County Code:	1

SHEREX CHEMICAL COMPANY INC (Continued) **1000356959**

Reg By: CALSI
Reg Id: 01730096

184
West
1/2-1
0.835 mi.
4409 ft.

C-103 YARD
2700 7TH STEET
OAKLAND, CA 92626

CA Notify 65 **S100178868**
N/A

Relative:
Lower

Actual:
8 ft.

NOTIFY 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported

AN185
ENE
1/2-1
0.839 mi.
4431 ft.

MANDELA GRAND
MANDELA PARKWAY AND WEST GRAND
OAKLAND, CA 94607

Site 2 of 2 in cluster AN

CA ENVIROSTOR **S108195929**
CA VCP **N/A**

Relative:
Lower

Actual:
11 ft.

ENVIROSTOR:
Facility ID: 60000433
Status: Inactive - Needs Evaluation
Status Date: 08/05/2009
Site Code: 201723
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 13.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Juanita (Nina) Bacey
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.81573
Longitude: -122.2888
APN: 005-040-0001-01, 005-040-1001-04, 005-040-2004-02, 005-040-2005-02, 005-040-2006-00, 005-041-9001-04, 005-042-0001-03, 005-042-0001-05
Past Use: MANUFACTURING - METAL, RETAIL - SERVICE STATION
Potential COC: Lead TPH-diesel TPH-gas TPH-MOTOR OIL Cadmium and compounds
Confirmed COC: 30024-NO 30025-NO 30108-NO 30013-NO 3002502-NO
Potential Description: SOIL
Alias Name: American Steel
Alias Type: Alternate Name
Alias Name: Pacific Pipe
Alias Type: Alternate Name

MANDELA GRAND (Continued) **S108195929**

Alias Name: 005-040-0001-01
Alias Type: APN
Alias Name: 005-040-1001-04
Alias Type: APN
Alias Name: 005-040-2004-02
Alias Type: APN
Alias Name: 005-040-2005-02
Alias Type: APN
Alias Name: 005-040-2006-00
Alias Type: APN
Alias Name: 005-041-9001-04
Alias Type: APN
Alias Name: 005-042-0001-03
Alias Type: APN
Alias Name: 005-042-0001-05
Alias Type: APN
Alias Name: 110033608549
Alias Type: EPA (FRS #)
Alias Name: 201723
Alias Type: Project Code (Site Code)
Alias Name: 60000433
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Facility ID: 60000433
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 13.5
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Juanita (Nina) Bacey
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 201723
Assembly: 18
Senate: 09
Special Programs Code: Voluntary Cleanup Program

MANDELA GRAND (Continued) **S108195929**

Status: Inactive - Needs Evaluation
Status Date: 08/05/2009
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.81573 / -122.2888
APN: 005-040-0001-01, 005-040-1001-04, 005-040-2004-02, 005-040-2005-02, 005-040-2006-00, 005-041-9001-04, 005-042-0001-03, 005-042-0001-05
Past Use: MANUFACTURING - METAL, RETAIL - SERVICE STATION
Potential COC: 30013, 30024, 30025, 3002502, 30108
Confirmed COC: 30024-NO,30025-NO,30108-NO,30013-NO,3002502-NO
Potential Description: SOIL
Alias Name: American Steel
Alias Type: Alternate Name
Alias Name: Pacific Pipe
Alias Type: Alternate Name
Alias Name: 005-040-0001-01
Alias Type: APN
Alias Name: 005-040-1001-04
Alias Type: APN
Alias Name: 005-040-2004-02
Alias Type: APN
Alias Name: 005-040-2005-02
Alias Type: APN
Alias Name: 005-040-2006-00
Alias Type: APN
Alias Name: 005-041-9001-04
Alias Type: APN
Alias Name: 005-042-0001-03
Alias Type: APN
Alias Name: 005-042-0001-05
Alias Type: APN
Alias Name: 110033608549
Alias Type: EPA (FRS #)
Alias Name: 201723
Alias Type: Project Code (Site Code)
Alias Name: 60000433
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

186	**WESTERN PACIFIC RAILROAD**	**CA ENVIROSTOR**	**S102008220**
SE	**UNION STREET**	**CA VCP**	**N/A**
1/2-1	**OAKLAND, CA 94607**	**CA DEED**	
0.859 mi.			
4538 ft.			

Relative:
Lower

Actual:
12 ft.

ENVIROSTOR:
Facility ID: 1400008
Status: Certified / Operation & Maintenance
Status Date: 06/30/2011
Site Code: 201301
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 1.4
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Claude Jemison
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Voluntary Cleanup Program
Restricted Use: YES
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.80194
Longitude: -122.2902
APN: 0-390-5
Past Use: RAIL ROAD MAINTENANCE SHOP
Potential COC: * HYDROCARBON SOLVENTS * OTHER ORGANIC SOLIDS Lead
Confirmed COC: * HYDROCARBON SOLVENTS Lead * OTHER ORGANIC SOLIDS
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Facility ID: 1400008
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1.4

WESTERN PACIFIC RAILROAD (Continued) **S102008220**

National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Claude Jemison
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Site Code:	201301
Assembly:	18
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified / Operation & Maintenance
Status Date:	06/30/2011
Restricted Use:	YES
Funding:	Responsible Party
Lat/Long:	37.80194 / -122.2902
APN:	0-390-5
Past Use:	RAIL ROAD MAINTENANCE SHOP
Potential COC:	10009, 10064, 30013
Confirmed COC:	10009,30013,10064
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

DEED:

Envirostor ID:	1400008
Area:	PROJECT WIDE
Sub Area:	Not reported
Site Type:	VOLUNTARY CLEANUP
Status:	CERTIFIED / OPERATION & MAINTENANCE
Agency:	Not reported
Covenant Uploaded:	Not reported
Deed Date(s):	06/30/2011
File Name:	Envirostor Land Use Restrictions

187 **SW** **1/2-1** **0.870 mi.** **4591 ft.**	**U.S. NAVY, FLEET AND INDUSTRIAL SUPPLY CENTER OAKL** **NAVAL SUPPLY CENTER OAKLAND** **OAKLAND, CA 94625**	**CA ENVIROSTOR**	**S110494409** **N/A**

Relative:
Lower

Actual:
7 ft.

ENVIROSTOR:

Facility ID:	71003721
Status:	Refer: Other Agency
Status Date:	Not reported
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.80208
Longitude:	-122.3178
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CA4170090027
Alias Type:	EPA Identification Number
Alias Name:	71003721
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

188 **NE** **1/2-1** **0.874 mi.** **4613 ft.**	**ARMY-NAVY DISTRIBUTING CENTER** **OAKLAND, CA**	**FUDS**	**1007211908** **N/A**

Relative:
Lower

Actual:
10 ft.

FUDS:

EPA Region:	09
Congressional District:	13
FUDS Number:	J09CA0753
State:	CA
Facility Name:	ARMY-NAVY DISTRIBUTING CENTER
Fiscal Year:	2013
City:	OAKLAND
Federal Facility ID:	CA9799F5696
Telephone:	916-557-7461
INST ID:	57292
County:	ALAMEDA
RAB:	Not reported
CORPS_DIST:	Sacramento District (SPK)
NPL Status:	Not Listed
CTC:	15
Current Owner:	Private Sector
Future Prog:	Not reported
Description:	The site is 3.08 acres and is located in the City of Oakland in Alameda County, CA. Two 10,000-gallon underground storage tanks (USTs), a pumping station, a diesel fuel dispenser, and two fill pipes were installed and used by the Santa Fe Land and Improvement Company prior to and after Department of Defense leased the property. The USTs were last used in June 1962 for diesel fuel storage and dispensing. A private individual currently owns the property and leases it to LDS Truck Lines and A.M. and S Transportation Company for use as a warehouse and truck distributing center.
Current Program:	Not reported
History:	On 15 October 1943, the War Department leased a total of 3.08 acres from the Santa Fe Land and Improvement Company. The 9th District's Transportation Officer used the site for warehousing facilities, trucking operations, and as a distribution center. The War Department terminated the lease on 15 June 1946 and the site reverted back to the Santa Fe Land and Improvement Company. In 1982 the property was sold to a private individual. There are no potential hazards related to previous DoD activities currently identified at this site.
Latitude Degree:	37
Latitude Minute:	49
Latitude Second:	13
Latitude Direction:	N
Longitude Degree:	-122
Longitude Minute:	18
Longitude Second:	33
Longitude Direction:	E

189 **NNE** **1/2-1** **0.886 mi.** **4679 ft.**	**CITY OF OAKLAND - SUBARU LOT** **WAKE AVENUE AND WEST GRAND AVENUE STREET** **OAKLAND, CA 94607**	**CA RESPONSE** **CA ENVIROSTOR** **CA DEED**	**S109034296** **N/A**

Relative:
Lower

Actual:
9 ft.

RESPONSE:

Facility ID:	80001227
Site Type:	State Response
Site Type Detail:	Closed Base
Acres:	19
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Henry Wong
Supervisor:	Daniel Murphy
Division Branch:	Cleanup Berkeley
Site Code:	201795
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	18
Senate:	09
Special Program Status:	Voluntary Cleanup Program
Status:	Certified O&M - Land Use Restrictions Only
Status Date:	05/01/2009
Restricted Use:	YES
Funding:	Other Non-Military Funds
Latitude:	37.82215
Longitude:	-122.2958
APN:	NONE SPECIFIED
Past Use:	HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, UNKNOWN, VEHICLE MAINTENANCE
Potential COC :	DDD DDE DDT Endrin Lead Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas TPH-MOTOR OIL
Confirmed COC:	DDD DDE DDT Endrin Lead Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas TPH-MOTOR OIL
Potential Description:	OTH, SOIL
Alias Name:	201795
Alias Type:	Project Code (Site Code)
Alias Name:	71000002
Alias Type:	Envirostor ID Number
Alias Name:	80001227
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	12/07/2011
Comments:	DTSC, City of Oakland, and Port of Oakland inspected the site on 3/23/11. DTSC found site activities consistent with the land use covenant.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	04/26/2012
Comments:	DTSC, City of Oakland, and Port of Oakland inspected the site on 3/20/12. DTSC found site activities consistent with the land use covenant.

CITY OF OAKLAND - SUBARU LOT (Continued) **S109034296**

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	04/24/2014
Comments:	DTSC, City of Oakland, and Port of Oakland inspected the site on 3/5/14. DTSC found site activities consistent with the land use covenant.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	06/11/2015
Comments:	DTSC, City of Oakland, and Port of Oakland inspected the site on 2/27/15.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	09/28/2009
Comments:	DTSC has determined it is most cost effective to synchronize the review of the remedy for the City of Oakland Subaru with that of the review of the remedy for the Oakland Gateway Development Area, rather than to review the remedies separately for each site. The City of Oakland is the landowner for both the Subaru Lot and the northern portion of the Oakland Gateway Development Area. Since the City of Oakland will submit the draft five-year review report for the Oakland Gateway Development Area in May 2010, it is cost effective to combine the Subaru Lot s five-year review with that of the Oakland Gateway Development Area.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	01/20/2009
Comments:	Site inspection was conducted on 1/12/09 with the following results: The Site is vacant and there are no sensitive land uses at the Site (residential housing, schools, day-care facilities, hospitals, and hospices); No Site soil has been reused or moved outside of the Site boundary; There are no new groundwater wells constructed within the last year; There is no extraction of groundwater at the Site from new or existing wells for any purpose; and No dewatering activities have occurred on the property, there have been no violations of the Covenant, and no actions were needed by the City to ensure compliance with the Covenant.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	04/20/2010
Comments:	On March 22, 2010 DTSC, City of Oakland, and Port of Oakland inspected the Subaru Lot. DTSC found site activities consistent with the land use covenant.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	07/23/2013

CITY OF OAKLAND - SUBARU LOT (Continued) **S109034296**

Comments:	DTSC, City of Oakland, and Port of Oakland inspected the site on 1/29/13. DTSC found site activities consistent with the land use covenant.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	06/02/2015
Comments:	The City of Oakland certifies compliance with the environmental restrictions as specified in the November 18, 2004 Covenant to Restrict Use of Property, Environmental Restriction for the Subaru Lot (aka Former Parcels 6 and 7, Heroic War Dead United States Army Reserve Center).
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Reports
Completed Date:	08/29/2016
Comments:	DTSC reviewed the "Second Five-Year Review for the GDA and Subaru Lot" for the Gateway Development Area (GDA) and Subaru Lot at the former Oakland Army Base. DTSC makes the following determination: DTSC finds the implemented remedies including institutional controls continue to be protective of human health and the environment as intended by the 2002 Remedial Action Plan (RAP) for GDA and the 2004 Amendment to Final Remedial Action Plan for the Subaru Lot. No change in land use of the properties has occurred or is expected to occur since the remedies were implemented. The exposure assumptions, toxicity data, cleanup levels, and remedial action objectives (RAOs) used at the time of the remedy selection are still valid. The selected remedies and implemented remedial actions have met and continue to meet the RAOs in GDA and the Subaru Lot. DTSC recommends that post-surcharge and wicking groundwater monitoring be conducted to confirm the locations of the groundwater plumes in the subject RAP Sites so that the protectiveness of the selected remedies is not compromised.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	04/24/2014
Comments:	The City of Oakland certifies compliance with the environmental restrictions as specified in the November 18, 2004 Covenant to Restrict Use of Property, Environmental Restriction for the Subaru Lot (aka Former Parcels 6 and 7, Heroic War Dead United States Army Reserve Center).
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	08/11/2010
Comments:	DTSC requested the City of Oakland to follow the Oakland Gateway Development Area’s Risk Management Plan and the August 2010 Addendum to Site Health and Safety Plan, Oakland Army Base RMP Areas 8, 10, 19/107 and 97 for the proposed sampling activity.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported

CITY OF OAKLAND - SUBARU LOT (Continued) **S109034296**

Completed Document Type: Public Notice
Completed Date: 04/24/2012
Comments: DTSC published a public notice informing the initiation of the Five-Year Review on the implemented remedies at the Gateway Development Area and the Subaru Lot. The Five-Year Review will evaluate the performance of environmental cleanup actions conducted at the site to ensure they remain protective of human health and the environment.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 12/14/2012
Comments: DTSC published a second public announcing the completion of the Five-Year Review for the Subaru Lot.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/25/2016
Comments: The City of Oakland certifies compliance with the environmental restrictions as specified in the November 18, 2004 Covenant to Restrict Use of Property, Environmental Restriction for the Subaru Lot (aka Former Parcels 6 and 7, Heroic War Dead United States Army Reserve Center).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/19/2017
Comments: The City of Oakland certifies compliance with the environmental restrictions as specified in the November 18, 2004 Covenant to Restrict Use of Property, Environmental Restriction for the Subaru Lot (aka Former Parcels 6 and 7, Heroic War Dead United States Army Reserve Center).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/26/2018
Comments: The City of Oakland certifies compliance with the environmental restrictions as specified in the November 18, 2004 Covenant to Restrict Use of Property, Environmental Restriction for the Subaru Lot (aka Former Parcels 6 and 7, Heroic War Dead United States Army Reserve Center).

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 08/22/2018
Comments: The Work Plan proposes soil sampling to access whether prior site activities have impacted the former suspect yard area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 10/18/2018

CITY OF OAKLAND - SUBARU LOT (Continued) **S109034296**

Comments: DTSC has reviewed the Work Plan and has no comment. The Work Plan addresses the removal of shallow soil impacted with arsenic at concentrations above the Remediation Goal of 20 mg/kg.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 11/18/2004
Comments: The LUC for Parcels 6 and 7, also known as the Subaru lot, was recorded with the Alameda County Assessor’s Office on 11/18/04 for 19 acres. The property is restricted to industrial or commercial use, as there is residual contamniation insconsistent with sensitive uses.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/02/2014
Comments: The estimate includes DTSC oversight activity and Terradex costs.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/20/2009
Comments: The City of Oakland submitted an Annual Certification Report on 1/13/09 certifying compliance with the Covenant to Restrict Use of Property, Environmental Restriction. Site inspection was conducted on 1/12/09 with the following results: The Site is vacant and there are no sensitive land uses at the Site (residential housing, schools, day-care facilities, hospitals, and hospices); No Site soil has been reused or moved outside of the Site boundary; There are no new groundwater wells constructed within the last year; There is no extraction of groundwater at the Site from new or existing wells for any purpose; and No dewatering activities have occurred on the property, there have been no violations of the Covenant, and no actions were needed by the City to ensure compliance with the Covenant.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/20/2010
Comments: On March 22, 2010 DTSC, City of Oakland, and Port of Oakland inspected the Subaru Lot. DTSC found site activities consistent with the land use covenant.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 11/01/2012
Comments: DTSC approved the First Five-Year Review for the GDA and Subaru Lot for the Gateway Development Area (GDA) and Subaru Lot at the former Oakland Army Base with the following determination: DTSC finds the implemented remedies including institutional controls continue to be protective of human health and the environment as intended by the 2002 Remedial Action Plan for GDA and the 2004 Remedial Action Plan for the Subaru Lot. No change in land use of the properties has occurred or is expected to occur since the remedies were implemented.

CITY OF OAKLAND - SUBARU LOT (Continued) **S109034296**

With the exception total petroleum hydrocarbons (TPH), the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives (RAOs) used at the time of the remedy selection are still valid. The selected remedies and implemented remedial actions have met and continue to meet the RAOs in GDA and the Subaru Lot. Due to the lack of project funding, the Regional Water Quality Control Board (RWQCB) has not been able to evaluate TPH cleanup levels. DTSC and RWQCB will address TPH RAOs once project funding resumes. DTSC has identified vapor intrusion as a new issue that would call into question the protectiveness of the remedy. On March 20, 2009, DTSC issued a letter modifying the 2002 Risk Management Plan (RMP) to address assessment of the vapor intrusion pathway at the Former Oakland Army Base Economic Development Conveyance Area. The modified RMP includes protocols for soil gas sampling and subsequent risk evaluation at all known volatile organic compound (VOC)-impacted areas that are collocated with new building construction, when specific planned land uses are determined for such areas. The current DTSC guidance on vapor intrusion does not impact the protectiveness of the remedies implemented at GDA or the Subaru Lot, but creates requirements for new location-specific screening and potential implementation of vapor intrusion mitigation measures in new construction, if needed, within VOC-impacted areas.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	04/25/2011
Comments:	DTSC reviewed the Annual Certification Report and has no comments. On March 23, 2011, DTSC inspected the Subaru Lot and found site activities consistent with the land use covenant.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	04/26/2012
Comments:	DTSC reviewed the Annual Certification Report and has no comments. On March 20, 2012, DTSC inspected the Subaru Lot and found site activities consistent with the land use covenant.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	07/24/2013
Comments:	DTSC reviewed the Annual Certification Report for the Subaru Lot dated 2/7/13. DTSC has no comment.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	04/19/2017
Comments:	DTSC, City of Oakland, and Port of Oakland inspected the site on 3/14/17.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	06/26/2018

CITY OF OAKLAND - SUBARU LOT (Continued) **S109034296**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 05/25/2016
Comments: DTSC, City of Oakland, and Port of Oakland inspected the site on 3/22/16.

Future Area Name: Basewide
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2021
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 80001227
Status: Certified O&M - Land Use Restrictions Only
Status Date: 05/01/2009
Site Code: 201795
Site Type: State Response
Site Type Detailed: Closed Base
Acres: 19
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Henry Wong
Supervisor: Daniel Murphy
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Voluntary Cleanup Program
Restricted Use: YES
Site Mgmt Req: NONE SPECIFIED
Funding: Other Non-Military Funds
Latitude: 37.82215
Longitude: -122.2958
APN: NONE SPECIFIED
Past Use: HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, UNKNOWN, VEHICLE MAINTENANCE
Potential COC: DDD DDE DDT Endrin Lead Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas TPH-MOTOR OIL
Confirmed COC: DDD DDE DDT Endrin Lead Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas TPH-MOTOR OIL
Potential Description: OTH, SOIL
Alias Name: 201795
Alias Type: Project Code (Site Code)
Alias Name: 71000002
Alias Type: Envirostor ID Number
Alias Name: 80001227
Alias Type: Envirostor ID Number

Completed Info:

CITY OF OAKLAND - SUBARU LOT (Continued) **S109034296**

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 12/07/2011
Comments: DTSC, City of Oakland, and Port of Oakland inspected the site on 3/23/11. DTSC found site activities consistent with the land use covenant.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 04/26/2012
Comments: DTSC, City of Oakland, and Port of Oakland inspected the site on 3/20/12. DTSC found site activities consistent with the land use covenant.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 04/24/2014
Comments: DTSC, City of Oakland, and Port of Oakland inspected the site on 3/5/14. DTSC found site activities consistent with the land use covenant.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/11/2015
Comments: DTSC, City of Oakland, and Port of Oakland inspected the site on 2/27/15.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/28/2009
Comments: DTSC has determined it is most cost effective to synchronize the review of the remedy for the City of Oakland Subaru with that of the review of the remedy for the Oakland Gateway Development Area, rather than to review the remedies separately for each site. The City of Oakland is the landowner for both the Subaru Lot and the northern portion of the Oakland Gateway Development Area. Since the City of Oakland will submit the draft five-year review report for the Oakland Gateway Development Area in May 2010, it is cost effective to combine the Subaru Lot s five-year review with that of the Oakland Gateway Development Area.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 01/20/2009
Comments: Site inspection was conducted on 1/12/09 with the following results: The Site is vacant and there are no sensitive land uses at the Site (residential housing, schools, day-care facilities, hospitals, and hospices); No Site soil has been reused or moved outside of the Site boundary; There are no new groundwater wells constructed within the last year; There is no extraction of groundwater at the Site from new or existing wells for any purpose; and No dewatering activities have

CITY OF OAKLAND - SUBARU LOT (Continued) **S109034296**

occurred on the property, there have been no violations of the Covenant, and no actions were needed by the City to ensure compliance with the Covenant.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	04/20/2010
Comments:	On March 22, 2010 DTSC, City of Oakland, and Port of Oakland inspected the Subaru Lot. DTSC found site activities consistent with the land use covenant.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	07/23/2013
Comments:	DTSC, City of Oakland, and Port of Oakland inspected the site on 1/29/13. DTSC found site activities consistent with the land use covenant.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	06/02/2015
Comments:	The City of Oakland certifies compliance with the environmental restrictions as specified in the November 18, 2004 Covenant to Restrict Use of Property, Environmental Restriction for the Subaru Lot (aka Former Parcels 6 and 7, Heroic War Dead United States Army Reserve Center).

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Reports
Completed Date:	08/29/2016
Comments:	DTSC reviewed the "Second Five-Year Review for the GDA and Subaru Lot" for the Gateway Development Area (GDA) and Subaru Lot at the former Oakland Army Base. DTSC makes the following determination: DTSC finds the implemented remedies including institutional controls continue to be protective of human health and the environment as intended by the 2002 Remedial Action Plan (RAP) for GDA and the 2004 Amendment to Final Remedial Action Plan for the Subaru Lot. No change in land use of the properties has occurred or is expected to occur since the remedies were implemented. The exposure assumptions, toxicity data, cleanup levels, and remedial action objectives (RAOs) used at the time of the remedy selection are still valid. The selected remedies and implemented remedial actions have met and continue to meet the RAOs in GDA and the Subaru Lot. DTSC recommends that post-surcharge and wicking groundwater monitoring be conducted to confirm the locations of the groundwater plumes in the subject RAP Sites so that the protectiveness of the selected remedies is not compromised.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	04/24/2014
Comments:	The City of Oakland certifies compliance with the environmental

CITY OF OAKLAND - SUBARU LOT (Continued) **S109034296**

restrictions as specified in the November 18, 2004 Covenant to Restrict Use of Property, Environmental Restriction for the Subaru Lot (aka Former Parcels 6 and 7, Heroic War Dead United States Army Reserve Center).

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	08/11/2010
Comments:	DTSC requested the City of Oakland to follow the Oakland Gateway Development Area’s Risk Management Plan and the August 2010 Addendum to Site Health and Safety Plan, Oakland Army Base RMP Areas 8, 10, 19/107 and 97 for the proposed sampling activity.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	04/24/2012
Comments:	DTSC published a public notice informing the initiation of the Five-Year Review on the implemented remedies at the Gateway Development Area and the Subaru Lot. The Five-Year Review will evaluate the performance of environmental cleanup actions conducted at the site to ensure they remain protective of human health and the environment.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	12/14/2012
Comments:	DTSC published a second public announcing the completion of the Five-Year Review for the Subaru Lot.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	05/25/2016
Comments:	The City of Oakland certifies compliance with the environmental restrictions as specified in the November 18, 2004 Covenant to Restrict Use of Property, Environmental Restriction for the Subaru Lot (aka Former Parcels 6 and 7, Heroic War Dead United States Army Reserve Center).

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	04/19/2017
Comments:	The City of Oakland certifies compliance with the environmental restrictions as specified in the November 18, 2004 Covenant to Restrict Use of Property, Environmental Restriction for the Subaru Lot (aka Former Parcels 6 and 7, Heroic War Dead United States Army Reserve Center).

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	06/26/2018
Comments:	The City of Oakland certifies compliance with the environmental

CITY OF OAKLAND - SUBARU LOT (Continued) **S109034296**

restrictions as specified in the November 18, 2004 Covenant to Restrict Use of Property, Environmental Restriction for the Subaru Lot (aka Former Parcels 6 and 7, Heroic War Dead United States Army Reserve Center).

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 08/22/2018
Comments: The Work Plan proposes soil sampling to access whether prior site activities have impacted the former suspect yard area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 10/18/2018
Comments: DTSC has reviewed the Work Plan and has no comment. The Work Plan addresses the removal of shallow soil impacted with arsenic at concentrations above the Remediation Goal of 20 mg/kg.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 11/18/2004
Comments: The LUC for Parcels 6 and 7, also known as the Subaru lot, was recorded with the Alameda County Assessor’s Office on 11/18/04 for 19 acres. The property is restricted to industrial or commercial use, as there is residual contamniation insconsistent with sensitive uses.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/02/2014
Comments: The estimate includes DTSC oversight activity and Terradex costs.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/20/2009
Comments: The City of Oakland submitted an Annual Certification Report on 1/13/09 certifying compliance with the Covenant to Restrict Use of Property, Environmental Restriction. Site inspection was conducted on 1/12/09 with the following results: The Site is vacant and there are no sensitive land uses at the Site (residential housing, schools, day-care facilities, hospitals, and hospices); No Site soil has been reused or moved outside of the Site boundary; There are no new groundwater wells constructed within the last year; There is no extraction of groundwater at the Site from new or existing wells for any purpose; and No dewatering activities have occurred on the property, there have been no violations of the Covenant, and no actions were needed by the City to ensure compliance with the Covenant.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/20/2010

CITY OF OAKLAND - SUBARU LOT (Continued) **S109034296**

Comments:	On March 22, 2010 DTSC, City of Oakland, and Port of Oakland inspected the Subaru Lot. DTSC found site activities consistent with the land use covenant.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Reports
Completed Date:	11/01/2012
Comments:	DTSC approved the First Five-Year Review for the GDA and Subaru Lot for the Gateway Development Area (GDA) and Subaru Lot at the former Oakland Army Base with the following determination: DTSC finds the implemented remedies including institutional controls continue to be protective of human health and the environment as intended by the 2002 Remedial Action Plan for GDA and the 2004 Remedial Action Plan for the Subaru Lot. No change in land use of the properties has occurred or is expected to occur since the remedies were implemented. With the exception total petroleum hydrocarbons (TPH), the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives (RAOs) used at the time of the remedy selection are still valid. The selected remedies and implemented remedial actions have met and continue to meet the RAOs in GDA and the Subaru Lot. Due to the lack of project funding, the Regional Water Quality Control Board (RWQCB) has not been able to evaluate TPH cleanup levels. DTSC and RWQCB will address TPH RAOs once project funding resumes. DTSC has identified vapor intrusion as a new issue that would call into question the protectiveness of the remedy. On March 20, 2009, DTSC issued a letter modifying the 2002 Risk Management Plan (RMP) to address assessment of the vapor intrusion pathway at the Former Oakland Army Base Economic Development Conveyance Area. The modified RMP includes protocols for soil gas sampling and subsequent risk evaluation at all known volatile organic compound (VOC)-impacted areas that are collocated with new building construction, when specific planned land uses are determined for such areas. The current DTSC guidance on vapor intrusion does not impact the protectiveness of the remedies implemented at GDA or the Subaru Lot, but creates requirements for new location-specific screening and potential implementation of vapor intrusion mitigation measures in new construction, if needed, within VOC-impacted areas.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	04/25/2011
Comments:	DTSC reviewed the Annual Certification Report and has no comments. On March 23, 2011, DTSC inspected the Subaru Lot and found site activities consistent with the land use covenant.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	04/26/2012
Comments:	DTSC reviewed the Annual Certification Report and has no comments. On March 20, 2012, DTSC inspected the Subaru Lot and found site activities consistent with the land use covenant.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported

CITY OF OAKLAND - SUBARU LOT (Continued) **S109034296**

Completed Document Type: Monitoring Report
Completed Date: 07/24/2013
Comments: DTSC reviewed the Annual Certification Report for the Subaru Lot dated 2/7/13. DTSC has no comment.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 04/19/2017
Comments: DTSC, City of Oakland, and Port of Oakland inspected the site on 3/14/17.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/26/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 05/25/2016
Comments: DTSC, City of Oakland, and Port of Oakland inspected the site on 3/22/16.

Future Area Name: Basewide
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2021
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

DEED:
Envirostor ID: 80001227
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: STATE RESPONSE
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 11/18/2004
File Name: Envirostor Land Use Restrictions

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190 **North** **1/2-1** **0.906 mi.** **4783 ft.**	**HEROIC WAR DEAD EBMUD** **2400 ENGINEER ROAD** **OAKLAND, CA 94607**	**CA RESPONSE** **CA ENVIROSTOR** **CA HIST Cal-Sites** **CA DEED** **CA MCS** **CA CERS**	**S105954429** **N/A**

Relative:
Lower

Actual:
8 ft.

AWP:
AWP Facility ID: 01970015
Region Code: 2
Region: BERKELEY

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

SMBR Branch Code:	NO
SMBR Branch Unit:	OMF-NORTHERN CALIF
Site Name.:	OAB HEROIC WAR DEAD USAR
Current Status Date:	07232003
Current Status:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency Code:	DTSC
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type:	Open military facility
Awp Site Type:	OPEN MILITARY BASE
NPL:	Not Listed
Tier Of AWP Site:	Not reported
Source Of Funding:	Not reported
Responsible Staff Member:	HWONG
Supervisor Responsible:	Not reported
SIC Code:	97
Facility SIC:	NATIONAL SECURITY/INTERNATIONAL AFFAIRS
RWQCB Code:	Not reported
RWQCB Associated With Site:	Not reported
Site Access Controlled:	Not reported
Site Listed HWS List:	Not reported
Hazard Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Not reported
# Of Contamination Sources:	0
Lat/Long:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Description Of Entity:	Not reported
State Assembly Distt Code:	16
State Senate District:	09

RESPONSE:

Facility ID:	1970015
Site Type:	State Response
Site Type Detail:	Open Base
Acres:	16
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Henry Wong
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	201107
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	18
Senate:	09
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	06/30/2007
Restricted Use:	NO
Funding:	DERA
Latitude:	37.82409
Longitude:	-122.2984
APN:	NONE SPECIFIED
Past Use:	DEGREASING FACILITY, OIL/WATER SEPARATORS, RECYCLING - DRUM
Potential COC :	* WASTE OIL & MIXED OIL * Metals - Arsenic * OIL/WATER SEPARATION SLUDGE * Metals - Lead * HALOGENATED SOLVENTS

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

Confirmed COC: NONE SPECIFIED
Potential Description: OTH, SED, SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Facility ID: 80001225
Site Type: State Response
Site Type Detail: Closed Base
Acres: 16
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Henry Wong
Supervisor: Daniel Murphy
Division Branch: Cleanup Berkeley
Site Code: 201764
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 18
Senate: 09
Special Program Status: Voluntary Cleanup Program
Status: Certified / Operation & Maintenance
Status Date: 06/05/2015
Restricted Use: YES
Funding: Other Non-Military Funds
Latitude: 37.82489
Longitude: -122.2998
APN: NONE SPECIFIED
Past Use: DEGREASING FACILITY, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, MACHINE SHOP, MAINTENANCE / CLEANING, UNKNOWN
Potential COC : Arsenic Lead Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs Tetrachloroethylene (PCE TPH-diesel TPH-gas TPH-MOTOR OIL 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride
Confirmed COC: Arsenic Lead Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas Trichloroethylene (TCE Vinyl chloride TPH-MOTOR OIL 1,1,1-Trichloroethane (TCA Tetrachloroethylene (PCE
Potential Description: OTH, SOIL
Alias Name: 201764
Alias Type: Project Code (Site Code)

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

Alias Name: 71000002
Alias Type: Envirostor ID Number
Alias Name: 80001225
Alias Type: Envirostor ID Number
Alias Name: 80001225
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 04/07/2009
Comments: EBMUD and DTSC entered into the Consent Agreement on 4/7/09. The purposes of this Agreement are (a) to bind EBMUD to comply with the Operation and Maintenance Plan approved by DTSC on September 29, 2008, which specifies inspection, soil management, groundwater monitoring, annual reporting, and five-year review requirements at the Site, and (b) to provide for reimbursement of DTSC’s oversight costs from EBMUD.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 03/23/2009
Comments: On 3/23/09, DTSC approved the 2007 Annual Monitoring and Compliance Report (Annual Report) dated March 2008 for the Heroic War Dead East Bay Municipal Utility District (EBMUD) site, also known as the EBMUD West End Property. The Annual Report presents the results of the first bi-annual monitoring event conducted in July 2007, discusses soil disturbance activities, and serves as an annual report with site inspection summary pursuant to Section 4.02(d) of the Covenant to Restrict Use of Property, Environmental Restriction.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 08/09/2010
Comments: DTSC prepared the Site Visit Summary for the 6/16/10 annual inspection of the Herioc War Dead EBMUD site.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/26/2018
Comments: The cost estimate projects hours to be incurred (by staff classification) for planned oversight activities in fiscal year 2018/2019, which starts July 1, 2018 and ends June 30, 2019, and identifies the personnel labor rates.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 09/01/2011
Comments: DTSC agrees that the temporary camper trailers usage, as described in EBMUD s July 12, 2011 and August 9, 2011 letters, is classified as a commercial use and not a restricted residential use pursuant to five conditions as specified in DTSC s August 31, 2011 letter.

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	04/18/2012
Comments:	DTSC issues the first public notice informing the community that DTSC is conducting a Five-Year Review for the EBMUD West End Property to review the current remedy for contaminated soil and groundwater.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	08/08/2012
Comments:	DTSC approved the Five-Year Review Report on June 28, 2012. The findings of the review confirm that the implemented remedy continues to be protective of human health and the environment and the cleanup levels have been successfully maintained. However, current standards have been adjusted and the notification area has been increased to include the Building 1064 yard. No change in land use of the property has occurred or is expected to occur. DTSC also requested that the most current lead protection standards be considered when evaluating exposure levels for on-site workers should the property be redeveloped.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Plan Amendment
Completed Date:	07/11/2012
Comments:	EBMUD s 7/10/12 letter is generally consistent with what DTSC has been requesting as a result of the 2012 Five-Year Review. DTSC requested EBMUD to proceed in preparing a draft Operation and Maintenance Plan Amendment for review.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Plan Amendment
Completed Date:	12/03/2012
Comments:	DTSC approved the Operation and Maintenance Plan with the following amendments: Added provisions for DTSC notification, review, and approval of soil disturbance activities at the Building 1064 yard, Updated the California Human Health Screening Level for lead when considering reuse of soil onsite, Revised the groundwater monitoring schedule as recommended by DTSC and the updated the lab analyses now performed by the EBMUD laboratory, Changed references from PV-18 PAH-impacted soil area to Building 1064 Yard , and Reduced inspection frequency from biannual to annual basis.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	10/13/2016
Comments:	This Annual Monitoring and Compliance Report (Report) discusses the following activities conducted in 2015 at EBMUD s West End Property, also known as the Heroic War Dead EBMUD : Inspection of the Property to ensure compliance with the Covenant to Restrict Use of Property, Environmental Restriction; Inspection of the engineered asphalt cap and one sampling event for the monitoring wells at the Building 1070 Yard; Soil disturbance, soil removal, or dewatering activities on the

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

property during 2015; Final disposition of the soil and/or liquid, including copies of disposal manifests as appropriate; and Groundwater monitoring event and results.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 06/22/2017
Comments: DTSC approved the "Second Five-Year Review Report" with the following determination: DTSC finds the implemented remedy including institutional controls continues to be protective of human health and the environment. No change in land use of the property has occurred or is expected to occur since the remedy was implemented. Soils in the northwest corner of the Building 1084 Yard contain lead at concentrations exceeding the commercial/industrial California Human Health Screening Level of 320 mg/kg. EBMUD should not allow tenants, contractors, or staff to disturb soil in this area without prior DTSC notification. The Operation and Maintenance Plan should be revised to include disturbance to soil in the northwest corner of the Building 1084 Yard is prohibited without DTSC s written permission. Groundwater monitoring data collected over the past ten years indicate that leaching of lead from soil in the Building 1070 Yard continually to be minimal due to the effectiveness of the installed engineered asphalt cap. It may be possible to reduce the groundwater monitoring frequency to once every five years, coinciding with the frequency of the five-year review. EBMUD may propose amendment to the Operation and Maintenance Plan for DTSC s consideration.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 03/28/2013
Comments: In preparation of a new road construction, EBMUD plans to install six borings (i.e., B-5 through B-10), using 6-inch solid stem auger or 8-inch hollow-stem auger, to depths of 10 to 25 feet below ground surface. EBMUD will follow the amended November 2012 Operation and Maintenance Plan, Section 2.3.3, Site-Wide Risk Management Procedures when conducting the activities.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 08/16/2013
Comments: The work involves potholing to field locate underground utilities or other obstructions in five areas of the West End Property and Engineers Road. The work will include subtronic investigations and/or digging small holes up to 6-10 feet in depth. No soil will be removed from the site.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 12/16/2013
Comments: EBMUD plans to drill six exploratory borings on the site within the 1084 yard. Two borings will be approximately 20 feet deep; the other four borings will be 40 to 50 feet deep. EBMUD plans to test the generated soil, estimated to be approximately 2.7 cubic yards, in

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

accordance with the Operation and Maintenance Plan for disposal determination.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Workplan
Completed Date: 12/23/2013
Comments: EBMUD plans to close groundwater monitoring well FMW-3 because it is located at the new Engineers Road alignment.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 01/03/2014
Comments: EBMUD plans to drill seven shallow soil borings less than five feet deep, drill six deep soil borings up to 10 feet deep, perform geotechnical testing at four locations using a cone penetrometer to a depth of 100 feet, and install a new power pole to eight feet deep.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 02/06/2014
Comments: EBMUD plans to remove existing asphalt, gravel base, and subgrade soil to a depth of approximately two feet at the 1084 Yard. EBMUD will also excavate soil at varying depths of five to eight feet for a sump pump pit and associated utilities installation. Approximately 1,400 cubic yards of soil will be disturbed. A portion of the soil will be reused onsite and the balance of the soil will be disposed of at offsite permitted facilities pursuant to the November 2012 Operation and Maintenance Plan.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 03/12/2014
Comments: EBMUD plans to demolish Buildings 1060 and 1064 and eight other small structures at the 1060, 1064, and 1070 yards. Approximately 12 cubic yards of soil will be removed to facilitate utility capping. EBMUD intends to reuse the excavated soil onsite pursuant to the November 2012 amended Operation and Maintenance Plan.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 03/20/2014
Comments: EBMUD plans to improve the intersection of Engineers Road and Digester Road, construct a new guard shack, and install new utilities at the 1086 and 1101 yards. Approximately 625 cubic yards of soil will be generated.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 04/02/2014
Comments: EBMUD plans to collect seven shallow soil samples, less than five feet below ground surface, at the 1064 and 1070 yards and disposed of

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

the soil after characterization in accordance with the November 2012 Operation and Maintenance Plan.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/24/2014
Comments: Instead of requesting for an extension, EBMUD will send the drum to an off-site permitted disposal facility before the 90-day limit as specified in its Hazardous Waste Facility Storage Permit.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 08/12/2014
Comments: DTSC has determined that the November 2012 Operation and Maintenance Plan, Section 2.3.2 be extended to all areas at the Virdis Fuels project area located west of the Building 1070 Yard. In accordance with Section 2.3.2, EBMUD shall notify DTSC and seek approval before soil disturbance at the Virdis Fuels project area.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Report
Completed Date: 08/12/2014
Comments: EBMUD destroyed groundwater monitoring well FMW]3 on 1/21/14 in accordance with the Alameda County Public Works Agency fs (ACPWA) requirements. An ACPWA inspector was onsite, witnessed well destruction activities, and approved the pressure grouting techniques.
Not reported

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 08/18/2014
Comments: EBMUD shipped 22 tons of soil impacted with non-RCRA hazardous waste to an offsite permitted disposal facility with manifest 007606842.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 02/09/2015
Comments: EBMUD proposes to excavate approximately 20 to 40 cubic yards of soil as part of repair work on a water pipeline. The proposed excavation area is located approximately 100 feet south of the Building 1070 Yard. No soil excavation or disturbance will take place within the deed restricted Building 1070 Yard.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 02/26/2015
Comments: EBMUD proposes to collect approximately 20 soil samples along the southern border of the site. The purpose of the sampling is to pre-characterize the soil under Engineers Road in anticipation to the street realignment project in the fall of 2015.

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 07/09/2015
Comments: EBMUD proposes to conduct geotechnical investigation consisting of two hollow stem auger (HSA) locations and two cone penetration test (CPT) locations north of Building 1084 on the EBMUD West End Property. HSA and CPT will be advanced into the ground as deep as 50 feet and 100 feet below ground surface, respectively.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan Amendment
Completed Date: 07/20/2015
Comments: EBMUD revised Section 2.3.2 of the O&M Plan to require enhanced notification procedures prior to soil disturbance activities at the Building 1060 Yard, similar to those for the Building 1064 Yard.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 08/07/2015
Comments: EBMUD proposes to conduct geotechnical investigation consisting of two hollow stem auger (HSA) locations west of Building 1070 on the EBMUD West End Property. HSA will be advanced into the ground as deep as 80 feet.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 01/06/2016
Comments: EBMUD disposed of the 160-cubic yard stockpiled soil meeting the definition of a California Hazardous Waste at Kettleman landfill on October 29 and 30, 2015.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 01/05/2016
Comments: DTSC determines that soil sampling at the 0.77-acre area is not necessary at this time.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 03/17/2016
Comments: EBMUD will be collecting one soil sample east of Building 1086 on 3/22/16 for soil pre-characterization purposes to install a recycled water line. The sample will be hand augered to a depth of approximately 5 feet. No spoils are expected.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 11/09/2015
Comments: Sampling and analysis of the soil generated during fence post installation are not necessary as long as the excavated soil is

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

reused in the fence post holes.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Soils Management Plan
Completed Date:	02/08/2016
Comments:	EBMUD proposes to (a) extract soil from 17 locations at the 1084 yard up to six feet below ground surface, (b) collect soil samples from each soil core at several depths, and (c) analyze soil samples to determine chemical concentrations for proper soil management and/or disposal during subsequent construction of a food waste processing facility.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Soils Management Plan
Completed Date:	08/11/2016
Comments:	Potholing to locate utilities in the 1084 and 1086 yard area. All soil will be returned to the hole it is removed form.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	04/09/2018
Comments:	EBMUD conducted annual inspection activities pursuant to the Operation and Maintenance Agreement and Plan. No sensitive land uses, including, but not limited to, residential housing, schools for persons under 18 years of age, day-care facilities for children, hospitals, and hospices were observed on the property.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	04/12/2017
Comments:	DTSC published a display advertisement on the 4/12/17 East Bay Times informing the community that DTSC is conducting a five-year review for the site.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	11/22/2016
Comments:	The soil from the EBMUD West End Property and the EDC soil will be stockpiled together and off hauled together.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Plan Amendment
Completed Date:	02/27/2018
Comments:	EBMUD has revised the February 2018 O&M Plan to: Rename areas on the property that are special soil management areas so they do not reference buildings that have since been demolished; Include the northwest corner of the Building 1084 Yard as a lead‐impacted soil management area; Change the groundwater monitoring frequency to once every five years; and Clarify site‐wide risk management procedures. The February 2018 O&M Plan replaces previous O&M Plans dated November 2012 and September 2008.

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction
Completed Date:	06/29/2007
Comments:	DTSC and the Army Reserve executed and recorded the Covenant to Restrict Use of Property, Environmental Restriction with the Alameda County Assessor's Office on 6/29/07. The Covenant includes the following environmental restrictions and requirements: Sensitive land uses, including, but not limited to, residential housing, schools for persons under 18 years of age, day-care facilities for children, hospitals, and hospices are prohibited. Intrusion of the cap and subsurface soil at the Building 1070 Yard is permitted only with the written approval of DTSC. Placement of Site soil outside of the Site boundary for any purpose is permitted only with the written approval of DTSC. Excavation or disturbance of Site soil deeper than 5 feet below ground surface is permitted only with the written approval of DTSC. Excavation or disturbance of soil at any depth in the vicinity of the Building 1064 Yard is permitted only with the written approval of DTSC. In emergency situation, the owner may excavate or disturb the Building 1064 Yard soil without prior DTSC approval. However, the owner must notify DTSC within twenty four (24) hours of such soil excavation or disturbance activity and manage the soil pursuant to the Operation and Maintenance (O&M) Plan. The construction of groundwater wells and extraction of groundwater from new and/or existing wells for any purpose are permitted only with the written approval of DTSC. Dewatering activities for any future construction are permitted subject to all applicable local and State requirements, including those of the California Regional Water Quality Control Board, for disposing of the liquid from dewatering activities.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/26/2013
Comments:	DTSC issued a letter enclosing an estimate of DTSC's hours and oversight costs for a period from July 2013 through June 2014.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/02/2014
Comments:	The estimate includes DTSC oversight activity and Terradex costs.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/29/2015
Comments:	The cost estimate is for the fiscal year 2015/2016 which starts July 1, 2015 and ends June 30, 2016.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/30/2016
Comments:	The cost estimate is for the fiscal year 2016/2017 which starts July 1, 2016 and ends June 30, 2017.

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/24/2017
Comments:	Annual DTSC oversight cost estimate.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	05/13/2010
Comments:	DTSC concurred with the 2009 annual report dated March 2010.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Soils Management Plan
Completed Date:	04/01/2009
Comments:	EBMUD plans to demolish Building 1101 and other related construction activities which will involve excavation and off-site disposal of approximately 6,850 cubic yards of soil. EBMUD also foresees dewatering of groundwater and accumulated liquid at the Building 1101 area. DTSC reviewed EBMUD s February 5, 2009 request letter and approved the request with the following reminder: 1. Please perform all soil and groundwater disturbance activities in accordance with the DTSC-approved Operation and Maintenance Plan dated September 2008, Section 2.3.3 regarding soil and liquid characterization, soil stockpiling, dust control, construction dewatering, health and safety, etc. 2. Please report the soil disturbance, soil removal, and dewatering activities, sampling data, final disposition of the soil and liquid with copies of manifests as appropriate, etc., in the upcoming annual report.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Plan
Completed Date:	09/29/2008
Comments:	DTSC approved the Operation and Maintenance (O&M) Plan on 9/29/08. The O&M Plan specifies procedures for operation, monitoring, and maintenance of remedial actions implemented at the Heroic War Dead EBMUD. The plan outlines O&M procedures for: the Building 1070 Yard engineered asphalt cap, the Building 1070 Yard lead-impacted soil area, groundwater monitoring at the Building 1070 Yard area, the Building 1064 Yard PV-18 PAH-impacted soil area, and site-wide soil and groundwater/liquid management. The O&M Plan also contains requirements for annual reporting and Five-Year Reviews.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	03/23/2009
Comments:	DTSC received the revised 2007 Annual Monitoring and Compliance Report (Annual Report) dated March 2008 for the Heroic War Dead East Bay Municipal Utility District (EBMUD) site, also known as the EBMUD West End Property. The Annual Report presents the results of the first bi-annual monitoring event conducted in July 2007, discusses soil disturbance activities, and serves as an annual report pursuant to Section 4.02(d) of the Covenant to Restrict Use of Property, Environmental Restriction. On October 30, 2008, DTSC provided

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

comments on a previous draft report. DTSC has reviewed the revised Annual Report and the EBMUD s response letter dated March 17, 2009, and found the Annual Report and response letter satisfactory. DTSC hereby approves the 2007 Annual Report.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	12/06/2011
Comments:	DTSC reviewed the report and has no comment.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Reports
Completed Date:	06/28/2012
Comments:	DTSC approved (a) the Five-Year Review Report and (b) the 2011 Annual Monitoring and Compliance Report, and made the following determination: DTSC finds the implemented remedy including institutional controls continues to be protective of human health and the environment. No change in land use of the property has occurred or is expected to occur since the remedy was implemented. The exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy selection are still valid. DTSC requested the LeadSpread 8 be considered when evaluating exposure levels for on-site worker health and safety as well as for identifying site specific cleanup goals for lead-impacted soil at the time of property redevelopment DTSC requested EBMUD to modify the Operation and Maintenance Plan to apply stringent notification provisions for the PV-18 area to any soil disturbances in the Building 1064 yard.. DTSC identifies no other information that would call into question the protectiveness of the remedy.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	10/08/2009
Comments:	DTSC concurs with the 2008 Annual Monitoring and Compliance Report.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Soils Management Plan
Completed Date:	07/02/2010
Comments:	On 7/2/10, DTSC approved EBMUD s request to import fill approximately 2,600 cubic yards of the soil from EBMUD s Main Waste Wastewater Treatment Plant to backfill the former Building 1101 area. DTSC has reviewed laboratory data and confirmed that chemical concentrations from the proposed fill are below hazardous waste levels and HWD EBMUD s remediation goals. DTSC has reiterated that the Covenant s provisions regarding soil excavation and disturbance continue to apply at the former Building 1101 area.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	07/24/2013
Comments:	The Annual Report discusses the following activities conducted in 2012: EBMUD conducted inspections of the property to ensure

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

compliance with the Covenant and O&M Plan. No sensitive land uses, including, but not limited to, residential housing, schools for persons under 18 years of age, day-care facilities for children, hospitals, and hospices were observed on the property. No soil disturbance, excavation, or dewatering occurred on the property. EBMUD conducted inspections of the engineered asphalt cap at the Building 1070 Yard in April and October 2012. No significant cracks, settlement, or other flaws or damage to the cap were observed. Warning signs against intrusion of the cap or digging within the capped area were all clearly visible and in good condition. EBMUD conducted a groundwater sampling event at the Building 1070 Yard (wells FMW-1, FMW-2, FMW-3, FMW-4, EMW-4, MW-5, and MW-6) in April 2012. Lead in groundwater has not been detected in groundwater samples collected since the March 2008 sampling event. The seven groundwater monitoring wells appear to be functioning properly without the need for repair or maintenance.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/08/2014
Comments: The annual report discusses the following activities conducted in 2013: EBMUD inspected the property to ensure compliance with the Covenant, Agreement, and O&M Plan. No sensitive land uses, including, but not limited to, residential housing, schools for persons under 18 years of age, day-care facilities for children, hospitals, and hospices were observed on the property. EBMUD performed two geotechnical investigations pursuant to the Operation and Maintenance Plan. EBMUD inspected the engineered asphalt cap at the Building 1070 Yard and found no problem. EBMUD conducted a groundwater monitoring and did not detected lead in groundwater.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/30/2015
Comments: The Report discusses various operation and maintenance activities performed in 2014.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/24/2009
Comments: When conducting semi-annual groundwater monitoring pursuant to the 2008 Operation and Maintenance Plan at wells FMW-1, FMW-2, FMW-3, FMW-4, MW-5, MW-6, and EMW-4, EBMUD does not need to obtain DTSC s written approval before conducting groundwater monitoring activities.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/28/2012
Comments: During the April 18, 2012 inspection, DTSC confirmed that EBMUD has continued to use the site for industrial purpose. No restricted land uses (day care, private residences, etc.) were observed on the property. With the exception of the DTSC approved soil management activity at the Building 1101 area, no soil excavation or dewatering

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

has occurred on the property. DTSC observed that the Building 1070 Yard s engineered asphalt cap to be in good integrity as designed.

Future Area Name: Basewide
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2022
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 80001225
Status: Certified / Operation & Maintenance
Status Date: 06/05/2015
Site Code: 201764
Site Type: State Response
Site Type Detailed: Closed Base
Acres: 16
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Henry Wong
Supervisor: Daniel Murphy
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Voluntary Cleanup Program
Restricted Use: YES
Site Mgmt Req: NONE SPECIFIED
Funding: Other Non-Military Funds
Latitude: 37.82489
Longitude: -122.2998
APN: NONE SPECIFIED
Past Use: DEGREASING FACILITY, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, MACHINE SHOP, MAINTENANCE / CLEANING, UNKNOWN
Potential COC: Arsenic Lead Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs Tetrachloroethylene (PCE TPH-diesel TPH-gas TPH-MOTOR OIL 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride
Confirmed COC: Arsenic Lead Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas Trichloroethylene (TCE Vinyl chloride TPH-MOTOR OIL 1,1,1-Trichloroethane (TCA Tetrachloroethylene (PCE
Potential Description: OTH, SOIL
Alias Name: 201764
Alias Type: Project Code (Site Code)
Alias Name: 71000002
Alias Type: Envirostor ID Number
Alias Name: 80001225
Alias Type: Envirostor ID Number
Alias Name: 80001225
Alias Type: Envirostor ID Number

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

Completed Info:

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Consent Agreement
Completed Date:	04/07/2009
Comments:	EBMUD and DTSC entered into the Consent Agreement on 4/7/09. The purposes of this Agreement are (a) to bind EBMUD to comply with the Operation and Maintenance Plan approved by DTSC on September 29, 2008, which specifies inspection, soil management, groundwater monitoring, annual reporting, and five-year review requirements at the Site, and (b) to provide for reimbursement of DTSC’s oversight costs from EBMUD.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	03/23/2009
Comments:	On 3/23/09, DTSC approved the 2007 Annual Monitoring and Compliance Report (Annual Report) dated March 2008 for the Heroic War Dead East Bay Municipal Utility District (EBMUD) site, also known as the EBMUD West End Property. The Annual Report presents the results of the first bi-annual monitoring event conducted in July 2007, discusses soil disturbance activities, and serves as an annual report with site inspection summary pursuant to Section 4.02(d) of the Covenant to Restrict Use of Property, Environmental Restriction.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	08/09/2010
Comments:	DTSC prepared the Site Visit Summary for the 6/16/10 annual inspection of the Herioc War Dead EBMUD site.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/26/2018
Comments:	The cost estimate projects hours to be incurred (by staff classification) for planned oversight activities in fiscal year 2018/2019, which starts July 1, 2018 and ends June 30, 2019, and identifies the personnel labor rates.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	*Correspondence - Received
Completed Date:	09/01/2011
Comments:	DTSC agrees that the temporary camper trailers usage, as described in EBMUD s July 12, 2011 and August 9, 2011 letters, is classified as a commercial use and not a restricted residential use pursuant to five conditions as specified in DTSC s August 31, 2011 letter.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	04/18/2012
Comments:	DTSC issues the first public notice informing the community that DTSC is conducting a Five-Year Review for the EBMUD West End Property to

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

review the current remedy for contaminated soil and groundwater.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	08/08/2012
Comments:	DTSC approved the Five-Year Review Report on June 28, 2012. The findings of the review confirm that the implemented remedy continues to be protective of human health and the environment and the cleanup levels have been successfully maintained. However, current standards have been adjusted and the notification area has been increased to include the Building 1064 yard. No change in land use of the property has occurred or is expected to occur. DTSC also requested that the most current lead protection standards be considered when evaluating exposure levels for on-site workers should the property be redeveloped.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Plan Amendment
Completed Date:	07/11/2012
Comments:	EBMUD s 7/10/12 letter is generally consistent with what DTSC has been requesting as a result of the 2012 Five-Year Review. DTSC requested EBMUD to proceed in preparing a draft Operation and Maintenance Plan Amendment for review.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Plan Amendment
Completed Date:	12/03/2012
Comments:	DTSC approved the Operation and Maintenance Plan with the following amendments: Added provisions for DTSC notification, review, and approval of soil disturbance activities at the Building 1064 yard, Updated the California Human Health Screening Level for lead when considering reuse of soil onsite, Revised the groundwater monitoring schedule as recommended by DTSC and the updated the lab analyses now performed by the EBMUD laboratory, Changed references from PV-18 PAH-impacted soil area to Building 1064 Yard , and Reduced inspection frequency from biannual to annual basis.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	10/13/2016
Comments:	This Annual Monitoring and Compliance Report (Report) discusses the following activities conducted in 2015 at EBMUD s West End Property, also known as the Heroic War Dead EBMUD : Inspection of the Property to ensure compliance with the Covenant to Restrict Use of Property, Environmental Restriction; Inspection of the engineered asphalt cap and one sampling event for the monitoring wells at the Building 1070 Yard; Soil disturbance, soil removal, or dewatering activities on the property during 2015; Final disposition of the soil and/or liquid, including copies of disposal manifests as appropriate; and Groundwater monitoring event and results.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

Completed Document Type:	5 Year Review Reports
Completed Date:	06/22/2017
Comments:	DTSC approved the "Second Five-Year Review Report" with the following determination: DTSC finds the implemented remedy including institutional controls continues to be protective of human health and the environment. No change in land use of the property has occurred or is expected to occur since the remedy was implemented. Soils in the northwest corner of the Building 1084 Yard contain lead at concentrations exceeding the commercial/industrial California Human Health Screening Level of 320 mg/kg. EBMUD should not allow tenants, contractors, or staff to disturb soil in this area without prior DTSC notification. The Operation and Maintenance Plan should be revised to include disturbance to soil in the northwest corner of the Building 1084 Yard is prohibited without DTSC s written permission. Groundwater monitoring data collected over the past ten years indicate that leaching of lead from soil in the Building 1070 Yard continually to be minimal due to the effectiveness of the installed engineered asphalt cap. It may be possible to reduce the groundwater monitoring frequency to once every five years, coinciding with the frequency of the five-year review. EBMUD may propose amendment to the Operation and Maintenance Plan for DTSC s consideration.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Soils Management Plan
Completed Date:	03/28/2013
Comments:	In preparation of a new road construction, EBMUD plans to install six borings (i.e., B-5 through B-10), using 6-inch solid stem auger or 8-inch hollow-stem auger, to depths of 10 to 25 feet below ground surface. EBMUD will follow the amended November 2012 Operation and Maintenance Plan, Section 2.3.3, Site-Wide Risk Management Procedures when conducting the activities.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Soils Management Plan
Completed Date:	08/16/2013
Comments:	The work involves potholing to field locate underground utilities or other obstructions in five areas of the West End Property and Engineers Road. The work will include subtronic investigations and/or digging small holes up to 6-10 feet in depth. No soil will be removed from the site.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Soils Management Plan
Completed Date:	12/16/2013
Comments:	EBMUD plans to drill six exploratory borings on the site within the 1084 yard. Two borings will be approximately 20 feet deep; the other four borings will be 40 to 50 feet deep. EBMUD plans to test the generated soil, estimated to be approximately 2.7 cubic yards, in accordance with the Operation and Maintenance Plan for disposal determination.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Well Decommissioning Workplan

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

Completed Date: 12/23/2013
Comments: EBMUD plans to close groundwater monitoring well FMW-3 because it is located at the new Engineers Road alignment.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 01/03/2014
Comments: EBMUD plans to drill seven shallow soil borings less than five feet deep, drill six deep soil borings up to 10 feet deep, perform geotechnical testing at four locations using a cone penetrometer to a depth of 100 feet, and install a new power pole to eight feet deep.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 02/06/2014
Comments: EBMUD plans to remove existing asphalt, gravel base, and subgrade soil to a depth of approximately two feet at the 1084 Yard. EBMUD will also excavate soil at varying depths of five to eight feet for a sump pump pit and associated utilities installation. Approximately 1,400 cubic yards of soil will be disturbed. A portion of the soil will be reused onsite and the balance of the soil will be disposed of at offsite permitted facilities pursuant to the November 2012 Operation and Maintenance Plan.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 03/12/2014
Comments: EBMUD plans to demolish Buildings 1060 and 1064 and eight other small structures at the 1060, 1064, and 1070 yards. Approximately 12 cubic yards of soil will be removed to facilitate utility capping. EBMUD intends to reuse the excavated soil onsite pursuant to the November 2012 amended Operation and Maintenance Plan.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 03/20/2014
Comments: EBMUD plans to improve the intersection of Engineers Road and Digester Road, construct a new guard shack, and install new utilities at the 1086 and 1101 yards. Approximately 625 cubic yards of soil will be generated.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 04/02/2014
Comments: EBMUD plans to collect seven shallow soil samples, less than five feet below ground surface, at the 1064 and 1070 yards and disposed of the soil after characterization in accordance with the November 2012 Operation and Maintenance Plan.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Other Report

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

Completed Date: 06/24/2014
Comments: Instead of requesting for an extension, EBMUD will send the drum to an off-site permitted disposal facility before the 90-day limit as specified in its Hazardous Waste Facility Storage Permit.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 08/12/2014
Comments: DTSC has determined that the November 2012 Operation and Maintenance Plan, Section 2.3.2 be extended to all areas at the Virdis Fuels project area located west of the Building 1070 Yard. In accordance with Section 2.3.2, EBMUD shall notify DTSC and seek approval before soil disturbance at the Virdis Fuels project area.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Report
Completed Date: 08/12/2014
Comments: EBMUD destroyed groundwater monitoring well FMW]3 on 1/21/14 in accordance with the Alameda County Public Works Agency fs (ACPWA) requirements. An ACPWA inspector was onsite, witnessed well destruction activities, and approved the pressure grouting techniques.
Not reported

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 08/18/2014
Comments: EBMUD shipped 22 tons of soil impacted with non-RCRA hazardous waste to an offsite permitted disposal facility with manifest 007606842.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 02/09/2015
Comments: EBMUD proposes to excavate approximately 20 to 40 cubic yards of soil as part of repair work on a water pipeline. The proposed excavation area is located approximately 100 feet south of the Building 1070 Yard. No soil excavation or disturbance will take place within the deed restricted Building 1070 Yard.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 02/26/2015
Comments: EBMUD proposes to collect approximately 20 soil samples along the southern border of the site. The purpose of the sampling is to pre-characterize the soil under Engineers Road in anticipation to the street realignment project in the fall of 2015.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 07/09/2015
Comments: EBMUD proposes to conduct geotechnical investigation consisting of two hollow stem auger (HSA) locations and two cone penetration test

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

(CPT) locations north of Building 1084 on the EBMUD West End Property. HSA and CPT will be advanced into the ground as deep as 50 feet and 100 feet below ground surface, respectively.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan Amendment
Completed Date: 07/20/2015
Comments: EBMUD revised Section 2.3.2 of the O&M Plan to require enhanced notification procedures prior to soil disturbance activities at the Building 1060 Yard, similar to those for the Building 1064 Yard.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 08/07/2015
Comments: EBMUD proposes to conduct geotechnical investigation consisting of two hollow stem auger (HSA) locations west of Building 1070 on the EBMUD West End Property. HSA will be advanced into the ground as deep as 80 feet.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 01/06/2016
Comments: EBMUD disposed of the 160-cubic yard stockpiled soil meeting the definition of a California Hazardous Waste at Kettleman landfill on October 29 and 30, 2015.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 01/05/2016
Comments: DTSC determines that soil sampling at the 0.77-acre area is not necessary at this time.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 03/17/2016
Comments: EBMUD will be collecting one soil sample east of Building 1086 on 3/22/16 for soil pre-characterization purposes to install a recycled water line. The sample will be hand augered to a depth of approximately 5 feet. No spoils are expected.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 11/09/2015
Comments: Sampling and analysis of the soil generated during fence post installation are not necessary as long as the excavated soil is reused in the fence post holes.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 02/08/2016

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

Comments: EBMUD proposes to (a) extract soil from 17 locations at the 1084 yard up to six feet below ground surface, (b) collect soil samples from each soil core at several depths, and (c) analyze soil samples to determine chemical concentrations for proper soil management and/or disposal during subsequent construction of a food waste processing facility.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 08/11/2016
Comments: Potholing to locate utilities in the 1084 and 1086 yard area. All soil will be returned to the hole it is removed form.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/09/2018
Comments: EBMUD conducted annual inspection activities pursuant to the Operation and Maintenance Agreement and Plan. No sensitive land uses, including, but not limited to, residential housing, schools for persons under 18 years of age, day-care facilities for children, hospitals, and hospices were observed on the property.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 04/12/2017
Comments: DTSC published a display advertisement on the 4/12/17 East Bay Times informing the community that DTSC is conducting a five-year review for the site.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/22/2016
Comments: The soil from the EBMUD West End Property and the EDC soil will be stockpiled together and off hauled together.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan Amendment
Completed Date: 02/27/2018
Comments: EBMUD has revised the February 2018 O&M Plan to: Rename areas on the property that are special soil management areas so they do not reference buildings that have since been demolished; Include the northwest corner of the Building 1084 Yard as a lead‐impacted soil management area; Change the groundwater monitoring frequency to once every five years; and Clarify site‐wide risk management procedures. The February 2018 O&M Plan replaces previous O&M Plans dated November 2012 and September 2008.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 06/29/2007
Comments: DTSC and the Army Reserve executed and recorded the Covenant to

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

Restrict Use of Property, Environmental Restriction with the Alameda County Assessor's Office on 6/29/07. The Covenant includes the following environmental restrictions and requirements: Sensitive land uses, including, but not limited to, residential housing, schools for persons under 18 years of age, day-care facilities for children, hospitals, and hospices are prohibited. Intrusion of the cap and subsurface soil at the Building 1070 Yard is permitted only with the written approval of DTSC. Placement of Site soil outside of the Site boundary for any purpose is permitted only with the written approval of DTSC. Excavation or disturbance of Site soil deeper than 5 feet below ground surface is permitted only with the written approval of DTSC. Excavation or disturbance of soil at any depth in the vicinity of the Building 1064 Yard is permitted only with the written approval of DTSC. In emergency situation, the owner may excavate or disturb the Building 1064 Yard soil without prior DTSC approval. However, the owner must notify DTSC within twenty four (24) hours of such soil excavation or disturbance activity and manage the soil pursuant to the Operation and Maintenance (O&M) Plan. The construction of groundwater wells and extraction of groundwater from new and/or existing wells for any purpose are permitted only with the written approval of DTSC. Dewatering activities for any future construction are permitted subject to all applicable local and State requirements, including those of the California Regional Water Quality Control Board, for disposing of the liquid from dewatering activities.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/26/2013
Comments: DTSC issued a letter enclosing an estimate of DTSC's hours and oversight costs for a period from July 2013 through June 2014.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/02/2014
Comments: The estimate includes DTSC oversight activity and Terradex costs.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/29/2015
Comments: The cost estimate is for the fiscal year 2015/2016 which starts July 1, 2015 and ends June 30, 2016.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/30/2016
Comments: The cost estimate is for the fiscal year 2016/2017 which starts July 1, 2016 and ends June 30, 2017.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/24/2017
Comments: Annual DTSC oversight cost estimate.

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	05/13/2010
Comments:	DTSC concurred with the 2009 annual report dated March 2010.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Soils Management Plan
Completed Date:	04/01/2009
Comments:	EBMUD plans to demolish Building 1101 and other related construction activities which will involve excavation and off-site disposal of approximately 6,850 cubic yards of soil. EBMUD also foresees dewatering of groundwater and accumulated liquid at the Building 1101 area. DTSC reviewed EBMUD s February 5, 2009 request letter and approved the request with the following reminder: 1. Please perform all soil and groundwater disturbance activities in accordance with the DTSC-approved Operation and Maintenance Plan dated September 2008, Section 2.3.3 regarding soil and liquid characterization, soil stockpiling, dust control, construction dewatering, health and safety, etc. 2. Please report the soil disturbance, soil removal, and dewatering activities, sampling data, final disposition of the soil and liquid with copies of manifests as appropriate, etc., in the upcoming annual report.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Plan
Completed Date:	09/29/2008
Comments:	DTSC approved the Operation and Maintenance (O&M) Plan on 9/29/08. The O&M Plan specifies procedures for operation, monitoring, and maintenance of remedial actions implemented at the Heroic War Dead EBMUD. The plan outlines O&M procedures for: the Building 1070 Yard engineered asphalt cap, the Building 1070 Yard lead-impacted soil area, groundwater monitoring at the Building 1070 Yard area, the Building 1064 Yard PV-18 PAH-impacted soil area, and site-wide soil and groundwater/liquid management. The O&M Plan also contains requirements for annual reporting and Five-Year Reviews.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	03/23/2009
Comments:	DTSC received the revised 2007 Annual Monitoring and Compliance Report (Annual Report) dated March 2008 for the Heroic War Dead East Bay Municipal Utility District (EBMUD) site, also known as the EBMUD West End Property. The Annual Report presents the results of the first bi-annual monitoring event conducted in July 2007, discusses soil disturbance activities, and serves as an annual report pursuant to Section 4.02(d) of the Covenant to Restrict Use of Property, Environmental Restriction. On October 30, 2008, DTSC provided comments on a previous draft report. DTSC has reviewed the revised Annual Report and the EBMUD s response letter dated March 17, 2009, and found the Annual Report and response letter satisfactory. DTSC hereby approves the 2007 Annual Report.

Completed Area Name:	Basewide

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/06/2011
Comments: DTSC reviewed the report and has no comment.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 06/28/2012
Comments: DTSC approved (a) the Five-Year Review Report and (b) the 2011 Annual Monitoring and Compliance Report, and made the following determination: DTSC finds the implemented remedy including institutional controls continues to be protective of human health and the environment. No change in land use of the property has occurred or is expected to occur since the remedy was implemented. The exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy selection are still valid. DTSC requested the LeadSpread 8 be considered when evaluating exposure levels for on-site worker health and safety as well as for identifying site specific cleanup goals for lead-impacted soil at the time of property redevelopment DTSC requested EBMUD to modify the Operation and Maintenance Plan to apply stringent notification provisions for the PV-18 area to any soil disturbances in the Building 1064 yard.. DTSC identifies no other information that would call into question the protectiveness of the remedy.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/08/2009
Comments: DTSC concurs with the 2008 Annual Monitoring and Compliance Report.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 07/02/2010
Comments: On 7/2/10, DTSC approved EBMUD s request to import fill approximately 2,600 cubic yards of the soil from EBMUD s Main Waste Wastewater Treatment Plant to backfill the former Building 1101 area. DTSC has reviewed laboratory data and confirmed that chemical concentrations from the proposed fill are below hazardous waste levels and HWD EBMUD s remediation goals. DTSC has reiterated that the Covenant s provisions regarding soil excavation and disturbance continue to apply at the former Building 1101 area.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/24/2013
Comments: The Annual Report discusses the following activities conducted in 2012: EBMUD conducted inspections of the property to ensure compliance with the Covenant and O&M Plan. No sensitive land uses, including, but not limited to, residential housing, schools for persons under 18 years of age, day-care facilities for children, hospitals, and hospices were observed on the property. No soil disturbance, excavation, or dewatering occurred on the property. EBMUD conducted inspections of the engineered asphalt cap at the

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

	Building 1070 Yard in April and October 2012. No significant cracks, settlement, or other flaws or damage to the cap were observed. Warning signs against intrusion of the cap or digging within the capped area were all clearly visible and in good condition. EBMUD conducted a groundwater sampling event at the Building 1070 Yard (wells FMW-1, FMW-2, FMW-3, FMW-4, EMW-4, MW-5, and MW-6) in April 2012. Lead in groundwater has not been detected in groundwater samples collected since the March 2008 sampling event. The seven groundwater monitoring wells appear to be functioning properly without the need for repair or maintenance.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	07/08/2014
Comments:	The annual report discusses the following activities conducted in 2013: EBMUD inspected the property to ensure compliance with the Covenant, Agreement, and O&M Plan. No sensitive land uses, including, but not limited to, residential housing, schools for persons under 18 years of age, day-care facilities for children, hospitals, and hospices were observed on the property. EBMUD performed two geotechnical investigations pursuant to the Operation and Maintenance Plan. EBMUD inspected the engineered asphalt cap at the Building 1070 Yard and found no problem. EBMUD conducted a groundwater monitoring and did not detected lead in groundwater.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	06/30/2015
Comments:	The Report discusses various operation and maintenance activities performed in 2014.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	09/24/2009
Comments:	When conducting semi-annual groundwater monitoring pursuant to the 2008 Operation and Maintenance Plan at wells FMW-1, FMW-2, FMW-3, FMW-4, MW-5, MW-6, and EMW-4, EBMUD does not need to obtain DTSC s written approval before conducting groundwater monitoring activities.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	06/28/2012
Comments:	During the April 18, 2012 inspection, DTSC confirmed that EBMUD has continued to use the site for industrial purpose. No restricted land uses (day care, private residences, etc.) were observed on the property. With the exception of the DTSC approved soil management activity at the Building 1101 area, no soil excavation or dewatering has occurred on the property. DTSC observed that the Building 1070 Yard s engineered asphalt cap to be in good integrity as designed.
Future Area Name:	Basewide
Future Sub Area Name:	Not reported
Future Document Type:	5 Year Review Reports

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

Future Due Date: 2022
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Facility ID: 1970015
Status: No Further Action
Status Date: 06/30/2007
Site Code: 201107
Site Type: State Response
Site Type Detailed: Open Base
Acres: 16
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Henry Wong
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA
Latitude: 37.82409
Longitude: -122.2984
APN: NONE SPECIFIED
Past Use: DEGREASING FACILITY, OIL/WATER SEPARATORS, RECYCLING - DRUM
Potential COC: * WASTE OIL & MIXED OIL * Metals - Arsenic * OIL/WATER SEPARATION SLUDGE * Metals - Lead * HALOGENATED SOLVENTS
Confirmed COC: NONE SPECIFIED
Potential Description: OTH, SED, SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Calsite:
Region: BERKELEY
Facility ID: 01970015

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

Facility Type: OPEN
Type: OPEN MILITARY BASE
Branch: NO
Branch Name: OMF-NORTHERN CALIF
File Name: OAB HEROIC WAR DEAD USAR
State Senate District: 07232003
Status: ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
NPL: Not Listed
SIC Code: 97
SIC Name: NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Access: Not reported
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Not reported
Staff Member Responsible for Site: HWONG
Supervisor Responsible for Site: Not reported
Region Water Control Board: Not reported
Region Water Control Board Name: Not reported
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 16
State Senate District Code: 09
Facility ID: 01970015
Activity: RAW
Activity Name: REMOVAL ACTION WORKPLAN
AWP Code: IR1
Proposed Budget: 0
AWP Completion Date: 04152003
Revised Due Date: Not reported
Comments Date: 04152003
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970015
Activity: CEQA
Activity Name: CEQA INCLUDING NEGATIVE DECS
AWP Code: IR1
Proposed Budget: 0
AWP Completion Date: Not reported

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

Revised Due Date: Not reported
Comments Date: 04152003
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Alternate Address: 2400 ENGINEER ROAD
Alternate City,St,Zip: OAKLAND, CA 94604
Alternate Address: 4235 YORKTOWN AVENUE
Alternate City,St,Zip: LOS ALAMITOS, CA 90720
Background Info: OAB Heroic War Dead USAR, also known as the United States Army Re
serve Center, Oakland, is located near the eastern terminus of th
e San Francisco-Oakland Bay Bridge. Installation Restoration (IR
) Site 1 is located at the northwestern portion of the USAR Cente
r. The site consists of a wash rack (WR) which is a concrete pad
, a below-grade oil water separator (OWS), and the surrounding so
il. The WR/OWS is approximately 15-feet by 20-feet in dimension.
The site immediately surrounding the WR/OWS is unpaved and cove
red with soil and gravel. The previous owner, Oakland Army Base,
formerly used IR Site 1 to wash vehicles and engine components.
Operations ceased sometime prior to the USAR occupying the prope
rty in early 1970s. The USAR did not know of the existence of th
e WR/OWS until they were uncovered in 1994 during a grading opera
tion. The area has since been fenced to prevent unauthorized use
. Investigations reveal tha the soil contains concentrations of
petroleum hydrocarbons, metals, and volatile organic compounds (V
OCs) above regulatory guidelines. The shallow groundwater is als
o impacted with VOCs. From these results, it is surmised that th
e best course of action is to remove the WR/OWS and surrounding s
oil to minimize any further contamination to the groundwater. DT
SC has approved a Risk Assessment Workplan (RAW) for the removal
impacted soil and WR/OWS. The interim removal action would preve
nt any further degradation to the environment while aditional inv
estigation is conducted.
Comments Date: 04152003
Comments: RAW - IR1 -- Intallation Restoration Site 1 (IR1) consists of a w
Comments Date: 04152003
Comments: ash rack which is a concrete pad, a below-grade oil water separat
Comments Date: 04152003
Comments: or, and the surrounding soil. DTSC approved the Removal Action W
Comments Date: 04152003
Comments: orkpland for cleanup of IR1. CEQA - IR1 -- Installation Restora
Comments Date: 04152003
Comments: tion Site 1 (IR1) consists of a wash rack which is a concrete pad
Comments Date: 04152003

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

Comments:	, a below-grade oil water separator, and the surrounding soil. D
Comments Date:	04152003
Comments:	TSC approved the Notice of Exemption for the discretionary decisi
Comments Date:	04152003
Comments:	on on the Removal Action Workplan for cleanup of IR1.
Comments Date:	08182004
Comments:	RA - IR1 -- Installation Restoration Site 1 (IR1) consists of a w
Comments Date:	08182004
Comments:	ash rack which is a concrete pad, a below-grade oil water separat
Comments Date:	08182004
Comments:	or, and the surrounding soil. The Army Reserve implemented the D
Comments Date:	08182004
Comments:	TSC-approved Removal Action Workplan, removed approximately 900 c
Comments Date:	08182004
Comments:	ubic yards of debris and impacted soil, disposed the excavated ma
Comments Date:	08182004
Comments:	terial at appropriated permitted off-site land disposal facilitie
Comments Date:	08182004
Comments:	s, collected confirmation soil samples, backfilled the excavation
Comments Date:	08182004
Comments:	, and restored the ground surface with asphalt pavement. DTSC co
Comments Date:	08182004
Comments:	ncurs that the Army Reserve has implemented the activities as spe
Comments Date:	08182004
Comments:	cified in the Removal Action Workplan. DTSC hereby approved the
Comments Date:	08182004
Comments:	Removal Action Report on August 18, 2004.
ID Name:	CALSTARS CODE
ID Value:	201107
Alternate Name:	UNITED STATES ARMY RESERVE CENTER
Alternate Name:	OAB HEROIC WAR DEAD USAR
Alternate Name:	OAB Heroic War Dead USAR Aka: Heroic W
Alternate Name:	Not reported
Special Programs Code:	Not reported
Special Programs Name:	Not reported

DEED:

Envirostor ID:	80001225
Area:	BASEWIDE
Sub Area:	Not reported
Site Type:	STATE RESPONSE
Status:	CERTIFIED / OPERATION & MAINTENANCE
Agency:	Not reported
Covenant Uploaded:	Not reported
Deed Date(s):	06/29/2007
File Name:	Envirostor Land Use Restrictions

MCS:

Global Id:	T0600123986
Latitude:	37.82431
Longitude:	-122.2974
Case Type:	Military Cleanup Site
Status:	Completed - Case Closed
Status Date:	05/30/2007
Lead Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Caseworker:	HW

HEROIC WAR DEAD EBMUD (Continued) **S105954429**

Local Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number:	Not reported
LOC Case Number:	01970015
File Location:	DTSC
Potential Media Affect:	Not reported
EDR Link ID:	T0600123986
Potential Contaminants of Concern:	Not reported
Site History:	From Envirostor: NO FURTHER ACTION (05/30/07): DTSC had approved the Remedial Investigation Report on 5/25/07 and inactivated the OAB Heroic War Dead USAR project on 5/30/07. The Army Reserve had requested DTSC to continue subsequent cleanup activities under a new project Oakland Army Reserve Exchange with a different funding source. Please go to Oakland Army Reserve Exchange for further project status. (Geotracker case # T10000001240) PROJECT INFORMATION: OAB Heroic War Dead USAR, also known as the United States Army Reserve Center, is located near the eastern terminus of the San Francisco-Oakland Bay Bridge. Installation Restoration (IR) Site 1 is located at the northwestern portion of the USAR Center. The site consists of a wash rack (WR) which is a concrete pad, a below-grade oil water separator (OWS), and the surrounding soil. The WR/OWS is approximately 15-feet by 20-feet in dimension. The site immediately surrounding the WR/OWS is unpaved and covered with soil and gravel. The previous owner, Oakland Army Base, formerly used IR Site 1 to wash vehicles and engine components. Operations ceased sometime prior to the USAR occupying the property in early 1970s. The USAR did not know of the existence of the WR/OWS until they were uncovered in 1994 during a grading operation. The area has since been fenced to prevent unauthorized use. Investigations reveal that the soil contains concentrations of petroleum hydrocarbons, metals, and volatile organic compounds (VOCs) above regulatory guidelines. DTSC had approved a Removal Action Workplan for the impacted soil and WR/OWS, and accepted the Removal Action Report. The Army Reserve also monitored the groundwater quality and prepared a Remedial Investigation Report.

Click here to access the California GeoTracker records for this facility:

CERS TANKS:

Site ID:	257285
CERS ID:	T0600123986
CERS Description:	Military Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	ALEC NAUGLE - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY STREET, SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

191 **NE** **1/2-1** **0.953 mi.** **5030 ft.**	**SOUTHERN PACIFIC - DESERT RAILYARD** **CYPRESS CORRIDOR** **OAKLAND, CA 94607**	**CA RESPONSE** **CA ENVIROSTOR** **CA HIST Cal-Sites** **CA DEED** **CA HIST CORTESE**	**S101272671** **N/A**

Relative:
Lower

Actual:
10 ft.

AWP:

AWP Facility ID:	01400009
Region Code:	2
Region:	BERKELEY
SMBR Branch Code:	NC
SMBR Branch Unit:	NORTH COAST
Site Name.:	SOUTHERN PACIFIC DESERT RAILYARD
Current Status Date:	06301993
Current Status:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency Code:	DTSC
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type:	responsible party
Awp Site Type:	RESPONSIBLE PARTY
NPL:	Not Listed
Tier Of AWP Site:	Not reported
Source Of Funding:	C
Responsible Staff Member:	JSOTO
Supervisor Responsible:	Not reported
SIC Code:	40
Facility SIC:	RAILROAD TRANSPORTATION
RWQCB Code:	SF
RWQCB Associated With Site:	SAN FRANCISCO BAY
Site Access Controlled:	Controlled
Site Listed HWS List:	Not reported
Hazard Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Not reported
# Of Contamination Sources:	0
Lat/Long:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Description Of Entity:	Not reported
State Assembly Distt Code:	16
State Senate District:	09

RESPONSE:

Facility ID:	1400009
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	48
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Claude Jemison
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Site Code:	200486
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	18
Senate:	09
Special Program Status:	Not reported
Status:	Certified O&M - Land Use Restrictions Only
Status Date:	05/28/2009

SOUTHERN PACIFIC - DESERT RAILYARD (Continued) **S101272671**

Restricted Use: YES
Funding: Responsible Party
Latitude: 37.82174
Longitude: -122.2926
APN: NONE SPECIFIED
Past Use: RAIL ROAD MAINTENANCE SHOP
Potential COC : Lead Polynuclear aromatic hydrocarbons (PAHs TPH-MOTOR OIL Trichloroethylene (TCE 1,2-Dichloroethylene (cis
Confirmed COC: Polynuclear aromatic hydrocarbons (PAHs Trichloroethylene (TCE 1,2-Dichloroethylene (cis Lead TPH-MOTOR OIL
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 1400009
Status: Certified O&M - Land Use Restrictions Only
Status Date: 05/28/2009
Site Code: 200486
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 48
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Claude Jemison
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Not reported
Restricted Use: YES
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.82174
Longitude: -122.2926
APN: NONE SPECIFIED
Past Use: RAIL ROAD MAINTENANCE SHOP
Potential COC: Lead Polynuclear aromatic hydrocarbons (PAHs TPH-MOTOR OIL Trichloroethylene (TCE 1,2-Dichloroethylene (cis

SOUTHERN PACIFIC - DESERT RAILYARD (Continued) **S101272671**

Confirmed COC: Polynuclear aromatic hydrocarbons (PAHs Trichloroethylene (TCE 1,2-Dichloroethylene (cis Lead TPH-MOTOR OIL
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Calsite:
Region: BERKELEY
Facility ID: 01400009
Facility Type: RP
Type: RESPONSIBLE PARTY
Branch: NC
Branch Name: NORTH COAST
File Name: SOUTHERN PACIFIC DESERT RAILYARD
State Senate District: 06301993
Status: ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
NPL: Not Listed
SIC Code: 40
SIC Name: RAILROAD TRANSPORTATION
Access: Controlled
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Not reported
Staff Member Responsible for Site: JSOTO
Supervisor Responsible for Site: Not reported
Region Water Control Board: SF
Region Water Control Board Name: SAN FRANCISCO BAY
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 16
State Senate District Code: 09
Facility ID: 01400009
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: RAO

SOUTHERN PACIFIC - DESERT RAILYARD (Continued) **S101272671**

Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 06201994
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01400009
Activity: RIFS
Activity Name: REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 10101997
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01400009
Activity: CERT
Activity Name: CERTIFICATION
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: 07022005
Revised Due Date: 07012006
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE

SOUTHERN PACIFIC - DESERT RAILYARD (Continued) **S101272671**

Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01400009
Activity: RAW
Activity Name: REMOVAL ACTION WORKPLAN
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 03201998
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01400009
Activity: RA
Activity Name: REMOVAL ACTION
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: 07012005
Revised Due Date: 07012006
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0

SOUTHERN PACIFIC - DESERT RAILYARD (Continued) **S101272671**

For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01400009
Activity:	CEQA
Activity Name:	CEQA INCLUDING NEGATIVE DECS
AWP Code:	NOE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	03201998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01400009
Activity:	DES
Activity Name:	DESIGN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	07161999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0

Alternate Address: CYPRESS CORRIDOR
Alternate City,St,Zip: OAKLAND, CA 94607
Background Info: Site has been used as a railyard for approximately 90 years. Petroleum hydrocarbons and metals have been detected along the rail lines. An Imminent or Substantial Endangerment order was issued in June 1994 to Southern Pacific. In October 1997, the Remedial Investigation Report was approved. Investigations

SOUTHERN PACIFIC - DESERT RAILYARD (Continued) **S101272671**

mainly detected high boiling petroleum hydrocarbons (JB oil, motor oil or oil and grease) in the soil (fill material). Other chemicals such as lead, volatile organic compounds, polycyclic aromatic hydrocarbons, and pesticides were detected in isolated area of the Site at low concentrations. Chemicals detected in the groundwater included cis-1,2-dichloroethene and trichloroethene in isolated area.

Comments Date:	03201998
Comments:	Approved RAW which required that a Deed Restriction be recorded
Comments Date:	03201998
Comments:	for the entire site and asphalt capping of the Southern Elevated
Comments Date:	03201998
Comments:	portion of the site. The deed restrictions for the three
Comments Date:	03201998
Comments:	sections of the Site would prohibit residential, day care
Comments Date:	03201998
Comments:	schools, and hospitals on the property.
Comments Date:	06201994
Comments:	Issued I or SE Order.
Comments Date:	10101997
Comments:	Approved RIFS. Investigations mainly detected high boiling
Comments Date:	10101997
Comments:	petroleum hydrocarbons (JB oil, motor oil or oil and grease) in
Comments Date:	10101997
Comments:	the soil (fill material). Other chemicals such as lead,
Comments Date:	10101997
Comments:	volatile organic compounds, polycyclic aromatic hydrocarbons,
Comments Date:	10101997
Comments:	and pesticides were detected in isolated of the site at low
Comments Date:	10101997
Comments:	concentrations. Chemicals detected in the groundwater included
Comments Date:	10101997
Comments:	cis-1,2-dichloroethene and trichloroethene in isolated area.
Comments Date:	10101997
Comments:	The Site was divided into three sections (Northern Elevated,
Comments Date:	10101997
Comments:	at-grade and Southern Elevated) during the investigation.
ID Name:	EPA IDENTIFICATION NUMBER
ID Value:	CAD000628198
ID Name:	CALSTARS CODE
ID Value:	200486
Alternate Name:	SOUTHERN PACIFIC - DESERT RAILYARD
Alternate Name:	CYPRESS RECONSTRUCTION
Alternate Name:	SOUTHERN PACIFIC DESERT RAILYARD
Alternate Name:	Not reported
Special Programs Code:	Not reported
Special Programs Name:	Not reported

DEED:

Envirostor ID:	1400009
Area:	PROJECT WIDE
Sub Area:	Not reported
Site Type:	STATE RESPONSE
Status:	CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency:	Not reported
Covenant Uploaded:	Not reported
Deed Date(s):	03/13/2009

SOUTHERN PACIFIC - DESERT RAILYARD (Continued) **S101272671**

File Name: Envirostor Land Use Restrictions

HIST CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	CALSI
Reg Id:	01400009
Region:	CORTESE
Facility County Code:	1
Reg By:	CALSI
Reg Id:	01400010

192
NNW
1/2-1
0.955 mi.
5040 ft.

PORT OF OAKLAND / CYPRESS FREEWAY
I-80 FRONTAGE ROAD AND BURMA ROAD
OAKLAND, CA 94607

CA ENVIROSTOR **S116165223**
CA VCP **N/A**

Relative:
Lower

Actual:
7 ft.

ENVIROSTOR:

Facility ID:	1400011
Status:	No Further Action
Status Date:	04/21/2003
Site Code:	201019
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	0.9
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Lynn Nakashima
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.82361
Longitude:	-122.3097
APN:	NONE SPECIFIED
Past Use:	RAILROAD RIGHT OF WAY
Potential COC:	NONE SPECIFIED No Contaminants found
Confirmed COC:	No Contaminants found
Potential Description:	NMA
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported

PORT OF OAKLAND / CYPRESS FREEWAY (Continued) **S116165223**

Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

VCP:

Facility ID:	1400011
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0.9
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Lynn Nakashima
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Site Code:	201019
Assembly:	18
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	No Further Action
Status Date:	04/21/2003
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.82361 / -122.3097
APN:	NONE SPECIFIED
Past Use:	RAILROAD RIGHT OF WAY
Potential COC:	NONE SPECIFIED,31000
Confirmed COC:	31000
Potential Description:	NMA
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

193
ENE
1/2-1
0.959 mi.
5065 ft.

COMMERCIAL BUILDINGS
1250-1276, 1284 W. GRAND & 2232 POPLAR
OAKLAND, CA 94607

CA RESPONSE
CA ENVIROSTOR
CA HIST Cal-Sites
CA Cortese
CA CERS

S105861003
N/A

Relative:
Lower

Actual:
12 ft.

AWP:
AWP Facility ID: 01720110
Region Code: 2
Region: BERKELEY
SMBR Branch Code: NC
SMBR Branch Unit: NORTH COAST
Site Name.: COMMERCIAL BUILDINGS
Current Status Date: 06102003
Current Status: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency Code: DTSC
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type: responsible party
Awp Site Type: RESPONSIBLE PARTY
NPL: Not Listed
Tier Of AWP Site: Not reported
Source Of Funding: C
Responsible Staff Member: JNAITO
Supervisor Responsible: Not reported
SIC Code: 72
Facility SIC: PERSONAL SERVICES
RWQCB Code: SF
RWQCB Associated With Site: SAN FRANCISCO BAY
Site Access Controlled: Not reported
Site Listed HWS List: Not reported
Hazard Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Not reported
Of Contamination Sources: 0
Lat/Long: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Description Of Entity: Not reported
State Assembly Distt Code: 16
State Senate District: 09

RESPONSE:
Facility ID: 1720110
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: 0.67
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Moises Carvalho
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Site Code: 201386
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 18
Senate: 09
Special Program Status: Not reported
Status: Active
Status Date: 06/10/2003

COMMERCIAL BUILDINGS (Continued) **S105861003**

Restricted Use: NO
Funding: Responsible Party
Latitude: 37.81654
Longitude: -122.2865
APN: 005-042400600
Past Use: DRY CLEANING
Potential COC : Tetrachloroethylene (PCE Trichloroethylene (TCE Vinyl chloride 1,2-Dichloroethylene (cis
Confirmed COC: Tetrachloroethylene (PCE Trichloroethylene (TCE Vinyl chloride 1,2-Dichloroethylene (cis
Potential Description: OTH, SOIL, SV
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 1720110
Status: Active
Status Date: 06/10/2003
Site Code: 201386
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 0.67
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Moises Carvalho
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.81654
Longitude: -122.2865
APN: 005-042400600
Past Use: DRY CLEANING
Potential COC: Tetrachloroethylene (PCE Trichloroethylene (TCE Vinyl chloride 1,2-Dichloroethylene (cis

COMMERCIAL BUILDINGS (Continued) **S105861003**

Confirmed COC: Tetrachloroethylene (PCE Trichloroethylene (TCE Vinyl chloride 1,2-Dichloroethylene (cis
Potential Description: OTH, SOIL, SV
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Calsite:
Region: BERKELEY
Facility ID: 01720110
Facility Type: RP
Type: RESPONSIBLE PARTY
Branch: NC
Branch Name: NORTH COAST
File Name: COMMERCIAL BUILDINGS
State Senate District: 06102003
Status: ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
NPL: Not Listed
SIC Code: 72
SIC Name: PERSONAL SERVICES
Access: Not reported
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Not reported
Staff Member Responsible for Site: JNAITO
Supervisor Responsible for Site: Not reported
Region Water Control Board: SF
Region Water Control Board Name: SAN FRANCISCO BAY
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 16
State Senate District Code: 09
Facility ID: 01720110
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: IS&E

COMMERCIAL BUILDINGS (Continued) **S105861003**

Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 07092003
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01720110
Activity: RIFS
Activity Name: REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: 07312005
Revised Due Date: 07312006
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01720110
Activity: RAP
Activity Name: REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: 01312006
Revised Due Date: 01312007
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE

COMMERCIAL BUILDINGS (Continued) **S105861003**

Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01720110
Activity:	DES
Activity Name:	DESIGN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	04302006
Revised Due Date:	04302007
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01720110
Activity:	RMDL
Activity Name:	REMEDIAL ACTION (RAP REQUIRED)
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	09302007
Revised Due Date:	09302008
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0

COMMERCIAL BUILDINGS (Continued) **S105861003**

For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01720110
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	10312007
Revised Due Date:	12312008
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	1250-1276, 1284 W. GRAND & 2232 POPLAR
Alternate City,St,Zip:	OAKLAND, CA 94607
Background Info:	The approximately 2/3 acre Site is flat and contains four one-story buildings, an asphalt parking lot, a wood and steel shed and a dirt vacant lot. The 1284 West Grand property formerly contained a dry cleaner. PCE and other volatile organic compounds have been detected in soil, groundwater and indoor air. Not reported Not reported Not reported Not reported
Comments Date:	07092003
Comments:	Issued Order to current and past owners and operators.
ID Name:	CALSTARS CODE
ID Value:	201386
Alternate Name:	COMMERCIAL BUILDINGS
Alternate Name:	Not reported
Special Programs Code:	Not reported
Special Programs Name:	Not reported

CORTESE:

Region:	CORTESE
Envirostor Id:	1720110
Site/Facility Type:	STATE RESPONSE
Cleanup Status:	ACTIVE
Status Date:	06/10/2003
Site Code:	201386
Latitude:	37.816549
Longitude:	-122.28659
Owner:	Not reported

COMMERCIAL BUILDINGS (Continued) **S105861003**

Enf Type: Not reported
Swat R: Not reported
Flag: envirostor
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Haz Waste & Substances Sites

CERS TANKS:
Site ID: 336272
CERS ID: 01720110
CERS Description: State Response

Affiliation:
Affiliation Type Desc: Lead Project Manager
Entity Name: Moises Carvalho
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: BERKELEY
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Supervisor
Entity Name: MARK PIROS
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

AO194 **KANTOR WAREHOUSE** **CA LUST** **U000057305**
NE **2525 MANDELA** **CA Alameda County CS** **N/A**
1/2-1 **OAKLAND, CA 94607** **CA HIST CORTESE**
0.977 mi. **CA Notify 65**
5157 ft. **Site 1 of 2 in cluster AO** **CA CERS**

Relative:
Lower

Actual:
11 ft.

LUST:
Lead Agency: ALAMEDA COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100783
Global Id: T0600100783
Latitude: 37.820296
Longitude: -122.288373
Status: Completed - Case Closed
Status Date: 03/18/1996
Case Worker: Not reported
RB Case Number: 01-0849
Local Agency: Not reported
File Location: All Files are on GeoTracker or in the Local Agency Database

KANTOR WAREHOUSE (Continued) **U000057305**

Local Case Number: RO0000623
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0600100783
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600100783
Action Type: Other
Date: 07/10/1989
Action: Leak Reported

Global Id: T0600100783
Action Type: REMEDIATION
Date: 09/09/9999
Action: Excavation

LUST:
Global Id: T0600100783
Status: Completed - Case Closed
Status Date: 03/18/1996

Global Id: T0600100783
Status: Open - Case Begin Date
Status Date: 06/30/1989

LUST REG 2:
Region: 2
Facility Id: 01-0849
Facility Status: Case Closed
Case Number: 3694
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Case Closed
Record Id: RO0000623

KANTOR WAREHOUSE (Continued) **U000057305**

PE: 5602
Facility Status: Case Closed
Latitude: 37.819755016
Longitude: -122.28952895

HIST CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0849

NOTIFY 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported

CERS TANKS:
Site ID: 193066
CERS ID: T0600100783
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

AO195
NE
1/2-1
0.977 mi.
5157 ft.

TKG CALIFORNIA STORAGE
2450 MANDELA PARKWAY
OAKLAND, CA 94607

CA ENVIROSTOR
CA VCP
CA DEED

S108936104
N/A

Site 2 of 2 in cluster AO

Relative:
Lower

Actual:
11 ft.

ENVIROSTOR:
Facility ID: 60000712
Status: Certified O&M - Land Use Restrictions Only
Status Date: 05/18/2010
Site Code: 201765
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 0.74
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Claude Jemison
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley

TKG CALIFORNIA STORAGE (Continued) **S108936104**

Assembly:	18
Senate:	09
Special Program:	Not reported
Restricted Use:	YES
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.81953
Longitude:	-122.2886
APN:	007-0578-001-05, 7-578-1-5
Past Use:	FUEL - VEHICLE STORAGE/ REFUELING, MACHINE SHOP, METAL FINISHING, TRANSPORTATION - WAREHOUSING
Potential COC:	Benzene Lead TPH-diesel TPH-gas TPH-MOTOR OIL Vinyl chloride Acetone Chromium III Naphthalene
Confirmed COC:	Naphthalene TPH-diesel TPH-gas Acetone Chromium III TPH-MOTOR OIL Vinyl chloride Benzene Lead
Potential Description:	SOIL
Alias Name:	007-0578-001-05
Alias Type:	APN
Alias Name:	7-578-1-5
Alias Type:	APN
Alias Name:	110033619939
Alias Type:	EPA (FRS #)
Alias Name:	201765
Alias Type:	Project Code (Site Code)
Alias Name:	60000712
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	05/18/2010
Comments:	The Final Supplemental Site Characterization and Risk Evaluation Report summarized the results of site investigations and included a screening level risk evaluation. Based on the risk evaluation, it was concluded there is no significant human health risk with the current Site conditions and use, but there could be a significant risk should the site use change. A Land Use Covenant has been been put in place that restricts the use of the site. No further actions are required for the site except those required by the Land Use Covenant. Annual inspections are to be performed and inspection reports are to be submitted to DTSC.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	01/05/2010
Comments:	DTSC determined that its approval of the Supplemental Site Characterization and Risk Evaluation Report, with the recommendation to place a land use covenant on the Site, was a Class 30 Categorical Exemption under the California Environmental Quality Act.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction
Completed Date:	03/11/2010
Comments:	A Land Use Covenant was recorded with the Alameda County Recorder’s Office.

TKG CALIFORNIA STORAGE (Continued) **S108936104**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 08/30/2011
Comments: Demand Letter #2

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Land Use Restriction Monitoring Report
Completed Date: 02/04/2011
Comments: StorageMart, the site owner, completed the annual inspection and submitted the report required by Section 4.06 of the Land Use Covenant that is in place. Only minor cracking of asphalt and concrete pavement and the building slab were observed. No intrusive activities have occurred on the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 08/03/2011
Comments: Demand Letter #1

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 12/15/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 01/27/2012
Comments: Demand letter #1

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/04/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 02/27/2012
Comments: Demand letter #2

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/04/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/15/2015
Comments: Not reported

TKG CALIFORNIA STORAGE (Continued) **S108936104**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/14/2016
Comments:	An environmental consultant, on behalf of TKG California Storage, LLC, the site owner, performed an annual inspection on January 9, 2016 and submitted an inspection report as required by Section 4.06 of the Land Use Covenant that was recorded for the Site on March 11, 2010. No major cracks or evidence of intrusive activities were observed in the exterior asphalt and concrete.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/04/2017
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/16/2014
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	12/13/2006
Comments:	The Phase I Environmental Site Assessment was submitted with the VCA Agreement as a final document. DTSC did not comment on it.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	09/25/2006
Comments:	Phase II Site Assessment was submitted as a final with the MOA application.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Workplan
Completed Date:	12/25/2006
Comments:	Additional Soil and Groundwater Investigation Report was submitted as Final with the MOA application.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Workplan
Completed Date:	04/09/2008
Comments:	Workplan approval letter signed April 9, 2008.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Risk Assessment Report
Completed Date:	01/05/2010
Comments:	The Supplemental Site Characterization and Risk Evaluation Report summarizes the results of all soil, grab groundwater, and sub-slab soil vapor sampling performed on the Site. The Report all includes a

TKG CALIFORNIA STORAGE (Continued) **S108936104**

risk evaluation that considers potential risk to current workers, future workers, and hypothetical future residents should Site use change. The Report recommended no further action under the current land use with the exception of putting in place a land use covenant that restricts the use of the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 02/26/2009
Comments: The Community Profile was finalized and approved by the DTSC Public Participation Specialist.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 05/10/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 05/05/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 03/29/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/23/2012
Comments: An annual land use restriction monitoring inspection was performed and a report was submitted by the property owner as required by paragraph 4.06 of the land use covenant. The observations made during the inspection noted minor cracking in the asphalt and concrete pavement. No intrusive activities have occurred on the property. DTSC approved the annual report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/21/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/16/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report

TKG CALIFORNIA STORAGE (Continued) **S108936104**

Completed Date:	05/05/2016
Comments:	An environmental consultant, on behalf of TKG California Storage, LLC, the site owner, performed an annual inspection on January 9, 2016 and submitted an inspection report as required by Section 4.06 of the Land Use Covenant that was recorded for the Site on March 11, 2010. No major cracks or evidence of intrusive activities were observed in the exterior asphalt and concrete.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction Monitoring Report
Completed Date:	02/23/2017
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction Monitoring Report
Completed Date:	03/04/2014
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction Monitoring Report
Completed Date:	02/22/2018
Comments:	TKG California Storage LLC personnel performed an annual inspection on February 14,2018 to verify compliance with the Land Use Covenant and to determine the condition of the pavement that acts as a cap over contaminated soil. No major cracks or deterioration were observed on the exterior asphalt and concrete. The Site Inspection Record satisfies the requirements of Section 4.06 of the Covenant for this annual reporting period.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/05/2018
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	11/30/2007
Comments:	Not reported
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	5 Year Review Reports
Future Due Date:	2021
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

VCP:

Facility ID:	60000712
Site Type:	Voluntary Cleanup

TKG CALIFORNIA STORAGE (Continued) **S108936104**

Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 0.74
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Claude Jemison
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Site Code: 201765
Assembly: 18
Senate: 09
Special Programs Code: Not reported
Status: Certified O&M - Land Use Restrictions Only
Status Date: 05/18/2010
Restricted Use: YES
Funding: Responsible Party
Lat/Long: 37.81953 / -122.2886
APN: 007-0578-001-05, 7-578-1-5
Past Use: FUEL - VEHICLE STORAGE/ REFUELING, MACHINE SHOP, METAL FINISHING, TRANSPORTATION - WAREHOUSING
Potential COC: 30003, 30013, 30024, 30025, 3002502, 30028, 30032, 30152, 30484
Confirmed COC: 30484,30024,30025,30032,30152,3002502,30028,30003,30013
Potential Description: SOIL
Alias Name: 007-0578-001-05
Alias Type: APN
Alias Name: 7-578-1-5
Alias Type: APN
Alias Name: 110033619939
Alias Type: EPA (FRS #)
Alias Name: 201765
Alias Type: Project Code (Site Code)
Alias Name: 60000712
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 05/18/2010
Comments: The Final Supplemental Site Characterization and Risk Evaluation Report summarized the results of site investigations and included a screening level risk evaluation. Based on the risk evaluation, it was concluded there is no significant human health risk with the current Site conditions and use, but there could be a significant risk should the site use change. A Land Use Covenant has been been put in place that restricts the use of the site. No further actions are required for the site except those required by the Land Use Covenant. Annual inspections are to be performed and inspection reports are to be submitted to DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 01/05/2010
Comments: DTSC determined that its approval of the Supplemental Site Characterization and Risk Evaluation Report, with the recommendation

TKG CALIFORNIA STORAGE (Continued) **S108936104**

to place a land use covenant on the Site, was a Class 30 Categorical Exemption under the California Environmental Quality Act.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction
Completed Date:	03/11/2010
Comments:	A Land Use Covenant was recorded with the Alameda County Recorder’s Office.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Letter - Demand
Completed Date:	08/30/2011
Comments:	Demand Letter #2
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Land Use Restriction Monitoring Report
Completed Date:	02/04/2011
Comments:	StorageMart, the site owner, completed the annual inspection and submitted the report required by Section 4.06 of the Land Use Covenant that is in place. Only minor cracking of asphalt and concrete pavement and the building slab were observed. No intrusive activities have occurred on the site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Letter - Demand
Completed Date:	08/03/2011
Comments:	Demand Letter #1
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	12/15/2011
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Letter - Demand
Completed Date:	01/27/2012
Comments:	Demand letter #1
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/04/2012
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Letter - Demand
Completed Date:	02/27/2012
Comments:	Demand letter #2
Completed Area Name:	PROJECT WIDE

TKG CALIFORNIA STORAGE (Continued) **S108936104**

Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/04/2013
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/15/2015
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/14/2016
Comments:	An environmental consultant, on behalf of TKG California Storage, LLC, the site owner, performed an annual inspection on January 9, 2016 and submitted an inspection report as required by Section 4.06 of the Land Use Covenant that was recorded for the Site on March 11, 2010. No major cracks or evidence of intrusive activities were observed in the exterior asphalt and concrete.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/04/2017
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/16/2014
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	12/13/2006
Comments:	The Phase I Environmental Site Assessment was submitted with the VCA Agreement as a final document. DTSC did not comment on it.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	09/25/2006
Comments:	Phase II Site Assessment was submitted as a final with the MOA application.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Workplan
Completed Date:	12/25/2006
Comments:	Additional Soil and Groundwater Investigation Report was submitted as Final with the MOA application.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

TKG CALIFORNIA STORAGE (Continued) **S108936104**

Completed Document Type:	Site Characterization Workplan
Completed Date:	04/09/2008
Comments:	Workplan approval letter signed April 9, 2008.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Risk Assessment Report
Completed Date:	01/05/2010
Comments:	The Supplemental Site Characterization and Risk Evaluation Report summarizes the results of all soil, grab groundwater, and sub-slab soil vapor sampling performed on the Site. The Report all includes a risk evaluation that considers potential risk to current workers, future workers, and hypothetical future residents should Site use change. The Report recommended no further action under the current land use with the exception of putting in place a land use covenant that restricts the use of the Site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Community Profile
Completed Date:	02/26/2009
Comments:	The Community Profile was finalized and approved by the DTSC Public Participation Specialist.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	05/10/2008
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	05/05/2008
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Reports
Completed Date:	03/29/2016
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	03/23/2012
Comments:	An annual land use restriction monitoring inspection was performed and a report was submitted by the property owner as required by paragraph 4.06 of the land use covenant. The observations made during the inspection noted minor cracking in the asphalt and concrete pavement. No intrusive activities have occurred on the property. DTSC approved the annual report.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	03/21/2013

TKG CALIFORNIA STORAGE (Continued) **S108936104**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/16/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/05/2016
Comments: An environmental consultant, on behalf of TKG California Storage, LLC, the site owner, performed an annual inspection on January 9, 2016 and submitted an inspection report as required by Section 4.06 of the Land Use Covenant that was recorded for the Site on March 11, 2010. No major cracks or evidence of intrusive activities were observed in the exterior asphalt and concrete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 02/23/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 03/04/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 02/22/2018
Comments: TKG California Storage LLC personnel performed an annual inspection on February 14,2018 to verify compliance with the Land Use Covenant and to determine the condition of the pavement that acts as a cap over contaminated soil. No major cracks or deterioration were observed on the exterior asphalt and concrete. The Site Inspection Record satisfies the requirements of Section 4.06 of the Covenant for this annual reporting period.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/05/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 11/30/2007
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported

TKG CALIFORNIA STORAGE (Continued) **S108936104**

Future Document Type:	5 Year Review Reports
Future Due Date:	2021
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

DEED:

Envirostor ID:	60000712
Area:	PROJECT WIDE
Sub Area:	Not reported
Site Type:	VOLUNTARY CLEANUP
Status:	CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency:	Not reported
Covenant Uploaded:	Not reported
Deed Date(s):	03/11/2010
File Name:	Envirostor Land Use Restrictions

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196 **NE** **1/2-1** **0.979 mi.** **5171 ft.**	**RUSS ELLIOT, INC.** **2526 WOOD STREET** **OAKLAND, CA 94607**	**CA ENVIROSTOR**	**S118757103** **N/A**

Relative:
Lower

Actual:
10 ft.

ENVIROSTOR:

Facility ID:	60000363
Status:	No Action Required
Status Date:	02/08/2007
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	1.12
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Allan Fone
Supervisor:	Denise Tsuji
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	37.82112
Longitude:	-122.2906
APN:	007-0580-001-01, 7-580-1-1
Past Use:	FUEL - VEHICLE STORAGE/ REFUELING
Potential COC:	Methyl tertbutyl ether (MTBE
Confirmed COC:	Methyl tertbutyl ether (MTBE
Potential Description:	OTH
Alias Name:	007-0580-001-01
Alias Type:	APN
Alias Name:	7-580-1-1
Alias Type:	APN
Alias Name:	60000363

RUSS ELLIOT, INC. (Continued) **S118757103**

Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 09/12/2006
Comments: Roofing company is no longer at the site. Site is now occupied by Berkeley Repertory Scenery Shop.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/12/2007
Comments: Information requests prepared 8/7/06, reviewed and finalized; to be sent to current property owner and current operator.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 02/08/2007
Comments: EPA approval on 2/8/07. Recommendation was no further action for remediation lead (state or federal); not forwarded to triage. [County overseeing groundwater monitoring subsequent to cleanup of soil contaminated with petroleum products.]

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

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197 **OAKLAND ARMY RESERVE EXCHANGE** **CA RESPONSE** **S106965131**
NNE **15 ENGINEER ROAD** **CA ENVIROSTOR** **N/A**
1/2-1 **OAKLAND, CA 94607** **CA MCS**
0.990 mi.
5228 ft.

Relative:
Lower

Actual:
8 ft.

RESPONSE:
Facility ID: 71000002
Site Type: State Response
Site Type Detail: Closed Base
Acres: 42
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Henry Wong
Supervisor: Janet Naito
Division Branch: Cleanup Berkeley
Site Code: 201585
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 18
Senate: 09
Special Program Status: Voluntary Cleanup Program

OAKLAND ARMY RESERVE EXCHANGE (Continued) **S106965131**

Status: Certified
Status Date: 06/25/2009
Restricted Use: NO
Funding: Other Non-Military Funds
Latitude: 37.82430
Longitude: -122.2973
APN: NONE SPECIFIED
Past Use: TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, HOSPITAL, JUNKYARD, OIL/WATER SEPARATORS, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING
Potential COC : Arsenic Total Chromium (1:6 ratio Cr VI:Cr III Lead Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas TPH-JET FUEL TPH-MOTOR OIL Polynuclear aromatic hydrocarbons (PAHs
Confirmed COC: Arsenic Lead Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas TPH-MOTOR OIL
Potential Description: OTH, SOIL
Alias Name: 110033612357
Alias Type: EPA (FRS #)
Alias Name: T10000001240
Alias Type: GeoTracker Global ID
Alias Name: 201585
Alias Type: Project Code (Site Code)
Alias Name: 71000002
Alias Type: Envirostor ID Number
Alias Name: 80001200
Alias Type: Envirostor ID Number
Alias Name: 80001225
Alias Type: Envirostor ID Number
Alias Name: 80001227
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: P6+7
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/02/2004
Comments: DTSC approved the Remedial Action Plan Amendment for the Subaru Lot on August 2, 2004.

Completed Area Name: P18+19+21
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 12/04/2006
Comments: DTSC approved the Remedial Action Plan Amendment for Parcel 18 and Subparcels 19 and 21 on December 4, 2006. The parcels total approximately 6.76 acres. The selected remedy is institutional controls that prohibit sensitive land uses, prohibit the construction of groundwater wells and the extraction of groundwater, and require implementation and enforcement plan compliance.

Completed Area Name: P18+19+21
Completed Sub Area Name: Not reported
Completed Document Type: Deed/LUR Enforcement & Implementation Plan
Completed Date: 06/29/2007
Comments: The Implementation and Enforcement Plan is Section 4.02 of the Covenant to Restrict Use of Property, Environmental Restriction. DTSC signed the Covenant on 5/21/07. The Army Reserve signed the Covenant on 6/21/07. The Army Reserve recorded the Covenant with the Alameda

OAKLAND ARMY RESERVE EXCHANGE (Continued) **S106965131**

County Assessor’s Office on 6/29/07.

Completed Area Name: P18+19+21
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 06/29/2007
Comments: DTSC issued a conditional FOST Concurrence Letter to the Army Reserve on 6/14/07 stating that DTSC would concur with the subject FOST when: (a) the Army Reserve revise the environmental restriction in the FOST consistent with that in the Covenant to Restrict Use of Property, Environmental Restriction, and (b) execute the Covenant to Restrict Use of Property, Environmental Restriction, and recorded this covenant with the Alameda County Assessor s Office. The Army Reserve plans to transfer the parcels to the Port of Oakland by 6/29/07.

Completed Area Name: HWD
Completed Sub Area Name: Not reported
Completed Document Type: *Site Inspection (SI) Report
Completed Date: 05/29/2007
Comments: Information gathered during the Site Inspection program was used in the preparation of the Remedial Investigation Report. No action on the Site Inspection Report is needed.

Completed Area Name: P6+7
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 08/17/2004
Comments: Based upon existing information and our oversight on past investigation, remedy selection, and remedy implementation, DTSC is certifying that all necessary remedies for the Subaru Lot required in the approved RAP Amendment will be in place when the covenant is recorded with the Alameda County Assessor s Office. This covenant recordation is a required condition in the instructions for closure of escrow on the property.

Completed Area Name: P6+7
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 08/17/2004
Comments: DTSC concurred with the Finding of Suitability to Transfer (FOST) for an approximately 19-acre property at 63D Army Reserve Enclave, Oakland, CA, commonly known as the Subaru Lot, consisting of parcels 6 and 7, for transfer to the City of Oakland. The property is to be used for development consistent with the uses identified in the OBRA s Final Reuse Plan for the Former Oakland Army Base dated July 31, 2002.

Completed Area Name: P18+19+21
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Assessment
Completed Date: 12/04/2006
Comments: DTSC approved the Remedial Action Plan Amendment for Parcel 18 and Subparcels 19 and 21 on December 4, 2006. The parcels total approximately 6.76 acres. The selected remedy is institutional controls that prohibit sensitive land uses, prohibit the construction of groundwater wells and the extraction of groundwater, and require implementation and enforcement plan compliance. DTSC approved the

OAKLAND ARMY RESERVE EXCHANGE (Continued) **S106965131**

Notice of Determination on December 4, 2006 and filed the document with the State Clearinghouse on December 19, 2006.

Completed Area Name:	HWD
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Assessment
Completed Date:	06/07/2007
Comments:	DTSC approved the Notice of Exemption for the Heroic War Dead United States Army Reserve Center, in Oakland, California. DTSC had considered the proposed project activities, and determined that the project activities would not cause a significant environmental effect. The bases for this determination were (a) the limited project scale in an industrially developed area and (b) the lack of potential resources due to prior land disturbance and current site use patterns. DTSC will file the Notice of Exemption with the State s Office of Planning and Research in the week of June 11, 2007.

Completed Area Name:	P6+7
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	05/01/2009
Comments:	On August 2, 2004, DTSC approved the Amendment to Remedial Action Plan, which specified an institutional control remedy in a form of a land use covenant. The Army Reserve recorded the Covenant to Restrict Use of Property, Environmental Restriction on November 18, 2004 with the Alameda County Assessor s Office. Recordation of the covenant constitutes implementation of the remedial action. The Army Reserve and DTSC executed the Covenant to Restrict Use of Property, Environmental Restriction on November 18, 2004, which prohibits sensitive land uses, restricts construction of groundwater wells and the extraction of groundwater, and requires submittal of annual inspection reports. The City of Oakland and DTSC entered into a Consent Agreement identifying land use restrictions in the Covenant to Restrict Use of Property, Environmental Restriction. Specifically, the City of Oakland agreed to retain all inspection, certification, and reporting responsibilities as required in the Covenant, Section 4.02 and responsibility to pay all State costs associated with the administration of the Covenant pursuant to the California Code of Regulations, section 67391.1(h). The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, five-year statutory reviews are required for this site.

Completed Area Name:	P6+7
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Assessment
Completed Date:	08/27/2004
Comments:	Not reported

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	06/02/2006
Comments:	DTSC issued a letter acknowledging the receipt of the Army Reserve s letter dated May 12, 2006 which agrees to reimburse DTSC s oversight cost at the Oakland Army Reserve Exchange.

OAKLAND ARMY RESERVE EXCHANGE (Continued) **S106965131**

Completed Area Name: P6+7
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 05/02/2005
Comments: Not reported

Completed Area Name: P18+19+21
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/14/2007
Comments: Based upon existing information and DTSC’s oversight at Parcel 18 and Subparcels 19 and 21, DTSC has determined that the Army Reserve will have completed the required remedy pursuant to the RAP Amendment immediate upon execution and recordation of the "Covenant to Restrict Use of Property, Environmental Restriction." Covenant recordation is a required condition before the Army Reserve may transfer the subject property.

Completed Area Name: HWD
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/25/2009
Comments: On 6/25/09, DTSC completed the Remedial Action Certification for the "Heroic War Dead U.S. Army Reserve Center" site. The U.S. Army Reserve and East Bay Municipal Utility District implemented the remedy as selected in the Removal Action Workplan developed for the Heroic War Dead United States Army Reserve Center. Field cleanup activities included: (a) construction of an engineered asphalt cap over lead-impacted soil in the Building 1070 Yard; (b) construction of additional exploratory borings, test pits and an exploratory excavation in the Building 1064 Yard near the PV18 test pit area; and (c) installation of additional groundwater monitoring wells in the Building 1070 Yard. On 6/29/07, the Army Reserve recorded the "Covenant to Restrict Use of Property, Environmental Restriction" with the Alameda County Assessor s Office to establish land and groundwater use restrictions and require proper soil and groundwater management practices.

Completed Area Name: P18+19+21
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 05/01/2009
Comments: On December 4, 2006, DTSC approved the Remedial Action Plan Amendment, which specified an institutional control remedy in a form of a land use covenant. The Army Reserve recorded the Covenant to Restrict Use of Property, Environmental Restriction on June 29, 2007 with the Alameda County Assessor s Office. Recordation of the covenant constitutes implementation of the remedial action. The Army Reserve and DTSC executed the Covenant to Restrict Use of Property, Environmental Restriction on June 29, 2007, which prohibits sensitive land uses, restricts construction of groundwater wells and the extraction of groundwater, and requires submittal of annual inspection reports. The Port of Oakland and DTSC entered into a Consent Agreement identifying land use restrictions in the Covenant to Restrict Use of Property, Environmental Restriction. Specifically, the Port of Oakland agreed to retain all inspection, certification, and reporting responsibilities as required in the Covenant, Section

OAKLAND ARMY RESERVE EXCHANGE (Continued) **S106965131**

4.02 and responsibility to pay all State costs associated with the administration of the Covenant pursuant to the California Code of Regulations, section 67391.1(h). The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, five-year statutory reviews are required for this site. However, DTSC has determined that the Port of Oakland’s compliance with the annual inspection reporting requirements pursuant to the covenant would satisfy the five-year review requirement.

Completed Area Name: P18+19+21
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 06/29/2007
Comments: On 6/29/07 the Army Reserve transferred Parcel 18 and Subparcels 19 and 21 at the former Oakland Army Base to the Port of Oakland. On 6/29/07 the Port of Oakland and DTSC signed the Consent Agreement, which binds the Port of Oakland to comply with the environmental restrictions for Parcel 18 and Subparcels 19 and 21 as necessary to protect human health and the environment. These environmental restrictions are consistent with the DTSC-approved 12/4/06 Amendment to Final Remedial Action Plan, Oakland Army Base, Oakland, California, for Former Parcel 18 and Subparcels 19 and 21, Oakland United States Army Reserve Center #2 .

Completed Area Name: HWD
Completed Sub Area Name: Not reported
Completed Document Type: *Site Inspection (SI) Workplan
Completed Date: 09/27/2004
Comments: DTSC issued a no further comment letter on the SI Workplan.

Completed Area Name: HWD
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 05/29/2007
Comments: DTSC approved the Remedial Investigation/Feasibility Study Report (RI/FS) dated May 2007 for the Heroic War Dead U.S. Army Reserve Center. The RI/FS compiles, summarizes, and integrates the results of previous and current environmental studies conducted in order to identify remedial action objectives and a recommended remedial alternative for the property that is protective of human health and the environment. The work completed in support of this objective that has not previously been reported included the collection and analysis of soil samples from two areas of the property in September and October 2006 with impacts from lead and carcinogenic polynuclear aromatic hydrocarbons, screening to identify contaminants of concern, and performance of a Feasibility Study to evaluate potential remedial alternatives and to identify and describe recommended remedial actions for the entire 16-acre Heroic War Dead property.

Completed Area Name: HWD
Completed Sub Area Name: Not reported
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 06/07/2007
Comments: DTSC approved the Removal Action Workplan for the Heroic War Dead United States Army Reserve Center, in Oakland, California. The

OAKLAND ARMY RESERVE EXCHANGE (Continued) **S106965131**

selected remedy is Alternative 6, which include (a) institutional controls, (b) excavation and offsite disposal of polynuclear aromatic hydrocarbon-impacted soil at the Building 1064 Yard, (c) engineered asphalt cap for lead-impacted soil at the Building 1070 Yard, and (d) groundwater monitoring.

Completed Area Name: HWD
Completed Sub Area Name: Not reported
Completed Document Type: Deed/LUR Enforcement & Implementation Plan
Completed Date: 06/29/2007
Comments: The Implementation and Enforcement Plan is Section 4.02 of the Covenant to Restrict Use of Property, Environmental Restriction. DTSC signed the Covenant on 6/18/07. The Army Reserve signed the Covenant on 6/21/07. The Army Reserve recorded the Covenant with the Alameda County Assessor’s Office on 6/29/07.

Completed Area Name: P6+7
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 06/14/2004
Comments: On 6/14/04, DTSC issued a fact sheet informing the public of the draft Amendment to the Final Remedial Action Plan Oakland Army Base (draft RAP Amendment) for the Subaru Lot and inviting the community to review and comment on the draft RAP Amendment.

Completed Area Name: HWD
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 06/08/2007
Comments: DTSC approved the Remedial Design Work Plan for the Heroic War Dead United States Army Reserve Center, in Oakland, California. The plan details cleanup activities for the Building 1070 Yard at the Heroic War Dead site. The Army Reserve plans to complete cleanup activities in three weeks.

Completed Area Name: HWD
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/29/2007
Comments: Based upon existing information, DTSC’s oversight at the Heroic War Dead United States Army Reserve Center, and DTSC s review on the June 2007 Remedy Completion Report, DTSC has determined that the Army Reserve will have completed the required remedy pursuant to the Removal Action Workplan immediate upon execution and recordation of the "Covenant to Restrict Use of Property, Environmental Restriction" scheduled on 6/29/07. Covenant recordation is a required condition before the Army Reserve may transfer the subject property.

Completed Area Name: P18+19+21
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 10/23/2006
Comments: DTSC prepared a fact sheet for the Remedial Action Plan Amendment for Parcel 18 and Subparcels 19 and 21.

Completed Area Name: P18+19+21
Completed Sub Area Name: Not reported

OAKLAND ARMY RESERVE EXCHANGE (Continued) **S106965131**

Completed Document Type:	Public Notice
Completed Date:	10/23/2006
Comments:	DTSC prepared a public notice for the Remedial Action Plan Amendment for Parcel 18 and Subparcels 19 and 21. The 30-day public comment period starts on 10/23/06 and ends on 11/21/06. DTSC will hold a public meeting on 11/9/06.
Completed Area Name:	HWD
Completed Sub Area Name:	Not reported
Completed Document Type:	Finding of Suitability to Transfer
Completed Date:	06/29/2007
Comments:	On 6/27/07, DTSC issued the Finding of Suitability to Transfer Concurrence Letter for the Heroic War Dead United States Army Reserve Center conditioned upon recordation of the covenant. Covenant recordation is a required escrow instruction before the Army Reserve may transfer the subject property scheduled on 6/29/07. The Army Reserve shall record the enclosed Covenant to Restrict Use of Property, Environmental Restriction, with the Alameda County Assessor s Office.
Completed Area Name:	HWD
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	05/14/2007
Comments:	Not reported
Completed Area Name:	HWD
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	05/14/2007
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Facility ID:	71000002
Status:	Certified
Status Date:	06/25/2009
Site Code:	201585
Site Type:	State Response
Site Type Detailed:	Closed Base
Acres:	42
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Henry Wong
Supervisor:	Janet Naito
Division Branch:	Cleanup Berkeley
Assembly:	18

OAKLAND ARMY RESERVE EXCHANGE (Continued) **S106965131**

Senate:	09
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Other Non-Military Funds
Latitude:	37.82430
Longitude:	-122.2973
APN:	NONE SPECIFIED
Past Use:	TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, HOSPITAL, JUNKYARD, OIL/WATER SEPARATORS, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING
Potential COC:	Arsenic Total Chromium (1:6 ratio Cr VI:Cr III Lead Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas TPH-JET FUEL TPH-MOTOR OIL Polynuclear aromatic hydrocarbons (PAHs
Confirmed COC:	Arsenic Lead Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas TPH-MOTOR OIL
Potential Description:	OTH, SOIL
Alias Name:	110033612357
Alias Type:	EPA (FRS #)
Alias Name:	T10000001240
Alias Type:	GeoTracker Global ID
Alias Name:	201585
Alias Type:	Project Code (Site Code)
Alias Name:	71000002
Alias Type:	Envirostor ID Number
Alias Name:	80001200
Alias Type:	Envirostor ID Number
Alias Name:	80001225
Alias Type:	Envirostor ID Number
Alias Name:	80001227
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	P6+7
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Plan
Completed Date:	08/02/2004
Comments:	DTSC approved the Remedial Action Plan Amendment for the Subaru Lot on August 2, 2004.

Completed Area Name:	P18+19+21
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Plan
Completed Date:	12/04/2006
Comments:	DTSC approved the Remedial Action Plan Amendment for Parcel 18 and Subparcels 19 and 21 on December 4, 2006. The parcels total approximately 6.76 acres. The selected remedy is institutional controls that prohibit sensitive land uses, prohibit the construction of groundwater wells and the extraction of groundwater, and require implementation and enforcement plan compliance.

Completed Area Name:	P18+19+21
Completed Sub Area Name:	Not reported
Completed Document Type:	Deed/LUR Enforcement & Implementation Plan
Completed Date:	06/29/2007
Comments:	The Implementation and Enforcement Plan is Section 4.02 of the Covenant to Restrict Use of Property, Environmental Restriction. DTSC signed the Covenant on 5/21/07. The Army Reserve signed the Covenant

OAKLAND ARMY RESERVE EXCHANGE (Continued) **S106965131**

on 6/21/07. The Army Reserve recorded the Covenant with the Alameda County Assessor’s Office on 6/29/07.

Completed Area Name: P18+19+21
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 06/29/2007
Comments: DTSC issued a conditional FOST Concurrence Letter to the Army Reserve on 6/14/07 stating that DTSC would concur with the subject FOST when: (a) the Army Reserve revise the environmental restriction in the FOST consistent with that in the Covenant to Restrict Use of Property, Environmental Restriction, and (b) execute the Covenant to Restrict Use of Property, Environmental Restriction, and recorded this covenant with the Alameda County Assessor s Office. The Army Reserve plans to transfer the parcels to the Port of Oakland by 6/29/07.

Completed Area Name: HWD
Completed Sub Area Name: Not reported
Completed Document Type: *Site Inspection (SI) Report
Completed Date: 05/29/2007
Comments: Information gathered during the Site Inspection program was used in the preparation of the Remedial Investigation Report. No action on the Site Inspection Report is needed.

Completed Area Name: P6+7
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 08/17/2004
Comments: Based upon existing information and our oversight on past investigation, remedy selection, and remedy implementation, DTSC is certifying that all necessary remedies for the Subaru Lot required in the approved RAP Amendment will be in place when the covenant is recorded with the Alameda County Assessor s Office. This covenant recordation is a required condition in the instructions for closure of escrow on the property.

Completed Area Name: P6+7
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 08/17/2004
Comments: DTSC concurred with the Finding of Suitability to Transfer (FOST) for an approximately 19-acre property at 63D Army Reserve Enclave, Oakland, CA, commonly known as the Subaru Lot, consisting of parcels 6 and 7, for transfer to the City of Oakland. The property is to be used for development consistent with the uses identified in the OBRA s Final Reuse Plan for the Former Oakland Army Base dated July 31, 2002.

Completed Area Name: P18+19+21
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Assessment
Completed Date: 12/04/2006
Comments: DTSC approved the Remedial Action Plan Amendment for Parcel 18 and Subparcels 19 and 21 on December 4, 2006. The parcels total approximately 6.76 acres. The selected remedy is institutional controls that prohibit sensitive land uses, prohibit the construction of groundwater wells and the extraction of groundwater, and require

OAKLAND ARMY RESERVE EXCHANGE (Continued) **S106965131**

implementation and enforcement plan compliance. DTSC approved the Notice of Determination on December 4, 2006 and filed the document with the State Clearinghouse on December 19, 2006.

Completed Area Name:	HWD
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Assessment
Completed Date:	06/07/2007
Comments:	DTSC approved the Notice of Exemption for the Heroic War Dead United States Army Reserve Center, in Oakland, California. DTSC had considered the proposed project activities, and determined that the project activities would not cause a significant environmental effect. The bases for this determination were (a) the limited project scale in an industrially developed area and (b) the lack of potential resources due to prior land disturbance and current site use patterns. DTSC will file the Notice of Exemption with the State s Office of Planning and Research in the week of June 11, 2007.

Completed Area Name:	P6+7
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	05/01/2009
Comments:	On August 2, 2004, DTSC approved the Amendment to Remedial Action Plan, which specified an institutional control remedy in a form of a land use covenant. The Army Reserve recorded the Covenant to Restrict Use of Property, Environmental Restriction on November 18, 2004 with the Alameda County Assessor s Office. Recordation of the covenant constitutes implementation of the remedial action. The Army Reserve and DTSC executed the Covenant to Restrict Use of Property, Environmental Restriction on November 18, 2004, which prohibits sensitive land uses, restricts construction of groundwater wells and the extraction of groundwater, and requires submittal of annual inspection reports. The City of Oakland and DTSC entered into a Consent Agreement identifying land use restrictions in the Covenant to Restrict Use of Property, Environmental Restriction. Specifically, the City of Oakland agreed to retain all inspection, certification, and reporting responsibilities as required in the Covenant, Section 4.02 and responsibility to pay all State costs associated with the administration of the Covenant pursuant to the California Code of Regulations, section 67391.1(h). The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, five-year statutory reviews are required for this site.

Completed Area Name:	P6+7
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Assessment
Completed Date:	08/27/2004
Comments:	Not reported

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	06/02/2006
Comments:	DTSC issued a letter acknowledging the receipt of the Army Reserve s letter dated May 12, 2006 which agrees to reimburse DTSC s oversight

OAKLAND ARMY RESERVE EXCHANGE (Continued) **S106965131**

cost at the Oakland Army Reserve Exchange.

Completed Area Name:	P6+7
Completed Sub Area Name:	Not reported
Completed Document Type:	Consent Order
Completed Date:	05/02/2005
Comments:	Not reported
Completed Area Name:	P18+19+21
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/14/2007
Comments:	Based upon existing information and DTSC’s oversight at Parcel 18 and Subparcels 19 and 21, DTSC has determined that the Army Reserve will have completed the required remedy pursuant to the RAP Amendment immediate upon execution and recordation of the "Covenant to Restrict Use of Property, Environmental Restriction." Covenant recordation is a required condition before the Army Reserve may transfer the subject property.
Completed Area Name:	HWD
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/25/2009
Comments:	On 6/25/09, DTSC completed the Remedial Action Certification for the "Heroic War Dead U.S. Army Reserve Center" site. The U.S. Army Reserve and East Bay Municipal Utility District implemented the remedy as selected in the Removal Action Workplan developed for the Heroic War Dead United States Army Reserve Center. Field cleanup activities included: (a) construction of an engineered asphalt cap over lead-impacted soil in the Building 1070 Yard; (b) construction of additional exploratory borings, test pits and an exploratory excavation in the Building 1064 Yard near the PV18 test pit area; and (c) installation of additional groundwater monitoring wells in the Building 1070 Yard. On 6/29/07, the Army Reserve recorded the "Covenant to Restrict Use of Property, Environmental Restriction" with the Alameda County Assessor s Office to establish land and groundwater use restrictions and require proper soil and groundwater management practices.
Completed Area Name:	P18+19+21
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	05/01/2009
Comments:	On December 4, 2006, DTSC approved the Remedial Action Plan Amendment, which specified an institutional control remedy in a form of a land use covenant. The Army Reserve recorded the Covenant to Restrict Use of Property, Environmental Restriction on June 29, 2007 with the Alameda County Assessor s Office. Recordation of the covenant constitutes implementation of the remedial action. The Army Reserve and DTSC executed the Covenant to Restrict Use of Property, Environmental Restriction on June 29, 2007, which prohibits sensitive land uses, restricts construction of groundwater wells and the extraction of groundwater, and requires submittal of annual inspection reports. The Port of Oakland and DTSC entered into a Consent Agreement identifying land use restrictions in the Covenant to Restrict Use of Property, Environmental Restriction. Specifically,

OAKLAND ARMY RESERVE EXCHANGE (Continued) **S106965131**

the Port of Oakland agreed to retain all inspection, certification, and reporting responsibilities as required in the Covenant, Section 4.02 and responsibility to pay all State costs associated with the administration of the Covenant pursuant to the California Code of Regulations, section 67391.1(h). The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, five-year statutory reviews are required for this site. However, DTSC has determined that the Port of Oakland's compliance with the annual inspection reporting requirements pursuant to the covenant would satisfy the five-year review requirement.

Completed Area Name:	P18+19+21
Completed Sub Area Name:	Not reported
Completed Document Type:	Consent Order
Completed Date:	06/29/2007
Comments:	On 6/29/07 the Army Reserve transferred Parcel 18 and Subparcels 19 and 21 at the former Oakland Army Base to the Port of Oakland. On 6/29/07 the Port of Oakland and DTSC signed the Consent Agreement, which binds the Port of Oakland to comply with the environmental restrictions for Parcel 18 and Subparcels 19 and 21 as necessary to protect human health and the environment. These environmental restrictions are consistent with the DTSC-approved 12/4/06 Amendment to Final Remedial Action Plan, Oakland Army Base, Oakland, California, for Former Parcel 18 and Subparcels 19 and 21, Oakland United States Army Reserve Center #2 .

Completed Area Name:	HWD
Completed Sub Area Name:	Not reported
Completed Document Type:	*Site Inspection (SI) Workplan
Completed Date:	09/27/2004
Comments:	DTSC issued a no further comment letter on the SI Workplan.

Completed Area Name:	HWD
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation / Feasibility Study
Completed Date:	05/29/2007
Comments:	DTSC approved the Remedial Investigation/Feasibility Study Report (RI/FS) dated May 2007 for the Heroic War Dead U.S. Army Reserve Center. The RI/FS compiles, summarizes, and integrates the results of previous and current environmental studies conducted in order to identify remedial action objectives and a recommended remedial alternative for the property that is protective of human health and the environment. The work completed in support of this objective that has not previously been reported included the collection and analysis of soil samples from two areas of the property in September and October 2006 with impacts from lead and carcinogenic polynuclear aromatic hydrocarbons, screening to identify contaminants of concern, and performance of a Feasibility Study to evaluate potential remedial alternatives and to identify and describe recommended remedial actions for the entire 16-acre Heroic War Dead property.

Completed Area Name:	HWD
Completed Sub Area Name:	Not reported
Completed Document Type:	*Action Memorandum (if <$1M)
Completed Date:	06/07/2007

OAKLAND ARMY RESERVE EXCHANGE (Continued) **S106965131**

Comments:	DTSC approved the Removal Action Workplan for the Heroic War Dead United States Army Reserve Center, in Oakland, California. The selected remedy is Alternative 6, which include (a) institutional controls, (b) excavation and offsite disposal of polynuclear aromatic hydrocarbon-impacted soil at the Building 1064 Yard, (c) engineered asphalt cap for lead-impacted soil at the Building 1070 Yard, and (d) groundwater monitoring.
Completed Area Name:	HWD
Completed Sub Area Name:	Not reported
Completed Document Type:	Deed/LUR Enforcement & Implementation Plan
Completed Date:	06/29/2007
Comments:	The Implementation and Enforcement Plan is Section 4.02 of the Covenant to Restrict Use of Property, Environmental Restriction. DTSC signed the Covenant on 6/18/07. The Army Reserve signed the Covenant on 6/21/07. The Army Reserve recorded the Covenant with the Alameda County Assessor’s Office on 6/29/07.
Completed Area Name:	P6+7
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	06/14/2004
Comments:	On 6/14/04, DTSC issued a fact sheet informing the public of the draft Amendment to the Final Remedial Action Plan Oakland Army Base (draft RAP Amendment) for the Subaru Lot and inviting the community to review and comment on the draft RAP Amendment.
Completed Area Name:	HWD
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	06/08/2007
Comments:	DTSC approved the Remedial Design Work Plan for the Heroic War Dead United States Army Reserve Center, in Oakland, California. The plan details cleanup activities for the Building 1070 Yard at the Heroic War Dead site. The Army Reserve plans to complete cleanup activities in three weeks.
Completed Area Name:	HWD
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/29/2007
Comments:	Based upon existing information, DTSC’s oversight at the Heroic War Dead United States Army Reserve Center, and DTSC s review on the June 2007 Remedy Completion Report, DTSC has determined that the Army Reserve will have completed the required remedy pursuant to the Removal Action Workplan immediate upon execution and recordation of the "Covenant to Restrict Use of Property, Environmental Restriction" scheduled on 6/29/07. Covenant recordation is a required condition before the Army Reserve may transfer the subject property.
Completed Area Name:	P18+19+21
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	10/23/2006
Comments:	DTSC prepared a fact sheet for the Remedial Action Plan Amendment for Parcel 18 and Subparcels 19 and 21.

OAKLAND ARMY RESERVE EXCHANGE (Continued) **S106965131**

Completed Area Name:	P18+19+21
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	10/23/2006
Comments:	DTSC prepared a public notice for the Remedial Action Plan Amendment for Parcel 18 and Subparcels 19 and 21. The 30-day public comment period starts on 10/23/06 and ends on 11/21/06. DTSC will hold a public meeting on 11/9/06.
Completed Area Name:	HWD
Completed Sub Area Name:	Not reported
Completed Document Type:	Finding of Suitability to Transfer
Completed Date:	06/29/2007
Comments:	On 6/27/07, DTSC issued the Finding of Suitability to Transfer Concurrence Letter for the Heroic War Dead United States Army Reserve Center conditioned upon recordation of the covenant. Covenant recordation is a required escrow instruction before the Army Reserve may transfer the subject property scheduled on 6/29/07. The Army Reserve shall record the enclosed Covenant to Restrict Use of Property, Environmental Restriction, with the Alameda County Assessor s Office.
Completed Area Name:	HWD
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	05/14/2007
Comments:	Not reported
Completed Area Name:	HWD
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	05/14/2007
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

MCS:

Global Id:	T10000001240
Latitude:	0
Longitude:	0
Case Type:	Military Cleanup Site
Status:	Completed - Case Closed
Status Date:	06/25/2009
Lead Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Caseworker:	HW
Local Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number:	16910
LOC Case Number:	71000002
File Location:	DTSC

OAKLAND ARMY RESERVE EXCHANGE (Continued) **S106965131**

Potential Media Affect:	Not reported
EDR Link ID:	T10000001240
Potential Contaminants of Concern:	Not reported
Site History:	From Envirostor: The Oakland Army Reserve Exchange (Site) consists of three non-contiguous properties near the eastern terminus of the San Francisco-Oakland Bay Bridge. The Site includes (1) the Heroic War Dead United States Army Reserve Center at 2400 Engineer Road, Oakland, California, 16 acres, (2) former Base Realignment and Closure (BRAC) Parcels 6 and 7 (also known as the Subaru Lot), 19 acres, at the former Oakland Army Base, and (3) former BRAC Parcels 18 and portions of former BRAC Parcels 19 and 21, 6.76 acres, at the former Oakland Army Base. These areas total to approximately 42 acres. The United States Army Reserve is the property owner of the Site. The Headquarters, United States Army, 63D Regional Readiness Command in Los Alamitos, California is managing all operations at the Site. Previous site assessment and investigation efforts reveal that the Site is potentially impacted in soil and groundwater with metals, volatile organic compounds, semi-volatile organic compounds, pesticides, polychlorinated biphenyls, and total petroleum hydrocarbons. Detailed chemical data for the Site would be available upon completion of remedial investigation. The Site area was principally intertidal mudflats as late as the early 1930s. Landfilling activities created the land for the development of industrial, commercial, and military facilities. Since the mid-1930s, the Site vicinity has been used for industrial, shipping and maritime, and military and government agency facilities and activities. The Site is composed of office buildings, maintenance and storage buildings, and open lots used to support mission requirements for the Heroic War Dead United States Army Reserve Center. The current land use includes the following: United States Army Reserve administration, vehicle maintenance and repair operations, and medical equipment and vehicle storage activities. DTSC issued a Conditional Remedy Completion Letter for Parcels 6 and 7 in August 2004. On June 7, 2007, DTSC approved the Removal Action Workplan, Heroic War Dead United States Army Reserve Center, Oakland, California. The Army Reserve and the East Bay Municipal Utility District (EBMUD) implemented the remedy as selected in the Removal Action Workplan. The June 2007 Remedy Completion Report documents the field cleanup activities consisting of: (a) constructing an engineered asphalt cap over lead contaminated soil in the Building 1070 Yard, (b) advancing additional exploratory borings, test pits, and an exploratory excavation in the Building 1064 Yard near the PV18 test pit area, and (c) installing additional groundwater monitoring wells in the Building 1070 Yard. The Army Reserve and EBMUD implemented field cleanup activities in general accordance with the DTSC approved Remedial Design Work Plan dated June 2007 for the site. The Army Reserve recorded the Covenant to Restrict Use of Property, Environmental Restriction with the Alameda County Assessors Office on June 29, 2007. DTSC effectively approved the Remedy Completion Report on June 29, 2007. The Army Reserve transferred the Heroic War Dead to EBMUD on June 29, 2007; and former BRAC Parcels 18 and portions of former BRAC Parcels 19 and 21 to the Port of Oakland on June 29, 2007. DTSC and the Port of Oakland signed a Consent Agreement on June 29, 2007.

Click here to access the California GeoTracker records for this facility:

Count: 4 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
OAKLAND	S118421406	5TH ST AND MAGNOLIA ST REDEVELOPME	0 5TH STREET AND MAGNOLIA ST	94607	CA Alameda County CS
OAKLAND	S121635389	E 9TH ST & 29TH AVE	E 9TH ST & 29TH AVE		CA CIWQS
OAKLAND	S103881512	UPTOWN THEATER DISTRICT	BORDERED BY 20TH ST SAN PABLO		CA CPS-SLIC
OAKLAND	S104539364	SOUTHERN PACIFIC TRANS CO	UNKNOWN 5TH AVE & KIRKHAM	94607	CA LUST, CA HIST CORTESE

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/12/2018	Source: EPA
Date Data Arrived at EDR: 12/28/2018	Telephone: N/A
Date Made Active in Reports: 01/11/2019	Last EDR Contact: 03/14/2019
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/15/2019
	Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/05/2017	Telephone: 703-603-8704
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 01/04/2019
Number of Days to Update: 92	Next Scheduled EDR Contact: 04/15/2019
	Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA’s Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/12/2018	Source: EPA
Date Data Arrived at EDR: 12/28/2018	Telephone: 800-424-9346
Date Made Active in Reports: 01/11/2019	Last EDR Contact: 03/14/2019
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/29/2019
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 43

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/07/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 02/04/2019
Date Data Arrived at EDR: 02/08/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 28

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 02/08/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 21

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/12/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003	Telephone: 805-542-4786
Date Made Active in Reports: 06/02/2003	Last EDR Contact: 07/18/2011
Number of Days to Update: 14	Next Scheduled EDR Contact: 10/31/2011
	Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005	Source: California Regional Water Quality Control Board Santa Ana Region (8)
Date Data Arrived at EDR: 02/15/2005	Telephone: 909-782-4496
Date Made Active in Reports: 03/28/2005	Last EDR Contact: 08/15/2011
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-776-8943
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/01/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005	Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Date Data Arrived at EDR: 06/07/2005	Telephone: 760-241-7365
Date Made Active in Reports: 06/29/2005	Last EDR Contact: 09/12/2011
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 530-542-5572
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 09/12/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008	Source: California Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 07/22/2008	Telephone: 916-464-4834
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 07/01/2011
Number of Days to Update: 9	Next Scheduled EDR Contact: 10/17/2011
	Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board’s LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board’s LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/11/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018	Source: EPA Region 1
Date Data Arrived at EDR: 05/18/2018	Telephone: 617-918-1313
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/07/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018	Source: EPA Region 8
Date Data Arrived at EDR: 05/18/2018	Telephone: 303-312-6271
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/07/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/12/2018	Source: EPA, Region 5
Date Data Arrived at EDR: 05/18/2018	Telephone: 312-886-7439
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/07/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/08/2018	Source: EPA Region 4
Date Data Arrived at EDR: 05/18/2018	Telephone: 404-562-8677
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/05/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/01/2018	Source: EPA Region 6
Date Data Arrived at EDR: 05/18/2018	Telephone: 214-665-6597
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/07/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018	Source: EPA Region 7
Date Data Arrived at EDR: 05/18/2018	Telephone: 913-551-7003
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/07/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/11/2018	Telephone: 866-480-1028
Date Made Active in Reports: 01/15/2019	Last EDR Contact: 12/12/2018
Number of Days to Update: 35	Next Scheduled EDR Contact: 03/25/2019
	Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004	Source: California Regional Water Quality Control Board, Lahontan Region
Date Data Arrived at EDR: 09/07/2004	Telephone: 530-542-5574
Date Made Active in Reports: 10/12/2004	Last EDR Contact: 08/15/2011
Number of Days to Update: 35	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004	Source: California Regional Quality Control Board, Colorado River Basin Region
Date Data Arrived at EDR: 11/29/2004	Telephone: 760-346-7491
Date Made Active in Reports: 01/04/2005	Last EDR Contact: 08/01/2011
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008	Source: California Region Water Quality Control Board Santa Ana Region (8)
Date Data Arrived at EDR: 04/03/2008	Telephone: 951-782-3298
Date Made Active in Reports: 04/14/2008	Last EDR Contact: 09/12/2011
Number of Days to Update: 11	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007	Source: California Regional Water Quality Control Board San Diego Region (9)
Date Data Arrived at EDR: 09/11/2007	Telephone: 858-467-2980
Date Made Active in Reports: 09/28/2007	Last EDR Contact: 08/08/2011
Number of Days to Update: 17	Next Scheduled EDR Contact: 11/21/2011
	Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017	Source: FEMA
Date Data Arrived at EDR: 05/30/2017	Telephone: 202-646-5797
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 01/08/2019
Number of Days to Update: 136	Next Scheduled EDR Contact: 04/22/2019
	Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/11/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Semi-Annually

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/12/2018	Source: EPA Region 5
Date Data Arrived at EDR: 05/18/2018	Telephone: 312-886-6136
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/07/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/01/2018	Source: EPA Region 6
Date Data Arrived at EDR: 05/18/2018	Telephone: 214-665-7591
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/07/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/24/2018	Source: EPA Region 7
Date Data Arrived at EDR: 05/18/2018	Telephone: 913-551-7003
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/07/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/25/2018	Source: EPA Region 8
Date Data Arrived at EDR: 05/18/2018	Telephone: 303-312-6137
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/07/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/10/2018	Source: EPA Region 9
Date Data Arrived at EDR: 05/18/2018	Telephone: 415-972-3368
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/07/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018	Source: EPA Region 10
Date Data Arrived at EDR: 05/18/2018	Telephone: 206-553-2857
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/07/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/19/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 12/20/2018
Date Data Arrived at EDR: 12/21/2018
Date Made Active in Reports: 02/28/2019
Number of Days to Update: 69

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/17/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 24

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/18/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 09/28/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 34

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/12/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/13/2019
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 02/01/2019
Next Scheduled EDR Contact: 05/13/2019
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 09/21/2018
Date Data Arrived at EDR: 09/21/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 49

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 55

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 01/24/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/21/2018
Date Data Arrived at EDR: 09/21/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 49

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990’s. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/04/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 09/11/2018	Source: San Francisco County Department of Public Health
Date Data Arrived at EDR: 09/12/2018	Telephone: 415-252-3896
Date Made Active in Reports: 10/11/2018	Last EDR Contact: 01/31/2019
Number of Days to Update: 29	Next Scheduled EDR Contact: 05/20/2019
	Data Release Frequency: Varies

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 10/22/2018	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 10/23/2018	Telephone: 916-323-2514
Date Made Active in Reports: 11/30/2018	Last EDR Contact: 01/24/2019
Number of Days to Update: 38	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 11/29/2018	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 12/04/2018	Telephone: 916-323-3400
Date Made Active in Reports: 01/11/2019	Last EDR Contact: 02/27/2019
Number of Days to Update: 38	Next Scheduled EDR Contact: 06/17/2019
	Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 12/12/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2018	Telephone: 202-564-6023
Date Made Active in Reports: 01/11/2019	Last EDR Contact: 03/14/2019
Number of Days to Update: 14	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 12/03/2018	Source: DTSC and SWRCB
Date Data Arrived at EDR: 12/05/2018	Telephone: 916-323-3400
Date Made Active in Reports: 01/11/2019	Last EDR Contact: 03/05/2019
Number of Days to Update: 37	Next Scheduled EDR Contact: 06/17/2019
	Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 03/27/2018	Telephone: 202-366-4555
Date Made Active in Reports: 06/08/2018	Last EDR Contact: 02/08/2019
Number of Days to Update: 73	Next Scheduled EDR Contact: 04/08/2019
	Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 10/24/2018	Source: Office of Emergency Services
Date Data Arrived at EDR: 01/24/2019	Telephone: 916-845-8400
Date Made Active in Reports: 03/05/2019	Last EDR Contact: 01/24/2019
Number of Days to Update: 40	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018	Source: State Water Qualilty Control Board
Date Data Arrived at EDR: 12/11/2018	Telephone: 866-480-1028
Date Made Active in Reports: 01/15/2019	Last EDR Contact: 12/12/2018
Number of Days to Update: 35	Next Scheduled EDR Contact: 03/25/2019
	Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/11/2018	Telephone: 866-480-1028
Date Made Active in Reports: 01/15/2019	Last EDR Contact: 12/12/2018
Number of Days to Update: 35	Next Scheduled EDR Contact: 03/25/2019
	Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/22/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/08/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/08/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016	Source: EPA
Date Data Arrived at EDR: 01/10/2018	Telephone: 202-566-0250
Date Made Active in Reports: 01/12/2018	Last EDR Contact: 02/20/2019
Number of Days to Update: 2	Next Scheduled EDR Contact: 06/03/2019
	Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 01/25/2019
Number of Days to Update: 77	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/12/2018	Source: EPA
Date Data Arrived at EDR: 12/28/2018	Telephone: 703-416-0223
Date Made Active in Reports: 01/11/2019	Last EDR Contact: 03/14/2019
Number of Days to Update: 14	Next Scheduled EDR Contact: 06/17/2019
	Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 10/26/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2018	Telephone: 202-564-8600
Date Made Active in Reports: 01/11/2019	Last EDR Contact: 01/22/2019
Number of Days to Update: 66	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 08/13/2018	Source: EPA
Date Data Arrived at EDR: 10/04/2018	Telephone: 202-564-6023
Date Made Active in Reports: 11/09/2018	Last EDR Contact: 03/14/2019
Number of Days to Update: 36	Next Scheduled EDR Contact: 05/20/2019
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 09/14/2018	Source: EPA
Date Data Arrived at EDR: 10/11/2018	Telephone: 202-566-0500
Date Made Active in Reports: 12/07/2018	Last EDR Contact: 01/11/2019
Number of Days to Update: 57	Next Scheduled EDR Contact: 04/22/2019
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 01/07/2019
Number of Days to Update: 79	Next Scheduled EDR Contact: 04/22/2019
	Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 09/08/2016	Telephone: 301-415-7169
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 01/22/2019
Number of Days to Update: 43	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 03/07/2019
Number of Days to Update: 76	Next Scheduled EDR Contact: 06/17/2019
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014	Telephone: N/A
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 03/05/2019
Number of Days to Update: 40	Next Scheduled EDR Contact: 06/17/2019
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/30/2017	Telephone: 202-566-0517
Date Made Active in Reports: 12/15/2017	Last EDR Contact: 01/25/2019
Number of Days to Update: 15	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/03/2018	Telephone: 202-343-9775
Date Made Active in Reports: 11/09/2018	Last EDR Contact: 01/03/2019
Number of Days to Update: 37	Next Scheduled EDR Contact: 04/15/2019
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 10/01/2018	Source: Department of Transporation, Office of Pipeline Safety
Date Data Arrived at EDR: 10/30/2018	Telephone: 202-366-4595
Date Made Active in Reports: 01/18/2019	Last EDR Contact: 01/29/2019
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/11/2019
	Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2018	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 10/12/2018	Telephone: Varies
Date Made Active in Reports: 12/07/2018	Last EDR Contact: 01/07/2019
Number of Days to Update: 56	Next Scheduled EDR Contact: 04/22/2019
	Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015	Source: EPA/NTIS
Date Data Arrived at EDR: 02/22/2017	Telephone: 800-424-9346
Date Made Active in Reports: 09/28/2017	Last EDR Contact: 02/13/2019
Number of Days to Update: 218	Next Scheduled EDR Contact: 06/03/2019
	Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014	Source: USGS
Date Data Arrived at EDR: 07/14/2015	Telephone: 202-208-3710
Date Made Active in Reports: 01/10/2017	Last EDR Contact: 01/07/2019
Number of Days to Update: 546	Next Scheduled EDR Contact: 04/22/2019
	Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017	Source: Department of Energy
Date Data Arrived at EDR: 09/11/2018	Telephone: 202-586-3559
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 01/31/2019
Number of Days to Update: 3	Next Scheduled EDR Contact: 05/20/2019
	Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/22/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2018
Date Data Arrived at EDR: 08/29/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 37

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/11/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/15/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 06/19/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 87

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/02/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2018
Date Data Arrived at EDR: 08/22/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 44

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 12/20/2018
Date Data Arrived at EDR: 12/21/2018
Date Made Active in Reports: 02/28/2019
Number of Days to Update: 69

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 08/28/2018
Date Data Arrived at EDR: 08/30/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 63

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 02/26/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 7

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 11/13/2018	Source: Antelope Valley Air Quality Management District
Date Data Arrived at EDR: 12/04/2018	Telephone: 661-723-8070
Date Made Active in Reports: 01/15/2019	Last EDR Contact: 02/27/2019
Number of Days to Update: 42	Next Scheduled EDR Contact: 06/17/2019
	Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 10/04/2018	Source: South Coast Air Quality Management District
Date Data Arrived at EDR: 10/05/2018	Telephone: 909-396-3211
Date Made Active in Reports: 11/01/2018	Last EDR Contact: 02/07/2019
Number of Days to Update: 27	Next Scheduled EDR Contact: 06/10/2019
	Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner’s agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 12/13/2018	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 01/17/2019	Telephone: 916-327-4498
Date Made Active in Reports: 03/05/2019	Last EDR Contact: 02/27/2019
Number of Days to Update: 47	Next Scheduled EDR Contact: 06/17/2019
	Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017	Source: California Air Resources Board
Date Data Arrived at EDR: 06/20/2018	Telephone: 916-322-2990
Date Made Active in Reports: 08/06/2018	Last EDR Contact: 12/21/2018
Number of Days to Update: 47	Next Scheduled EDR Contact: 04/01/2019
	Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 11/01/2018	Source: State Water Resoruces Control Board
Date Data Arrived at EDR: 11/02/2018	Telephone: 916-445-9379
Date Made Active in Reports: 12/13/2018	Last EDR Contact: 02/27/2019
Number of Days to Update: 41	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 01/10/2019	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/23/2019	Telephone: 916-255-3628
Date Made Active in Reports: 03/05/2019	Last EDR Contact: 01/17/2019
Number of Days to Update: 41	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/15/2019	Source: California Integrated Waste Management Board
Date Data Arrived at EDR: 02/19/2019	Telephone: 916-341-6066
Date Made Active in Reports: 03/05/2019	Last EDR Contact: 02/11/2019
Number of Days to Update: 14	Next Scheduled EDR Contact: 05/27/2019
	Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2017	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 10/10/2018	Telephone: 916-255-1136
Date Made Active in Reports: 11/16/2018	Last EDR Contact: 01/07/2019
Number of Days to Update: 37	Next Scheduled EDR Contact: 04/22/2019
	Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/19/2019	Source: Department of Toxic Subsances Control
Date Data Arrived at EDR: 02/20/2019	Telephone: 877-786-9427
Date Made Active in Reports: 03/05/2019	Last EDR Contact: 02/20/2019
Number of Days to Update: 13	Next Scheduled EDR Contact: 06/03/2019
	Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/22/2009	Telephone: 916-323-3400
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 01/22/2009
Number of Days to Update: 76	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/19/2019	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 02/20/2019	Telephone: 916-323-3400
Date Made Active in Reports: 03/05/2019	Last EDR Contact: 02/20/2019
Number of Days to Update: 13	Next Scheduled EDR Contact: 06/03/2019
	Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 01/07/2019	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/08/2019	Telephone: 916-440-7145
Date Made Active in Reports: 03/05/2019	Last EDR Contact: 01/08/2019
Number of Days to Update: 56	Next Scheduled EDR Contact: 04/22/2019
	Data Release Frequency: Quarterly

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 11/09/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 23

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/12/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/19/2018
Date Data Arrived at EDR: 09/20/2018
Date Made Active in Reports: 10/19/2018
Number of Days to Update: 29

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: No Update Planned

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 04/27/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)

Underground control injection sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Quarterly

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)

Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 12/10/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/12/2018	Telephone: 916-341-5810
Date Made Active in Reports: 01/18/2019	Last EDR Contact: 03/13/2019
Number of Days to Update: 37	Next Scheduled EDR Contact: 06/24/2019
	Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 12/03/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/04/2018	Telephone: 866-794-4977
Date Made Active in Reports: 01/11/2019	Last EDR Contact: 03/05/2019
Number of Days to Update: 38	Next Scheduled EDR Contact: 06/17/2019
	Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 10/22/2018	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 10/23/2018	Telephone: 916-323-2514
Date Made Active in Reports: 11/30/2018	Last EDR Contact: 01/24/2019
Number of Days to Update: 38	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/21/2009	Telephone: 213-576-6726
Date Made Active in Reports: 08/03/2009	Last EDR Contact: 12/19/2018
Number of Days to Update: 13	Next Scheduled EDR Contact: 04/08/2019
	Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/10/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/11/2018	Telephone: 866-480-1028
Date Made Active in Reports: 01/15/2019	Last EDR Contact: 12/12/2018
Number of Days to Update: 35	Next Scheduled EDR Contact: 03/25/2019
	Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/10/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/11/2018	Telephone: 866-480-1028
Date Made Active in Reports: 01/15/2019	Last EDR Contact: 12/12/2018
Number of Days to Update: 35	Next Scheduled EDR Contact: 03/25/2019
	Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 12/10/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/11/2018	Telephone: 866-480-1028
Date Made Active in Reports: 01/15/2019	Last EDR Contact: 12/12/2018
Number of Days to Update: 35	Next Scheduled EDR Contact: 03/25/2019
	Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 12/10/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/11/2018	Telephone: 866-480-1028
Date Made Active in Reports: 01/15/2019	Last EDR Contact: 12/12/2018
Number of Days to Update: 35	Next Scheduled EDR Contact: 03/25/2019
	Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 12/10/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/11/2018	Telephone: 866-480-1028
Date Made Active in Reports: 01/15/2019	Last EDR Contact: 12/12/2018
Number of Days to Update: 35	Next Scheduled EDR Contact: 03/25/2019
	Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 59

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 58

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 01/24/2019
Date Data Arrived at EDR: 01/25/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 39

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 05/23/2018
Date Data Arrived at EDR: 05/24/2018
Date Made Active in Reports: 07/13/2018
Number of Days to Update: 50

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 02/14/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 17

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 01/16/2019
Date Data Arrived at EDR: 02/05/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 28

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 28

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 10/18/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 27

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 12/26/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 01/18/2019	Source: San Diego Border Field Office
Date Data Arrived at EDR: 01/23/2019	Telephone: 760-339-2777
Date Made Active in Reports: 03/05/2019	Last EDR Contact: 01/17/2019
Number of Days to Update: 41	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018	Source: Inyo County Environmental Health Services
Date Data Arrived at EDR: 04/03/2018	Telephone: 760-878-0238
Date Made Active in Reports: 06/14/2018	Last EDR Contact: 02/13/2019
Number of Days to Update: 72	Next Scheduled EDR Contact: 06/03/2019
	Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 01/28/2019	Source: Kern County Environment Health Services Department
Date Data Arrived at EDR: 02/07/2019	Telephone: 661-862-8700
Date Made Active in Reports: 03/08/2019	Last EDR Contact: 01/31/2019
Number of Days to Update: 29	Next Scheduled EDR Contact: 05/20/2019
	Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county’s Certified Unified Program Agency database. California’s Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 02/14/2019	Source: Kings County Department of Public Health
Date Data Arrived at EDR: 02/19/2019	Telephone: 559-584-1411
Date Made Active in Reports: 03/05/2019	Last EDR Contact: 02/13/2019
Number of Days to Update: 14	Next Scheduled EDR Contact: 06/03/2019
	Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2019	Source: Lake County Environmental Health
Date Data Arrived at EDR: 02/12/2019	Telephone: 707-263-1164
Date Made Active in Reports: 03/12/2019	Last EDR Contact: 01/14/2019
Number of Days to Update: 28	Next Scheduled EDR Contact: 04/29/2019
	Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List

Cupa facility list

Date of Government Version: 01/17/2019
Date Data Arrived at EDR: 01/18/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 46

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 12/19/2018
Date Data Arrived at EDR: 01/10/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 56

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/14/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/15/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/15/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/30/2019
Date Data Arrived at EDR: 02/01/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 34

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 02/01/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Semi-Annually

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Annually

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/05/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 28

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county’s Certified Unified Program Agency database. California’s Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 13

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/29/2018
Date Data Arrived at EDR: 08/31/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 19

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 12/07/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/24/2019
Number of Days to Update: 44

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 02/05/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 26

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 12/27/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 14

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 01/25/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 01/02/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 26

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 01/02/2019
Date Data Arrived at EDR: 02/08/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 26

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 01/02/2019
Date Data Arrived at EDR: 02/05/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 31

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/05/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 01/14/2019
Date Data Arrived at EDR: 01/18/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 46

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 01/29/2019
Date Data Arrived at EDR: 01/31/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 34

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/17/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/29/2019	Source: Department of Environmental Health
Date Data Arrived at EDR: 01/31/2019	Telephone: 951-358-5055
Date Made Active in Reports: 03/08/2019	Last EDR Contact: 12/17/2018
Number of Days to Update: 36	Next Scheduled EDR Contact: 04/01/2019
	Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2018	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 01/04/2019	Telephone: 916-875-8406
Date Made Active in Reports: 03/05/2019	Last EDR Contact: 01/04/2019
Number of Days to Update: 60	Next Scheduled EDR Contact: 04/15/2019
	Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/07/2018	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 12/28/2018	Telephone: 916-875-8406
Date Made Active in Reports: 03/05/2019	Last EDR Contact: 12/28/2018
Number of Days to Update: 67	Next Scheduled EDR Contact: 04/15/2019
	Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 11/15/2018	Source: San Benito County Environmental Health
Date Data Arrived at EDR: 11/16/2018	Telephone: N/A
Date Made Active in Reports: 12/13/2018	Last EDR Contact: 02/27/2019
Number of Days to Update: 27	Next Scheduled EDR Contact: 05/20/2019
	Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 11/28/2018	Source: San Bernardino County Fire Department Hazardous Materials Division
Date Data Arrived at EDR: 11/30/2018	Telephone: 909-387-3041
Date Made Active in Reports: 01/11/2019	Last EDR Contact: 02/19/2019
Number of Days to Update: 42	Next Scheduled EDR Contact: 05/20/2019
	Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 12/03/2018	Source: Hazardous Materials Management Division
Date Data Arrived at EDR: 12/05/2018	Telephone: 619-338-2268
Date Made Active in Reports: 01/11/2019	Last EDR Contact: 03/05/2019
Number of Days to Update: 37	Next Scheduled EDR Contact: 06/17/2019
	Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018	Source: Department of Health Services
Date Data Arrived at EDR: 04/24/2018	Telephone: 619-338-2209
Date Made Active in Reports: 06/19/2018	Last EDR Contact: 01/17/2019
Number of Days to Update: 56	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 10/22/2018	Source: Department of Environmental Health
Date Data Arrived at EDR: 10/23/2018	Telephone: 858-505-6874
Date Made Active in Reports: 11/30/2018	Last EDR Contact: 03/06/2019
Number of Days to Update: 38	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

SAN DIEGO CO. SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010	Source: San Diego County Department of Environmental Health
Date Data Arrived at EDR: 06/15/2010	Telephone: 619-338-2371
Date Made Active in Reports: 07/09/2010	Last EDR Contact: 02/27/2019
Number of Days to Update: 24	Next Scheduled EDR Contact: 06/17/2019
	Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008	Source: Department Of Public Health San Francisco County
Date Data Arrived at EDR: 09/19/2008	Telephone: 415-252-3920
Date Made Active in Reports: 09/29/2008	Last EDR Contact: 01/31/2019
Number of Days to Update: 10	Next Scheduled EDR Contact: 05/20/2019
	Data Release Frequency: Quarterly

UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/05/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List

Cupa Facility List.

Date of Government Version: 02/13/2019
Date Data Arrived at EDR: 02/15/2019
Date Made Active in Reports: 03/14/2019
Number of Days to Update: 27

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/23/2019
Number of Days to Update: 36

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/11/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/13/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 15

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Annually

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 01/30/2019
Date Data Arrived at EDR: 02/01/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 34

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 10

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List

Cupa Facility list

Date of Government Version: 12/21/2018
Date Data Arrived at EDR: 12/27/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 19

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 12/19/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/08/2019
Date Data Arrived at EDR: 01/10/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 55

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List

Cupa facility list

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 12/13/2018
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 59

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 12/13/2018	Source: Tehama County Department of Environmental Health
Date Data Arrived at EDR: 12/18/2018	Telephone: 530-527-8020
Date Made Active in Reports: 01/15/2019	Last EDR Contact: 01/31/2019
Number of Days to Update: 28	Next Scheduled EDR Contact: 05/20/2019
	Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 01/18/2019	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/23/2019	Telephone: 760-352-0381
Date Made Active in Reports: 03/06/2019	Last EDR Contact: 01/17/2019
Number of Days to Update: 42	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 12/26/2018	Source: Tulare County Environmental Health Services Division
Date Data Arrived at EDR: 12/27/2018	Telephone: 559-624-7400
Date Made Active in Reports: 01/15/2019	Last EDR Contact: 01/31/2019
Number of Days to Update: 19	Next Scheduled EDR Contact: 05/20/2019
	Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018	Source: Divison of Environmental Health
Date Data Arrived at EDR: 04/25/2018	Telephone: 209-533-5633
Date Made Active in Reports: 06/25/2018	Last EDR Contact: 02/27/2019
Number of Days to Update: 61	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 12/26/2018	Source: Ventura County Environmental Health Division
Date Data Arrived at EDR: 01/24/2019	Telephone: 805-654-2813
Date Made Active in Reports: 02/28/2019	Last EDR Contact: 01/22/2019
Number of Days to Update: 35	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/26/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Annually

LUST VENTURA: Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/07/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Quarterly

MED WASTE VENTURA: Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 42

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/22/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 11/26/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 35

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 01/03/2019
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 13

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 12/26/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 02/08/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 22

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/04/2019
Number of Days to Update: 20

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/12/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/01/2018
Number of Days to Update: 19

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/30/2019
Date Made Active in Reports: 02/14/2019
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/30/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/27/2018
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/19/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/11/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association’s annual survey of hospitals.
Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.
Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.
Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics’ primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.
Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics’ primary database on private school locations in the United States.
Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

APPENDIX D

HISTORICAL SOURCES

402500 - 9th St North ,

Pine St East ,shorey St South ,frontage Rd West

Oakland, CA 94607

Inquiry Number: 5590975.5

March 15, 2019

The EDR Aerial Photo Decade Package

EDR®

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Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

03/15/19

Site Name:

402500 - 9th St North ,
Pine St East ,shorey St South ,
Oakland, CA 94607
EDR Inquiry # 5590975.5

Client Name:

AEI Consultants
2500 Camino Diablo
Walnut Creek, CA 94597
Contact: Marilu Galeana

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Search Results:

Year	*Scale*	*Details*	*Source*
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1998	1"=500'	Flight Date: August 27, 1998	USDA
1993	1"=500'	Acquisition Date: July 10, 1993	USGS/DOQQ
1982	1"=500'	Flight Date: July 08, 1982	USDA
1975	1"=500'	Flight Date: May 28, 1975	USGS
1968	1"=500'	Flight Date: April 20, 1968	USGS
1963	1"=500'	Flight Date: June 23, 1963	EDR Proprietary Aerial Viewpoint
1958	1"=500'	Flight Date: July 22, 1958	USGS
1946	1"=500'	Flight Date: July 26, 1946	USGS
1939	1"=500'	Flight Date: August 03, 1939	USDA

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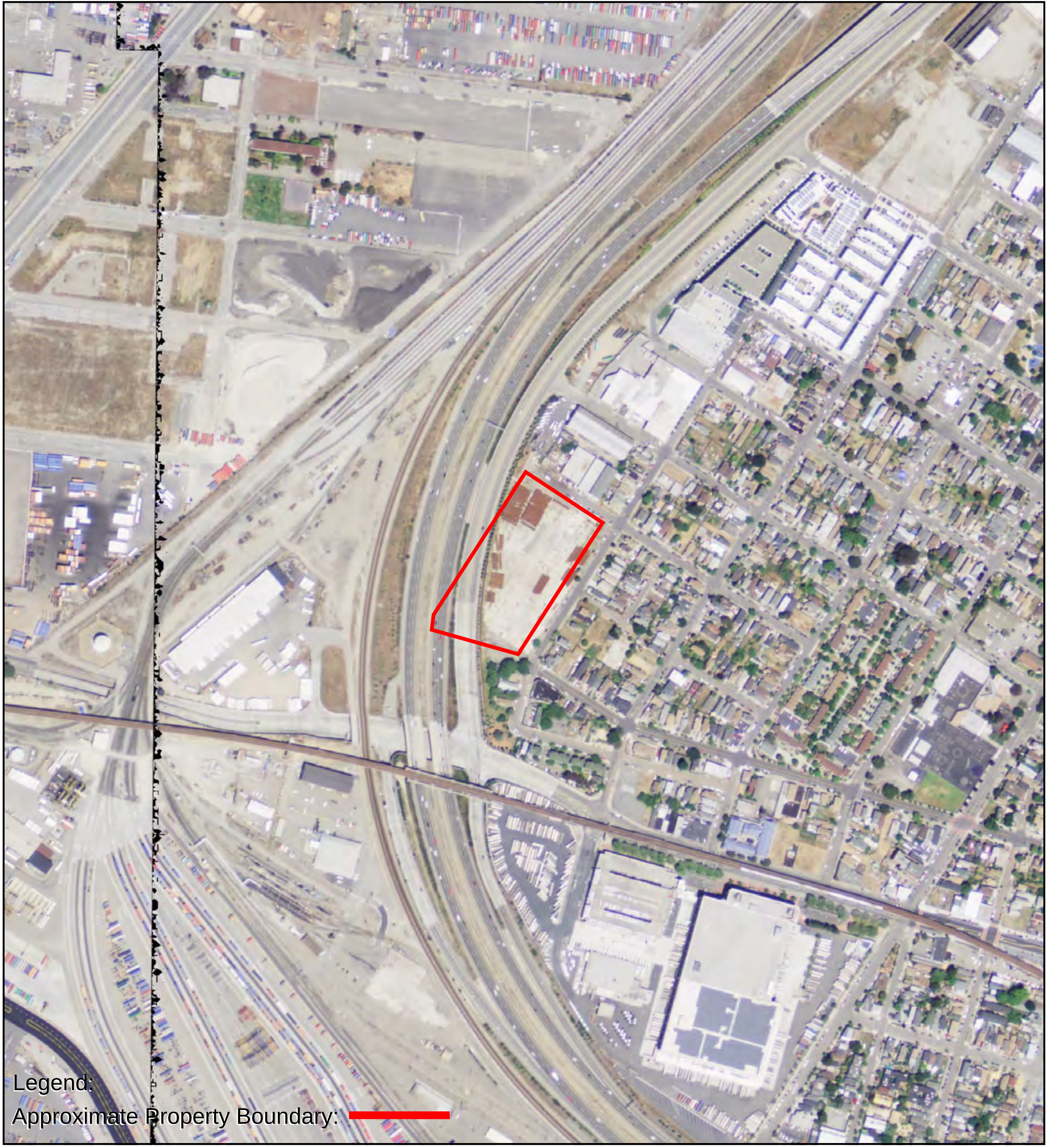
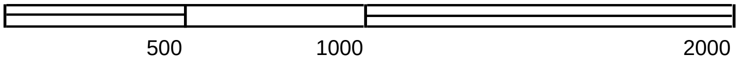
N

AERIAL PHOTOGRAPH - 2016

Aerial Photograph

2012





N

AERIAL PHOTOGRAPH - 2012

AEI Consultants

Aerial Photograph

2009

N

AERIAL PHOTOGRAPH - 2009

AEI Consultants

Aerial Photograph

2005

AERIAL PHOTOGRAPH - 2005

AEI Consultants

Aerial Photograph

1998

N

AERIAL PHOTOGRAPH - 1998

AEI Consultants

Aerial Photograph

1993

N

AERIAL PHOTOGRAPH - 1993

AEI Consultants

Aerial Photograph

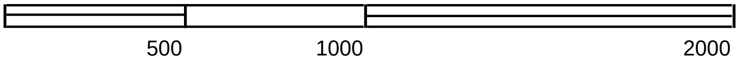
1982

AERIAL PHOTOGRAPH - 1982

AEI Consultants

Aerial Photograph

1975



N

AERIAL PHOTOGRAPH - 1975

AEI Consultants

Aerial Photograph

N

AERIAL PHOTOGRAPH - 1968

AEI Consultants

EDR

Aerial Photograph

1963

N

AERIAL PHOTOGRAPH - 1963

AEI Consultants

EDR

Aerial Photograph

1958

N

AERIAL PHOTOGRAPH - 1958

AEI
Consultants

Aerial Photograph

1946

AERIAL PHOTOGRAPH - 1946

AEI Consultants

Aerial Photograph

1939

AERIAL PHOTOGRAPH - 1939

AEI Consultants

402500 - 9th St North ,
Pine St East ,shorey St South ,frontage Rd West
Oakland, CA 94607

Inquiry Number: 5590975.3
March 15, 2019

Certified Sanborn® Map Report

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www.edrnet.com

Certified Sanborn® Map Report

03/15/19

Site Name:	**Client Name:**
402500 - 9th St North ,	AEI Consultants
Pine St East ,shorey St South ,	2500 Camino Diablo
Oakland, CA 94607	Walnut Creek, CA 94597
EDR Inquiry # 5590975.3	Contact: Marilu Galeana

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by AEI Consultants were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification #	05CE-4F47-A165
PO #	187927
Project	402500

Maps Provided:

1970
1967
1961
1958
1957
1952
1951
1912
1902
1889

Sanborn® Library search results

Certification #: 05CE-4F47-A165

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

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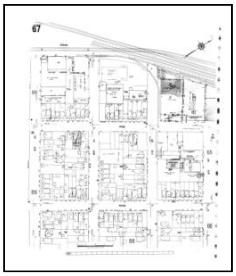
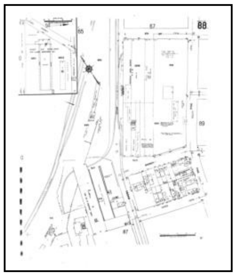
Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1970 Source Sheets

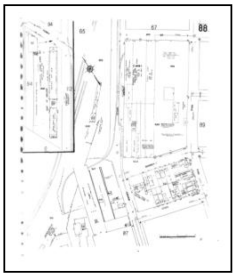

Volume 1, Sheet 67
1970


Volume 1, Sheet 89
1970


Volume 1, Sheet 88
1970

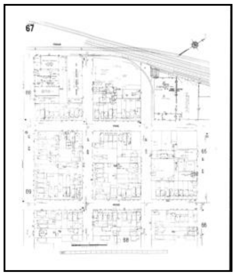
1967 Source Sheets

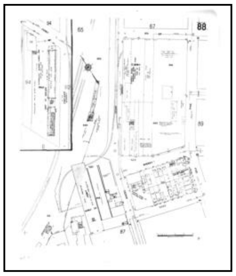

Volume 1, Sheet 67
1967


Volume 1, Sheet 88
1967


Volume 1, Sheet 89
1967

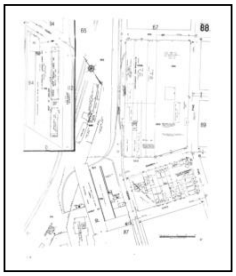
1961 Source Sheets


Volume 1, Sheet 67
1961

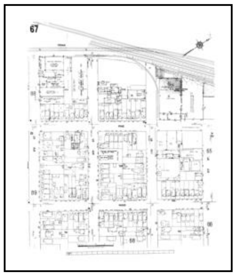

Volume 1, Sheet 88
1961


Volume 1, Sheet 89
1961

1958 Source Sheets


Volume 1, Sheet 88
1958


Volume 1, Sheet 89
1958


Volume 1, Sheet 67
1958

Sanborn Sheet Key

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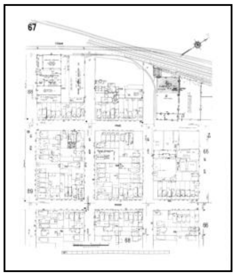
1957 Source Sheets



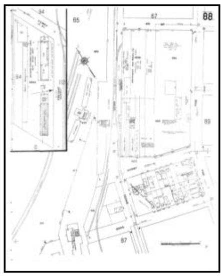
Volume 1, Sheet 67
1957

Volume 1, Sheet 88
1957

Volume 1, Sheet 89
1957

1952 Source Sheets

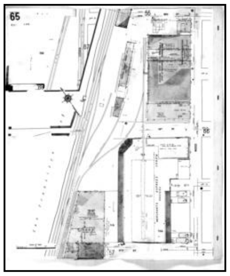
Volume 1, Sheet 67
1952



Volume 1, Sheet 88
1952

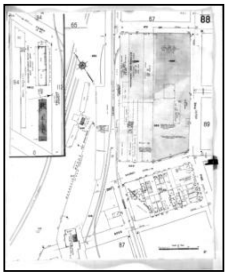
Volume 1, Sheet 89
1952

1951 Source Sheets



Volume 1, Sheet 65
1951

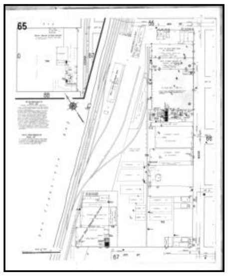
Volume 1, Sheet 67
1951



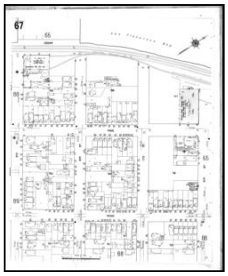
Volume 1, Sheet 88
1951

Volume 1, Sheet 89
1951

1912 Source Sheets



Volume 1, Sheet 65
1912



Volume 1, Sheet 67
1912

Volume 1, Sheet 88
1912

Volume 1, Sheet 89
1912

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

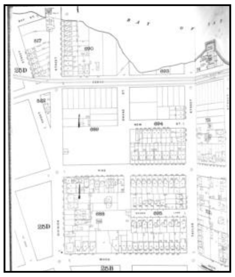
1902 Source Sheets

Volume 1, Sheet 40
1902

Volume 1, Sheet 96
1902

Volume 1, Sheet 109
1902

1889 Source Sheets

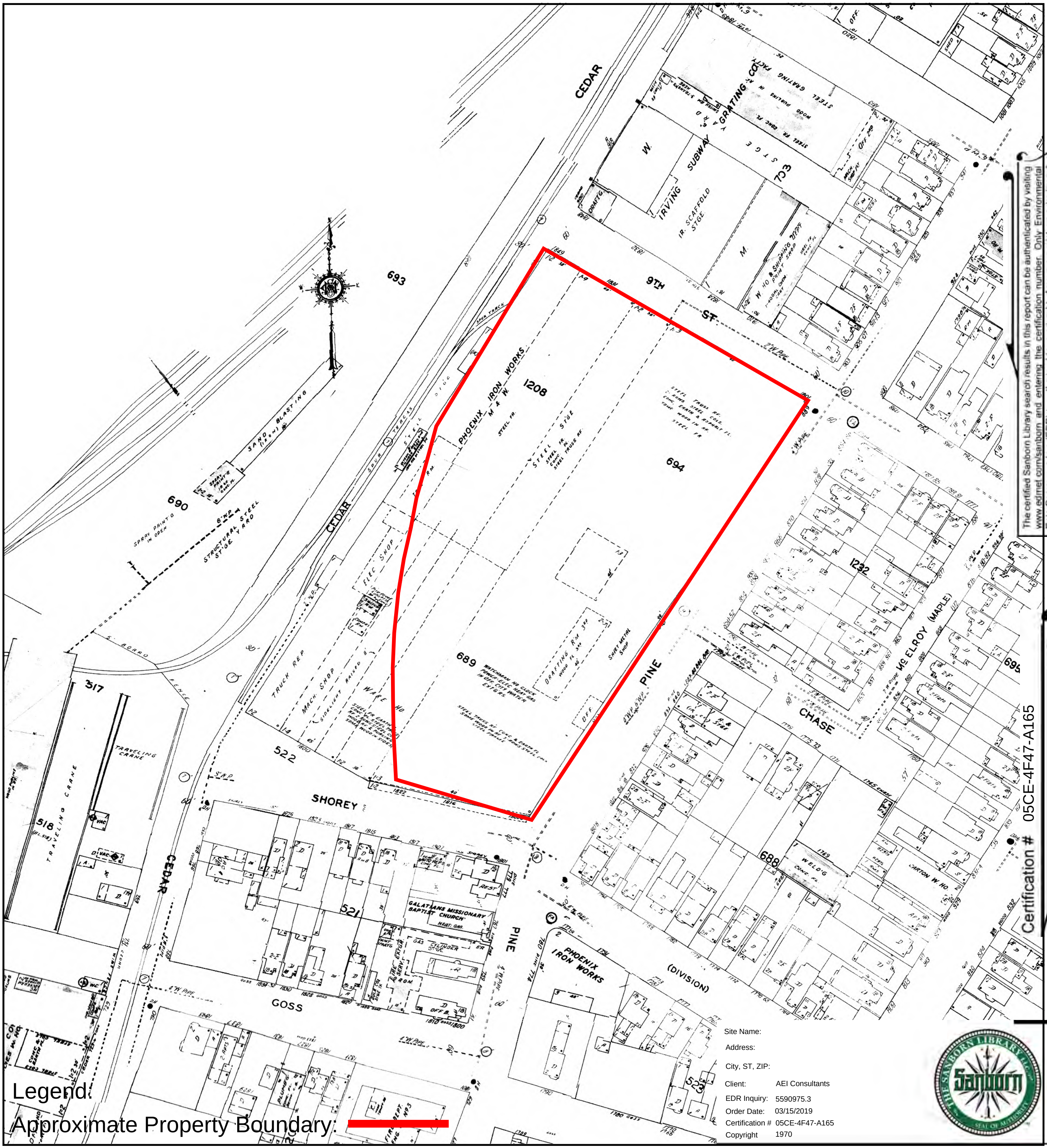


Volume 1, Sheet 25c
1889

Volume 1, Sheet 25d
1889

Certified Sanborn® Map

1970



Legend:

Approximate Property Boundary: 🟥

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City, ST, ZIP:

Client: AEI Consultants

EDR Inquiry: 5590975.3

Order Date: 03/15/2019

Certification # 05CE-4F47-A165

Copyright 1970

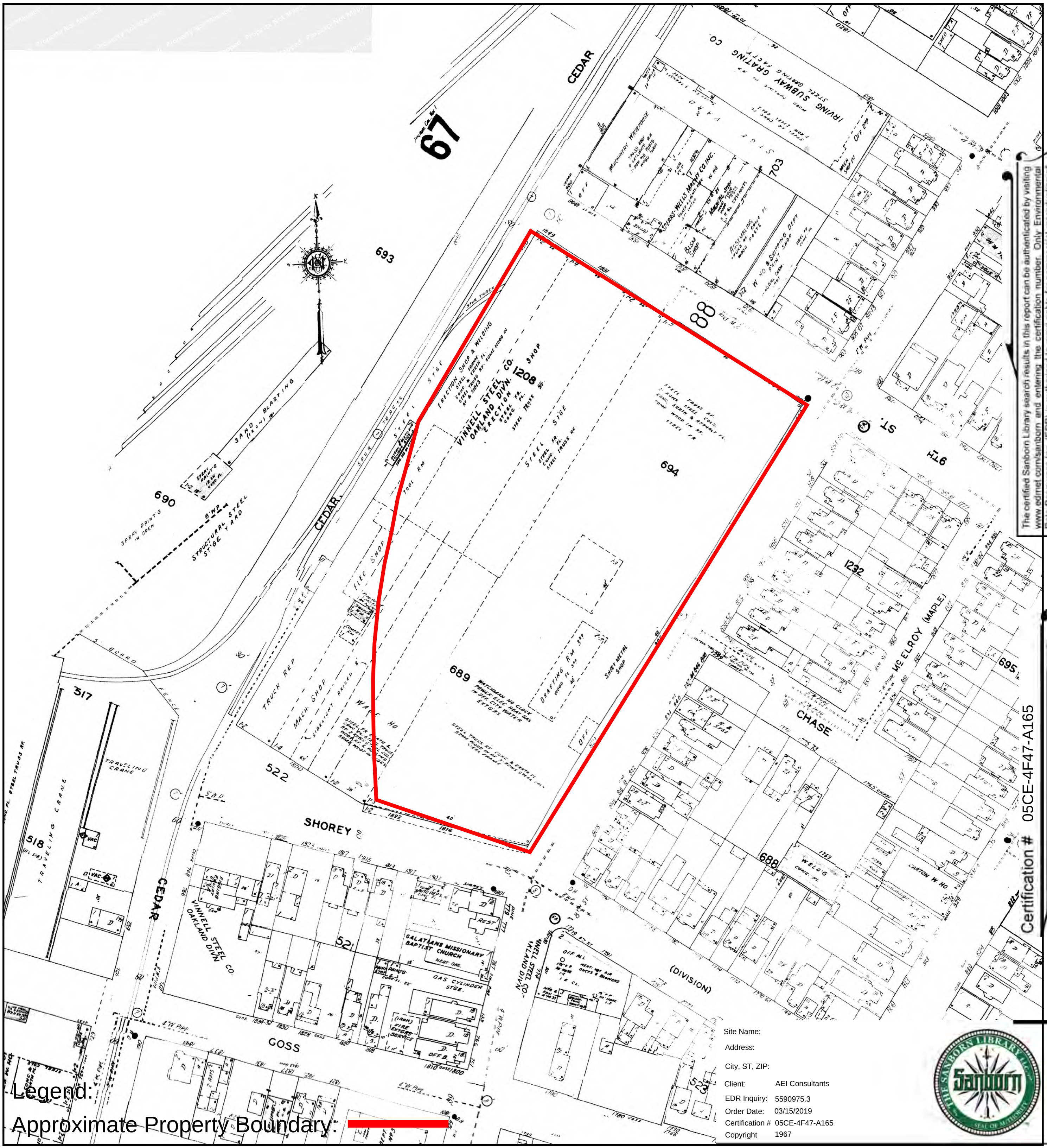
Volume 1, Sheet 88
Volume 1, Sheet 89
Volume 1, Sheet 67

0 Feet 150 300 600

N

SANBORN MAP - 1970

AEI Consultants



Legend:

Approximate Property Boundary: 🟥

Site Name:

Address:

City, ST, ZIP:

Client: AEI Consultants

EDR Inquiry: 5590975.3

Order Date: 03/15/2019

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Copyright 1967

Certification # 05CE-4F47-A165

Volume 1, Sheet 89
Volume 1, Sheet 88
Volume 1, Sheet 67

0 Feet 150 300 600

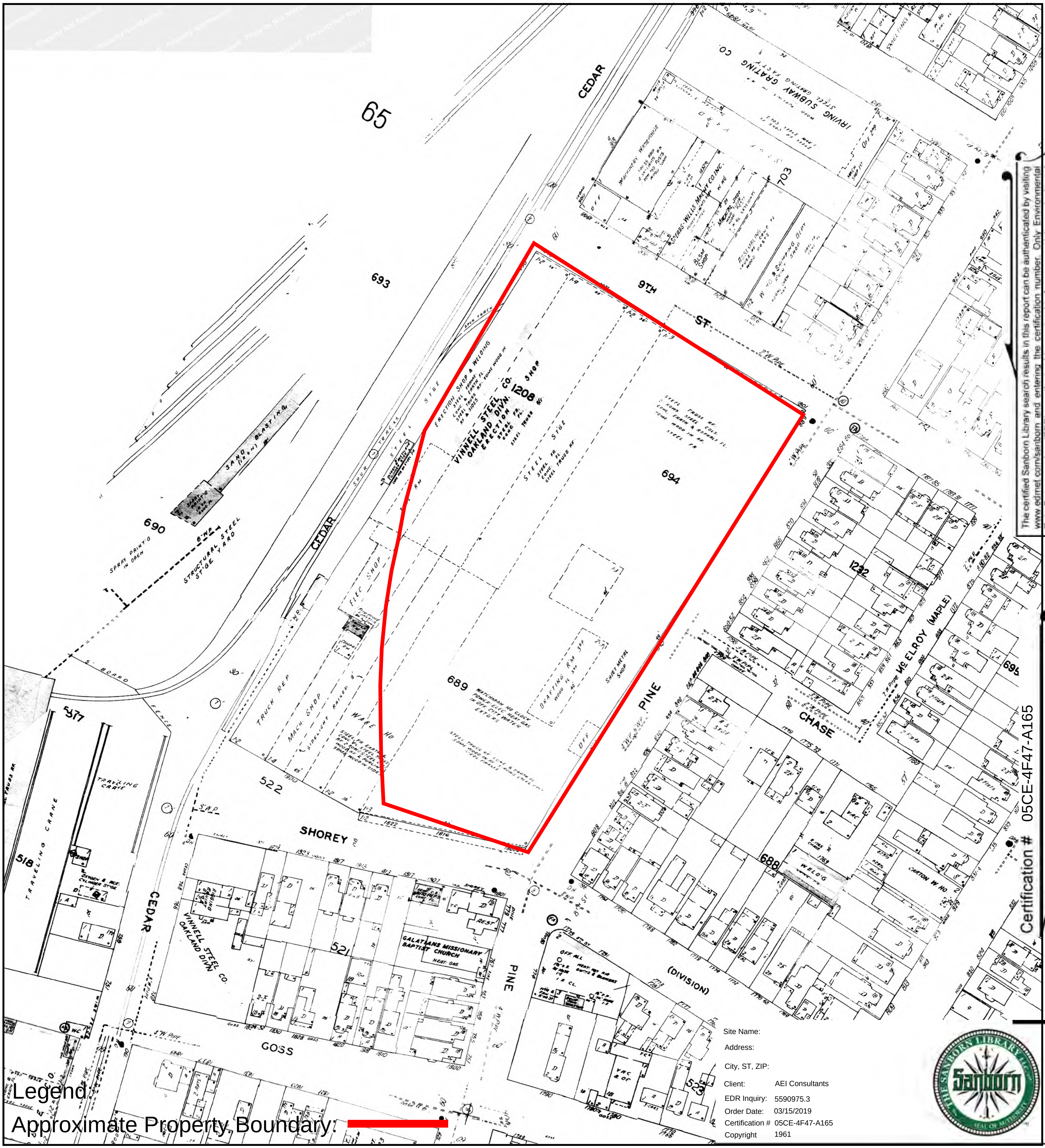
N

SANBORN MAP - 1967

AEI Consultants

Certified Sanborn® Map

1961



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City, ST, ZIP:

Client:	AEI Consultants
EDR Inquiry:	5590975.3
Order Date:	03/15/2019
Certification #	05CE-4F47-A165
Copyright	1961

Volume 1, Sheet 89
Volume 1, Sheet 88
Volume 1, Sheet 67

0 Feet 150 300 600

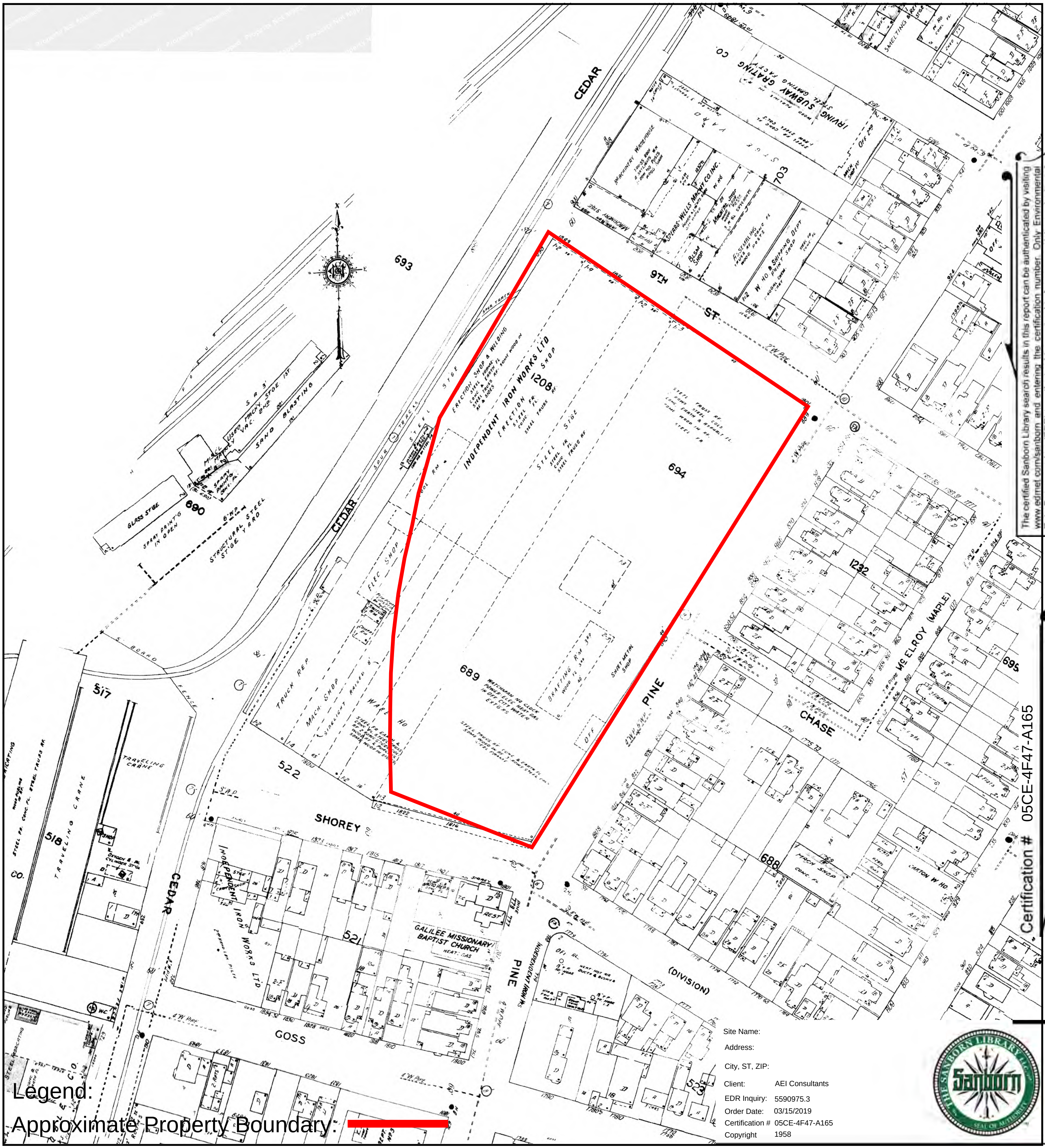
N

SANBORN MAP - 1961

AEI Consultants

Certified Sanborn® Map

1958



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Approximate Property Boundary: 🟥

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City, ST, ZIP:
Client: AEI Consultants
EDR Inquiry: 5590975.3
Order Date: 03/15/2019
Certification # 05CE-4F47-A165
Copyright 1958

Volume 1, Sheet 67
Volume 1, Sheet 89
Volume 1, Sheet 88

0 Feet 150 300 600

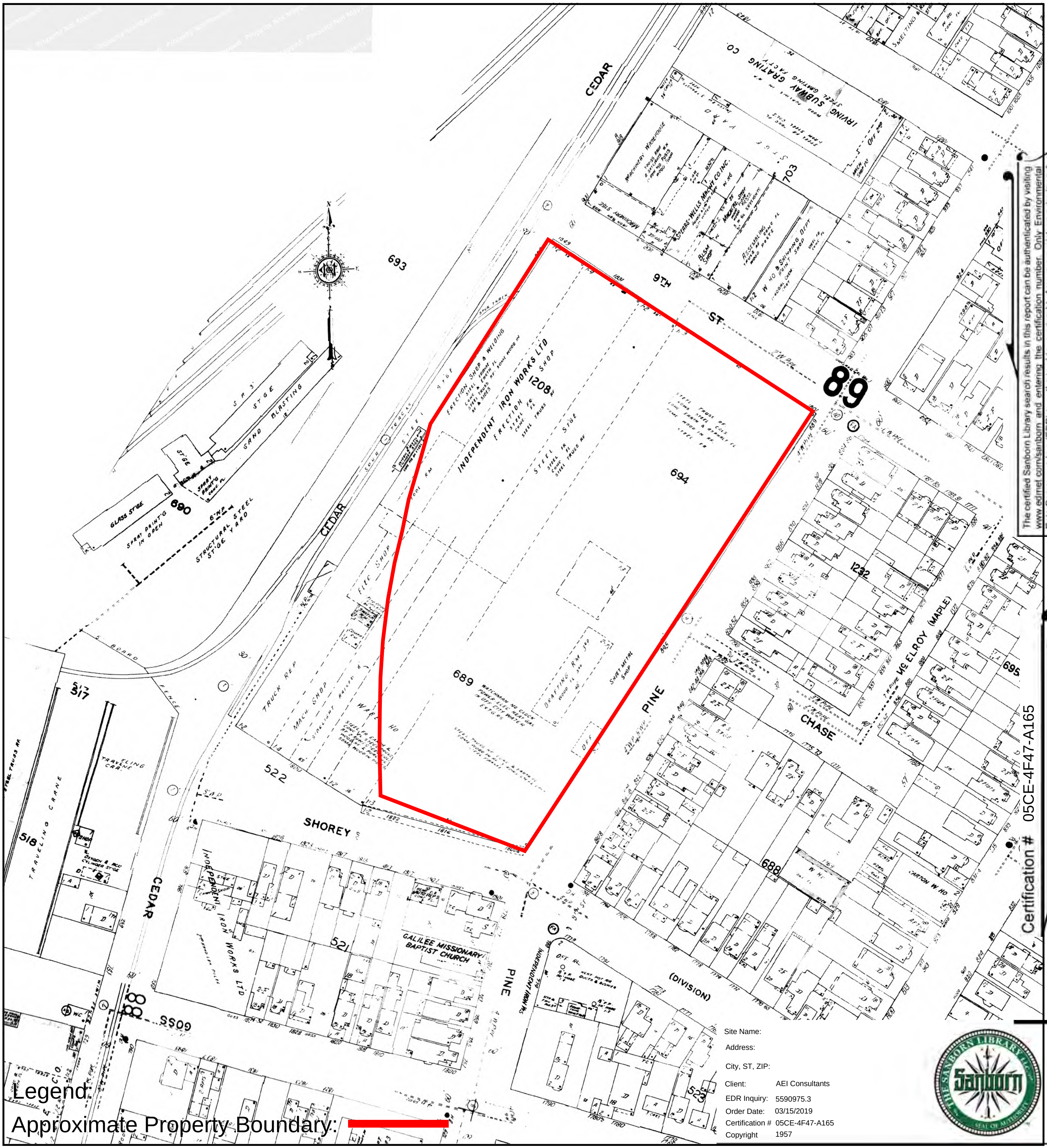
N

SANBORN MAP - 1958

AEI Consultants

Certified Sanborn® Map

1957



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Legend:

Approximate Property Boundary: 🟥

Site Name:

Address:

City, ST, ZIP:

Client: AEI Consultants

EDR Inquiry: 5590975.3

Order Date: 03/15/2019

Certification # 05CE-4F47-A165

Copyright 1957

Volume 1, Sheet 89
Volume 1, Sheet 88
Volume 1, Sheet 67

0 Feet 150 300 600

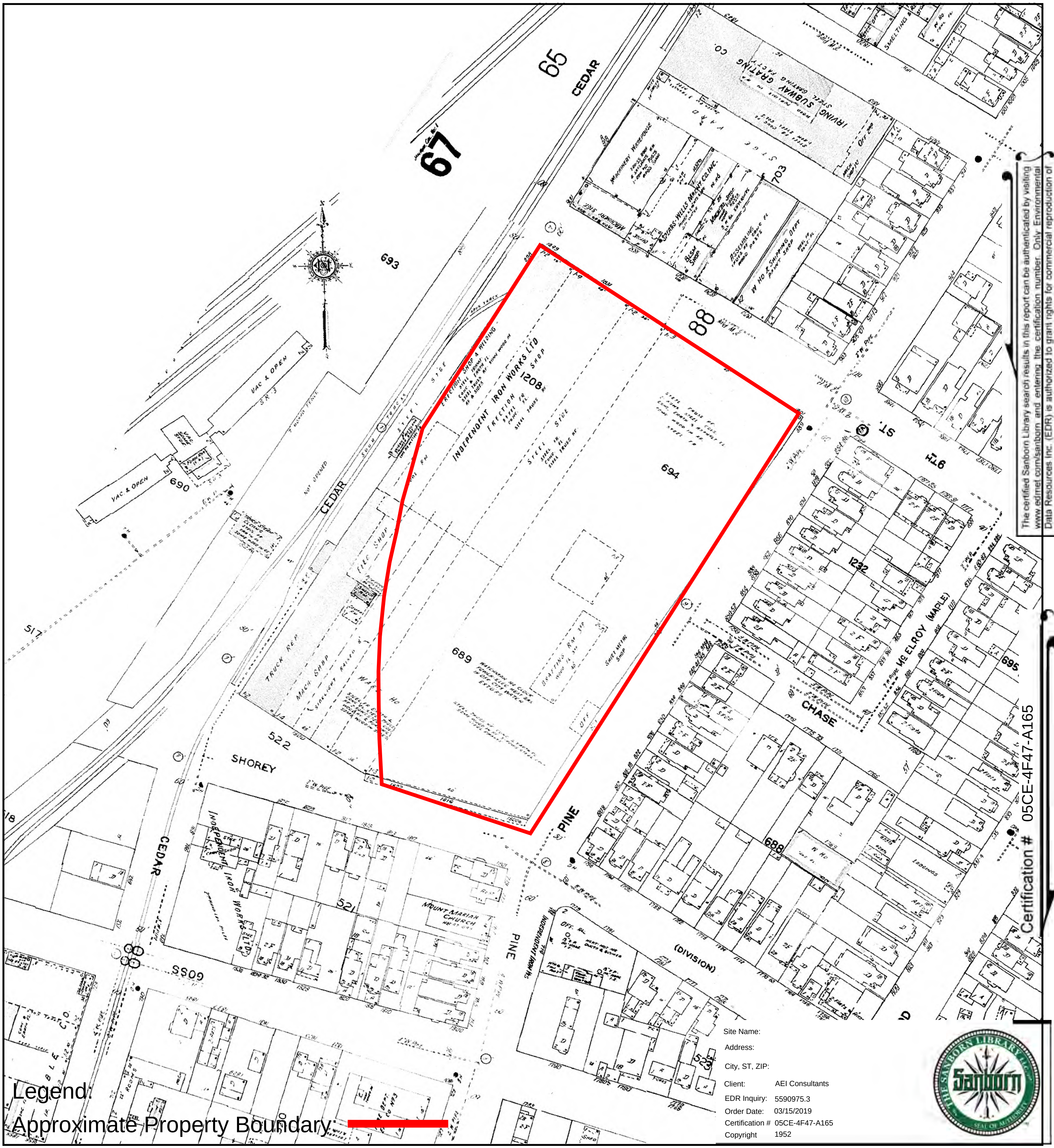
N

SANBORN MAP - 1957

AEI Consultants

Certified Sanborn® Map

1952



Certification # 05CE-4F47-A165

Legend:

Approximate Property Boundary: 🟥

Site Name:

Address:

City, ST, ZIP:

Client:	AEI Consultants
EDR Inquiry:	5590975.3
Order Date:	03/15/2019
Certification #	05CE-4F47-A165
Copyright	1952

Volume 1, Sheet 89
Volume 1, Sheet 88
Volume 1, Sheet 67

0 Feet 150 300 600

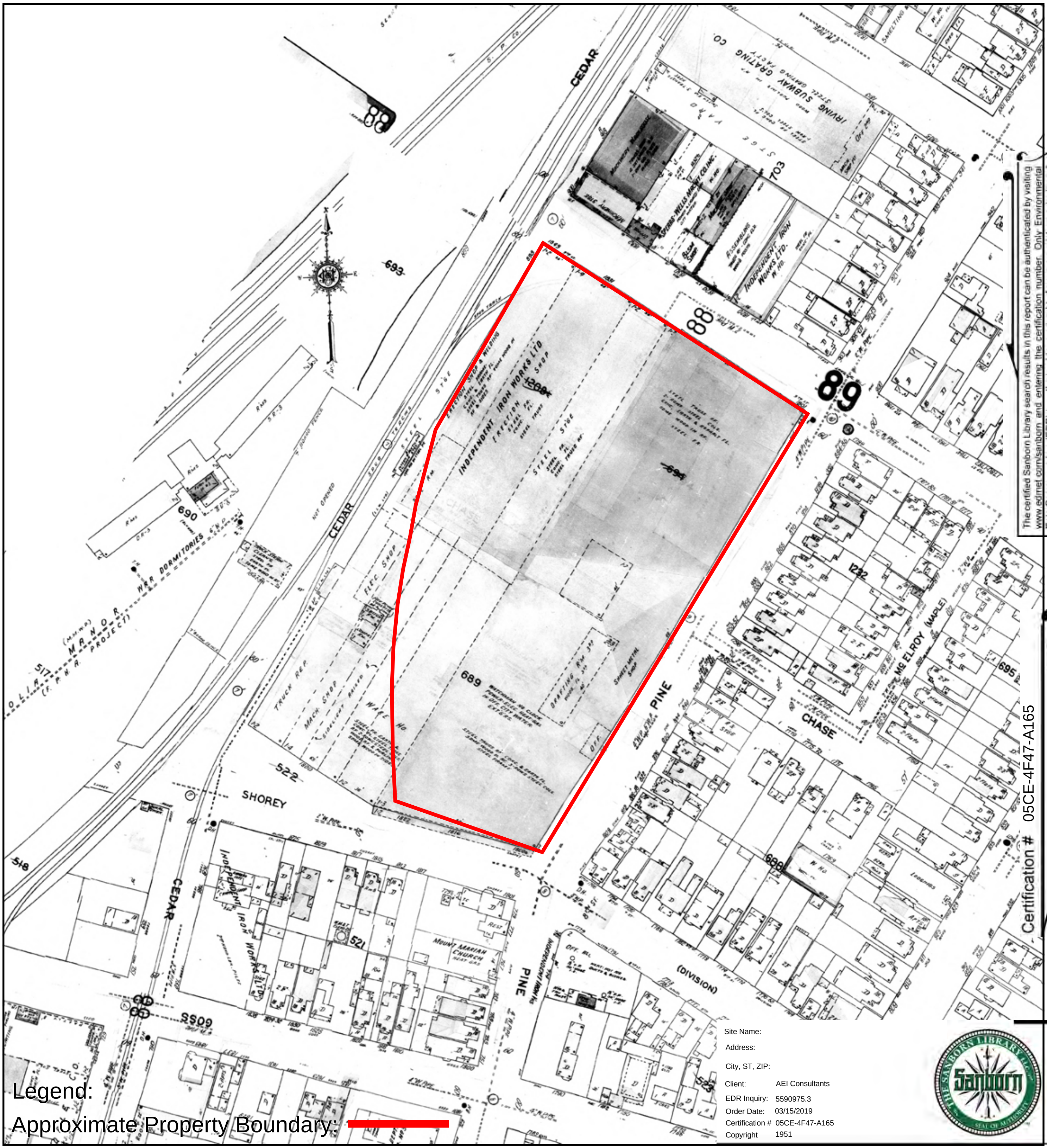
N

SANBORN MAP - 1952

AEI Consultants

Certified Sanborn® Map

1951



Legend:

Approximate Property Boundary: 🟥

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Site Name:	
Address:	
City, ST, ZIP:	
Client:	AEI Consultants
EDR Inquiry:	5590975.3
Order Date:	03/15/2019
Certification #	05CE-4F47-A165
Copyright	1951

Volume 1, Sheet 89
Volume 1, Sheet 88
Volume 1, Sheet 67
Volume 1, Sheet 65

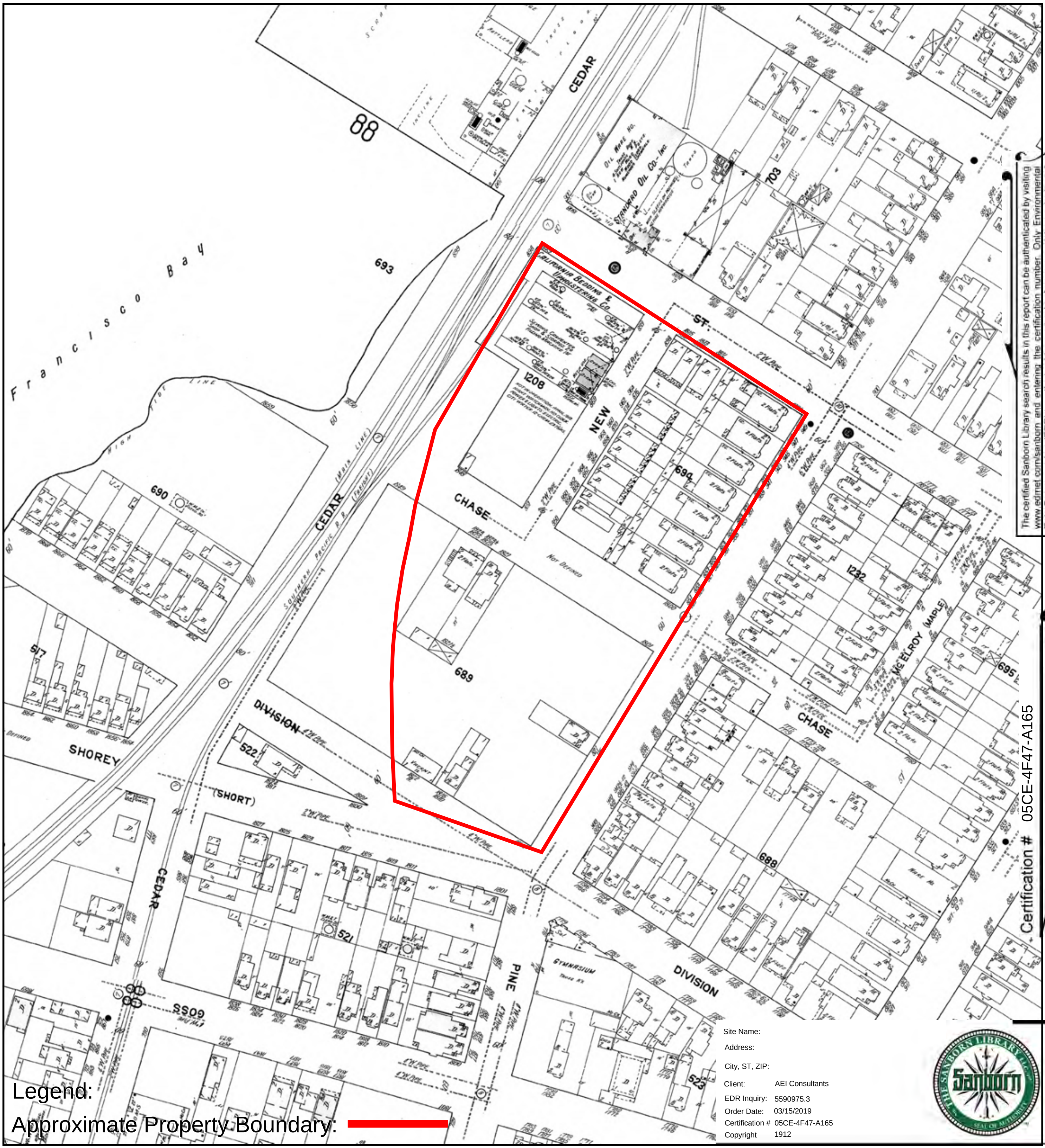
0 Feet 150 300 600

N

SANBORN MAP - 1951

Certified Sanborn® Map

1912



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Site Name:

Address:

City, ST, ZIP:

Client:	AEI Consultants
EDR Inquiry:	5590975.3
Order Date:	03/15/2019
Certification #	05CE-4F47-A165
Copyright	1912

Legend:

Approximate Property Boundary: 🟥

Volume 1, Sheet 89
Volume 1, Sheet 88
Volume 1, Sheet 67
Volume 1, Sheet 65

0 Feet 150 300 600

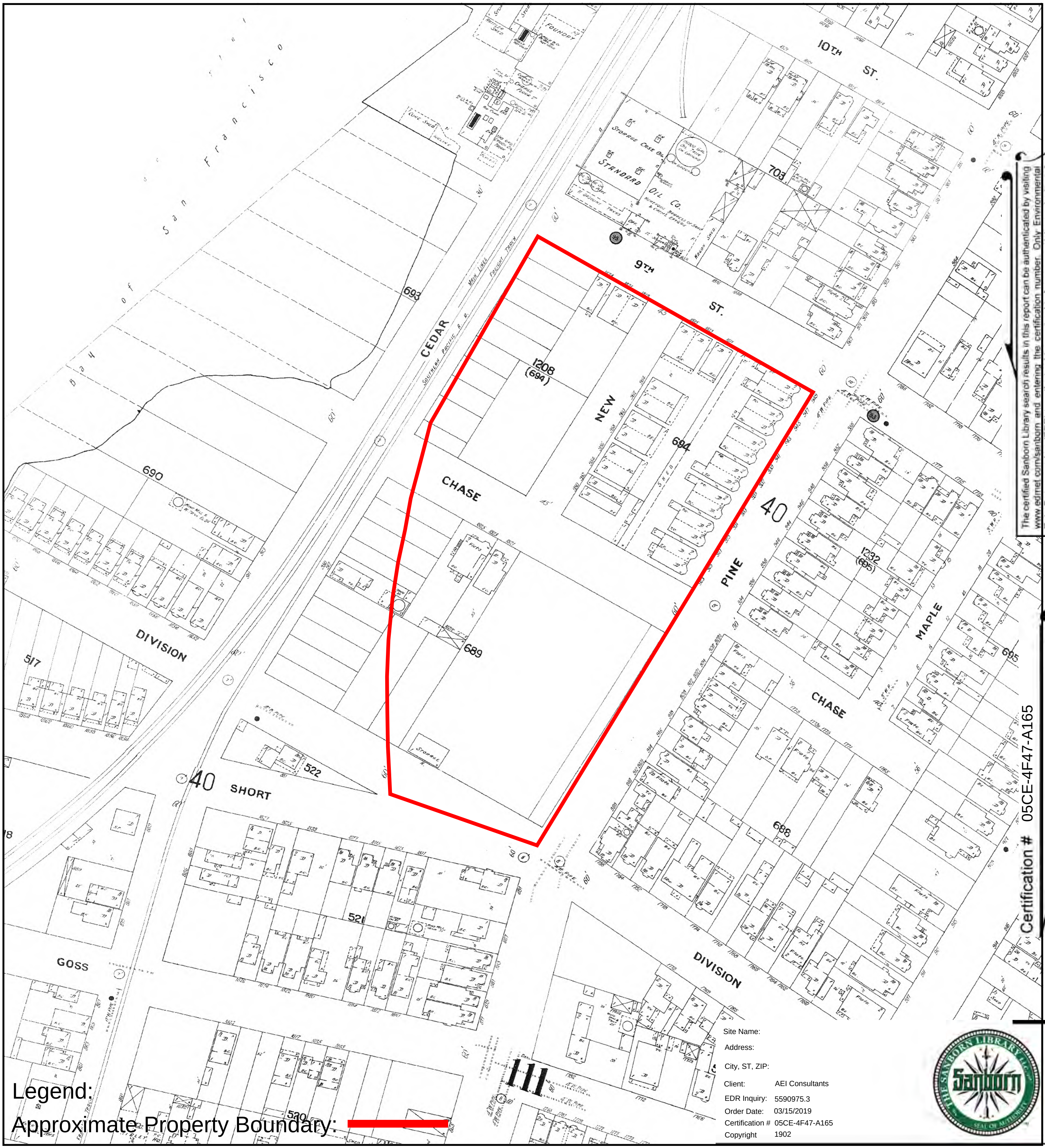
N

SANBORN MAP - 1912

AEI Consultants

Certified Sanborn® Map

1902



Legend:

Approximate Property Boundary: 🟥

Site Name:

Address:

City, ST, ZIP:

Client: AEI Consultants

EDR Inquiry: 5590975.3

Order Date: 03/15/2019

Certification # 05CE-4F47-A165

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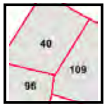

Volume 1, Sheet 109
Volume 1, Sheet 96
Volume 1, Sheet 40

0 Feet 150 300 600

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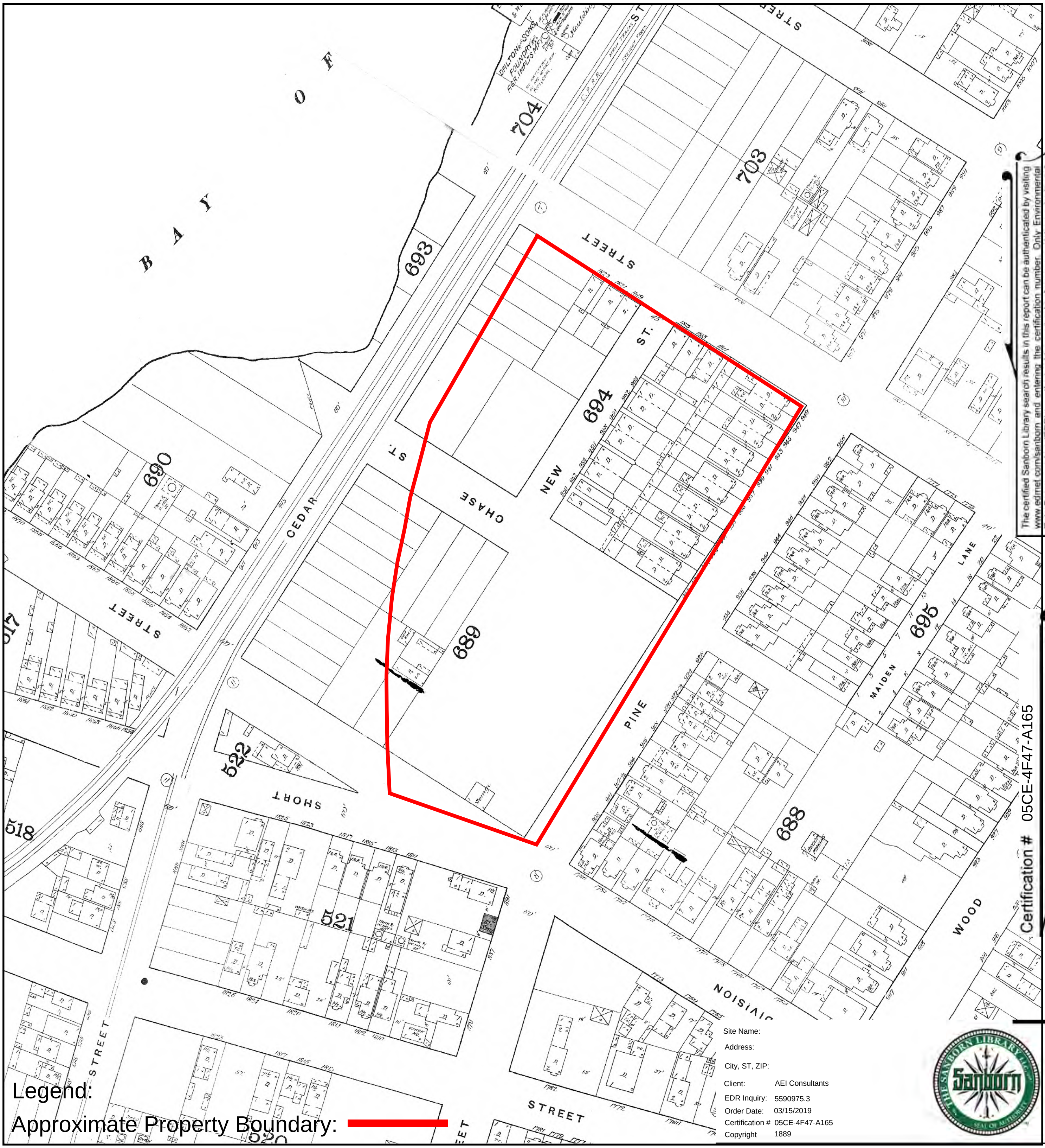
SANBORN MAP - 1902

AEI Consultants

Certified Sanborn® Map

1889



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Certification # 05CE-4F47-A165

Legend:

Approximate Property Boundary: 🟥

Site Name:

Address:

City, ST, ZIP:

Client:	AEI Consultants
EDR Inquiry:	5590975.3
Order Date:	03/15/2019
Certification #	05CE-4F47-A165
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Volume 1, Sheet 25d
Volume 1, Sheet 25c

0 Feet 150 300 600

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SANBORN MAP - 1889

AEI Consultants

APPENDIX E

REGULATORY AGENCY RECORDS

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
REBECCA GEBHART, Interim Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

NOTIFICATION OF INTENT

TO ENTER VOLUNTARY REMEDIAL ACTION AGREEMENT

To: California Department of Toxic Substances Control
San Francisco Bay Regional Water Quality Control Board

From: Teena Le, Environmental Health Technician
Alameda County Department of Environmental Health (ACDEH)

Date: November 14, 2017

This provides written notice that Alameda County Department of Environmental Health has received a request and intends to enter into a Voluntary Remedial Action Agreement with the responsible party pursuant to Health and Safety Code Section 101480 in approximately 10 working days.

The following information is provided:

(a) The name and address of the Responsible Party is Urban Designs LLC, 1201 Pine St. #151, Oakland, CA 94607

(b) The name and address of the site owner is California Department of Transportation, 111 Grand Ave, Oakland, CA 94612

(c) The Voluntary Remedial Action Agreement will apply to 800 Cedar St, Oakland, CA

(d) The purpose of the Remedial Action Agreement will be to investigate the extent of soil and groundwater contamination as a result of a release(s) from a gasoline station. Site is under contract and a mixed commercial/residential redevelopment is proposed.

URBAN DESIGNS, LLC

1201 Pine Street, Unit 151 • Oakland, CA 94607-1461

RECEIVED

By Alameda County Environmental Health 11:17 am, Dec 04, 2017

December 1, 2017

Mr. Andrew York
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

SUBJECT: SOIL AND GROUNDWATER MANAGEMENT PLAN CERTIFICATION
County File # RO 3269
The Phoenix
800 Cedar St.
Oakland, CA 94607

Dear Mr. York:

You will find attached one copy of the following document prepared by P&D Environmental, Inc. for the subject site:

- Soil and Groundwater Management Plan dated December 1, 2017.

I have read and acknowledge the content, recommendations and/or conclusions contained in the attached document or report submitted on my behalf to ACDEH's FTP server and the SWRCB's GeoTracker website.

Should you have any questions, please do not hesitate to contact me at (510) 588-5134.

Sincerely,

Urban Designs, LLC

Rick Holliday
Manager

Attachment

0772.L2

SOIL AND GROUNDWATER MANAGEMENT PLAN

County File # RO 3269

Urban Designs, LLC

The Phoenix

800 Cedar Street

Oakland, CA

Prepared For:

Mr. Kevin Brown

Urban Designs, LLC

1201 Pine Street #151

Oakland, CA 94607

Prepared By:

P&D Environmental, Inc.

55 Santa Clara Avenue, Suite 240

Oakland, CA 94610

PROFESSIONAL GEOLOGIST
PAUL H. KING
No. 5901
STATE OF CALIFORNIA

Paul H. King

Paul H. King
Professional Geologist

December 1, 2017

Project # 0772

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Appendices

1.0 INTRODUCTION

This Construction Soil and Groundwater Management Plan (SGMP) has been prepared by P&D Environmental, Inc. of Oakland, California (P&D) on behalf of Urban Designs, LLC (Urban Designs) for earthwork activities associated with the redevelopment project of 800 Cedar Street in Oakland, California (***Figure 1***) with Alameda County Assessor Parcel Number (APN) 006-047-1 (the Site) for what is identified on the Alameda County parcel viewer page as 800 Cedar Street. Cedar Street no longer exists, and the site is bounded on the east by Pine Street. The Site is currently vacant with a concrete surface covering almost all of the property. The redevelopment project ("Project") consists of (1) demolition of the existing concrete cover; (2) grading and soil excavation for utilities, elevator shafts, and foundations; and (3) construction of multi-story, mixed-use residential buildings and landscaped areas.

1.1 Lead Regulatory Oversight Agency for Environmental Site Cleanup

Soil and groundwater at the Site has been impacted from historical land use practices on-Site and potentially off-Site. Alameda County Department of Environmental Health's (ACDEH) Local Oversight Program for Hazardous Materials Releases (LOP) is the lead regulatory oversight agency for the environmental investigation and cleanup actions at the Site under Site Cleanup Program Case (SCP) No. RO0003269. A separate LOP Case No. RO0000417 was historically associated with a former Underground Storage Tank (UST) release that was located on a portion of the former Phoenix Iron Works that is no longer a portion of the existing property.

Due to the presence soil and groundwater contamination at the Site corrective actions are necessary to safely prepare the Site for development. Corrective actions include: (1) on-Site consolidation of lead-contaminated soil; (2) capping lead impacted soil on-Site beneath building foundations, hardscape and/or clean fill; (3) installation of a vapor mitigation barriers; and (4) installation of trench plugs in utility trenches where required to mitigate vapor migration.

A Site map showing the historical locations of USTs is attached as ***Figure 2***. No ground floor plan is presently available for the project. A complete record of environmental Site investigations at the Site may be obtained in the case files for RO0003269 (i.e., available regulatory directives and correspondence, reports, analytical data, etc.) through review of both the State Water Resources Control Board's GeoTracker database, and the ACDEH website at http://www.acgov.org/aceh/index.htm.

1.2 SGMP Purpose & Objectives

This SGMP is designed to provide Urban Designs and the construction team with guidance for the proper handling and management of contaminated soil and groundwater during redevelopment activities.

The goals of this SGMP are to provide detailed information regarding known environmental conditions at the Site and establish a decision-making structure to assist the construction team in the identification and management of contaminated media, when and if they are encountered. The objectives of this SGMP are as follows:

- Communicate information to Site construction workers about Site environmental conditions;
- Present protocols for appropriate community protection;
- Present guidelines for health and safety precautions for on-Site workers who may access soil or groundwater that could contain residual chemicals of concern;
- Present notification and reporting requirements;
- Present protocols for management of known contaminated soil or extracted groundwater generated during Site redevelopment activities; and
- Present contingency procedures in the event that localized areas of unanticipated chemically-affected soil or other subsurface features of environmental concern are encountered during earthwork or excavation activities;

2.0 RESPONSIBILITY FOR SGMP IMPLEMENTATION

Representatives for the property Owner will oversee implementation of the SGMP at the Site. A copy of this SGMP will be maintained at the Site at all times. The Owner and General Contractor(s) will make all third-party subcontractors working at the Site aware of the requirements of the SGMP, and provide an electronic copy and hard-copy to all subcontractors that are performing activities covered by this SGMP and who may encounter suspect subsurface conditions during execution of their work.

The project Environmental Consultant will be present to assist the Owner and contractors with the implementation of this SGMP when ground-disturbing activities are being conducted in areas where contamination is known or suspected or when unknown conditions are encountered.

2.1 Activities Covered by the SGMP

The following activities constitute the work covered under this SGMP.

- **Subsurface Construction or Repair** – any activity occurring beneath the grade level of existing or future ground surface;
- **Utility Line Work** – any subterranean inspection, excavation, or repair of electrical, telephone, water, sanitary sewer or storm drains occurring within or outside of existing vaults (conducted prior to excavation); and

- **Other** – other subgrade activities not expressly listed a love (e.g., deep landscaping work, sub-slab work, etc.)

2.2 Project Construction Team Contact Information

Prior to the initiation of construction activities that are covered under this SGMP, the Owner will confirm the Owner's project representative and project Environmental Consultant listed below. Regular and 24-hour emergency contact information for these individuals will be confirmed and updated as necessary. A project contact sheet will be provided to the General Contractor and posted in an accessible and suitable location at the Site.

Project Role	Company Name	Name	Contact Information
Owner Representative	Urban Designs, LLC	David Schenker	(510) 588-5134; david@hollidaydevelopment.com
General Contractor	Cannon Constructors North, Inc.	Larry Pace	(415) 546-5500; LPace@cannongroup.com
Environmental Consultant	P&D Environmental, Inc.	Paul King	(510) 658-6916; paul.king@pdenviro.com

2.3 Worker Health and Safety

In addition to following the SGMP, each Contractor and subcontractor is responsible for the safety of its employee and Site visitors including but not limited to adherence to a health and safety plan and use of property-trained personnel:

- **Preparation of a Site-Specific Health and Safety Plan (HASP)**. A HASP will be prepared for the project in accordance with California Occupational Safety and Health Administration (CAL-OSHA) Construction Safety Orders within Title 8 of the California Code of Regulations (CCR). The General Contractor is responsible for notifying subcontractors and visitors of pertinent environmental conditions to ensure adequate protection for workers and visitors while on Site. Subcontractors may either adopt the General Contractor's HASP or prepare their own HASP. In the event that unanticipated conditions occur at the Site, the HASP will be modified accordingly.

- **Use of Properly-Trained Personnel**. Each contractor engaged in contact and management of contaminated soil or groundwater will use properly trained personnel in accordance CCR, Title 29, Part 1910.120 Hazardous Waste Operations and Emergency Response (HAZWOPER) standards.

2.4 Community Protection During Site Redevelopment

Land use in the vicinity of the Site is mixed commercial and residential. A map of the land use in the immediate vicinity of the Site is presented on ***Figure 1***. During the development of the Site, the Owner and contractors will implement measures to control potential risks to the surrounding community from fugitive dust emissions. These activities will be implemented when there is the potential for exposed soil to affect the nearby community. It is anticipated that following placement of hardscapes and building pads, air monitoring will not be required as there will not be exposed soil surfaces.

2.5 Agreement and Acknowledgement Statement

Prior to commencement of any Site activities that disturb the ground surface, the General Contractor and subcontractors of the Owner will read this plan and sign the Agreement and Acknowledgement Statement (***Appendix A***) to certify that they have read, understood and agreed to abide by its provisions.

3.0 AGENCY NOTIFICATION & REPORTING REQUIREMENTS

The Owner will notify the ACDEH and other agencies as applicable during Site development activities in accordance with the protocols described below.

3.1 ACDEH Notification

The Owner will notify the ACDEH and the ACDEH Certified Unified Program Agency (CUPA) during Site redevelopment activities in accordance with the protocols below.

3.1.1 Twenty-four (24) Hour Notification

The ACDEH will be notified within 24 hours of discovery if any of the following potentially hazardous conditions are encountered:

- Releases spills or releases of hazardous substances or petroleum hydrocarbons to soil or water that are considered, based on best professional judgment and/or physical evidence (including but not limited to olfactory, visual, field instrument, and lab data), to be an immediate threat to human health and the environment; and/or

- Discovery of unknown conditions (underground storage tanks, sumps, vaults, piping, etc.) or newly found contamination.

In the event of the discovery of USTs, vaults, hoists, & pipelines, the ACDEH CUPA must also be notified within 24 hours of the discovery.

3.1.2 Seventy-two (72) Hour Notification

The ACDEH will be notified 72 hours in advance of ground disturbing activities in areas of known contamination or suspected contamination.

3.1.3 ACDEH and CUPA Contact Information

The primary points of contact for the ACDEH LOP and CUPA are provided below. All agency notifications must be made by phone and email. An ACDEH contact sheet will be provided to the General Contractor and posted in an accessible and suitable location at the Site.

Drew York, ACDEH Case Worker	(510) 639-1276; Andrew.York@acgov.org
Paresh Khatri, ACDEH Program Manager	(510) 777-2478; paresh.khatri@acgov.org
ACDEH CUPA	(510) 567-6700 dehalamedacers@acgov.org

3.2 Other Agency Notification

In addition to the ACDEH notification requirements discussed above, other agency notifications may be required. Contact information for other agency notifications that may be required is provided below. Prior to the initiation of construction activities that are covered under this SGMP, the Owner will confirm the contact information listed below. An agency contact sheet will be provided to the General Contractor and posted in an accessible and suitable location at the Site.

Conditions Posing an Immediate Threat. For life-threatening or serous hazardous materials incidents, the following number will be contacted immediately upon discovery.	
Local police, fire and rescue services	911
Releases to Water. For spills or releases of hazardous substances or petroleum hydrocarbons to surface water, the following agencies will be contacted immediately upon discovery.	
National Spill Response Center	(800) 424-8802
United States Coast Guard – San Francisco Sector (if spill is going to reach navigable waters)	(415) 399-3547
California Office of Emergency Services	(800) 852-7550; (916) 845-8911
California Regional Water Quality Control Board – San Francisco Bay Region	(510) 622-2300
Local Emergency Response Agency	911
VOC-Impacted Soil. If VOC-impacted soil is discovered during Site grading activities, the following agency will be notified.	

Bay Area Air Quality Management District (BAAQMD)	(415) 749-4900
Dust Complaints. For dust complaints during ground disturbing activities, the following agencies will be notified.	
City of Oakland Building Department	(510) 238-3381
BAAQMD	800-334-ODOR (6367)

3.3 LMC Record Keeping & Reporting Requirements

All groundwater removal and soil excavation, disposal and import activities will be documented in daily field reports by the Contractor and/or Environmental Consultant and will kept at the Site and made available to ACDEH upon request. Documentation will include at a minimum the following, as applicable:

- **Groundwater** – volume of groundwater that is removed, characterization, treatment, and destination (transported to temporary holding tanks, used as dust suppression, and/or disposed of off-Site);

- **Underground Structures** – type, contents, characterization, and destination (abandoned in place or disposed of off-Site);

- **Impacted Soil** – origin, volume, characterization, and destination (transported to temporary soil locations within the Site, disposed of off-Site, and/or re-used on Site);

- **Imported Soil** – origin, volume, characterization, and destination (location on-Site);

- **Off-Site Disposal Records** – date, time, trucking company, driver and vehicles used for the trip, equipment decontamination and tarping, waste/material type, volume, copies of bills-of-lading, and hazardous waste manifests; and

- **Dust Complaint Logs** – time, name and contact information, complaint description, earthwork activities associated with complaint, and measures taken to mitigate dust;

- **Analytical Reports** – copies of waste characterization laboratory analytical results.

Following completion of the work covered by this SGMP, the Environmental Consultant will prepare a report for submittal to ACDEH that documents compliance with this SGMP including soil and/or groundwater sampling, removal and management of unknown structures, chemical analysis and proper disposal of contaminated materials and soil import. The report will include at a minimum the information described in Section 3.3 above.

4.0 ENVIRONMENTAL SITE CONDITIONS

Soil and groundwater has been impacted at the Site from historical Site use and potentially from off-Site sources. A summary of known environmental conditions in soil and groundwater is provided below. Tabulated results of analytical data with figures showing the sample collection locations are provided in ***Appendix B***. ***Figures 4 through 7*** of this SGMP show the locations of contaminants historically detected at the Site at concentrations exceeding regulatory agency screening levels. All historical borehole locations are shown in attached ***Figure 3***; historical locations of petroleum and PAHs detected in soil at concentrations exceeding Tier 1 screening levels are shown in attached ***Figure 4***; historical locations of lead detected in soil at concentrations exceeding Tier 1 screening levels are shown in attached ***Figure 5***; historical locations of Total Petroleum Hydrocarbons (TPH) and Volatile Organic Compounds (VOCs) detected in groundwater at concentrations exceeding Tier 1 screening levels are shown in attached ***Figure 6***; historical locations of metals detected in groundwater at concentrations exceeding Tier 1 screening levels are shown in attached ***Figure 7***; and the historical locations of VOCs detected in soil gas at concentrations exceeding Tier 1 screening levels are shown in attached ***Figure 8***.

4.1 Soil

The concrete cover at the Site is underlain by fine to medium sand and silty sand, with poorly graded sand encountered on the eastern portion of the Site and silty sand predominantly encountered in the western portion of the Site. Where both lithologies are encountered, the poorly graded sand overlies the silty sand. Known soil contamination includes the following:

- **Petroleum Impacts.** Elevated concentrations of petroleum-related compounds, detected as Total Recoverable Petroleum Hydrocarbons (TRPH), Total Petroleum Hydrocarbons as Diesel (TPH-D), and Total Petroleum Hydrocarbons as Motor Oil (TPH-MO) have been detected at concentrations exceeding Tier 1 soil screening levels at only a limited number of locations on the western side of the property at depths of 1.5 feet bgs or less (see ***Figure 4***). TRPH, TPH-D and TPH-MO have also been detected in soil at concentrations exceeding Tier 1 soil screening levels at locations to the west of the current property boundary (see ***Figure 4***). Petroleum related Volatile Organic Compounds (VOCs) such as Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) have only been detected in soil at very low concentrations in soil (below Tier 1 soil screening level concentrations) during historical removal activities of a former gasoline and two former solvent Underground Storage Tanks (USTs). Polyaromatic Hydrocarbons (PAHs) have only been detected on-Site in soil at two locations in the western portion of the Site at a depth of 0.5 feet bgs at concentrations exceeding Tier 1 soil screening levels, at one location to the west of the existing property (see ***Figure 4***).

- **Lead Impacts.** Lead is encountered at concentrations exceeding the Tier 1 soil screening level at a limited number of locations at the Site at a depth of 0.5 to 1.0 feet bgs. Additionally, lead exceeding the Tier 1 soil screening level is encountered on the western edge of the property at one location at a depth of 3.0 feet bgs and at a second location at a depth of 7.0 feet bgs (see ***Figure 5***). During earthwork activities soil excavated to achieve Site grades and construct building foundations that contains lead concentrations exceeding Tier 1 soil screening levels will be consolidated on Site with on-Site burial beneath building foundations, hardscape, or clean fill material.

4.2 Groundwater

Unconfined groundwater has been encountered at depths of approximately 9 to 10 feet bgs. Petroleum hydrocarbons (TPH-D, TPH-MO and TPH Bunker Oil (TPH-BO)) and volatile organic compounds (benzene, trichloroethylene (TCE), and chloroform) are present in groundwater at concentrations exceeding Tier 1 groundwater screening levels beneath the eastern and southern portions of the Site (see ***Figure 6***). Additionally, dissolved metals (barium, beryllium, chromium, lead, and nickel) have also historically been detected at concentrations exceeding Tier 1 groundwater screening levels beneath the eastern and southern portions of the Site (see ***Figure 7***).

4.3 Discovery of Unexpected Conditions

Due to historical Site use as a commercial iron foundry, redevelopment activities may reveal unexpected conditions such as previously unidentified areas of contamination or underground structures such as USTs, vaults, hoists, sumps, maintenance pits, pipelines, etc. In the event that unexpected conditions are discovered during Site development that indicate the presence of contamination, the contractor is to stop work at the location of the discovery and notify the general contractor or the property owner of the discovered conditions. The area where the conditions have been discovered will be cordoned off and identified with caution tape and workers will be directed to not enter the area until the area has been evaluated by the general contractor or the owner and authorization has been provided by the general contractor or owner to resume work in the are identified with caution tape. Work may continue in the vicinity of the area identified with caution tape outside the area identified with caution tape.

See also section 6.3 below for procedures associated with discovery of unexpected conditions.

5.0 PRE-FIELD ACTIVITIES

The pre-field activities include a description of planning and organizational aspects of soil excavation required for excavation to begin.

5.1 Site Security and Access

During remedial activities, the Site will be secured to provide protection and safety to on-Site personnel and equipment, and to prevent unauthorized access to areas of remedial activity. A 6-foot high chain link fence exists around the perimeter of the Site and encloses the staging area and the work zones (*i.e.*, any exclusion, decontamination, and support zones). During non-working hours, the fencing will be fully closed and locked. During remedial activities, access will be restricted to authorized personnel only.

5.2 Traffic Control

Caution will be exercised during entrance and exiting of the work area to ensure safe and uninterrupted traffic flow. Entrance into and departure from the Site by trucks will be facilitated by a flagman, or comparable contractor personnel, as necessary. Once trucks have left the Site, they will follow specific haul routes to disposal facilities as described in the Transportation Plan, Section 5.3.5.

5.3 Excavation Permit

All necessary permits for removal activities, transportation, and/or air quality will be obtained prior to remediation. The permits will be kept on-Site and made available for inspection during working hours.

The procedures proposed for remediation activities will comply with federal, State and local rules and regulations, regardless of whether permit documents are required.

5.4 Notifications and Utility Clearance

The general contractor or owner will notify the Bay Area Air Quality Management District (BAAQMD) of excavation activities at least five days prior to implementation. In addition, the general contractor or owner will also notify ACDEH of the soil excavation activities at least 72 hours prior to commencing work. The proposed excavation areas will be marked in white paint prior to contacting Underground Service Alert (USA) at least 48 hours prior to excavating, as required by law. A private utility locating service will be contracted prior to conducting the field activities to mark and/or clear proposed excavation locations relative to the presence and/or marked locations of potential subsurface utilities.

6.0 SOIL MANAGEMENT

Redevelopment activities include grading of the Site. Site grading will include removing the top concrete cover of Site material (pavement, fill material) and excavating soil in conjunction with installation of utility trenches, elevator shafts, and building foundations. Lead-impacted soil will be excavated under the observation of the Environmental Consultant in the areas shown on ***Figure 5*** prior to completing general grading activities during Site redevelopment. Any excess soil generated during grading may be temporarily stockpiled on-Site and either re-distributed for re-compaction on-Site as part of Site grading activities, or transported off-Site for disposal.

All soil management and handling activities will be conducted in accordance with applicable federal, state, and local regulations. During implementation of the project other data may be collected for profiling purposes and to further refine the quantities and classification of potential waste materials that may be generated.

6.1 Excavation of TPH- and PAH-Contaminated Soil

TPH- and PAH-impacted soil at the Site exceeds residential human health risk-based screening levels at a limited number of locations (see ***Figure 4***). Excavation of TPH- and PAH-impacted soil will be conducted in the following general sequence:

- Develop staging areas, access paths for equipment, work zones, and decontamination areas for use during handling of contaminated soil to reduce the potential of tracking waste off-Site;

- Identify locations of perimeter air monitoring stations, as necessary, and begin monitoring to comply with BAAQMD regulations, the HASP, and the protocols in Section 10.0 of this SGMP;

- Excavate and stockpile soil for characterization or direct load onto trucks for appropriate off-Site disposal.

- Environmental consultant will collect discrete confirmation soil samples from locations where TPH- and PAH-impacted soil has been removed in accordance with the Site Remedial Action Plan to confirm that impacted soil has been removed. Areas where impacted soil has been excavated will not be filled without written authorization from the general contractor or owner.

6.2 Excavation of Lead-Contaminated Soil

Lead-impacted soil at the Site exceeds residential human health risk-based screening levels at a limited number of locations (see ***Figure 5***). Excavation of lead-impacted soil will be conducted in the following general sequence:

- Develop staging areas, access paths for equipment, work zones, and decontamination areas for use during handling of contaminated soil to reduce the potential of tracking waste off-Site;

- Identify locations of perimeter air monitoring stations, as necessary, and begin monitoring to comply with BAAQMD regulations, the HASP, and the protocols in Section 10.0 of this SGMP;

- Remove lead-impacted soil that requires consolidation to locations that have been designated for on-Site consolidation.

- The environmental consultant will collect discrete confirmation soil samples from locations where lead-impacted soil has been removed in accordance with the Site Remedial Action Plan to confirm that lead-impacted soil has been removed. Areas where lead-impacted soil have been excavated will not be filled without written authorization from the general contractor or owner.

6.3 Contingency Measures for Previously Unidentified Suspect Soils

The following contingency measures will be implemented in the event that previously unidentified suspected chemically-affected soil is identified during Site excavation. All contingency measures will be conducted by HAZWOPER-trained environmental professionals in accordance with the HASP.

Additionally, as a precaution, the Environmental Consultant will be present during excavation and grading activities in areas of historical underground storage tanks, subsurface anomaly detections, and deeper soil contamination (as shown on ***Figures 2 and 5***) in the event that unexpected contamination or subsurface structures are encountered.

6.3.1 Identification of Contaminated Soil

The Contractor will be instructed to report indicators of contaminated soil, in particular, petroleum hydrocarbons. The three primary physical indicators of petroleum-related contamination in soil include staining, sheen, and petroleum-like odor, as described below:

- **Staining:** Generally, soil that is impacted with petroleum hydrocarbons exhibits gray, black or green staining, although other contaminants and natural conditions may also cause staining.

- **Sheen:** Sheen is another indication of petroleum contamination. Soil exhibiting sheen may appear shiny and reflective. Sheens from heavily impacted soil may appear iridescent with rainbow-like colors.

- **Odor:** Soil impacted with petroleum products, volatile organics, and other types of contamination may release vapors when exposed to the atmosphere. These vapors can be interpreted as an odor. Odor can be subjective, and inhalation of vapors from impacted soil is harmful to human health. Therefore, odor is considered a qualitative field indicator and should not be used for continuous screening of soil.

If soil exhibiting evidence of contamination is encountered during excavation, the Contractor will cease excavation activities in the area and notify the general contractor, the property owner, or the Environmental Consultant within 24 hours. The Contractor will not conduct any work in the area of concern or replace any known or suspected contaminated soil in the excavation area without prior approval by either the general contractor or the property owner. The general contractor or the property owner will not provide authorization for work within the suspected contaminated area without authorization from the ACDEH.

6.3.2 Preliminary Assessment

Preliminary assessment of the previously unidentified suspect soil will include confirmation that access control measures installed by the General Contractor are adequate to provide necessary protection to on-Site workers and the public during the evaluation phase. Confirmation will consist of visual assessment of the installed barriers as well as monitoring of the air outside the control area.

Air sampling will be conducted around the perimeter of the secured area using a combination photoionization detector (PID) meter to measure volatile organic compounds (VOCs) in the breathing zone and a lower explosive limit (LEL)/oxygen (O_2) meter to measure concentrations of combustible gases and available oxygen. If the air sampling suggests that the control measures are improperly positioned to provide necessary protection to on-Site workers, the barriers will be relocated as necessary.

The Environmental Consultant will conduct a preliminary assessment to determine if the previously unidentified suspect soil is considered a significant risk to human health or the environment. If field observations suggest that the suspect conditions are *de minimis* and: (1) do not present a threat to human health or the environment; or (2) would generally not be subject of an enforcement action if brought to the attention of appropriate governmental agencies; then the Environmental Consultant will terminate the contingency plan process and release the suspect areas to the General Contractor.

6.3.3 Evaluation of Previously Unidentified Suspect Soil

If conditions in the suspect area are not considered *de minimis*, the Environmental Consultant will notify the ACDEH on behalf of the Owner within 24-hours of discovery and evaluate the nature and extent of the potentially chemically-affected soil in accordance with the protocols below.

- **In-Situ Soil Samples.** An in-situ soil sample will be collected from the same location and depth as the previously unidentified suspect soil and at 1-foot below this depth. Additional samples will also be collected at the same depths at a minimum of four step-out locations to assess soil conditions around the suspect sample location. The four step-out locations will be located approximately 5 feet to the north, south, east, and west of the suspect sample location. The dimensions of the area of evaluation can be adjusted to a larger dimension vertically and horizontally based on the size of the impacted area. Each sample will be collected as a relatively undisturbed sample using a stainless steel tube and observed for evidence of odors and staining and screened for VOCs using a PID. If any of the in-situ soil samples show evidence of odors and staining or VOCs are detected above 10 parts per million by volume (ppmv) then environmental sample(s) will be retained for analyses.

- **Stockpiled Soil Samples.** If previously unidentified suspect soil is stockpiled on-Site, discrete samples will be obtained for off-Site disposal using stainless steel tubes at a frequency and for analytes specified by the disposal facility. For re-use at the Site soil samples will be collected at a frequency and for analysis as specified in the Department of Toxic Substances Control (DTSC) *Information Advisory – Clean Imported Fill Material* (2001). .

- **Laboratory Analysis.** Following soil sample collection, the containers will be labeled for identification and immediately placed in a chilled, thermally insulated cooler containing ice. The cooler containing the samples will then be delivered under chain-of-custody protocol to a state-certified laboratory. Any sample compositing will be performed at the laboratory. Laboratory analysis will be performed in accordance with requirements set forth by the disposal facility. For consideration for re-use of the soil at the Site, the following laboratory analysis:
    - TPH-G using EPA Method 5030B in conjunction with modified EPA Method 8015B.
    - TPH-D and TPH-MO using EPA Method 3550 in conjunction with modified EPA Method 8015B.
    - VOCs (including MTBE, benzene, toluene, ethylbenzene, and xylenes (MBTEX), and fuel oxygenates and lead scavengers, and naphthalene) using EPA Method 8260B.
    - SVOCs (including PAHs) using EPA Method 8270C.
    - Organochlorine Pesticides by EPA Method 8081.
    - PCBs by EPA Method 8082.
    - CAM 17 metals using EPA Method 6020.
    - If necessary, extractable metals tests (i.e., leaching test including waste extraction test [WET] and/or toxicity characteristic leaching procedure [TCLP] procedures) will be conducted on the samples with elevated total metals concentrations to establish if the soils are hazardous based on their leaching characteristics.

After the evaluation is complete, the Environmental Consultant will provide the Owner, General Contractor and the ACDEH with conclusions regarding potential risks of the suspect material to human health and the environment as well as recommendations for proper management of the affected soil. All soil removal and soil re-use work will be approved by the ACDEH prior to implementation. If VOC-affected soil is encountered, notification will be provided to BAAQMD as required in the guidelines and notification requirements set by Regulation 8, Rule 40 of the BAAQMD Rules and Regulations for aeration of contaminated soil.

6.4 Reuse of Concrete & Soil Importation

Reuse of crushed concrete or use of imported fill material will be characterized and approved by ACDEH prior to being placed at the Site in accordance with the DTSC *Information Advisory – Clean Imported Fill Material* (2001) and the New Jersey Department of Environmental Protection *Guidance for Characterization of Concrete and Clean Material Certification for Recycling* (updated January 12, 2010). Discrete samples will be collected from the import source for characterization and specific laboratory analyses will be based on the fill source characteristics. The analytical results of the import soil samples will be compared to applicable screening criteria to evaluate whether the material is suitable for import to the Site.

7.0 CONTINGENCY MEAUSURES FOR DISCOVERY OF UNEXPECTED UNDERGROUND STRUCTURES

If any previously unidentified or unknown underground structures including tanks, vaults, sumps, containment structures, separators, or piping that has previously contained or has the potential to contain hazardous materials is encountered during Site grading activities, the contractor will provide notification to the general contractor or owner so that the general contractor, owner, or Environmental Consultant can provide notification to the ACDEH and CUPA within 24-hours of the discovery and consulted on appropriate next steps. USTs may be identified during grading and Site excavation activities by the presence of vent pipes that extend above the ground surface, product distribution piping that leads to the UST, fill pipes, backfill materials, or the underground structure itself. Other buried structures may not have features that extend above ground surface, and could be discovered only after contact with construction equipment.

The removal or burying of any of these structures without prior acknowledgement and approval form ACDEH is prohibited. Discovered structures will be assessed as follows:

- The structure will be inspected to assess whether it contains any indication of chemical residuals or free-phase liquids other than water. This assessment will be conducted by the Environmental Consultant, and will be based on visual evidence and the results of vapor monitoring using a PID. Under no circumstances will any personnel enter an unknown subsurface structure at any time. If chemicals are not indicated within the structure by the above-referenced means and with ACDEH approval the structure may be removed or abandoned in place in a safe manner by the contractor;

- If liquids or solids are present within the structure, measures will be taken to contain the liquids to avoid spills to the subsurface. Samples will be collected and submitted to a California-certified laboratory for analysis. Liquids or solids may be temporarily drummed, or liquids may be collected by vacuum truck, while analysis is pending. Based on analytical results, the liquids or solids will be disposed of under the direction of the Environmental Consultant in accordance with all applicable environmental laws and disposal requirements;

- If contaminated liquid or solids are present in the structure, the structure will be inspected for physical integrity following removal of the contaminated media. The Environmental Consultant will document the results of this inspection, including an estimation of the volume and former use of the structure.

- If the physical inspection of the structure suggests that chemicals may have been released to the underlying soils additional environmental investigations of the underlying soils will be conducted to assess whether a release sufficient to warrant removal has occurred.

- If, based on the opinion of the Environmental Consultant and ACDEH, it is assessed that the structure is intact, that subsurface releases of the chemicals to the underlying soils likely did not occur, and no free-phase liquids or chemical residues remain inside, removal of the structure may not be required for environmental reasons.

- Otherwise, with ACDEH approval, the structure will be excavated and disposed of at the direction of the Environmental Professional. Once the structure is removed, soils adjacent to and beneath the structure will be assessed for contamination through visual observation and organic vapor analysis and the results documented. If soils are determined to be "contaminated" with VOCs in the context of BAAQMD Rule 8-40, the appropriate response will be determined in consultation with ACDEH.

ACDEH may require further response actions based on the discovery of hazardous materials that pose an unreasonable risk to human health and safety or the environment.

8.0 GROUNDWATER MANAGEMENT

Groundwater at the Site is typically encountered at depths 9 to 10 feet bgs. As the excavation is at most approximately 6 feet (for elevator pits), construction dewatering is not anticipated. If dewatering of an excavation will be necessary during construction activities, a wastewater discharge permit will be obtained from the East Bay Municipal Utility District (EBMUD) for discharging water encountered during construction activities to the sanitary sewer system. Alternatively, water removed from the ground will be containerized and evaluated for alternate disposal methods that will be approved by the ACDEH prior to implementation.

If dewatering effluent is to be discharged to the storm drain, a National Pollutant Discharge Elimination System (NPDES) permit from the Regional Water Quality Control Board. Permits will be obtained from the City of Oakland Public Works Department and/or the East Bay Municipal Utility District (EBMUD) if dewatering effluent is discharged to the City of Oakland sanitary sewer system.

Chemical testing will be performed in accordance with the receiving facility's requirements prior to discharge. If concentrations exceed the limits established for the discharge point, the dewatering effluent will either will be (1) transported off-Site for disposal at a licensed disposal facility or (2) treated and discharged following sampling and analysis to confirm the success of treatment.

9.0 WASTE MANAGEMENT

9.1 Soil Characterization Prior to Off-Site Disposal

Soil that has been pre-characterized by in-situ soil testing and is intended for off-Site disposal can be loaded directly into trucks for transport to the receiving facility once the appropriate off-Site disposal location acceptance approval has been provided. Some soil may need to be placed in temporary on-Site stockpiles because: (1) they require further characterization prior to off-Site disposal; (2) short-term storage is necessary until haul trucks are available to transport the soil off-Site for disposal; or (3) the need for processing or sorting prior to landfilling. If soil is not adequately characterized to directly load and haul then it may be necessary to stockpile and sample. Stockpiled soil will be characterized as required by the receiving facility.

Soil considered for re-use at the Site will be tested in accordance with methods described in section 6.3.3 of this SGMP. In the event very elevated data are found in a four-point composite sample, the Environmental Consultant may elect, in consultation with the Owner, to have the four individual subsamples analyzed for that specific compound in an attempt to isolate the soils containing the highest concentrations for disposal evaluation.

9.2 Soil Stockpile Management

Soil that is placed in temporary stockpiles will be well maintained at all times to prevent run-on/runoff and fugitive dust emissions. All stockpiled soil will be placed on impermeable plastic sheeting (minimum 6-mil-thick) with a berm around the perimeter of the stockpile. The plastic sheeting and berm will prevent the runoff of soil and potential contaminants to surrounding areas. The berm will be constructed with hay bales, dimensional lumber, or other equivalent methods. The bottom plastic sheeting will be lapped over the berm materials, and the soil stockpile will be covered with plastic sheeting to prevent erosion or leaching of contaminants to underlying soil and prevent exposure to precipitation and wind. Plastic sheeting that covers the soil stockpile will be secured using sand bags or equivalent. Following removal, the soil stockpile area will be restored to a pre-stockpile condition. Residual plastic or debris will also be disposed of following stockpile removal.

9.3 Decontamination Procedures

In order to prevent residual contamination from leaving the Site by construction equipment and personnel during remedial excavation activities, the following decontamination procedures will be followed:

- Prior to loading excavated materials into trucks, plastic sheeting will be placed on the ground such that any spilled material will be prevented from contacting the ground surface. Upon completion of loading, any debris will be placed in the transportation vessel and the plastic sheeting will be reused, or disposed of.

- To minimize the spread of contaminated soil, equipment will be cleaned prior to movement out of active work zones. The equipment wheels/tires will be cleaned over plastic sheeting by means of shovels and stiff-bristled brooms or brushes or by power washing until they are fully cleaned. Upon completion of cleaning, any debris will be placed in the appropriate transportation vessel, fluids will be containerized, and the plastic sheeting will be folded and disposed of. The rinsate water will be distributed over contaminated soil (to be exported) for dust control purposes. Equipment exiting the Site will be inspected and logged for compliance with the Site decontamination requirements.

- Personal protective equipment, such as disposable coveralls, will be removed and discarded in the contamination reduction zone. In order to decontaminate reusable items such as work boots, a two-stage decontamination process will be used. This process will include washing in a detergent solution with a stiff-bristled brush and rinsing in clean water. The rinsate water will be distributed over contaminated soil (to be exported) for dust control purposes.

9.4 Off-Site Soil Disposal & Transportation Plan

Following acceptance of the excavated soil at an appropriate-licensed disposal facility, the soil will be loaded in licensed haul trucks (such as end-dumps or transfers) and transported off the Site following appropriate California and Federal waste manifesting procedures. The appropriate waste manifest documentation will be provided to truck drivers hauling the affected soil off-Site.

Transportation equipment will be chosen to safely transport the expected volumes of soil, taking into consideration the types of roads to be traveled and their loading capacity. Routine truck maintenance and repairs will be performed at the contractor's premises prior to picking up loads of waste material from the Site.

As each truck is filled, an inspection will be made to verify that the waste soil is securely covered, to the extent practicable, and that the tires of the haul trucks are reasonably free of accumulated soil prior to leaving the Site. During loading, dust and odor emissions will be monitored and mitigated as necessary. During transportation, the hauling trucks will be equipped to fully cover all soil and debris, such as with a heavy tarpaulin. A street sweeper will be made available, as needed, to keep the loading area clean. The soil will be wetted, as necessary, to reduce the potential for dust generation during loading and transportation activities.

A detailed log of the loads hauled from the Site will be maintained. The log will include, at a minimum, the date and the time trucks were loaded and off-loaded, the destination, size (volume and weight) of the load, description of contents, name and signature of the hauler, and name and signature of the contractor's representative. The waste will be off-loaded for treatment or disposal in a manner consistent with current Federal, State, and local regulations. Shipments of hazardous waste will be tracked with the appropriate hazardous waste manifests.

9.4.1 Off-Site Disposal Facilities

If soil is classified as hazardous waste by State and Federal standards, it will be disposed of at a licensed and approved hazardous waste disposal facility.

If soil is classified as non-hazardous waste by State and Federal standards, it will likely be disposed of at a Class II licensed landfill facility such as:

- Waste Management's Altamont Landfill in Livermore, California;
- Republic Services' Vasco Road Landfill in Livermore or Keller Canyon Landfill in Pittsburg, California;
- Waste Connections' Potrero Hills Landfill in Suisun City, California: or
- Republic Services' Forward Landfill in Manteca, California.

9.4.2 Transportation Plan

All transportation activities will be performed in strict compliance with all regulations and ordinances. Hauling contractor(s) used to transport non-hazardous or hazardous waste will be fully licensed and permitted by the State of California. For hazardous waste haulers, the selected transportation company will be certified by the State of California as a hazardous waste hauler, and appropriately permitted to haul contaminated waste material. All Department of Transportation (DOT) and California Highway Patrol (CHP) safety regulations will be strictly followed by both hazardous and non-hazardous waste haulers.

Transportation routes will be developed to minimize transporting the affected soil through residential areas. The affected soil will be transported via surface streets to the closest suitable freeway, which is Interstate 880. The proposed routes for transportation to and on Interstate 880 will be established upon selection of the appropriate landfill(s).

9.5 Wastewater and Groundwater Management Protocols

Wastewater generated during Site redevelopment, such as decontamination liquids, will be temporarily stored on-Site. Decontamination water will be profiled and transported to an appropriate disposal or recycling facility, or will be distributed over contaminated soil (to be exported) for dust control purposes.

If a saturated zone is encountered during earthwork activities that produces accumulated water, the water will be temporarily containerized on-Site.. Holding tanks will be staged on the existing hardscape (i.e. concrete or asphalt) where feasible.

Collected wastewater and groundwater will be transferred into a vacuum truck, pumper truck, totes, 55-gallon steel drums, or other appropriate vessel for off-Site transportation and disposal.

9.6 Spill Response Plan

In the event of a spill, the Contractor will be responsible and prepared to respond in a safe and efficient manner, specific to the particular spill situation. Standards will be set and consistent procedures will be used for handling of spills, whether they are on-Site spills or spills occurring during transportation. Haulers will have an Emergency Spill Contingency Plan (ESCP) to ensure that all drivers and dispatchers know their responsibilities in the unlikely event that an accidental spill occurs while transporting contaminated material off-Site. The drivers and dispatchers will be required to know the procedures for emergency spill response. The ESCP will meet or exceed all Federal, State, and County regulations currently in effect. The provisions of the ESCP will be strictly adhered to, in order to ensure continued protection of the public safety and the environment. The HASP will address the handling of on-Site spills.

10.0 Dust and Odor Emissions

During excavation activities, depending on soil and weather conditions, there is potential to generate airborne dust and fugitive emissions. Standard dust and fugitive emissions control measures will be followed during the ground disturbing activities to comply with OSHA and BAAQMD rules and accomplish the following goals:

- Reduce the potential for health impacts to workers;
- Reduce the potential for health impacts to facility neighbors;
- Prevent violations of ambient air quality standards;
- Minimize nuisance dust complaints from facility neighbors; and
- Minimize the migration of contaminants adhered to fugitive dust particles outside the Site.

10.1 Erosion, Dust, and Odor Control Measures

Once the pre-construction ground surface is stripped from the Site, the exposed soil will become susceptible to erosion by wind and water. Therefore, erosion control measures and dust control measures will be in place before construction begins. Emission (dust) control measures will at a minimum comply with those established by OSHA and the BAAQMD for construction-related activities. Dust control measures will be based on "Best Management Practices" and will be used throughout all phases of construction.

10.1.1 Construction Mitigation Measures

The following basic construction mitigation measures will be implemented in accordance with recommendations for all proposed projects in the BAAQMD California Environmental Quality Act Air Quality Guidelines (BAAQMD, 2017):

- All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) will be watered two times per day;
- All haul trucks transporting soil, sand, or other loose material off-Site will be covered;
- All visible mud or dirt track-out onto adjacent public roads will be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited;
- All vehicle speeds on unpaved roads will be limited to 15 miles per hour (mph);
- All roadways, driveways, and sidewalks to be paved will be completed as soon as possible. Building pads will be laid as soon as possible after grading unless seeding or soil binders are used;
- Idling times will be minimized either by shutting equipment off when not in use or by reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure CCR Title 13, Section 2485). Clear signage will be provided for construction workers at all access points;
- All construction equipment will be maintained and properly tuned in accordance with manufacturer‘s specifications. All equipment will be checked by a certified mechanic and determined to be running in proper condition prior to operation; and
- A publicly visible sign with the telephone number and person to contact at the Lead Agency regarding dust complaints will be posted. This person will respond and take corrective action within 48 hours. The BAAQMD’s phone number will also be visible to ensure compliance with applicable regulations.

Dust level monitoring of air will be conducted to evaluate the potential exposure to Site personnel and to off-Site downwind receptors. The presence of airborne dust will be evaluated through the use of real time personal sampling equipment and perimeter air sampling. If the difference between the upwind and downwind dust monitoring levels exceeds 50 micrograms per cubic meter ($\mu g/m^3$), additional dust control methods (i.e., applying additional water to disturbed areas) will be implemented.

10.1.2 Dust Suppression Measures

If dust is excessive, some or all of the following mitigation procedures may be implemented:

- Active areas adjacent to residences may need to be kept damp at all times.
- Apply water or (non-toxic) soil stabilizers to unpaved access roads, parking areas, and staging areas.
- Sweep (with water sweepers) paved access roads, parking areas, and staging areas.
- Cover or otherwise stabilize exposed soil stockpiles.
- Suspend construction activities that cause visible dust plumes and odors to extend beyond the limits of the Site.

10.1.3 Odor and Vapor Suppression Measures

By controlling the dust as described above, the emission of odor and vapors will be reduced to levels that likely will not pose a risk to the health of the public and Site workers. The water spray used to control dust will also significantly reduce the emissions of any potential volatiles that may be present in the soil. The selective loading and transportation of impacted soils could minimize the use of soil stockpiling, further reducing potential emissions of volatiles. Any active stockpile of contaminated soil or exposed excavation left overnight at the Site will be properly covered with plastic so emissions of volatiles will be minimized.

If odor is excessive and vapor emissions are detected, some or all of the following mitigation procedures may be implemented:

- Use of chemical suppressants mixed with water and applied using various applications such as spray or mist;
- Use of plastic sheeting to cover the sidewalls of open excavations during non-active remedial activities will minimize the migration of VOCs and odors;
- Alternative work sequencing, such that excavation of soil with potential odor during mid- day or afternoon (during hot weather) is avoided;
- Any highly odorous soil could be segregated and placed inside a roll-off bin equipped with a lid. This will minimize the amount of highly odorous soil during loading; and
- Balancing the excavation with transportation so that the need for large stockpiles is reduced.

Other emissions include exhaust from remediation equipment. The equipment proposed for the Site redevelopment will be maintained properly so that exhaust emissions will be within acceptable standards.

10.2 Air Monitoring

To the extent feasible, the presence of airborne contaminants will be evaluated through the use of portable monitoring equipment. Information gathered will be used to ensure the adequacy of the levels of protection being employed at the Site, and may be used as the basis for upgrading or downgrading levels of personal protection, at the discretion of the Site Safety Officer. In addition, this sampling equipment will be utilized to monitor the potential for the migration of contaminants off-Site (i.e. fence line monitoring). Such monitoring will incorporate off-Site receptor type, wind direction, work tasks being performed, etc.

The following air sampling equipment will be utilized for Site monitoring:

- Personal sampling pumps with appropriate sample collection media; and
- Dust monitors.

The above instruments will serve as the primary instruments for personal exposure monitoring. They will be utilized to fully characterize potential employee exposure and the need for equipment upgrades/downgrades.

10.2.1 Integrated Industrial Hygiene Sampling

Integrated Industrial Hygiene (IH) sampling for airborne contaminants and dust will be conducted during the excavation process and/or loading operation. This IH sampling will be performed to properly characterize potential employee exposures and/or to establish baseline levels. Sampling may include personnel monitoring and fence line sampling. The duration of such monitoring will be determined based upon analytical results, regulatory requirements, etc.

10.2.2 Real-Time Air Monitoring During Excavation of Contaminated Soil

Dust monitoring will also be conducted to characterize the potential for exposure to Site personnel during excavation of contaminated soil using a direct-reading dust monitor. Continuous monitoring will also be performed during operations that have not previously been characterized. After initial Site screening, monitoring will be conducted periodically or anytime Site conditions might be altered (i.e. weather, drilling, excavation, spills, etc.).

Results of monitoring information will be recorded, and will include time, date, location operations, and any other conditions that may contribute to potential exposures. Maintenance and calibration information will be maintained and made available upon request. The monitoring equipment will be calibrated in accordance with the manufacturer's specifications, and the records of such maintained with the project HASP.

Real-time air monitoring for respirable dust will be performed during the first three days of excavation of contaminated soil. The objective of the perimeter air-monitoring program is to protect the health and safety of the nearby community and to document the effectiveness of the dust control measures.

The Site Health and Safety Officer will determine the air monitoring locations based on Site operations and the location of areas that could be adversely impacted by air emissions. In general, real-time monitoring will be conducted downwind and around the perimeter of relevant activities. Monitoring locations will be documented on a monitoring log, along with any concentrations detected.

The dust standard will be based on the PM10 ambient air quality standards adopted by BAAQMD, which specifies a ceiling level of no more than 50 micrograms per cubic meter ($\mu g/m^3$) difference between upwind and downwind sampling locations. The ceiling level of 50 $\mu g/m^3$ represents the Bay Area 24-hour time-weighted average standard for 10 micron diameter particulate matter (the PM10 24-hour standard).

The perimeter of the work area will be monitored while excavation of contaminated soil is being conducted. If any readings exceed action levels, work will be stopped, engineering controls will be implemented and the work and monitoring schedule will be adjusted until background level concentrations are achieved.

Real-time dust monitors will be used to measure mass concentrations of airborne dust and provide respirable dust, expressed as concentration of particulates smaller than 10 microns (PM10) correlated measurements. A handheld respirable air monitor (mini-RAM) will be used to provide real-time data on total dust levels as PM10. Real-time worker dust monitoring will be performed continuously during work activities where soil disturbance is anticipated, downwind of active excavations. Measurements of real-time and time-weighted averages (TWA) of airborne particulate concentrations will be recorded using a Monitoring Instruments for the Environment, Inc. (MIE) RAM, model PDR-1000 (miniRAM) or equivalent equipment. The miniRAM measures the concentration of airborne particulate matter using a high sensitivity nephelometer (photometer) using a light scatter sensor. The sensitivity of the miniRAM is reported to range from 0.001 milligrams per cubic meter (mg/m3) to 400 mg/m3. The miniRAM will be calibrated daily in the supplied calibration pouch.

Real-time monitoring will consist of the following activities:

- Determine the predominant wind direction;
- Place one instrument upwind of Site operations for ambient sampling;
- Place one or more instrument(s) downwind of Site operations, at the Site Perimeter;
- Position the instrument probe near the normal breathing zone and monitor for approximately five minutes after instrument readings have stabilized; and

- Record the following observations and readings in real-time:
    - Location;
    - Time;
    - Site activity;
    - Readings;
    - Visual observations of dust;
    - Site conditions, including current weather conditions; and
    - Odors and/or other miscellaneous observations.

11.0 STORM WATER MANAGEMENT

Other environmental controls may be required in the event that anticipated conditions at the Site change. In the event that remediation activities occur during the rainy season, then water management procedures will be implemented in addition to probable modifications of other plans, such as the HASP. The following procedures will be implemented at the Site during the rainy season:

- The weather forecast will be monitored. During the days heavy rain is forecasted, remediation activities may be stopped;

- The boundary of the remediation area will be properly bermed to prevent storm water from entering or leaving the remediation area;

- Storm water entering the remediation area from non-impacted areas and storm water originating within the excavated area will be pumped to settlement tanks and treated prior to discharge under permit;

- The excavation will be conducted in small sections so that the exposed excavated area can be covered immediately if heavy rains occur;

- Procedures will be used to prevent wet soil from sticking to the tires of trucks used to haul soil off Site. These procedures may include plastic sheeting at the loading area, a tire wash at Site egress paths, and/or a stabilized gravel construction entrance; and

- Plastic sheeting will be used extensively to cover the area of excavation during non-working hours.

In general, the excavation will be kept as dry as possible in order to minimize the waste generated and the backfilling (as necessary) of the excavation. Storm water best management practices (BMPs) will be followed in accordance with the contractors Storm Water Pollution Prevention Plan (SWPPP) to be prepared for the Site. The BMPs for the Site development activities should include: use of fiber rolls; inlet protection; stabilized construction entrance; landscape and paving; street cleaning and catch basin cleaning.

FIGURES

Figure 1
Site Aerial Photograph
Phoenix Iron Works
800 Pine Street
Oakland, California

Basemap from: Northgate Environmental Management, Inc., Phase II Investigation Report, November 9, 2011, and Google Earth March 2017

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 50 100
Approximate Scale in Feet

N

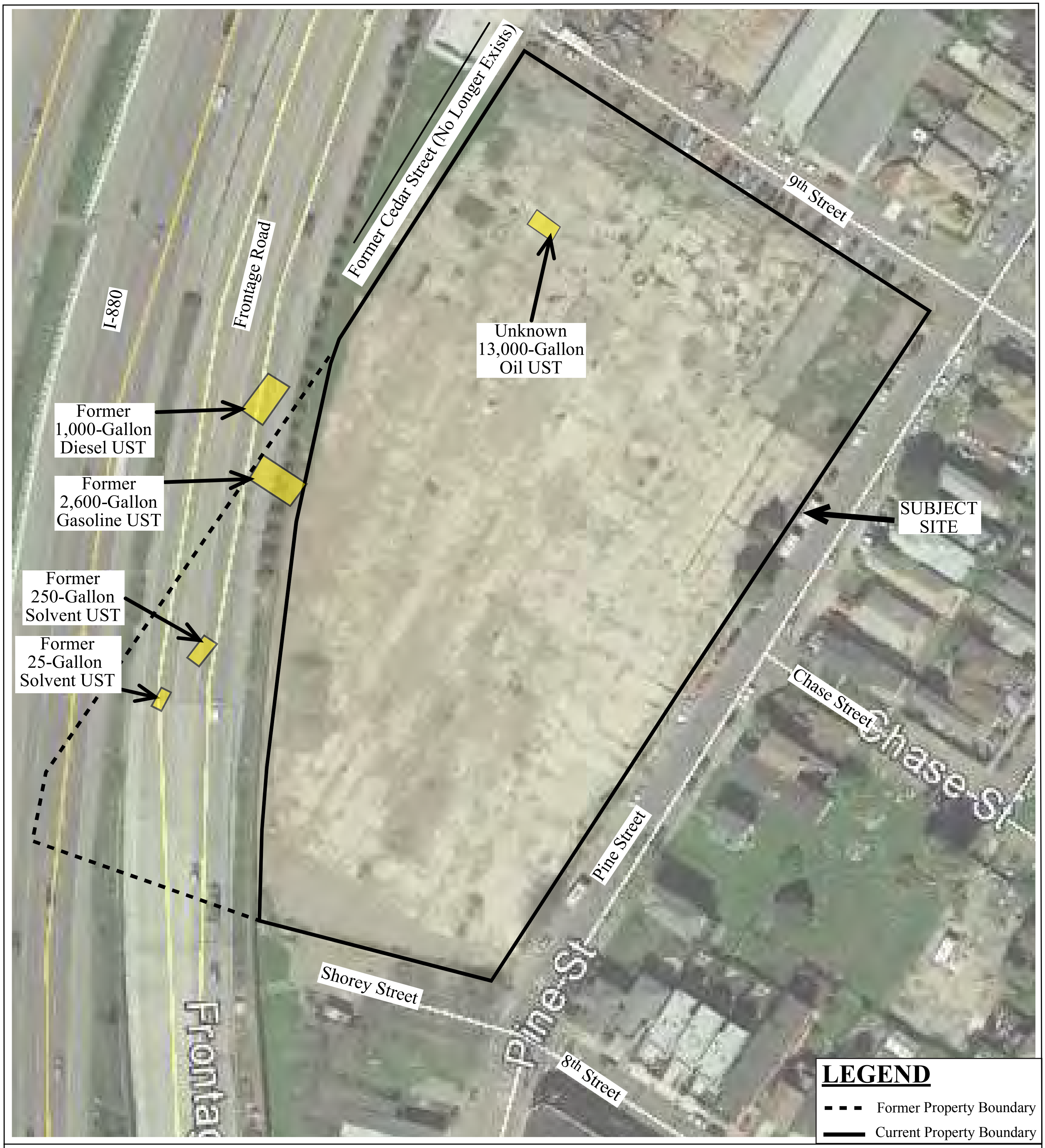

Figure 2
Site Aerial Photograph Showing Former UST Locations
Phoenix Iron Works
800 Pine Street
Oakland, California

Basemap from: Northgate Environmental Management, Inc., Phase II Investigation Report, November 9, 2011, and Google Earth March 2017

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 50 100
Approximate Scale in Feet

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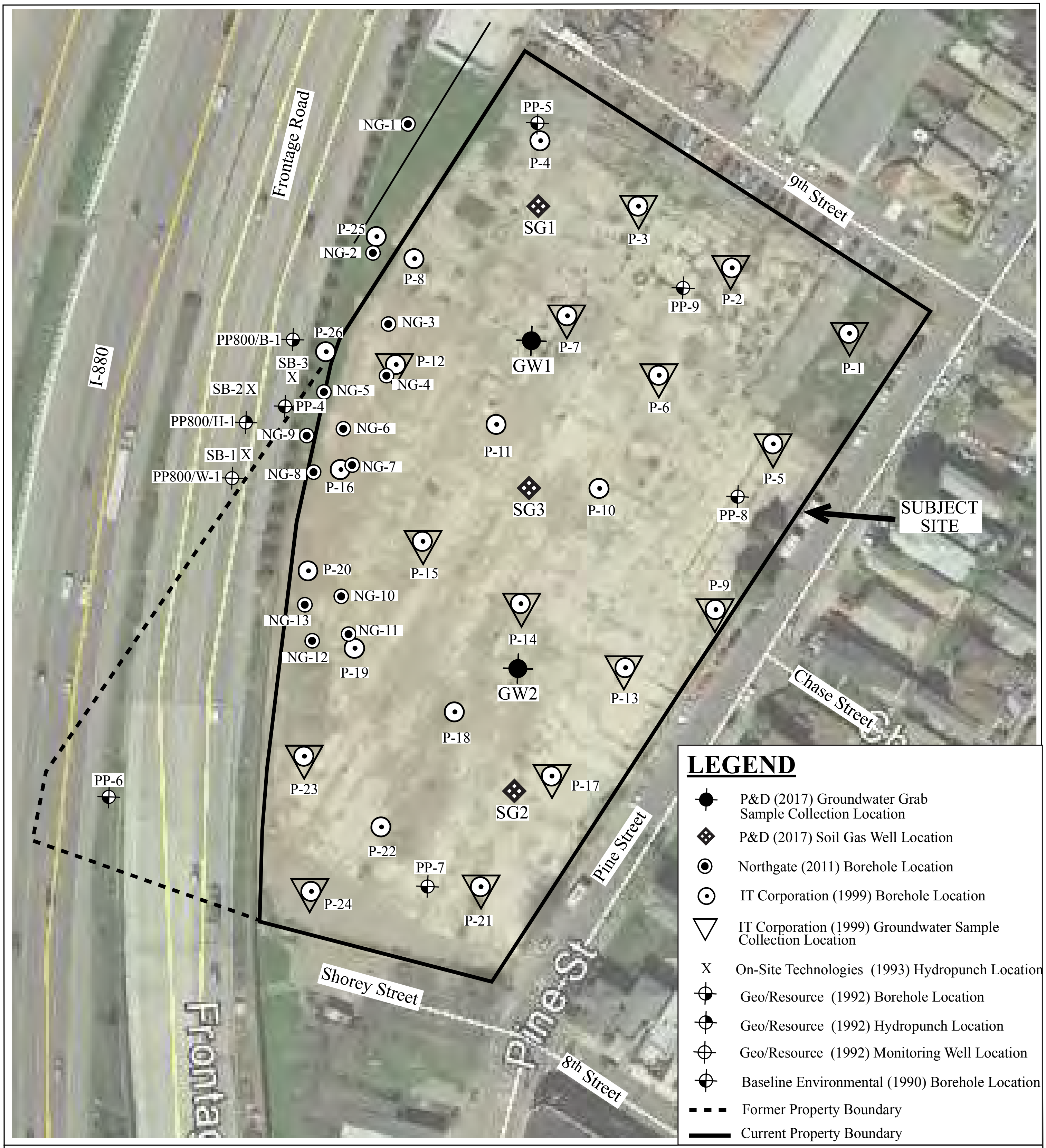

Figure 3
Site Aerial Photograph Showing Historical Sample Collection Locations
Phoenix Iron Works
800 Pine Street
Oakland, California

Basemap from: IT Corporation Site Investigation Report, Volume 1 of 2, March 8, 2000, Northgate Environmental Management, Inc., Phase II Investigation Report, November 9, 2011, and Google Earth March 2017	P&D Environmental, Inc. 55 Santa Clara Ave., Suite 240 Oakland, CA 94610	0 50 100 Approximate Scale in Feet N

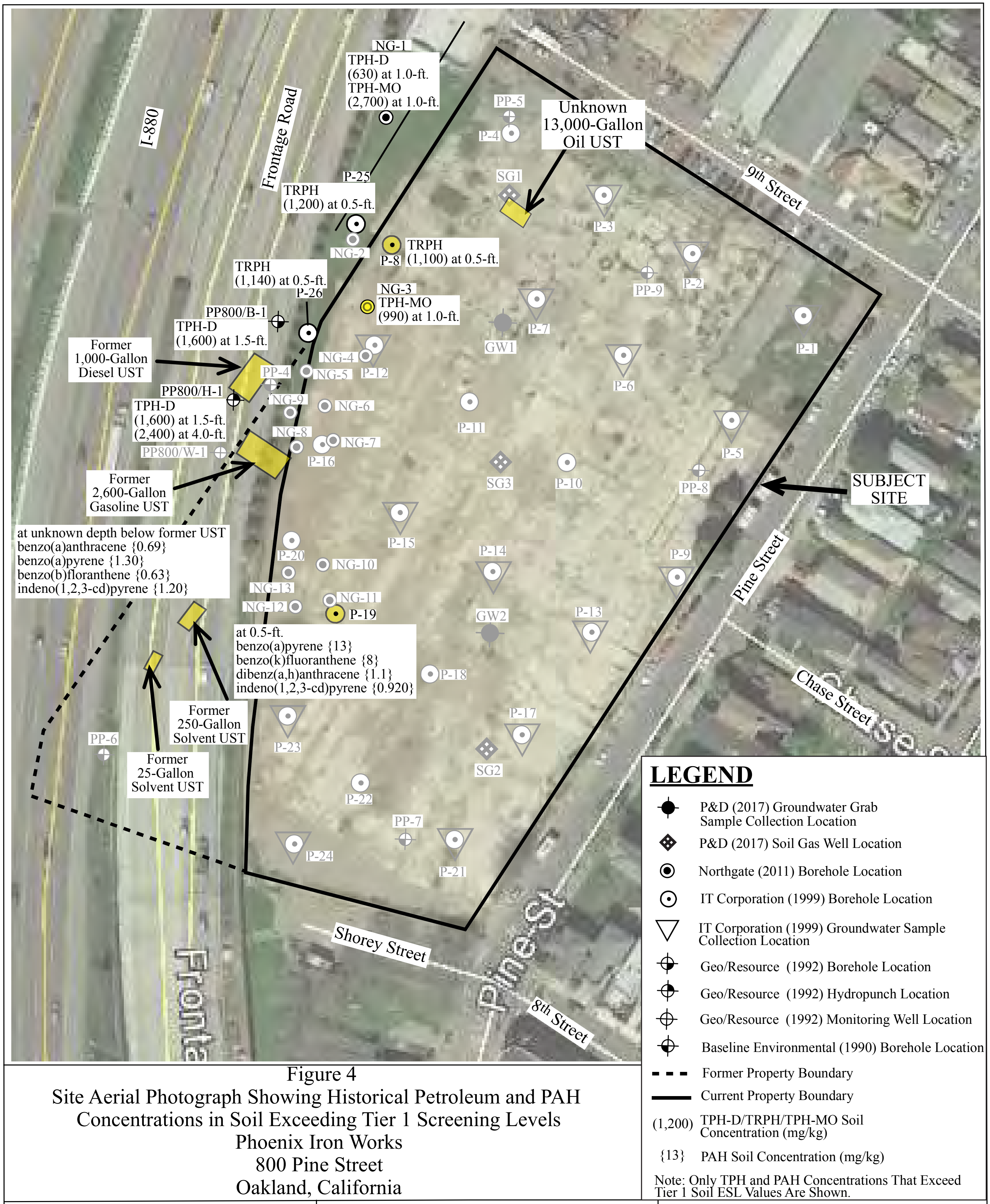

Figure 4
Site Aerial Photograph Showing Historical Petroleum and PAH Concentrations in Soil Exceeding Tier 1 Screening Levels
Phoenix Iron Works
800 Pine Street
Oakland, California

Basemap from: IT Corporation Site Investigation Report, Volume 1 of 2, March 8, 2000, Northgate Environmental Management, Inc., Phase II Investigation Report, November 9, 2011, and Google Earth March 2017

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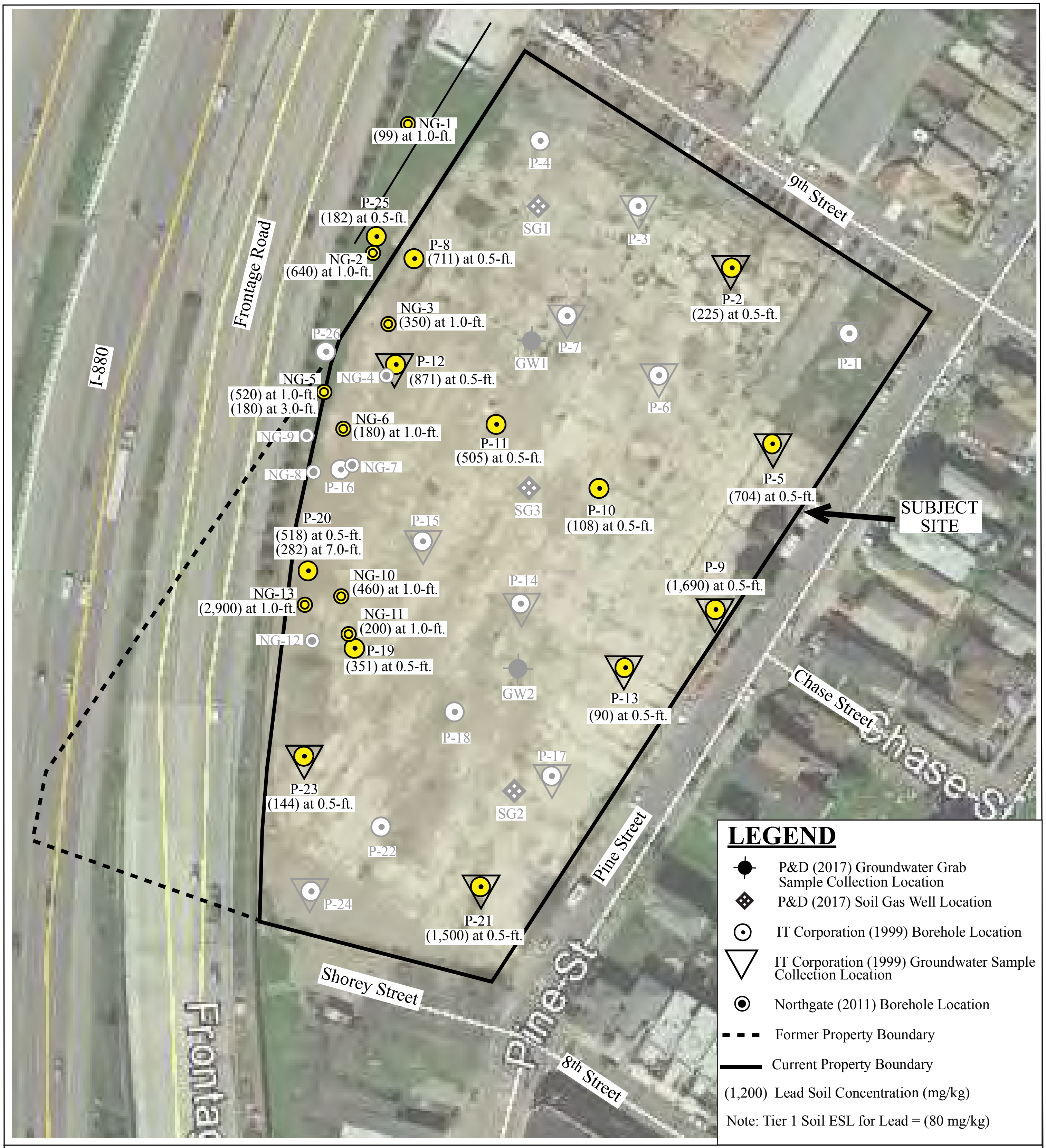

Figure 5
Site Aerial Photograph Showing Historical Lead Concentrations in Soil Exceeding Tier 1 Screening Levels
Phoenix Iron Works
800 Pine Street
Oakland, California

Basemap from: IT Corporation Site Investigation Report, Volume 1 of 2, March 8, 2000, Northgate Environmental Management, Inc., Phase II Investigation Report, November 9, 2011, and Google Earth March 2017

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 50 100
Approximate Scale in Feet

N

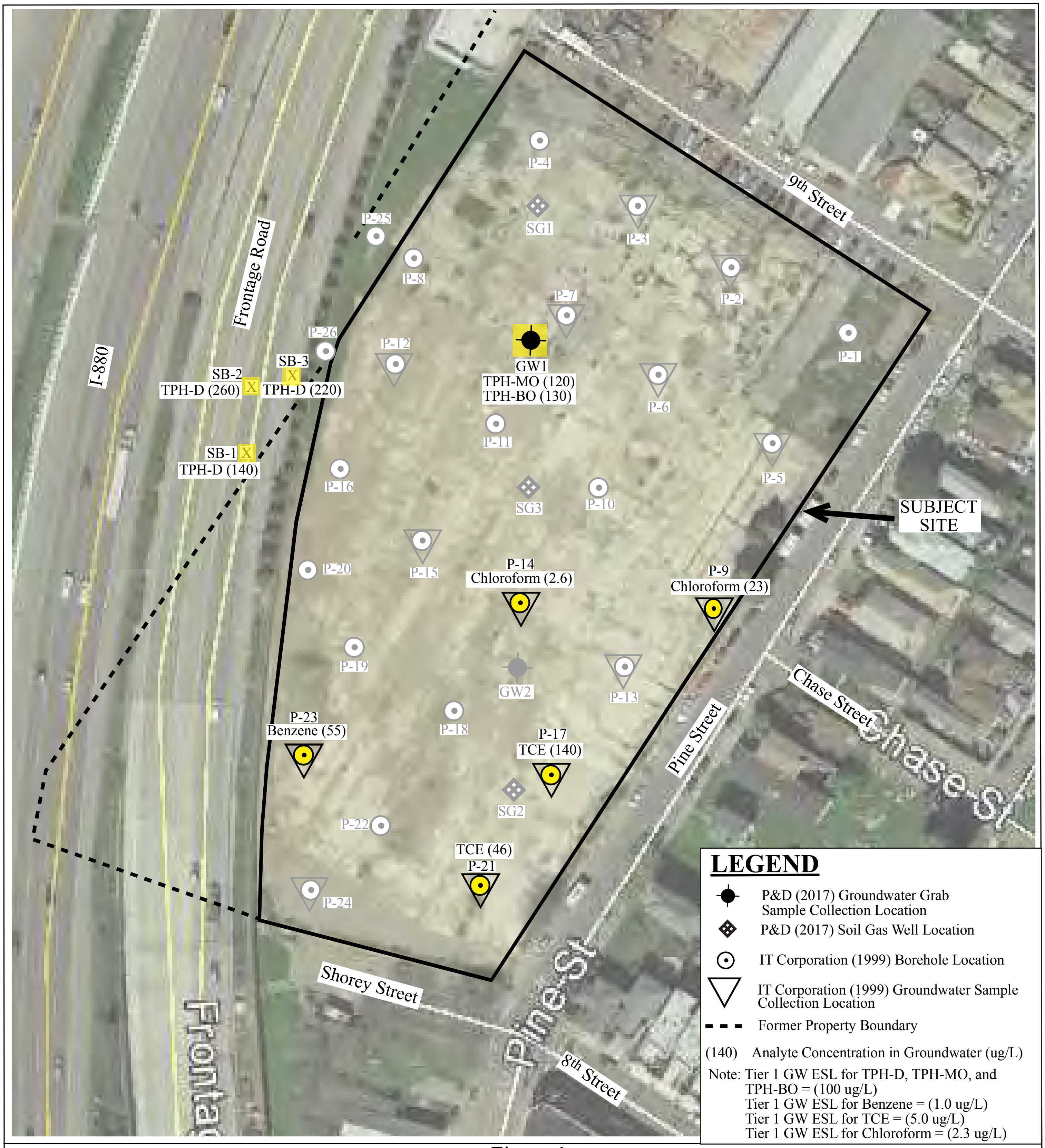

Figure 6
Site Aerial Photograph Showing Historical TPH and
VOC Concentrations in Groundwater Exceeding Tier 1 Screening Levels
Phoenix Iron Works
800 Pine Street
Oakland, California

Basemap from: IT Corporation Site Investigation Report, Volume 1 of 2, March 8, 2000, Northgate Environmental Management, Inc., Phase II Investigation Report, November 9, 2011, and Google Earth March 2017

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

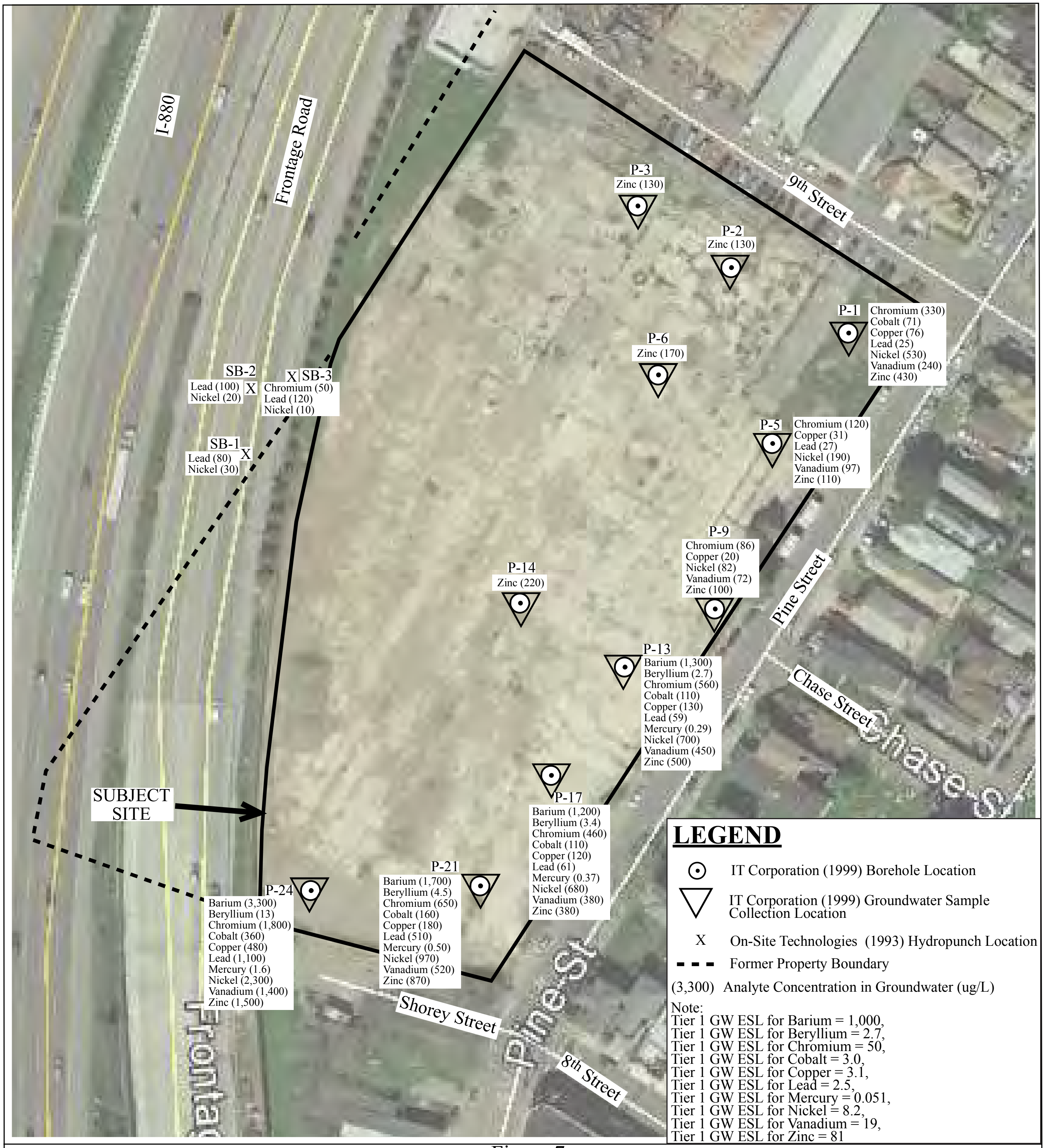

Figure 7
Site Aerial Photograph Showing Historical Metals Concentrations in Groundwater Exceeding
Tier 1 Screening Levels
Phoenix Iron Works
800 Pine Street
Oakland, California

Basemap from: IT Corporation Site Investigation Report, Volume 1 of 2, March 8, 2000, Northgate Environmental Management, Inc., Phase II Investigation Report, November 9, 2011, and Google Earth March 2017

P&D Environmental, Inc.
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Oakland, CA 94610

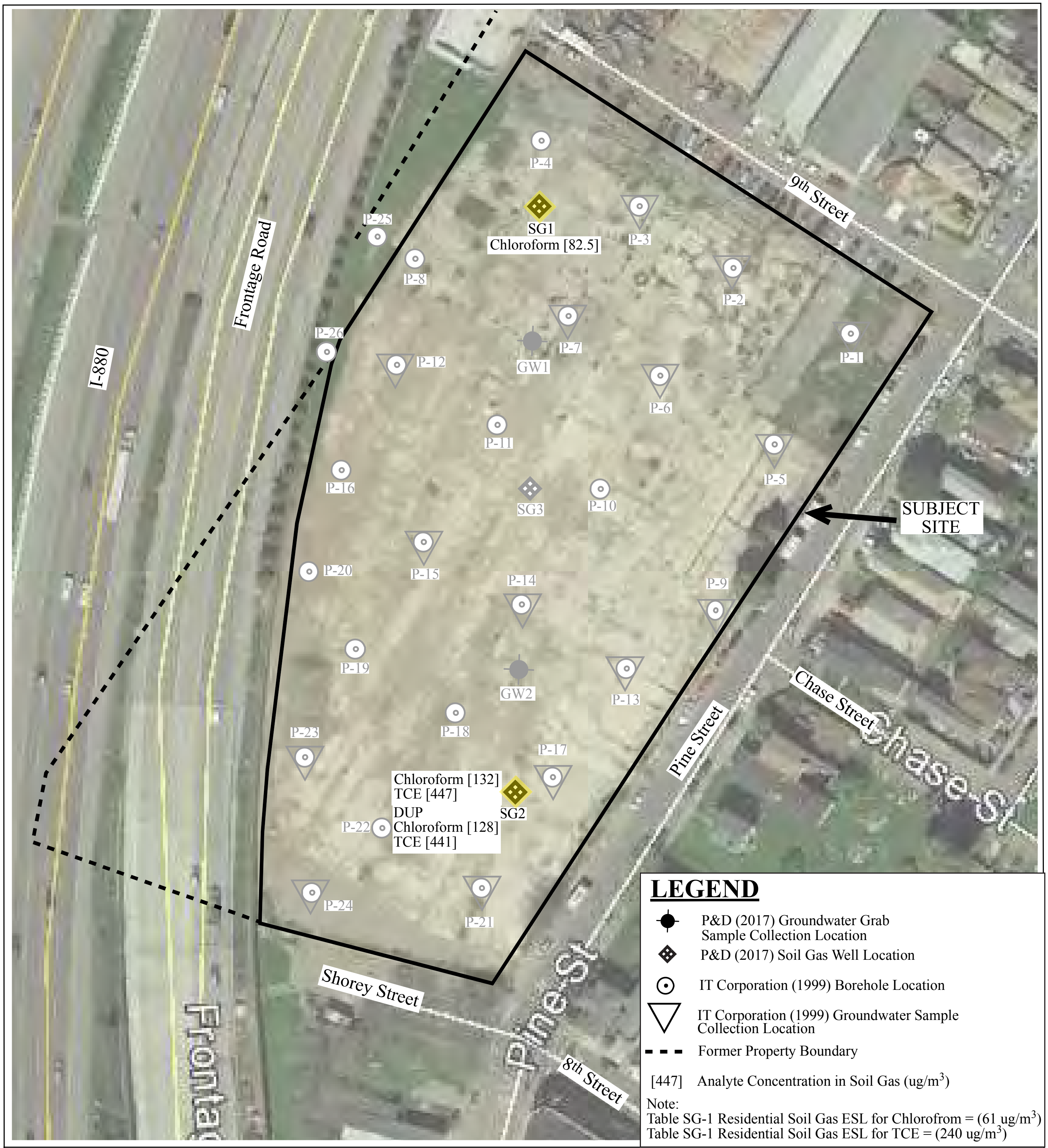


Figure 8
Site Aerial Photograph Showing Historical VOC Concentrations in Soil Gas Exceeding Tier 1 Screening Levels
Phoenix Iron Works
800 Pine Street
Oakland, California

Basemap from: IT Corporation Site Investigation Report, Volume 1 of 2, March 8, 2000, Northgate Environmental Management, Inc., Phase II Investigation Report, November 9, 2011, and Google Earth March 2017

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

APPENDIX A

Agreement and Acknowledgement Statement

APPENDIX A

AGREEMENT AND ACKNOWLEDGMENT STATEMENT

Multifamily Housing
800 Pine Street
Oakland, California

Soil Management Plan Agreement

All project personnel and subcontractors are required to sign the following agreement prior to conducting work at the site.

1. I have read and fully understand the plan and my individual responsibilities.
2. I agree to abide by the provisions of the plan.

Name	Signature
Company	Date
Name	Signature
Company	Date
Name	Signature
Company	Date
Name	Signature
Company	Date

(Add additional sheets if necessary)

APPENDIX B

Historical Site Investigation Sample Results Summary Tables and Figures Showing Sample Collection Locations

- **B1 - Tables 1 Through 3 and Figure 2 from Site Investigation Report - Area 4 Prepared by Geo/Resource Consultants, Inc. Dated August 1992**

- **B2 - Tables 5.3.1.c, 5.1.a, 5.1.c, and 5.1.d, and Figures 5.1 and 5.2.3 from Preliminary Endangerment Assessment - Volume 1 Prepared by On-Site Technologies, Inc. Dated November 1993**

- **B3 - Tables 2 Through 6 and Figures 2 Through 8 from Site Investigation Report Prepared by IT Corporation Dated March 8, 2000**

- **B4 - Table 1 Through 3 and Figures 2 Through 4 from Phase II Soil Investigation Report Prepared by Northgate Environmental Management, Inc. Dated November 9, 2011**

- **B5 - Table 1 Through 2B and Figure 2 from Limited Subsurface Investigation Report Prepared by P&D Environmental, Inc. Dated September 5, 2017**

B1-Tables 1 Through 3 and Figure 2 from Site Investigation Report - Area 4 Prepared by Geo/Resource Consultants, Inc. Dated August 1992 (4 pp)

TABLE 1
AREA 4

DOT - CYPRESS
SUMMARY OF ANALYTICAL RESULTS - SOIL
GENERAL

UNITS EPA No.	TRPH mg/kg 418.1	TPH-G mg/kg 8015m	TPH-D mg/kg 8015m
PHOENIX PROPERTIES, 524			
-Boring			
PP524/B-1-2	7	-	-
PP524/B-1-6	31	-	-
PP524/B-2-6	6	-	-
PP524/B-2-15	10	-	-
PP524/B-3-1.5	8	-	-
PP524/B-3-6	14	-	-
PP524/B-4-1.5	210(10)	-	-
PP524/B-4-6	1,200(150)	-	-
PP524/B-5-1.5	250	-	-
PP524/B-5-6	31	-	-
PHOENIX PROPERTIES, 800			
-Boring			
PP800/B-1-1.5	-	-	1,600
PP800/B-1-4	-	-	ND
PP800/B-1-7.5	-	-	ND
-Hydropunch			
PP800/H-1-1.5	-	10	1,600
PP800/H-1-4	-	17	2,400
PP800/H-1-7.5	-	ND	ND
-Well			
PP800/W-1-1.5	-	ND(25)	ND
PP800/W-1-6	-	ND	ND
PP800/W-1-8	-	ND	ND
Detection Limit	5.0	5.0	5

NOTES: ND = Not Detected at Detection Limit on Laboratory Data Sheets
- = Not analyzed
( ) = Detection Limit
TRPH = Total Recoverable Petroleum Hydrocarbons
TPH-G = Total Petroleum Hydrocarbons as Gasoline
TPH-D = Total Petroleum Hydrocarbons as Diesel
Laboratory Analyses performed by CKY

TABLE 2
AREA 4
DOT - CYPRESS
SUMMARY OF ANALYTICAL RESULTS - SOIL
METALS

	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CHROMIUM TOTAL	COBALT	COPPER	LEAD	MERCURY	MOLYBDENUM	NICKEL	SELENIUM	SILVER	THALLIUM	VANADIUM	ZINC
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EPD No.	6010	6010	6010	6010	6010	6010	6010	6010	6010	6010	6010	6010	6010	6010	6010	6010	6010
PHOENIX PROPERTIES, 524																	
-Boring																	
PP524/B-1-2	ND	ND	30	ND	2	27	3.3	5.7	9.5	ND	ND	14	ND	ND	ND	21	15
PP524/B-1-6	5.6	21	67	0.81	5.2	57	2.9	8.4	N25	0.09	ND	27	ND	ND	ND	47	21
PP524/B-2-1.5	6.5	ND	47	ND	2.1	28	4.5	8.5	13	ND	ND	15	ND	ND	ND	21	17
PP524/B-2-6	ND	12	68	0.64	4	44	7.4	14	17	ND	ND	40	ND	ND	ND	35	29
PP524/B-3-1.5	6	ND	51	0.51	2.8	29	4.9	11	18	ND	ND	18	ND	ND	ND	23	23
PP524/B-3-6	6.1	10	73	0.65	4.8	52	5.4	11	18	ND	0.70	42	ND	ND	16	41	31
PP524/B-4-1.5	7.9	19	160	0.55	9.7	120	7.3	120	1,100**	0.24	2.8	30	ND	ND	ND	32	500
PP524/B-4-6	55	22	970	0.55	30	150	11	250*	3,500**	0.66	5.6	57	ND	ND	ND	37	2,300
WET	-	-	-	-	-	-	-	1.3(0.01)mg/l	-	-	-	-	-	-	-	-	-
PP524/B-5-1.5	12	15	540	0.55	12	75	9	130	23,000**	1	1.7	40	ND	ND	ND	29	1,400
PP524/B-5-6	6	12	51	0.55	4.3	36	5.9	9.3	20	ND	ND	33	ND	ND	13	29	26
PHOENIX PROPERTIES, 766																	
-Boring																	
PP766/B-1-1	8.4	35	280	0.56	12	39	10	89	3,600**	0.33	1.1	30	ND	ND	ND	26	500
PP766/B-1-3	ND	ND	47	0.51	2.6	29	5.1	6.5	11	ND	0.80	18	ND	ND	ND	22	18
PP766/B-2-1	ND	ND	50	ND	2.5	30	4.9	6.4	12	ND	ND	15	ND	ND	16	22	16
PP766/B-2-3	5.8	ND	50	0.50	2.4	29	5.4	7	11	ND	ND	19	ND	ND	ND	21	17
PP766/B-3-1	5.3	10	150	0.5	2.6	29	5.5	24	160*	0.18	0.60	21	ND	ND	ND	23	160
WET	-	-	-	-	-	-	-	-	8(0.10)mg/l	-	-	-	-	-	-	-	-
PP766/B-3-3	ND	ND	46	ND	2.4	27	4.5	6.8	10	ND	ND	18	ND	ND	ND	22	16
PP766/B-4-1	ND	10	170	0.50	2.8	30	5.5	23	170*	0.28	0.80	19	ND	ND	ND	22	110
WET	-	-	-	-	-	-	-	-	13(0.10)mg/l	-	-	-	-	-	-	-	-
PP766/B-4-3	5.1	ND	45	ND	2.8	27	5.3	9.5	9	0.07	ND	16	ND	ND	11	22	18
PP766/B-5-1	ND	ND	200	0.55	4.9	28	5.1	30	390*	0.58	1.2	19	ND	ND	ND	27	170
WET	-	-	-	-	-	-	-	-	31(0.10)mg/l	-	-	-	-	-	-	-	-
PP766/B-5-3	ND	ND	72	ND	2.9	27	4.6	18	110*	0.07	0.60	17	ND	ND	ND	24	67
PP766/B-6-1	ND	ND	41	ND	2.3	28	4.9	9.9	24	0.07	0.50	16	ND	ND	11	22	25
PP766/B-6-3	ND	ND	57	ND	1.8	27	4	8.1	15	ND	0.70	17	ND	ND	10	21	20
TTLC(mg/kg)	500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
STLC(mg/L)	15	5.0	100	0.75	1.0	560	80	25	5.0	0.2	350	20	1.0	5	7.0	24	250
Detection Limit	5.0	10	2.5	0.50	0.50	0.50	1.0	0.50	5.0	0.05	0.50	2.5	10	0.50	10	1.0	0.50

NOTES: ND = Not Detected at Detection Limit on Laboratory Data Sheets
( ) = Detection Limit
- = Not Analyzed
TTLC = Total Threshold Lomit Concentration (mg/kg)
STLC = Soluble Threshold Limit Concentration (mg/l)
* = Concentration values 10x greater than STLC values, according to CCR Title 22
** = Concentration values greater than TTLC values, according to CCR Title 22
Laboratory Analyses performed by CKY

TABLE 3

AREA 4

DOT - CYPRESS

SUMMARY OF ANALYTICAL RESULTS - GROUNDWATER

	EPA No.	PP800/H-1	PP800/W-1	DETECTION LIMIT
TPH-G (mg/L)	8015m	ND	ND(1.0)	0.1
TPH-D (mg/L)	8015m	ND	ND	1.0

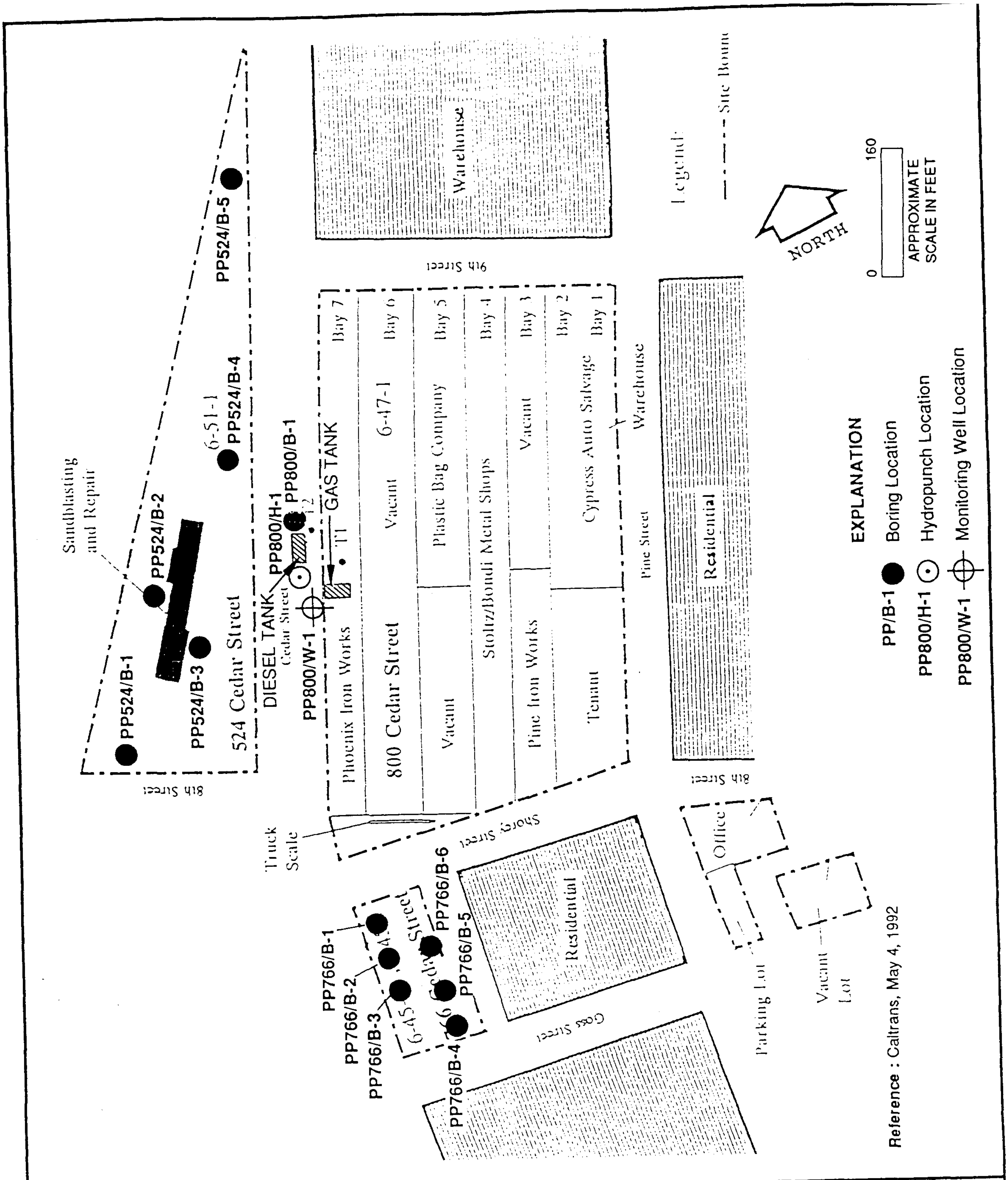
NOTES: ND = Not Detected at Detection Limit on Laboratory Data Sheets

- = Not analyzed

TPH-G = Total Petroleum Hydrocarbons as Gasoline

TPH-D = Total Petroleum Hydrocarbons as Diesel

Laboratory Analyses performed by CKY



Reference : Caltrans, May 4, 1992

Geo/ Resource Consultants, Inc.

GEOLOGISTS / ENGINEERS / ENVIRONMENTAL SCIENTISTS
505 BEACH STREET, SAN FRANCISCO, CALIFORNIA 94133

Job No. 1689-019-00 Appr. ________ Date 7/20/92

SITE PLAN - AREA 4
PHOENIX PROPERTIES - PARCEL No.17
D.O.T. - INTERSTATE 880
CYPRESS STRUCTURE RECONSTRUCTION
OAKLAND, CALIFORNIA

FIGURE
2

B2-Tables 5.1.a, 5.1.b, 5.1.c, 5.1.d, 5.3.1.c, and 5.3.1.d, and Figures 5.1 and 5.2.3 from Preliminary Endangerment Assessment - Volume 1 Prepared by On-Site Technologies, Inc. Dated November 1993 (8 pp)

TABLE 5.1.a

Preliminary Endangerment Assessment

Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

Soil Analytical Results - Organics
Baseline Environmental Consultant's - First Phase Site Investigation

Boring	Sample Depth	TPH-D	TPH-G	Benzene	Toluene	EthylBenzene	Total Xylenes
	(FBGS)	(mg/kg)	(mg/kg)	(μg/kg)	(μg/kg)	(μg/kg)	(μg/kg)
PP-4	4.5-5.0	ND	ND	ND	ND	ND	ND
PP-5	5.0-5.5	ND	ND	ND	ND	ND	ND
PP-6	5.0-5.5	ND	ND	ND	ND	ND	ND
PP-7	5.5-6.0	ND	ND	ND	ND	ND	ND
PP-9	4.5-5.0	ND	ND	ND	ND	ND	ND
REPORTING LIMIT		2.5	5.0	5.0	5.0	5.0	5.0

(FBGS)	Feet below ground surface
TPH-D	Total petroleum hydrocarbons as diesel
TPH-G	Total petroleum hydrocarbons as gasoline
mg/kg	milligrams/kilogram
μg/kg	micrograms/kilogram
ND	Not detected in excess of Reporting Limit

TABLE 5.1.b

Preliminary Endangerment Assessment
Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

Soil Analytical Results - Metals
Baseline Environmental Consultant's - First Phase Site Investigation

Boring	PP-5 2.0-2.5 FT	PP-6 2.0-2.5 FT	PP-7 2.0-2.5 FT	PP-8 2.0-2.5 FT	PP-9 1.5-2.0 FT	Report Limit
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/k
Analyte						
Antimony	1	1	ND	1	2	1
Arsenic	4	4	3	5	ND	3
Barium	47	59	46	45	49	4
Beryllium	0.2	0.3	0.2	0.2	0.2	0.1
Cadmium	ND	0.2	ND	ND	0.2	0.2
Total Chromium	30	34	28	31	31	6
Cobalt	3.8	4.8	4.0	3.7	4.4	0.5
Copper	6	10	6	7	7	1
Lead	14	52 (2.26)	10	13	13	3
Mercury	ND	ND	ND	ND	ND	0.2
Molybdenum	0.7	0.8	0.7	0.7	0.8	0.5
Nickel	18	19	15	14	18	2
Selenium	3	2	ND	3	4	2
Silver	ND	ND	ND	ND	ND	0.5
Thallium	8	8	7	8	3	2
Vanadium	19	21	17	21	20	4
Zinc	18	56	15	19	19	2

mg/kg	milligrams/kilogram
ND	Not detected in excess of Reporting Limit
(2.26)	Soluble concentration in mg/l

TABLE 5.1.c

Preliminary Endangerment Assessment

Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

Soil Analytical Results - 601/8010 & 8270
Baseline Environmental Consultant's - First Phase Site Investigation

Boring	**Sample Depth**	**EPA 601/8010**	**EPA 8270**
	(FBGS)	(ug/kg)	(mg/kg)
PP-5	5.0-5.5	ND	ND
PP-6	5.0-5.5	ND	ND
PP-7	5.5-6.0	ND	ND
PP-8	4.5-5.0	ND	ND
PP-9	4.5-5.0	ND	ND
REPORTING LIMIT		5.0	0.5

(FBGS)	Feet below ground surface
mg/kg	milligrams/kilogram
ug/kg	micrograms/kilogram
ND	Not detected in excess of Reporting Limit

TABLE 5.1.d

Preliminary Endangerment Assessment
Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

Soil and Ground Water Analytical Results - Organics
Geo/Resource Consultant's - First Phase Site Investigation

Boring	Sample Depth	TRPH	TPH-G	TPH-D
	(FBGS)	(mg/kg)	(mg/kg)	(mg/kg)
PP800/B-1	1.5	NA	NA	ND
	4.0	NA	ND	ND
	7.5	NA	ND	ND
PP800/H-1	1.5	NA	10	1,600
	4.0	NA	17	2,400
	7.5	NA	ND	ND
PP800/W-1	1.5	NA	ND	ND
	6.0	NA	ND	ND
	8.0	NA	ND	ND
PP800/W-1 (Ground Water Sample)			ND	ND
REPORTING LIMITS		5.0 (1.0)	5.0 (1.0)	5.0

(FBGS)	Feet below ground surface
TRPH	Total recoverable petroleum hydrocarbons
TPH-G	Total petroleum hydrocarbons as gasoline
TPH-D	Total petroleum hydrocarbons as diesel
mg/kg	milligrams/kilogram
NA	Not analyzed
ND	Not detected in excess of Reporting Limit
(1.0)	Reporting limit for ground water analyses

TABLE 5.3.1.c

Preliminary Endangerment Assessment

Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

Soil Analytical Results - Metals/Organics

ANALYTE		Cd	Cr	Pb	Ni	Zn	TPH-G	TPH-D	VOC	SV
CONCENTRATION		mg/kg							µg/kg	mg/
DETECTION LIMIT	**SAMPLE DEPTH**	0.05	0.50	0.50	0.50	0.50	1.0	1.0	VARIOUS	VARIO
SAMPLE ID										
SB1A	3.0	ND	24	2.7	18	14	ND	ND	ND	ND
SBIB	5.5							ND		
SBIC	7.0							ND		
SB1D	9.0							ND	ND	
SBIE	11.0							ND		
SB2A	3.5	ND	21	2.5	18	13	ND	ND	ND	ND
SB2B	5.5							ND		
SB2C	7.5							ND		
SB2D	9.5							ND	ND	
SB3A	3.0	ND	21	6.3	16	16	ND	ND	ND	ND
SB3B	5.5							ND		
SB3C	7.0							ND		
SB3D	9.5							ND	ND	

Cd	Cadmium
Cr	Total chromium
Pb	Lead
Ni	Nickel
Zn	Zinc
TPH-D	Total petroleum hydrocarbons as diesel
TPH-G	Total petroleum hydrocarbons as gasoline
mg/kg	Milligrams per kilogram
ND	Not detected in excess of detection limit
VOC	Volatile organic compounds
SVO	Semivolatile organic compounds

TABLE 5.3.1.d

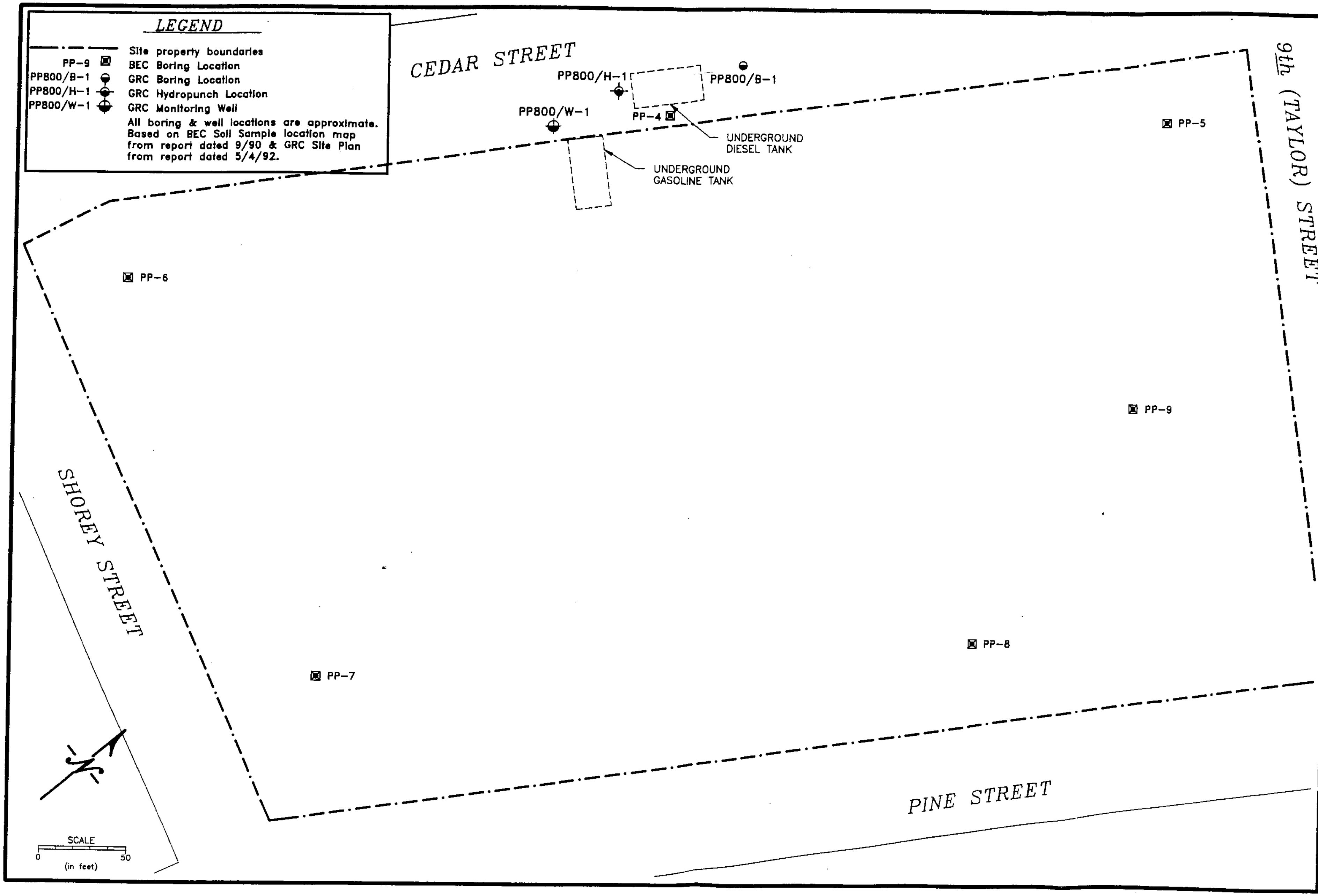
Preliminary Endangerment Assessment

Phoenix 800
800 Cedar Street
Oakland, Alameda County, California

Ground Water Analytical Results - Metals/Organics

ANALYTE	**Cd**	**Cr**	**Pb**	**Ni**	**Zn**	**TPH-D**	**VOC**	**SVO**
CONCENTRATION	mg/l	mg/l	mg/l	mg/l	mg/l	µg/l	µg/l	mg/l
DETECTION LIMIT	0.001	0.01	0.01	0.02	0.005	50	VARIOUS	VARIOUS
SAMPLE ID								
HPSB1	ND	0.04	0.08	0.03	0.04	140	ND	ND
HPSB2	ND	0.04	0.10	0.02	0.02	260	ND	ND
HPSB3	ND	0.05	0.12	0.01	0.02	220	ND	ND

Cd	Cadmium
Cr	Total chromium
Pb	Lead
Ni	Nickel
Zn	Zinc
TPH-D	Total petroleum hydrocarbons as diesel
mg/l	Milligrams per kilogram
µg/l	micrograms per kilogram
ND	Not detected in excess of detection limit
VOC	Volatile organic compounds
SVO	Semivolatile organic compounds



Drawn by: J.B.CAPP
Drawn on: 2/3/93
Cad File 357-7-5

ON-SITE TECHNOLOGIES

Soil Boring, HydroPunch & Monitoring Well Locations by BEC & GRC
PHOENIX 800 PROPERTY (APN 6-47-1)
800 CEDAR STREET, OAKLAND, CALIFORNIA

Job No. 357-7.1
Rev. Date 4/93
Figure 5.1

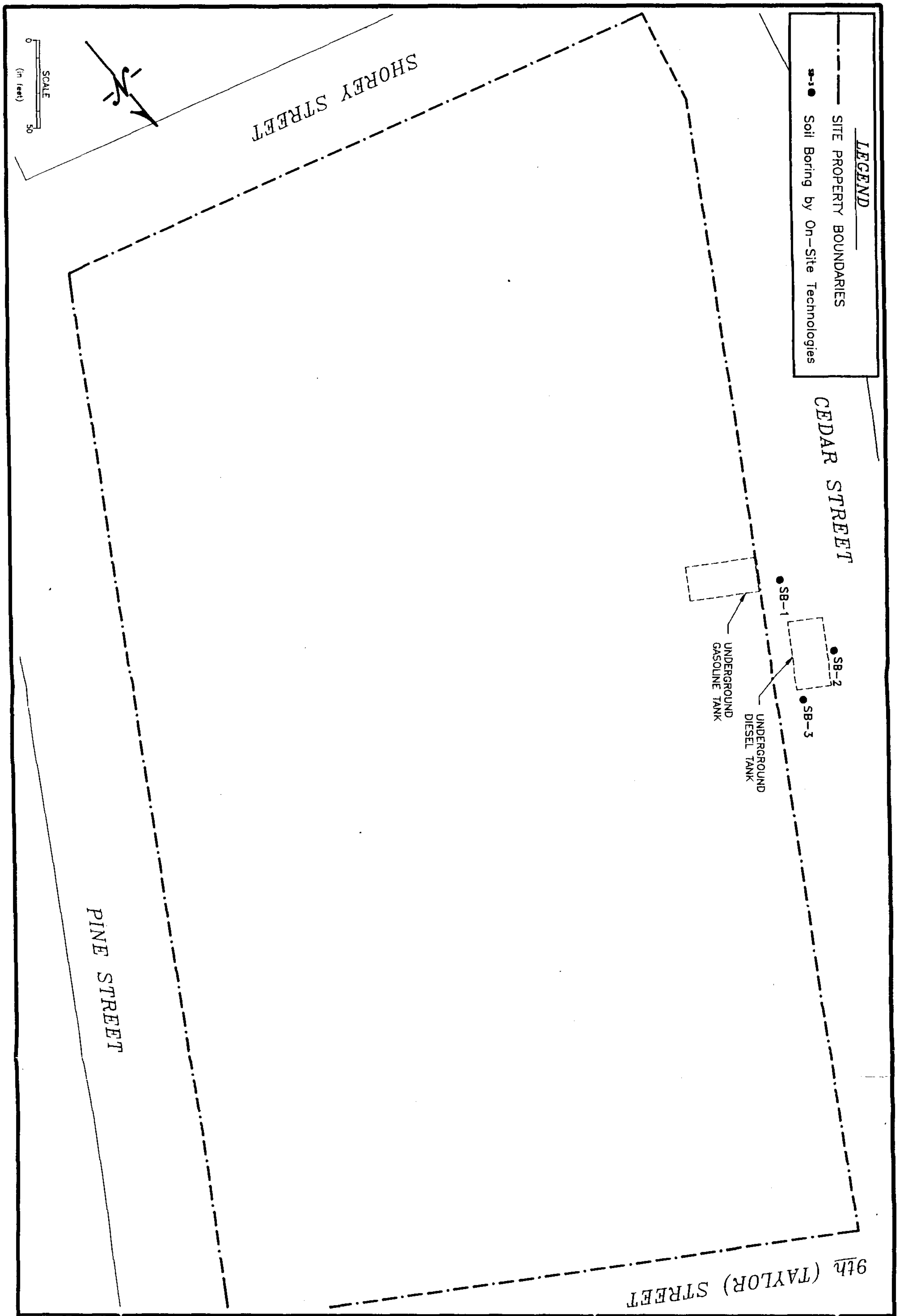


Figure
5.2.3

Rev. Date
4/93

Job No.
357-7.1

Soil Boring Locations by O.S.T.
PHOENIX 800 PROPERTY (APN 6-47-1)
800 CEDAR STREET, OAKLAND, CALIFORNIA

ON-SITE TECHNOLOGIES

Drawn by:
S.B.CAPP
Drawn on:
2/3/93
Cad File
357-7-5

B3-Tables 2 Through 6 and Figures 2 Through 8 from Site Investigation Report - Area 4 Prepared by IT Corporation Dated March 8, 2000 (14 pp)

TABLE 2

ORGANIC RESULTS - SOIL

Caltrans - Phoenix Iron Works (Phoenix 800) Investigation

Boring Number	Sample Depth (m)	Sample Depth (ft)	DHS-LUFT TPHg	DHS-LUFT TPHd	1664 TRPH	8260 VOCs	8270 SVOCs
P-1	0.15	0.5	ND	ND	100	ND	ND
	0.9	3	ND	ND	60	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	120	ND	ND
P-2	0.15	0.5	ND	ND	ND	ND	ND
	0.9	3	ND	ND	ND	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	ND	ND
P-3	0.15	0.5	ND	ND	ND	ND	ND
	0.9	3	ND	ND	ND	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	ND	ND
P-4	0.15	0.5	ND	ND	ND	trichloroethene - 0.012	ND
	0.9	3	ND	ND	ND	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	trichloroethene - 0.0068	ND
P-5	0.15	0.5	ND	ND	ND	ND	ND
	0.9	3	ND	ND	140	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	120	ND	ND
P-6	0.9	3	ND	ND	ND	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	ND	ND
P-7	0.15	0.5	ND	ND	ND	ND	ND
	0.9	3	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	ND	ND
P-8	0.15	0.5	ND	ND	1,100	ND	ND
	0.9	3	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	ND	ND
P-9	0.15	0.5	ND	ND	ND	ND	ND
	0.9	3	ND	ND	60	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	ND	ND
P-10	0.15	0.5	ND	ND	180	tetrachloroethene - 0.010	ND
	0.9	3	ND	ND	80	ND	ND
	2.1	7	ND	ND	120	ND	ND
	3.1	10	ND	ND	240	ND	ND
P-11	0.15	0.5	ND	ND	160	ND	ND
	0.9	3	ND	ND	60	ND	ND
	3.1	10	ND	ND	80	ND	ND
P-12	0.15	0.5	ND	ND	ND	trichloroethene - 0.026	ND
	0.9	3	ND	ND	ND	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	ND	ND
P-13	0.15	0.5	ND	ND	60	tetrachloroethene - 0.015	ND
	0.9	3	ND	ND	80	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	60	ND	ND
P-14	0.15	0.5	ND	ND	ND	ND	ND
	0.9	3	ND	ND	ND	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	ND	ND
P-15	0.15	0.5	ND	ND	ND	ND	ND
	0.9	3	ND	ND	ND	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	ND	ND

TABLE 2

ORGANIC RESULTS - SOIL

Caltrans - Phoenix Iron Works (Phoenix 800) Investigation

Boring Number	Sample Depth (m)	Sample Depth (ft)	DHS-LUFT TPHg	DHS-LUFT TPHd	1664 TRPH	8260 VOCs	8270 SVOCs
P-16	0.15	0.5	ND	ND	100	ND	anthracene - 0.780 benzo(a)anthracene - 0.340 benzo(b)fluoranthene - 0.520 benzo(k)fluoranthene - 0.520 benzo(g,h,I)perylene - 0.430 benzo(a)pyrene - 0.500 chrysene - 0.440 fluoranthene - 0.910 pyrene - 0.960
	0.9	3	ND	ND	120	ND	ND
	2.1	7	ND	ND	ND	ND	ND
P-17	0.15	0.5	ND	ND	180	ND	ND
	0.9	3	ND	ND	ND	ND	ND
	2.1	7	ND	ND	60	trichloroethene - 0.015	ND
	3.1	10	ND	ND	ND	trichloroethene - 0.028	ND
P-18	0.15	0.5	ND	ND	ND	ND	ND
	0.9	3	ND	ND	320	ND	ND
	2.1	7	ND	ND	ND	ND	ND
P-19	0.15	0.5	ND	ND	80	ND	benzo(k)fluoranthene - 8 benzo(g,h,I)perylene - 2 benzo(a)pyrene - 13 di-n-octyl phthalate - 1.4 dibenz(a,h)anthracene - 1.1 indeno(1,2,3-cd)pyrene - 0.920
	0.9	3	ND	ND	100	ND	ND
	2.1	7	ND	ND	100	ND	ND
	3.1	10	ND	ND	60	ND	ND
P-20	0.15	0.5	ND	ND	140	ND	ND
	0.9	3	ND	ND	80	ND	ND
	2.1	7	ND	ND	120	ND	ND
	3.1	10	ND	ND	160	ND	ND
P-21	0.15	0.5	ND	ND	260	trichloroethene - 0.023	ND
	0.9	3	ND	ND	ND	ND	ND
	2.1	7	ND	ND	ND	trichloroethene - 0.0042	ND
	3.1	10	ND	ND	ND	trichloroethene - 0.0057	ND
P-22	0.15	0.5	ND	ND	80	ND	ND
	0.9	3	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	ND	ND
P-23	0.15	0.5	ND	ND	ND	ND	ND
	0.9	3	ND	ND	100	ND	ND
	3.1	10	ND	ND	100	ND	ND
P-24	0.9	3	ND	ND	ND	styrene - 0.0037	ND
	2.1	7	ND	ND	60	ND	ND
	3.1	10	ND	ND	ND	ND	ND
P-25	0.15	0.5	ND	ND	1,200	ND	ND
	0.9	3	ND	ND	ND	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	ND	ND
P-26	0.15	0.5	ND	ND	1,140	ND	ND
	0.9	3	ND	ND	ND	ND	ND
	2.1	7	ND	ND	ND	ND	ND
	3.1	10	ND	ND	ND	ND	ND
Reporting Limits			1.0	1.0	50	0.002 to 0.0071	0.33 to 1.6

Notes:

1. Analyses conducted in general accordance with the U.S. Environmental Protection Agency Method listed. DHS-LUFT = Department of Health Services Leaking Underground Tank Manual method.
2. Sample depths reported in approximate meters (m) / feet (ft) below the ground surface.
3. Concentrations reported in milligrams per kilogram.
4. ND = not detected in concentrations exceeding the listed reporting limit.
5. VOCs = volatile organic compounds. SVOCs = semivolatile organic compounds. TPHg = total petroleum hydrocarbons as gasoline. TPHd = total petroleum hydrocarbons as diesel. TRPH = total recoverable petroleum hydrocarbons.
6. Soil samples labeled as follows: boring no.-depth-sample tube no. with 1 being from the bottom. Ex.: P1-0.5': boring P-1, 0.5-foot depth.

TABLE 3

INORGANIC RESULTS - SOIL

Caltrans - Phoenix Iron Works (Phoenix 800) Investigation

Boring Number	Sample Depth (m)	Sample Depth (ft)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
P-1	0.15	0.5	ND	ND	78	ND	ND	28	4.2	17	13	ND	ND	20	ND	ND	ND	21	40
	0.9	3	ND	ND	46	ND	ND	32	ND	16	3.2	ND	ND	23	ND	ND	ND	25	27
	2.1	7	ND	ND	115	ND	ND	60	5.8	35	2.6	0.028	ND	53	ND	ND	ND	38	43
	3.1	10	ND	ND	97	ND	ND	55	9.2	103	2.9	ND	ND	63	ND	ND	ND	38	78
P-2	0.15	0.5	ND	ND	88	ND	ND	34	ND	19	**225**	0.450	ND	22	ND	ND	ND	23	79
	0.9	3	ND	ND	56	ND	ND	30	ND	12	1.5	0.011	ND	21	ND	ND	ND	22	21
	2.1	7	ND	ND	67	ND	ND	53	6.1	13	1.8	ND	ND	46	ND	ND	ND	28	29
	3.1	10	ND	ND	84	ND	1.1	45	8.6	16	2.4	0.014	ND	54	ND	ND	ND	33	34
P-3	0.15	0.5	ND	ND	80	0.46	ND	27	ND	24	5.9	0.021	ND	16	ND	ND	ND	21	29
	0.9	3	ND	ND	46	ND	ND	33	ND	12	2.0	0.011	ND	20	ND	ND	ND	26	21
	2.1	7	ND	ND	67	ND	ND	43	5.1	15	1.9	ND	ND	38	ND	ND	ND	28	27
	3.1	10	ND	ND	78	0.32	ND	46	8.2	12	2.8	ND	ND	66	ND	ND	ND	34	35
P-4	0.15	0.5	ND	ND	61	ND	ND	31	ND	18	2.3	0.014	ND	18	ND	ND	ND	20	27
	0.9	3	ND	ND	51	ND	ND	35	ND	13	1.7	ND	ND	22	ND	ND	ND	23	21
	2.1	7	ND	ND	72	ND	ND	46	6.7	12	2.2	0.013	ND	45	ND	ND	ND	28	27
	3.1	10	ND	ND	84	ND	ND	81	ND	18	2.2	ND	ND	54	ND	ND	ND	34	34
P-5	0.15	0.5	ND	ND	380	0.43	1.4	34	7.7	65	**704**	0.566	ND	33	ND	ND	ND	33	831
	0.9	3	ND	ND	53	ND	ND	32	ND	20	3.5	ND	ND	23	ND	ND	ND	25	24
	2.1	7	ND	ND	44	ND	ND	36	5.8	15	1.6	0.022	ND	32	ND	ND	ND	25	23
	3.1	10	ND	ND	64	ND	ND	38	6.1	25	2.2	ND	ND	41	ND	ND	ND	26	32
P-6	0.9	3	ND	ND	36	ND	ND	32	ND	12	1.8	0.012	ND	24	ND	ND	ND	22	462
	2.1	7	ND	ND	61	ND	ND	44	7.6	12	2.5	ND	ND	54	ND	ND	ND	32	33
	3.1	10	ND	ND	64	ND	ND	52	7.1	16	2.3	ND	ND	55	ND	ND	ND	ND	36
P-7	0.15	0.5	ND	ND	108	ND	ND	37	5.9	40	6.2	0.018	ND	28	ND	ND	ND	28	49
	0.9	3	ND	ND	46	ND	ND	32	ND	12	2.7	0.011	ND	20	ND	ND	ND	23	20
	3.1	10	ND	ND	66	ND	ND	48	6.6	14	1.9	0.011	ND	53	ND	ND	ND	28	34
P-8	0.15	0.5	ND	ND	172	ND	ND	31	5.7	38	**711**	0.24	ND	30	ND	ND	ND	22	194
	0.9	3	ND	ND	57	ND	ND	39	ND	7.1	2.5	ND	ND	21	ND	ND	ND	25	57
	3.1	10	ND	ND	57	ND	ND	34	6.0	8.3	1.8	ND	ND	42	ND	ND	ND	26	24
P-9	0.15	0.5	ND	ND	236	0.41	ND	29	5.5	161	***1,690***	1.1	ND	19	ND	ND	ND	27	254
	0.9	3	ND	ND	46	ND	ND	27	ND	15	1.9	ND	ND	19	ND	ND	ND	21	23
	2.1	7	ND	ND	69	0.32	ND	38	7.0	31	3.0	0.023	ND	48	ND	ND	ND	35	35
	3.1	10	ND	ND	67	ND	ND	37	6.8	43	2.0	ND	ND	46	ND	ND	ND	26	42
P-10	0.15	0.5	ND	ND	108	ND	ND	27	ND	17	**108**	0.263	ND	20	ND	ND	ND	23	100
	0.9	3	ND	ND	42	ND	ND	27	ND	5.5	8.5	ND	ND	19	ND	ND	ND	21	14
	2.1	7	ND	ND	79	ND	ND	36	7.0	9.8	2.0	ND	ND	47	ND	ND	ND	29	26
	3.1	10	ND	ND	71	ND	ND	39	6.0	9.9	1.5	ND	ND	45	ND	ND	ND	26	25
P-11	0.15	0.5	ND	ND	207	ND	0.91	27	5.6	36	**505**	0.665	ND	28	ND	ND	ND	21	510
	0.9	3	ND	ND	56	ND	ND	30	ND	5.4	1.2	ND	ND	22	ND	ND	ND	22	17
	3.1	10	ND	ND	68	ND	ND	39	5.8	8.4	1.4	ND	ND	48	ND	ND	ND	27	24
P-12	0.15	0.5	ND	ND	334	ND	0.95	25	5.0	33	**871**	0.17	ND	23	ND	ND	ND	23	822
	0.9	3	ND	ND	46	ND	ND	27	ND	5.2	1.7	ND	ND	18	ND	ND	ND	21	16
	2.1	7	ND	ND	54	ND	ND	33	6.7	11	2.0	ND	ND	38	ND	ND	ND	26	25
	3.1	10	ND	ND	72	ND	ND	28	6.4	8.3	2.4	ND	ND	43	ND	ND	ND	26	23
P-13	0.15	0.5	ND	ND	204	ND	ND	ND	ND	31	**90**	0.090	ND	17	ND	ND	ND	19	65
	0.9	3	ND	ND	51	ND	ND	32	ND	32	2.0	ND	ND	17	ND	ND	ND	20	31
	2.1	7	ND	ND	97	0.37	ND	60	9.7	69	2.9	ND	ND	60	ND	ND	ND	40	58
	3.1	10	ND	ND	67	ND	ND	67	6.1	28	1.9	0.012	ND	46	ND	ND	ND	28	34
P-14	0.15	0.5	ND	ND	66	ND	ND	38	ND	21	9.9	0.035	ND	21	ND	ND	ND	23	48
	0.9	3	ND	ND	36	ND	ND	33	ND	13	2.9	0.012	ND	19	ND	ND	ND	22	24
	2.1	7	ND	ND	72	ND	ND	47	7.6	11	2.3	ND	ND	54	ND	ND	ND	32	33
	3.1	10	ND	ND	74	ND	ND	50	8.2	29	3.3	ND	ND	61	ND	ND	ND	34	46
P-15	0.15	0.5	ND	ND	134	ND	ND	26	ND	11	27	0.088	ND	19	ND	ND	ND	20	38
	0.9	3	ND	ND	54	ND	ND	30	ND	7.9	1.5	ND	ND	22	ND	ND	ND	24	20
	2.1	7	ND	ND	27	ND	ND	27	ND	5.1	1.2	0.017	ND	19	ND	ND	ND	18	14
	3.1	10	ND	ND	58	ND	ND	30	5.1	6.8	1.6	ND	ND	36	ND	ND	ND	20	21

TABLE 3

INORGANIC RESULTS - SOIL
Caltrans - Phoenix Iron Works (Phoenix 800) Investigation

Boring Number	Sample Depth (m)	Sample Depth (ft)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
P-16	0.15	0.5	ND	ND	107	ND	ND	28	ND	32	**53**	0.078	ND	21	ND	ND	ND	22	43
	0.9	3	ND	ND	51	ND	ND	30	ND	4.8	1.0	ND	ND	18	ND	ND	ND	20	27
	2.1	7	ND	ND	59	ND	ND	32	5.5	7.3	1.4	ND	ND	38	ND	ND	ND	24	23
P-17	0.15	0.5	ND	ND	74	ND	ND	35	ND	16	2.1	0.034	ND	19	ND	ND	ND	21	38
	0.9	3	ND	ND	44	ND	ND	32	ND	13	1.6	ND	ND	20	ND	ND	ND	23	22
	2.1	7	ND	ND	85	ND	ND	47	7.3	28	2.6	0.032	ND	55	ND	ND	ND	33	39
	3.1	10	ND	ND	80	ND	ND	53	7.5	28	2.0	0.10	ND	54	ND	ND	ND	30	47
P-18	0.15	0.5	ND	ND	56	ND	ND	21	ND	6.6	11	ND	ND	16	ND	ND	ND	18	48
	0.9	3	ND	ND	51	ND	ND	27	ND	5.6	1.7	ND	ND	18	ND	ND	ND	23	18
	2.1	7	ND	ND	77	0.39	ND	44	ND	11	2.1	ND	ND	41	ND	ND	ND	34	29
P-19	0.15	0.5	ND	ND	158	ND	ND	21	ND	29	**351**	0.24	ND	16	ND	ND	ND	20	203
	0.9	3	ND	ND	50	ND	ND	26	ND	8.6	1.7	0.024	ND	18	ND	ND	ND	24	20
	2.1	7	ND	ND	59	0.30	ND	35	6.2	7.5	2.1	ND	ND	36	ND	ND	ND	27	26
	3.1	10	ND	ND	58	ND	ND	31	6.3	20	3.5	ND	ND	39	ND	ND	ND	28	42
P-20	0.15	0.5	ND	ND	238	ND	ND	25	6.0	44	**518**	0.28	ND	32	ND	ND	ND	24	274
	0.9	3	ND	ND	54	ND	ND	35	5.1	8.2	2.4	ND	ND	22	ND	ND	ND	28	23
	2.1	7	ND	ND	168	0.44	ND	37	7.8	52	**282**	0.16	ND	31	ND	ND	ND	36	168
	3.1	10	ND	ND	77	0.30	ND	31	6.0	7.5	2.2	ND	ND	38	ND	ND	ND	27	28
P-21	0.15	0.5	ND	ND	313	ND	4.2	23	6.0	75	<u>***1,500***</u>	0.20	ND	28	ND	ND	ND	20	1,690
	0.9	3	ND	ND	55	ND	ND	30	7.2	15	6.8	0.011	ND	23	ND	ND	ND	23	22
	2.1	7	ND	ND	91	0.42	ND	57	12	54	3.8	ND	ND	64	ND	ND	ND	44	54
	3.1	10	ND	ND	64	ND	ND	38	6.0	11	2.1	ND	ND	42	ND	ND	ND	26	26
P-22	0.15	0.5	ND	ND	60	ND	ND	25	ND	5.3	1.6	0.017	ND	17	ND	ND	ND	20	29
	0.9	3	ND	ND	29	ND	ND	25	ND	5.6	1.4	ND	ND	16	ND	ND	ND	20	15
	3.1	10	ND	ND	47	ND	ND	33	ND	6.0	1.4	ND	ND	33	ND	ND	ND	20	22
P-23	0.15	0.5	ND	ND	154	ND	ND	30	ND	15	**144**	0.20	ND	20	ND	ND	ND	23	61
	0.9	3	ND	ND	47	ND	ND	22	ND	4.8	1.4	ND	ND	18	ND	ND	ND	21	15
	3.1	10	ND	ND	59	ND	ND	30	ND	6.7	1.5	ND	ND	35	ND	ND	ND	22	22
P-24	0.9	3	ND	ND	54	ND	ND	38	5.6	46	10	0.15	ND	27	ND	ND	ND	25	41
	2.1	7	ND	ND	28	ND	ND	33	ND	12	1.1	0.14	ND	22	ND	ND	ND	18	26
	3.1	10	ND	ND	82	ND	ND	46	10	43	5.5	ND	ND	54	ND	ND	ND	31	62
P-25	0.15	0.5	ND	ND	123	ND	ND	42	7.4	76	**182**	0.216	ND	40	ND	ND	ND	35	196
	0.9	3	ND	ND	47	ND	ND	29	ND	7.3	ND	ND	ND	18	ND	ND	ND	20	18
	2.1	7	ND	ND	56	ND	ND	37	6.0	28	2.0	0.010	ND	42	ND	ND	ND	25	34
	3.1	10	ND	ND	69	ND	ND	48	6.8	29	1.8	ND	ND	57	ND	ND	ND	30	44
P-26	0.15	0.5	ND	ND	289	ND	ND	28	5.9	39	**70**	0.073	ND	29	ND	ND	ND	36	81
	0.9	3	ND	ND	92	ND	ND	24	ND	11	19	0.092	ND	16	ND	ND	ND	20	50
	2.1	7	ND	ND	86	ND	ND	44	5.7	16	2.2	0.043	ND	43	ND	ND	ND	28	34
	3.1	10	ND	ND	83	0.32	ND	49	5.5	10	2.4	ND	ND	52	ND	ND	ND	35	30
TTLC			500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
10X STLC			150	50	1,000	7.5	10	5,600	800	250	50	2	3,500	200	10	50	70	240	2,500
PRG			67	19	12,000	1.8	24	170,000	22	5,000	840	45	830	400	830	830	27	1,200	50,000
Reporting Limit			6.0	10	2.0	0.30	0.50	1.0	5.0	2.0	1.0	0.010	5.0	4.0	10	1.0	10	5.0	1.5

Notes:
1. Metals analyses conducted in general accordance with U.S. Environmental Protection Agency (EPA) Methods 6010 and 7471.
2. Sample depths reported in approximate meters (m) / feet (ft) below the ground surface.
3. Concentrations reported in milligrams per kilogram.
4. ND = not detected in concentrations exceeding the listed reporting limit.
5. Soil samples labeled as follows: boring no.-depth. Ex.: P1-0.5': boring P-1, 0.5-foot depth.
6. TTLC = Total Threshold Limit Concentration.
7. 10X STLC = 10 times the Soluble Threshold Limit Concentration. Values listed in milligrams per liter.
8. PRG = preliminary remediation goal established for the Cypress area of investigation by the Office of Scientific Affairs. PRG for chromium is for trivalent chromium.
9. Bold results equal or exceed 10X STLC values. Bold and italics results equal or exceed the TTLC. Underlined results equal or exceed the PRG.

TABLE 4

SOLUBLE METAL RESULTS - SOIL

Caltrans - Phoenix Iron Works (Phoenix 800) Investigation

Boring	Sample Depth		Lead		
Number	meters	feet	Total	WET	TCLP
P-2	0.15	0.5	225	**11**	**17**
P-5	0.15	0.5	704		0.42
P-8	0.15	0.5	711		**60**
P-9	0.15	0.5	**1,690**		1.2
P-10	0.15	0.5	108	**14**	
P-11	0.15	0.5	505		0.57
P-12	0.15	0.5	871		0.12
P-13	0.15	0.5	90	**6.2**	
P-16	0.15	0.5	53	0.26	
P-19	0.15	0.5	351	**33**	0.066
P-20	0.15	0.5	518		0.16
	2.1	7	282	0.077	0.063
P-21	0.15	0.5	**1,500**		3.1
P-23	0.15	0.5	144	**10**	
P-25	0.15	0.5	182	**35**	
P-26	0.15	0.5	70	**10**	
TTLC			1,000		
STLC				5.0	
TCLP					5.0
Reporting Limit			1.0	0.050	0.050

Notes:

1. TTLC = total threshold limit concentration. STLC = soluble threshold limit concentration. WET = waste extraction test. TCLP = toxicity characteristic leaching procedure.
2. Sample depths reported in approximate meters (m) / feet (ft) below the ground surface.
3. WET conducted in general accordance with California Title 22 procedures. TCLP extraction and metal analyses conducted in general accordance with U.S. Environmental Protection Agency methods.
4. Total metal results reported in milligrams per kilogram. WET and TCLP results reported in milligrams per liter.
5. ND = not detected in concentrations exceeding the listed reporting limit.
6. Soil samples labeled as follows: boring no.-depth. Ex.: P1-0.3 - boring P-1, 0.3-meter depth.
7. Bold values exceed the TTLC, STLC, or TCLP.

TABLE 5

ORGANIC RESULTS - WATER

Caltrans - Phoenix Iron Works (Phoenix 800) Investigation

Boring Number	Sample Type	DHS-LUFT TPHg	DHS-LUFT TPHd	1664 TRPH	8260 VOCs	8270 SVOCs
P-1	GW	ND	ND	ND	ND	ND
P-2	GW	ND	ND	ND	styrene - 0.0028	ND
P-3	GW	ND	ND	ND	ND	ND
P-5	GW	ND	ND	ND	ND	ND
P-6	GW	ND	ND	ND	ND	ND
P-7	GW	ND	ND	ND	ND	ND
P-9	GW	ND	ND	ND	chloroform - 0.023	ND
P-12	GW	ND	ND	ND	ND	ND
P-13	GW	ND	ND	ND	2-hexanone - 0.370	ND
P-14	GW	ND	ND	ND	vinyl acetate - 0.0055 chloroform - 0.0026	ND
P-15	GW	ND	ND	ND	ND	ND
P-17	GW	ND	ND	ND	carbon disulfide - 0.0037 trichloroethene - 0.140	ND
P-21	GW	ND	ND	ND	trichloroethene - 0.046	ND
P-23	GW	ND	ND	ND	carbon disulfide - 0.0022 benzene - 0.055 toluene - 0.0055	ND
P-24	GW	ND	ND	ND	carbon disulfide - 0.0070 trichloroethene - 0.0023	ND
P-10	ER	ND	ND	ND	ND	ND
Reporting Limits		0.05	0.05	5.0	0.002 to 0.0071	0.01 to 0.05

Notes:

1. Analyses conducted in general accordance with the U.S. Environmental Protection Agency Method listed. DHS-LUFT = Department of Health Services Leaking Underground Tank Manual method.
2. Sample types: GW = groundwater grab sample. ER = equipment rinse sample.
3. Concentrations reported in milligrams per liter (mg/l).
4. ND = not detected in concentrations exceeding the listed reporting limit.
5. VOCs = volatile organic compounds. SVOCs = semivolatile organic compounds.
   TPHg = total petroleum hydrocarbons as gasoline. TPHd = total petroleum hydrocarbons as diesel.
   TRPH = total recoverable petroleum hydrocarbons.
6. Groundwater samples labeled as follows: boring no.-GW. Ex.: P-1-GW for the groundwater sample collected from boring P-1.

TABLE 6

INORGANIC RESULTS - WATER

Caltrans - Phoenix Iron Works (Phoenix 800) Investigation

Boring Number	Sample Type	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	TDS
P-1	GW	ND	ND	0.92	ND	ND	**0.33**	0.071	0.076	**0.025**	ND	ND	**0.53**	ND	ND	ND	0.24	0.43	**809**
P-2	GW	ND	ND	0.16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13	393
P-3	GW	ND	ND	0.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13	**961**
P-5	GW	ND	ND	0.35	ND	ND	**0.12**	ND	0.031	**0.027**	ND	ND	**0.19**	ND	ND	ND	0.097	0.11	**926**
P-6	GW	ND	ND	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.17	**531**
P-7	GW	ND	ND	0.030	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.049	**898**
P-9	GW	ND	ND	0.28	ND	ND	**0.086**	ND	0.020	ND	ND	ND	0.082	ND	ND	ND	0.072	0.10	287
P-12	GW	ND	ND	0.098	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**749**
P-13	GW	ND	ND	**1.3**	**0.0042**	ND	**0.56**	0.11	0.13	**0.059**	0.00029	ND	**0.70**	ND	ND	ND	0.45	0.50	320
P-14	GW	ND	ND	0.20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.22	470
P-15	GW	ND	ND	0.16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.028	**744**
P-17	GW	ND	ND	**1.2**	0.0034	ND	**0.46**	0.11	0.12	**0.061**	0.00037	ND	**0.68**	ND	ND	ND	0.38	0.38	**609**
P-21	GW	ND	ND	**1.7**	**0.0045**	ND	**0.65**	0.16	0.18	**0.51**	0.00050	ND	**0.97**	ND	ND	ND	0.52	0.87	**979**
P-23	GW	ND	ND	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.016	**735**
P-24	GW	ND	ND	**3.3**	**0.013**	ND	**1.8**	0.36	0.48	**1.1**	0.0016	ND	**2.3**	ND	ND	ND	1.4	1.5	**1,312**
P-10	ER	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Drinking Water Standards	CA MCL	0.006	0.05	1	0.004	0.005	0.05		1.3	0.015	0.002		0.1	0.05		0.002			
	CA 2 MCL								1						0.1			5	500
	US MCL	0.006	0.05	2	0.004	0.005	0.1		1.3	0.015	0.002		0.1	0.05		0.002			
	US 2 MCL								1						0.1			5	500
Reporting Limits		0.060	0.10	0.020	0.0030	0.0050	0.010	0.050	0.020	0.010	0.00020	0.050	0.040	0.10	0.010	0.10	0.050	0.015	10

Notes:

1. Metals analyses conducted in general accordance with U.S. Environmental Protection Agency (EPA) Methods 6010 and 7471. TDS analysis conducted in general accordance with EPA Method 160.1.
2. Sample type: GW = groundwater grab sample. ER = equipment rinse sample.
3. Concentrations reported in milligrams per liter.
4. TDS = total dissolved solids.
5. Bold results exceed drinking water standard levels.
6. ND = not detected in concentrations exceeding the listed reporting limit.
7. Groundwater samples labeled as follows: boring no.-GW. Ex.: P-1-GW for the groundwater sample collected from boring P-1.
8. CA MCL = California primary maximum contaminant level (MCL). CA 2 MCL = California secondary MCL. US MCL = U.S. primary MCL. US 2 MCL = U.S. secondary MCL.

DRAWING NUMBER 776768-2R

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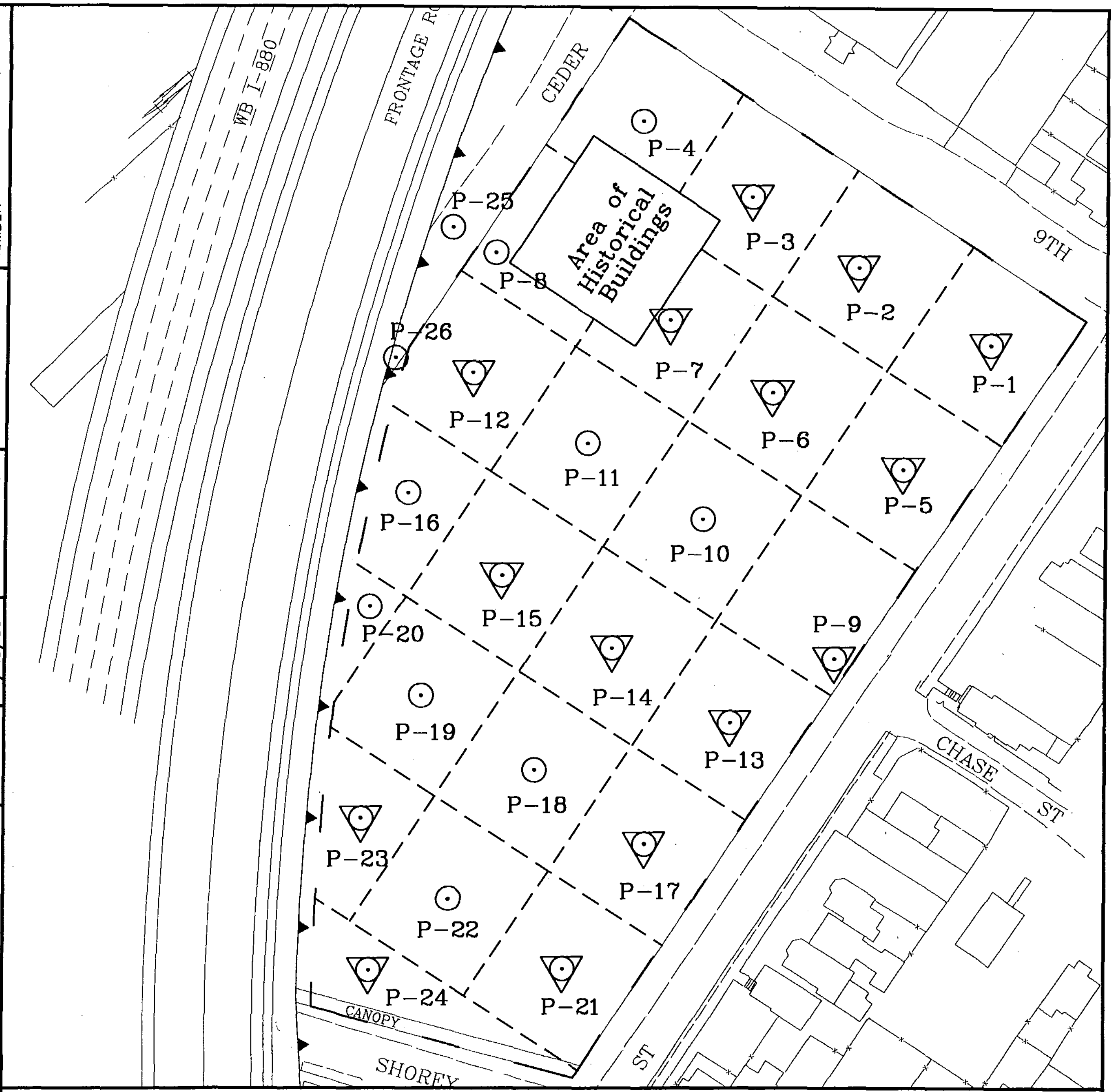

LEGEND

⊙ P-2 BORING LOCATION AND DESIGNATION

▽ GROUNDWATER SAMPLE LOCATION

Notes:

1. All locations and dimensions are approximate.
2. Base map provided by Caltrans.

APPROXIMATE SCALE

0 30 61 METERS

0 100 200 FEET

N

FIGURE 2

SOIL AND GROUNDWATER SAMPLE LOCATIONS

PHOENIX IRON WORKS
OAKLAND, CALIFORNIA

IT CORPORATION
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PHXFIG2R.DWG

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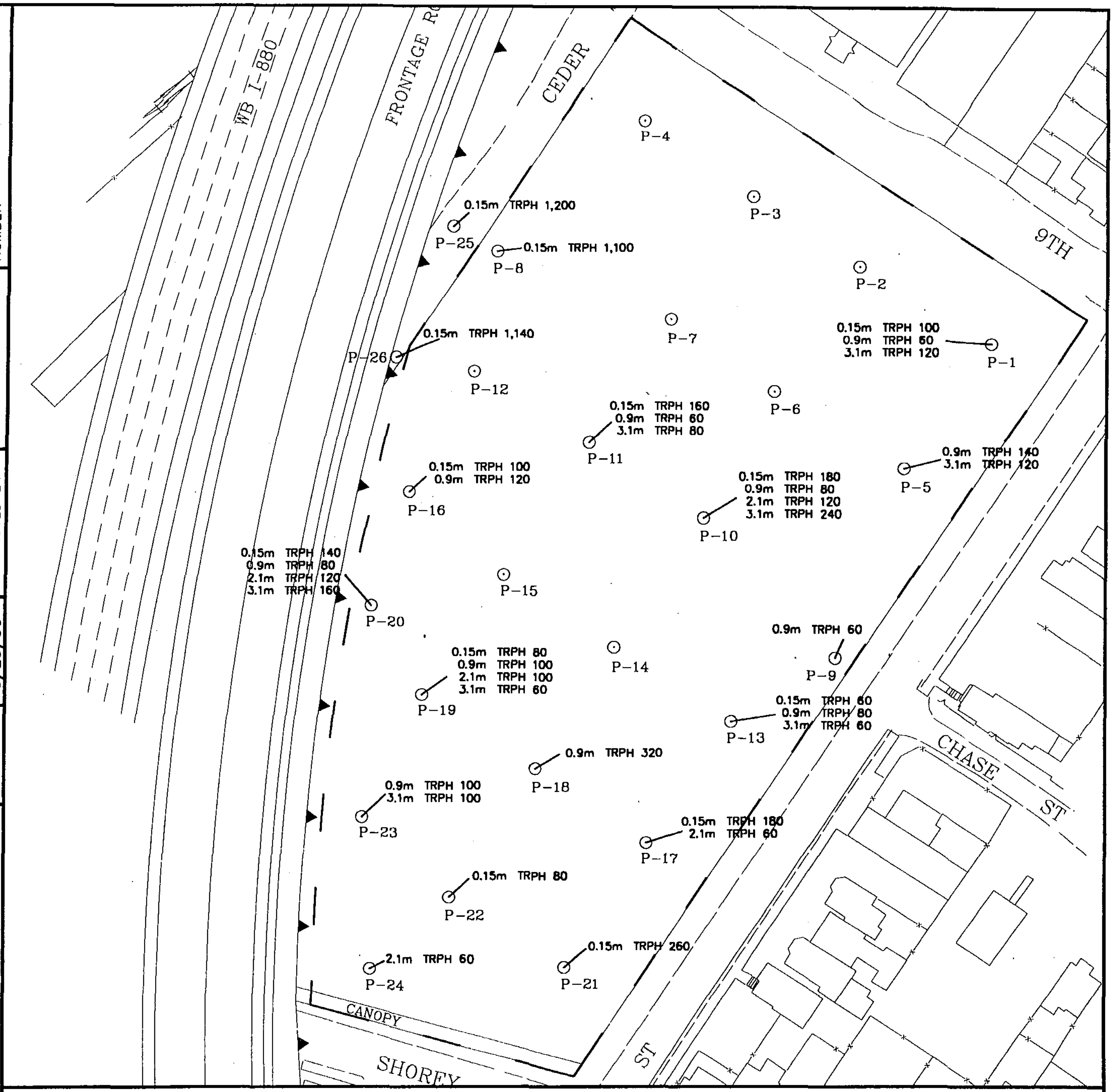

LEGEND

⊙ P-2 BORING LOCATION AND DESIGNATION

0.15m TRPH 180 SAMPLE DEPTH (meters) AND TOTAL RECOVERABLE PETROLEUM HYDROCARBON CONCENTRATION (milligrams per kilogram)

Notes:

1. All locations and dimensions are approximate.
2. Base map provided by Caltrans.

APPROXIMATE SCALE

0 30 61 METERS
0 100 200 FEET

N

FIGURE 3

PETROLEUM HYDROCARBON DETECTIONS IN SOIL

PHOENIX IRON WORKS
OAKLAND, CALIFORNIA

IT CORPORATION
A Member of the IT Group

PHXFIG3R.DWG/HYDROCARBONS

DRAWING NUMBER 776768-4R

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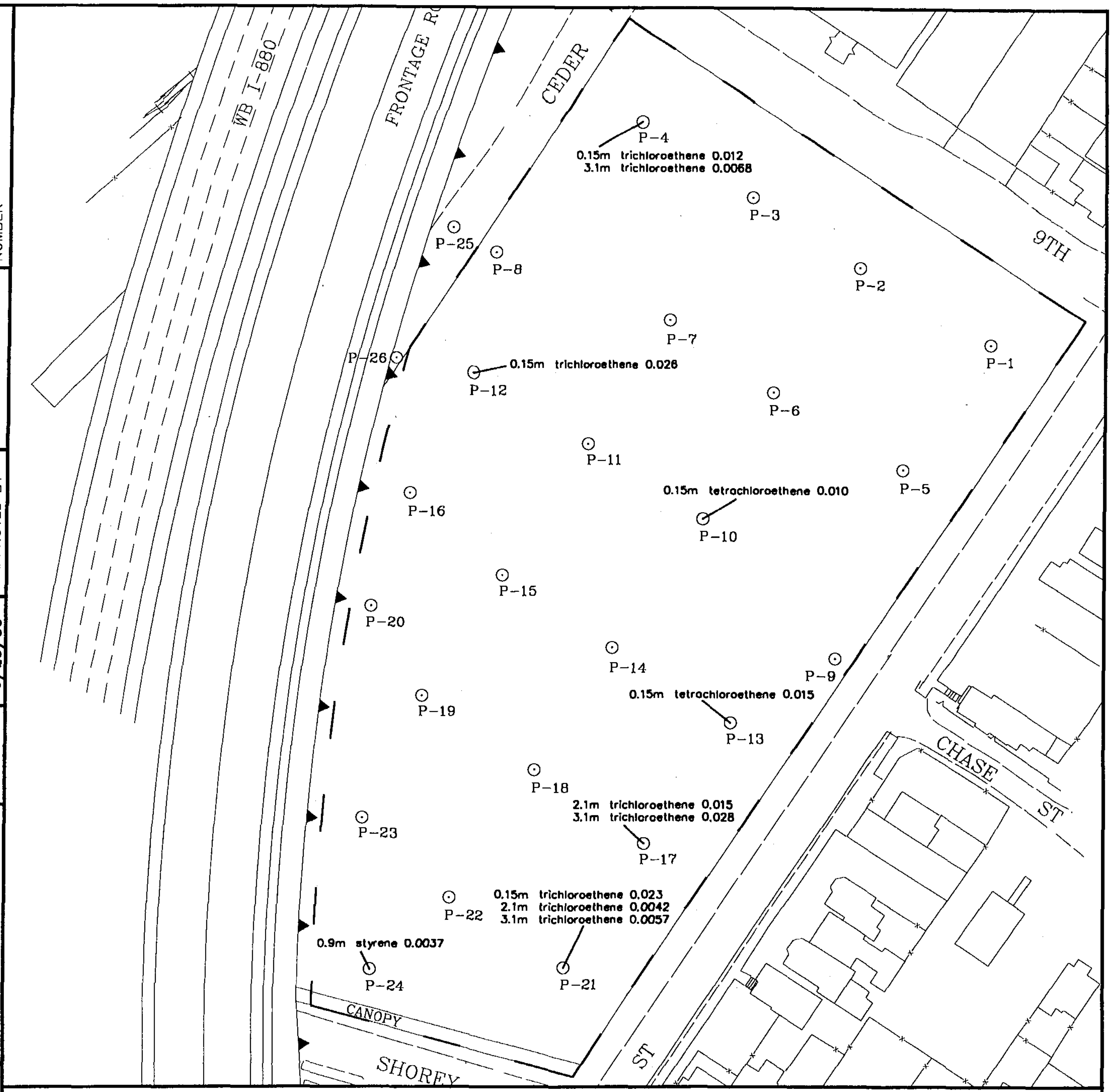

LEGEND

⊙ P-2	BORING LOCATION AND DESIGNATION
0.15m trichloroethene 0.012	SAMPLE DEPTH (meters) AND VOLATILE ORGANIC COMPOUND CONCENTRATION (milligrams per kilogram)

Notes:

1. All locations and dimensions are approximate.
2. Base map provided by Caltrans.

APPROXIMATE SCALE

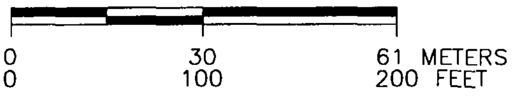

FIGURE 4

VOLATILE ORGANIC COMPOUND DETECTIONS IN SOIL

PHOENIX IRON WORKS
OAKLAND, CALIFORNIA

IT CORPORATION
A Member of the IT Group

PHXFIG3R.DWG/VOCS

DRAWING NUMBER 776768-5R

CHECKED BY

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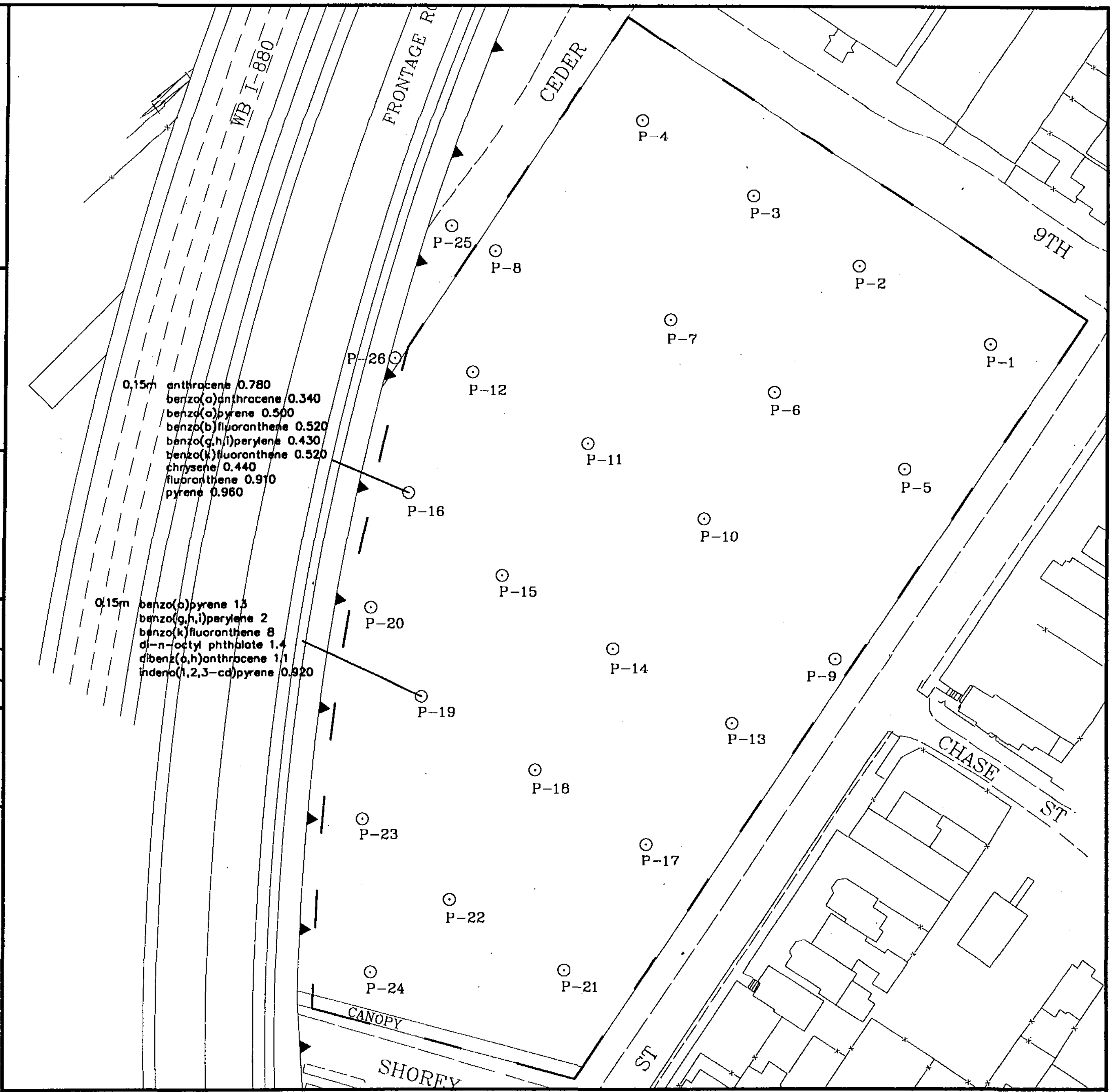
DRAWN BY



LEGEND

⊙ P-2	BORING LOCATION AND DESIGNATION
0.15m chrysene 0.440	SAMPLE DEPTH (meters) AND SEMIVOLATILE ORGANIC COMPOUND CONCENTRATION (milligrams per kilogram)

Notes:

1. All locations and dimensions are approximate.
2. Base map provided by Caltrans.

APPROXIMATE SCALE

0 30 61 METERS
0 100 200 FEET

FIGURE 5

SEMIVOLATILE ORGANIC COMPOUND DETECTIONS IN SOIL

PHOENIX IRON WORKS
OAKLAND, CALIFORNIA

IT CORPORATION
A Member of the IT Group

PHXFIG3R.DWG/SVOCS

DRAWING NUMBER 776768-6R

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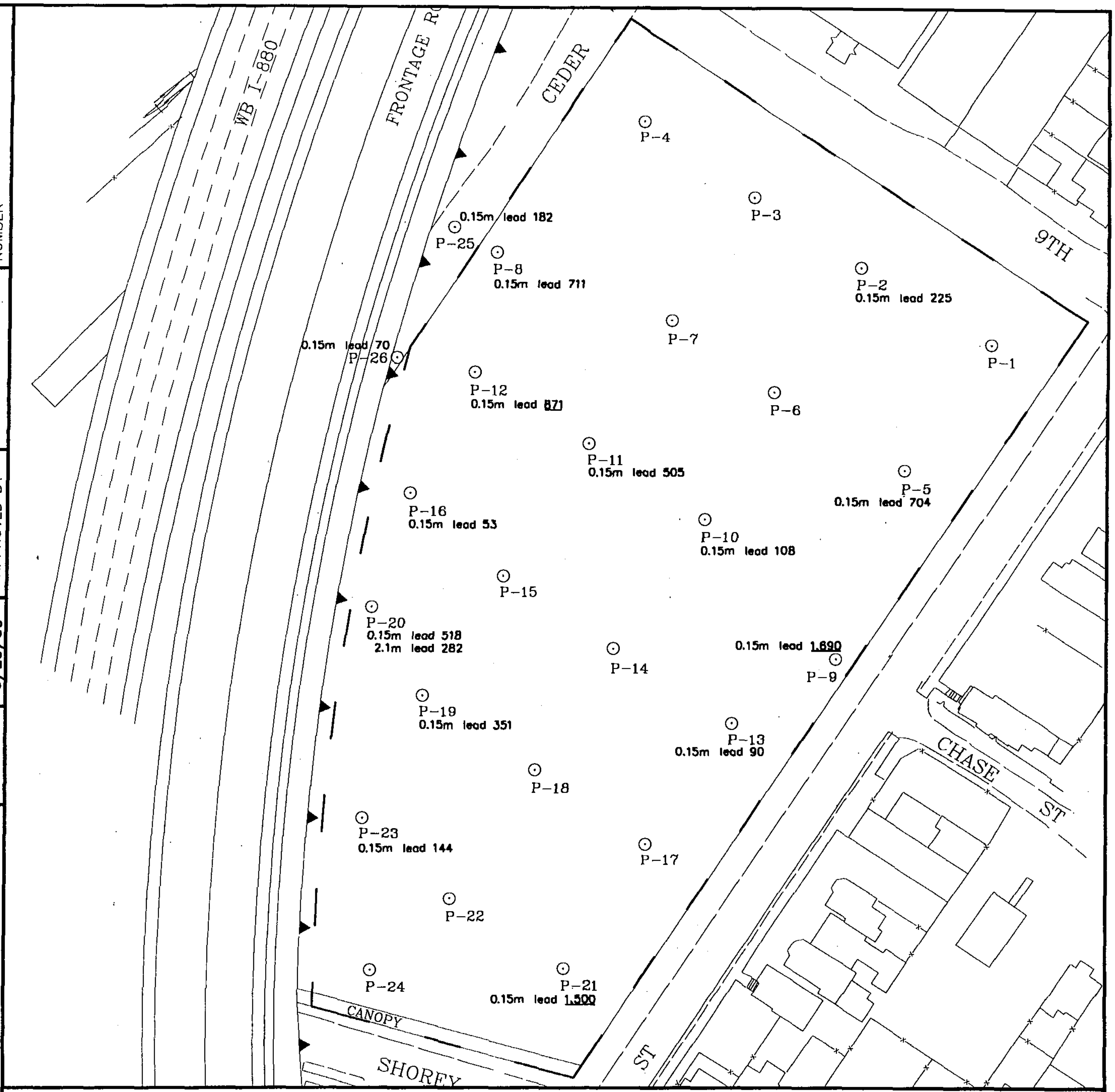

LEGEND

⊙ P-2	BORING LOCATION AND DESIGNATION
0.15m lead 225	SAMPLE DEPTH (meters) AND TOTAL LEAD CONCENTRATION (milligrams per kilogram)

Notes:
1. All locations and dimensions are approximate.
2. Base map provided by Caltrans.
3. Underlined concentrations exceed the Preliminary Remediation Goal.

APPROXIMATE SCALE

0 30 61 METERS
0 100 200 FEET

N

FIGURE 6

SELECTED TOTAL LEAD DETECTIONS IN SOIL

PHOENIX IRON WORKS
OAKLAND, CALIFORNIA

IT CORPORATION
A Member of the IT Group

PHXFIG3R.DWG/LEAD

DRAWN BY

DPB
9/29/99

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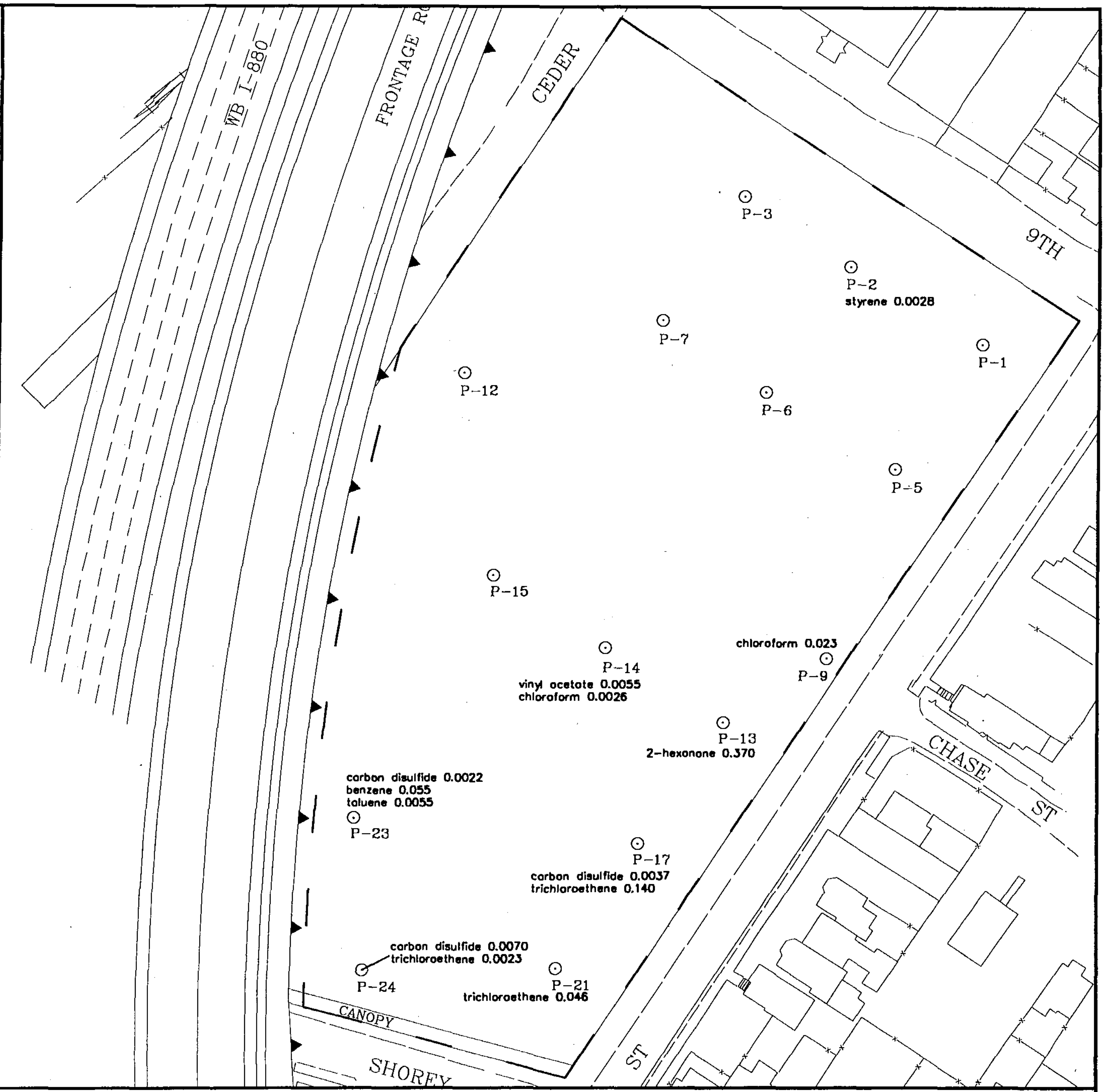
APPROVED BY

DRAWING NUMBER
776768-7R



LEGEND

⊙ P-2 — GROUNDWATER SAMPLE BORING LOCATION AND DESIGNATION

styrene 0.0028 — ORGANIC COMPOUND CONCENTRATION (milligrams per liter)

Notes:

1. All locations and dimensions are approximate.
2. Base map provided by Caltrans.
3. TDS = total dissolved solids.
4. Only results exceeding Drinking Water Standards shown.

APPROXIMATE SCALE

0 30 61 METERS
0 100 200 FEET

N

FIGURE 7

ORGANIC COMPOUND DETECTIONS IN GROUNDWATER

PHOENIX IRON WORKS
OAKLAND, CALIFORNIA

IT CORPORATION
A Member of the IT Group

PHXFIG4R.DWG/ORGANICS

DRAWING NUMBER 776768-8R

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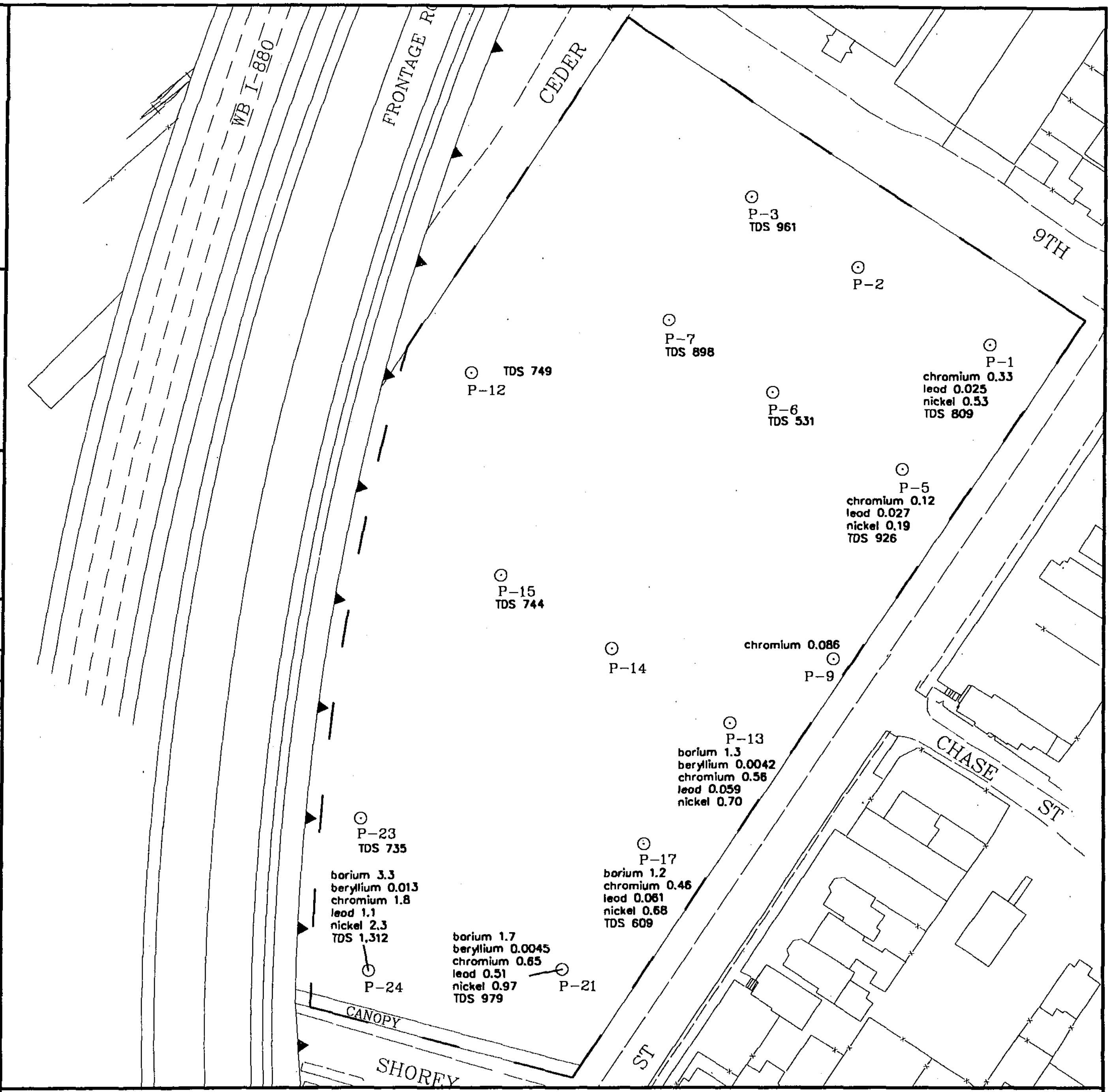

LEGEND

⊙ P-2 — GROUNDWATER SAMPLE BORING LOCATION AND DESIGNATION

lead 0.025 — HEAVY METAL OR TDS CONCENTRATION (milligrams per liter)

Notes:

1. All locations and dimensions are approximate.
2. Base map provided by Caltrans.
3. TDS = total dissolved solids.
4. Only results exceeding Drinking Water Standards shown.

APPROXIMATE SCALE

0 30 61 METERS
0 100 200 FEET

N

FIGURE 8

SELECTED INORGANIC ANALYSIS DETECTIONS IN GROUNDWATER

PHOENIX IRON WORKS
OAKLAND, CALIFORNIA

IT CORPORATION
A Member of the IT Group

PHXFIG4R.DWG/INORGANICS

B4-Table 1 Through 3 and Figures 2 Through 4 from Phase II Soil Investigation Report Prepared by Northgate Environmental Management, Inc. Dated November 9, 2011 (7 pp)

TABLE 1
Soil Sample Analytical Results - TEPH

Sample ID	Sample Depth (feet bgs)	TPH as diesel (mg/kg)	TPH as motor oil (mg/kg)
NG-1-1.0	1.0	**630**	**2,700**
NG-1-3.0	3.0	< 0.1	**14**
NG-1-5.0	5.0	< 0.1	**13**
NG-2-1.0	1.0	**4.4**	**130**
NG-2-1.0-D	1.0	< 0.1	**77**
NG-2-3.0	3.0	< 0.1	**8.1**
NG-2-5.0	5.0	< 0.1	< 2.0
NG-3-1.0	1.0	< 0.1	**190**
NG-3-1.0-D	1.0	< 0.1	**990**
NG-3-3.0	3.0	< 0.1	< 2.0
NG-3-5.0	5.0	< 0.1	< 2.0
NG-4-1.0	1.0	< 0.1	< 2.0
NG-4-3.0	3.0	< 0.1	**4.8**
NG-4-5.0	5.0	< 0.1	< 2.0
NG-5-1.0	1.0	< 0.1	**28**
NG-5-3.0	3.0	< 0.1	**6.9**
NG-5-5.0	5.0	< 0.1	< 1.53
Regulatory Standards			
RWQCB ESL - Residential		83	370
RWQCB ESL - Commercial/Industrial		83	2,500
RWQCB ESL - Construction Worker		4,200	12,000

NOTES:

TPH: Total Petroleum Hydrocarbons

mg/kg: milligrams per kilogram (parts per million)

<: Not detected at or above the indicated Practical Quantitation Limit (PQL)

RWQCB ESL - Residential: From Table A-1, Shallows Soil Screening Levels, Residential Land Use (RWQCB, 2008)

RWQCB ESL - Commercial From Table A-2, Shallows Soil Screening Levels, Commercial/Industrial Land Use (RWQCB, 2008)

RWQCB ESL - Construction Worker: Values from Table K-3, Direct Exposure Soil Screening Levels, Construction/Trench Worker Exposure Scenario (RWQCB, 2008)

TABLE 2
Soil Sample Analytical Results - Metals

		ANALYTE																	
		Antimony	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Copper**	**Lead**	**Soluble Lead***	**Mercury**	**Molybdenum**	**Nickel**	**Selenium**	**Silver**	**Thallium**	**Vanadium**	**Zinc**
Soil Sample ID	**Sample Depth**	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NG-1-1.0	1.0	<5.0	**9.3**	**64**	<2.0	<1.0	**21**	6.3	**71**	**99**	**6.1**	<0.10	<5.0	**21**	<5.0	<1.0	<5.0	**36**	**160**
NG-1-3.0	3.0	**5.1**	**65**	**170**	<2.0	**1.7**	**21**	<5.0	**23**	**22**	--	<0.10	<5.0	**15**	<5.0	**1.2**	<5.0	**27**	**17**
NG-2-1.0	1.0	<5.0	**17**	**88**	<2.0	**2.1**	**26**	**11**	**100**	**640**	**18**	**0.13**	<5.0	**25**	<5.0	<1.0	<5.0	**25**	**260**
NG-2-1.0-D	1.0	<5.0	**4.9**	**95**	<2.0	<1.0	**33**	**6.1**	**31**	**340**	**18**	**0.10**	<5.0	**26**	<5.0	<1.0	<5.0	**23**	**140**
NG-2-3.0	3.0	<5.0	**1.7**	**46**	<2.0	<1.0	**25**	<5.0	**5.6**	**2.8**	--	<0.10	<5.0	**15**	<5.0	<1.0	<5.0	**20**	**12**
NG-3-1.0	1.0	**6.1**	**7.8**	**110**	<2.0	**1.9**	**30**	**8.4**	**94**	**350**	**29**	**0.30**	<5.0	**31**	<5.0	<1.0	<5.0	**18**	**370**
NG-3-3.0	3.0	<5.0	<1.7	**65**	<2.0	<1.0	**25**	<5.0	**6.3**	**6.3**	--	<0.10	<5.0	**16**	<5.0	<1.0	<5.0	**18**	**190**
NG-4-1.0	1.0	<5.0	<1.7	**31**	<2.0	<1.0	**27**	<5.0	<5.0	**2.2**	--	<0.10	<5.0	**18**	<5.0	<1.0	<5.0	**19**	**12**
NG-4-3.0	3.0	<5.0	<1.7	**42**	<2.0	<1.0	**23**	<5.0	**5.7**	**1.4**	--	<0.10	<5.0	**15**	<5.0	<1.0	<5.0	**18**	**10**
NG-5-1.0	1.0	<5.0	**3.5**	**100**	<2.0	<1.0	**39**	**6.5**	**40**	**520**	**3.4**	<0.10	<5.0	**33**	<5.0	<1.0	<5.0	**25**	**190**
NG-5-3.0	3.0	<5.0	**7.4**	**64**	<2.0	<1.0	**53**	**11**	**150**	**180**	--	**0.24**	<5.0	**56**	<5.0	<1.0	<5.0	**26**	**93**
NG-6-1.0	1.0	<5.0	**2.8**	**96**	<2.0	<1.0	**23**	<5.0	**22**	**180**	**5.2**	<0.10	<5.0	**18**	<5.0	<1.0	<5.0	**20**	**49**
NG-6-3.0	3.0	<5.0	<1.7	**49**	<2.0	<1.0	**26**	**5.4**	**6.4**	**2.1**	--	<0.10	<5.0	**17**	<5.0	<1.0	<5.0	**20**	**12**
NG-7-1.0	1.0	<5.0	<1.7	**53**	<2.0	<1.0	**26**	<5.0	**6.5**	**5.8**	--	<0.10	<5.0	**19**	<5.0	<1.0	<5.0	**19**	**16**
NG-7-3.0	3.0	<5.0	<1.7	**40**	<2.0	<1.0	**29**	<5.0	**5.6**	**1.3**	--	<0.10	<5.0	**15**	<5.0	<1.0	<5.0	**18**	**10**
NG-8-1.0	1.0	<5.0	<1.7	**58**	<2.0	<1.0	**26**	<5.0	**6.5**	**10**	--	<0.10	<5.0	**16**	<5.0	<1.0	<5.0	**19**	**19**
NG-8-3.0	3.0	<5.0	<1.7	**38**	<2.0	<1.0	**24**	<5.0	**5.2**	**1.3**	--	<0.10	<5.0	**15**	<5.0	<1.0	<5.0	**19**	**9.7**
NG-9-1.0	1.0	<5.0	**3.0**	**62**	<2.0	<1.0	**39**	**6.5**	**11**	**21**	--	<0.10	<5.0	**33**	<5.0	<1.0	<5.0	**26**	**34**
NG-9-3.0	3.0	<5.0	<1.7	**47**	<2.0	<1.0	**27**	<5.0	**5.4**	**1.8**	--	<0.10	<5.0	**15**	<5.0	<1.0	<5.0	**19**	**11**
NG-10-1.0	1.0	<5.0	**3.6**	**200**	<2.0	<1.0	**26**	<5.0	**34**	**460**	**58**	**0.54**	<5.0	**18**	<5.0	<1.0	<5.0	**20**	**240**
NG-10-3.0	3.0	<5.0	<1.7	**32**	<2.0	<1.0	**25**	<5.0	**5.1**	**1.6**	--	<0.10	<5.0	**16**	<5.0	<1.0	<5.0	**18**	**9.2**
NG-11-1.0	1.0	<5.0	**2.6**	**180**	<2.0	<1.0	**21**	<5.0	**45**	**200**	**3.9**	**0.29**	<5.0	**16**	<5.0	<1.0	<5.0	**16**	**470**
NG-11-3.0	3.0	<5.0	**1.7**	**49**	<2.0	<1.0	**27**	<5.0	**7.3**	**4.9**	--	<0.10	<5.0	**15**	<5.0	<1.0	<5.0	**21**	**130**
NG-12-1.0	1.0	<5.0	**1.8**	**49**	<2.0	<1.0	**25**	<5.0	**6.8**	**25**	--	<0.10	<5.0	**16**	<5.0	<1.0	<5.0	**20**	**27**
NG-12-3.0	3.0	<5.0	<1.7	**44**	<2.0	<1.0	**26**	<5.0	**9.3**	**1.9**	--	<0.10	<5.0	**15**	<5.0	<1.0	<5.0	**20**	**11**
NG-13-1.0	1.0	**15**	**9.2**	**1,100**	<2.0	**4.9**	**54**	<5.0	**150**	**2,900**	--	**0.27**	<5.0	**30**	<5.0	<1.0	<5.0	**21**	**2000**
NG-13-1.0-D	1.0	<5.0	**3.5**	**82**	<2.0	<1.0	**29**	**8.4**	**26**	**200**	**520**	**0.22**	<5.0	**19**	<5.0	<1.0	<5.0	**22**	**100**
NG-13-3.0	3.0	<5.0	<1.7	**43**	<2.0	<1.0	**23**	<5.0	<5.0	**6.1**	--	<0.10	<5.0	**15**	<5.0	<1.0	<5.0	**17**	**610**

TABLE 2
Soil Sample Analytical Results - Metals

		ANALYTE																	
		Antimony	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Copper**	**Lead**	**Soluble Lead***	**Mercury**	**Molybdenum**	**Nickel**	**Selenium**	**Silver**	**Thallium**	**Vanadium**	**Zinc**
Soil Sample ID	**Sample Depth**	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Regulatory Standards																			
CHHSLs - Residential		30	0.07	5,200	150	1.7	100,000	660	3,000	80	ne	18	380	1,600	380	380	5.0	530	23,000
CHHSLs - Commercial/Industrial		380	0.2	63,000	1,700	7.5	100,000	3,200	38,000	320	ne	180	4,800	16,000	4,800	4,800	63	6,700	100,000
RWQCB ESL - Construction Worker		310	15	2,600	98	39	1,200,000	94	310,000	750	ne	58	3,900	260	3,900	3,900	62	770	230,000
Background Metals - City of Oakland		<3 -7.1	1.8-31	ne	<0.25 - 1.1	<0.25 - 3.3	24.8 - 99.7	ne	11.8 - 99.7	3.3 - 144.3	ne	<0.1 - 7.0	ne	2.9 - 144.3	ne	ne	ne	ne	9.3 - 474
TTLC		500	500	10,000	75	100	2,500	8,000	2,500	1,000	5**	20	3,500	2,000	100	500	700	2,400	5,000

NOTES:

mg/kg: milligrams per kilogram (parts per million)
<: Not detected at or above the indicated laboratory practical quantitation limit
ne: Not established
--: Not analyzed
CHSSLs - Residential: California Human Health Screening Level for residential land use established by California EPA (September 2009, January 2005)
CHSSLs -Commercial/Industrial: California Human Health Screening Level for commercial/industrial land use established by California EPA (September 2009, January 2005)
RWQCB ESL - Construction Worker: Values from Table K-3, Direct Exposure Soil Screening Levels, Construction/Trench Worker Exposure Scenario (RWQCB, 2008)
Background Metals - City of Oakland: 'Values taken from City of Oakland Urban Land Redevelopment Program, Survey of Background Metal Concentration Studies, 1995.
TTLC: Total Threshold Limit Concentration for defining a waste as a hazardous waste
STLC: Soluble Threshold Limit Concentration for defining a waste as a hazardous waste
*: Soluable lead determined using the California Waste Extraction Test
** : STLC

TABLE 3
Soil Sample Analytical Results - SVOCs

Soil Sample ID	Sample Depth (feet bgs)	Fluoranthene mg/kg	Pyrene mg/kg
NG-6-1.0	1.0	**21 J**	**25 J**
NG-6-3.0	3.0	<0.132	<0.147
NG-6-5.0	5.0	<0.132	<0.147
NG-7-1.0	1.0	<0.132	<0.147
NG-7-1.0-D	1.0	<20.1	<22.3
NG-7-3.0	3.0	<0.132	<0.147
NG-7-5.0	5.0	<0.132	<0.147
NG-8-1.0	1.0	<0.132	<0.147
NG-8-3.0	3.0	<0.132	<0.147
NG-8-5.0	5.0	<0.132	<0.147
NG-9-1.0	1.0	<0.132	<0.147
NG-9-3.0	3.0	<0.132	<0.147
NG-9-5.0	5.0	<0.132	<0.147
NG-10.1.0	1.0	<20.1	<22.3
NG-10-1.0-D	1.0	<0.132	<0.147
NG-10-3.0	3.0	<0.132	<0.147
NG-10-5.0	5.0	<0.132	<0.147
NG-11-1.0	1.0	<0.132	<0.147
NG-11-3.0	3.0	<0.132	<0.147
NG-11-5.0	5.0	<0.132	<0.147
NG-12-1.0	1.0	<40.1	<44.5
NG-12-3.0	3.0	<0.132	<0.147
NG-12-5.0	5.0	<0.132	<0.147
NG-13-1.0	1.0	<80.2	<89.0
NG-13-1.0-D	1.0	<20.1	<22.3
NG-13-3.0	3.0	<0.132	<0.147
NG-13-5.0	5.0	<0.132	<0.147
Regulatory Standards			
RWQCB ESL - Residential		40	85
RWQCB ESL - Commercial/Industrial		40	85
RWQCB ESL - Construction Worker		14,000	21,000

NOTES:

mg/kg: milligrams per kilogram (parts per million)

J: Indicates a value between the method detection limit and the practical quantitiation limit and that the reported concentration should be considered as estimated

<: Not detected at or above the indicated laboratory practical quantitation limit

RWQCB ESL - Residential: From Table A-1, Shallows Soil Screening Levels, Residential Land Use (RWQCB, 2008)

RWQCB ESL - Commercial/Industrial: From Table A-2, Shallows Soil Screening Levels, Commercial/Industrial Land Use (RWQCB, 2008)

RWQCB ESL - Construction Worker: Values from Table K-3, Direct Exposure Soil Screening Levels, Construction/Trench Worker Exposure Scenario (RWQCB, 2008)

LEGEND:

● Soil boring locations

P-25 △ 1999 Soil borings

▬ ▪ ▬ Approximate site boundary

▬ ▬ ▬ Site boundary from PEA Report (1993)

0 50 100

Scale (Feet)

N

FIGURE 2
Site Plan

800 Cedar Street
Oakland, California

northgate
environmental management, inc.

Project No. 1204.18

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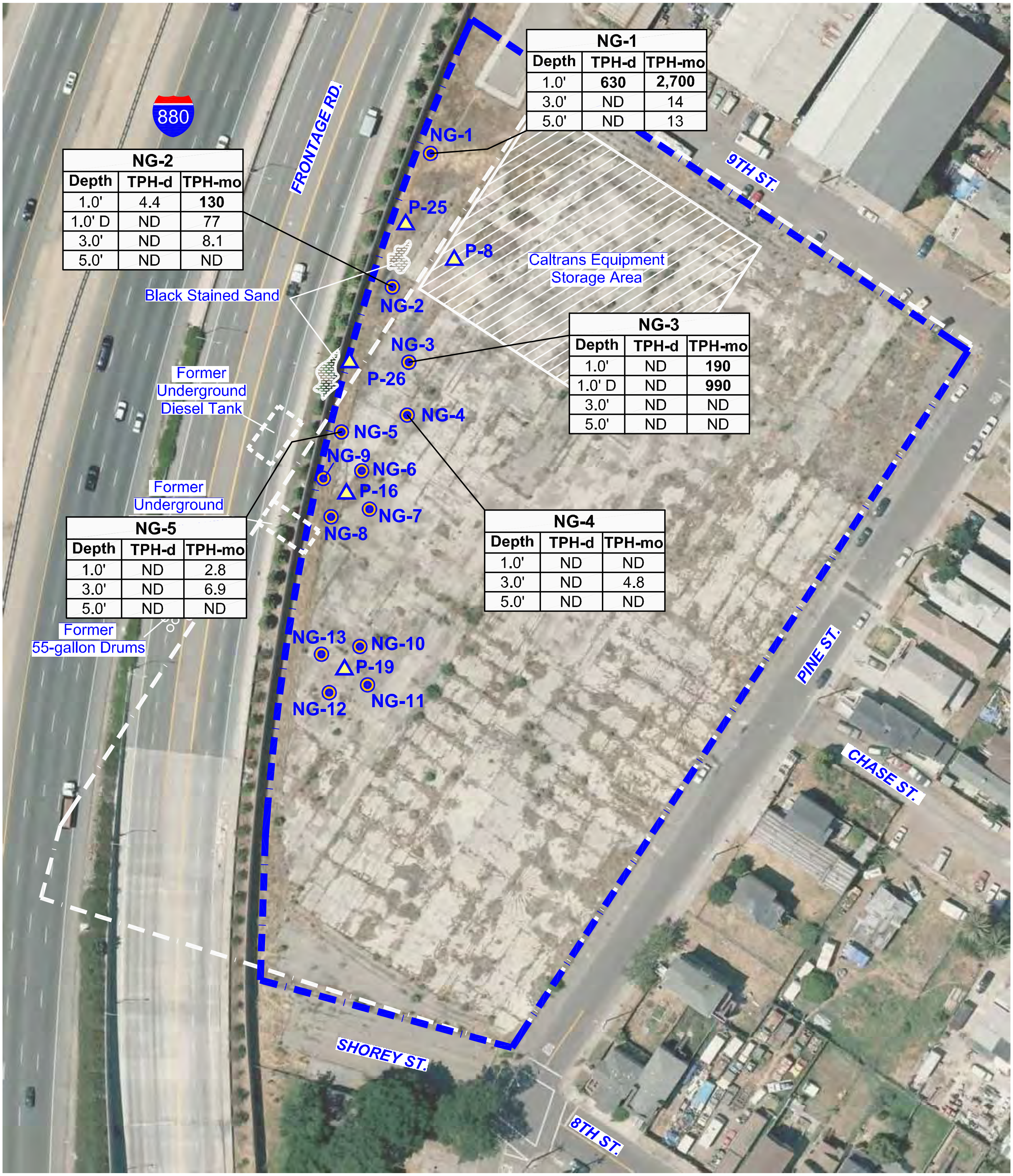

NG-1

Depth	TPH-d	TPH-mo
1.0'	**630**	**2,700**
3.0'	ND	14
5.0'	ND	13

NG-2

Depth	TPH-d	TPH-mo
1.0'	4.4	**130**
1.0' D	ND	77
3.0'	ND	8.1
5.0'	ND	ND

NG-3

Depth	TPH-d	TPH-mo
1.0'	ND	**190**
1.0' D	ND	**990**
3.0'	ND	ND
5.0'	ND	ND

NG-4

Depth	TPH-d	TPH-mo
1.0'	ND	ND
3.0'	ND	4.8
5.0'	ND	ND

NG-5

Depth	TPH-d	TPH-mo
1.0'	ND	2.8
3.0'	ND	6.9
5.0'	ND	ND

LEGEND:

◉ Soil boring locations

P-25 △ 1999 Soil borings

▬ ▬ Approximate site boundary

▬ ▬ Site boundary from PEA Report (1993)

Notes:
- Data in mg/Kg
- **Bold** = Exceeds RWQCB ESL of 83 mg/Kg for TPH-d and TPH-mo

N

0 50 100

Scale (Feet)

FIGURE 3
TPH Concentrations in Soil

800 Cedar Street
Oakland, California

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Project No. 1204.18

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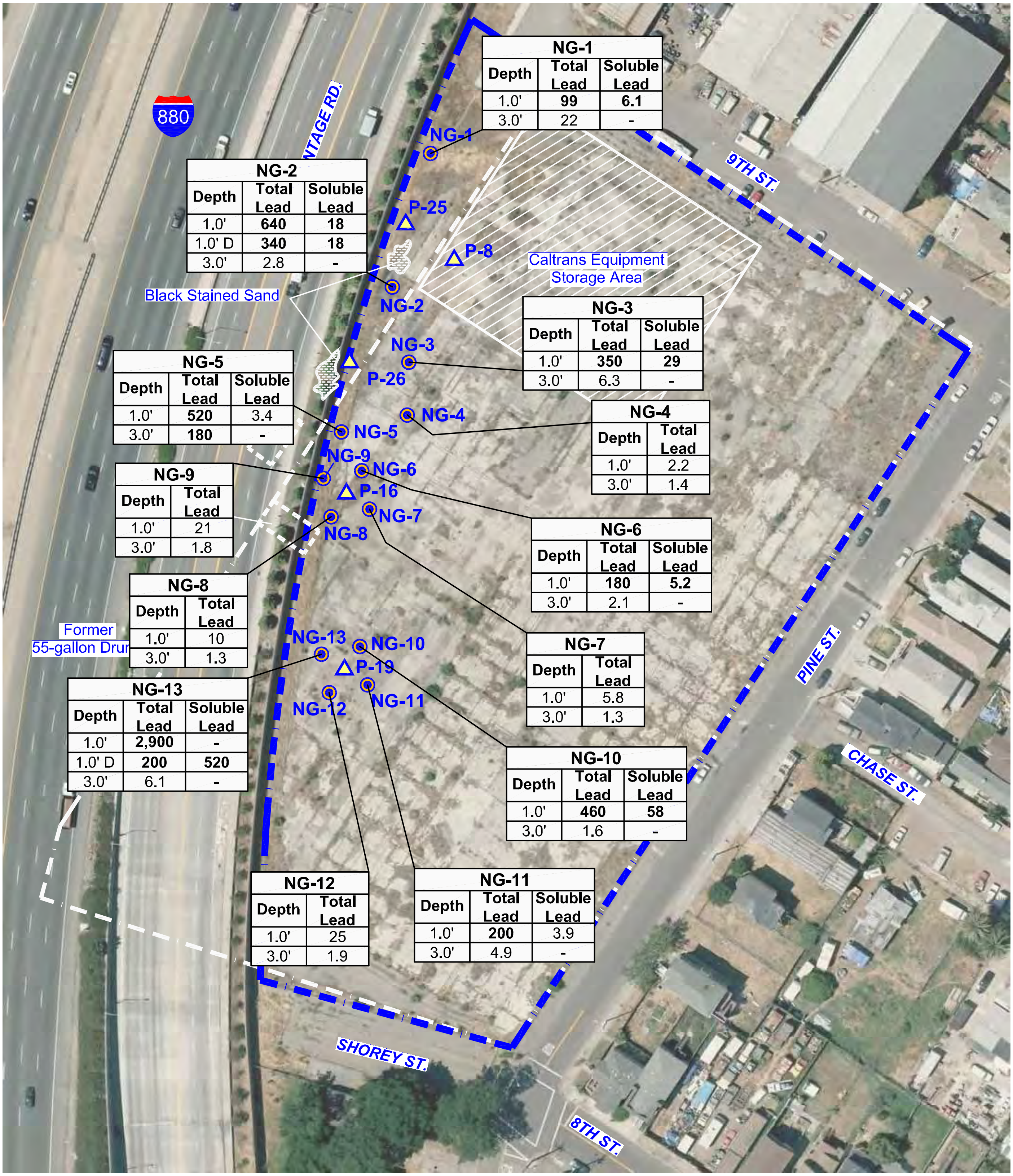

NG-1

Depth	Total Lead	Soluble Lead
1.0'	**99**	**6.1**
3.0'	22	-

NG-2

Depth	Total Lead	Soluble Lead
1.0'	**640**	**18**
1.0' D	**340**	**18**
3.0'	2.8	-

NG-3

Depth	Total Lead	Soluble Lead
1.0'	**350**	**29**
3.0'	6.3	-

NG-4

Depth	Total Lead
1.0'	2.2
3.0'	1.4

NG-5

Depth	Total Lead	Soluble Lead
1.0'	**520**	3.4
3.0'	**180**	-

NG-6

Depth	Total Lead	Soluble Lead
1.0'	**180**	**5.2**
3.0'	2.1	-

NG-7

Depth	Total Lead
1.0'	5.8
3.0'	1.3

NG-8

Depth	Total Lead
1.0'	10
3.0'	1.3

NG-9

Depth	Total Lead
1.0'	21
3.0'	1.8

NG-10

Depth	Total Lead	Soluble Lead
1.0'	**460**	**58**
3.0'	1.6	-

NG-11

Depth	Total Lead	Soluble Lead
1.0'	**200**	3.9
3.0'	4.9	-

NG-12

Depth	Total Lead
1.0'	25
3.0'	1.9

NG-13

Depth	Total Lead	Soluble Lead
1.0'	**2,900**	-
1.0' D	**200**	**520**
3.0'	6.1	-

LEGEND:

● Soil boring locations

P-25 △ 1999 Soil borings

▬ ▪ ▬ Approximate site boundary

▬ ▪ ▬ Site boundary from PEA Report (1993)

Notes:
- Data in mg/Kg
- **Bold** = Exceeds Residential CHHSL of 80 mg/Kg for Total Lead and STLC of 5 mg/Kg for Soluble Lead
- Soluble lead based on the WET

0 50 100

Scale (Feet)

N

FIGURE 4
Lead Concentrations in Soil

800 Cedar Street
Oakland, California

northgate
environmental management, inc.

Project No. 1204.18

G:\Projects\Temp\1204 City of Oakland\1204.18 800 Cedar\1204.18 Figures\Phase II Rpt\Figure 3-4 - TPH-Lead-Soil.dwg Layout: Fig4 Lead User: oleg Sep 15, 2011 - 3:00pm

B5-Table 1 Through 2B and Figure 2 from Limited Subsurface Investigation Report Prepared by P&D Environmental, Inc. Dated September 5, 2017 (4 pp)

Table 1
Summary of Borehole Groundwater Sample Analytical Results

Sample ID	Sample Date	TPH-G	TPH-D	TPH-MO	TPH-BO	MTBE	Benzene	Toluene	Ethylbenzene	Total Xylenes	Other VOCs Using EPA Method 8260
GW1	8/10/2017	ND<50	63, a,b	120, a,b	130, a,b	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND
GW2	8/11/2017	ND<50	ND<38	ND<82	ND<110	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND, except
											PCE = 2.1
ESL[1]		100	100	50,000	50,000	5.0	1.0	40	13	20	PCE = 3.0
ESL[2]		No Value	No Value	No Value	No Value	1,200	1.1	3,600	13	1,300	PCE = 3.0
ESL[3]		No Value	No Value	No Value	No Value	11,000	9.7	30,000	110	11,000	PCE =26

NOTES:
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
TPH-D = Total Petroleum Hydrocarbons as Diesel.
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil.
TPH-BO = Total Petroleum Hydrocarbons as Bunker Oil.
MTBE = Methyl-tert-Butyl Ether.
VOCs = Volatile Organic Compounds.
PCE = Tetrachloroethene
ND = Not Detected.
a = Laboratory note: oil range compounds are significant.
b = Laboratory note: diesel range compounds are significant; no recognizable pattern.
ESL[1] = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated February 2016 (Revision 3), Groundwater Tier 1 ESL from Summary of Groundwater ESLs.
ESL[2] = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated February 2016 (Revision 3), from Table GW-3 – Groundwater Vapor Intrusion Human Health Risk Screening Levels. Shallow Groundwater. Sand Scenario. Residential Land Use.
ESL[3] = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated February 2016 (Revision 3), from Table GW-3 – Groundwater Vapor Intrusion Human Health Risk Screening Levels. Shallow Groundwater. Sand Scenario. Commercial/Industrial Land Use.
Results and ESLs reported in micrograms per liter (μg/L) unless otherwise indicated.

Table 2A

Summary of Sub-Slab Soil Gas Sample Analytical Results

Sample ID	Land Use	Sample Date	Probe Depth (Feet bgs)	Benzene	Toluene	Ethyl-benzene	m,p-Xylenes	o-Xylenes	PCE	TCE	cis-1,2-DCE	Vinyl Chloride	Other VOCs by EPA Method TO-15	DFA	Percent Shroud
SG1	Commercial	8/14/2017	5.5	ND<3.19	4.11	ND<4.34	ND<8.68	ND<4.34	ND<6.78	ND<5.37	ND<3.97	ND<2.56	ND, except Chloroform = **82.5**, Trichlorofluoromethane = 16.3	ND<27,014	0
SG2	Commercial	8/14/2017	5.5	ND<3.19	10.6	ND<4.34	ND<8.68	ND<4.34	28.6	**447**	ND<3.97	ND<2.56	ND, except Chloroform = **132**	ND<27,014	0
SG2 DUP	Commercial	8/14/2017	5.5	ND<3.19	10.4	ND<4.34	ND<8.68	ND<4.34	28.2	**441**	ND<3.97	ND<2.56	ND, except Chloroform = **128**	ND<27,014	0
SG3	Commercial	8/14/2017	5.5	ND<3.19	ND<3.77	ND<4.34	ND<8.68	ND<4.34	42.6	ND<5.37	ND<3.97	ND<2.56	ND, except Chloroform = 14.8, Methylene Chloride = 4.27, 1,1,1-TCA = 21.3, Trichlorofluoromethane = 6.01	ND<27,014	0
ESL[1]				*48*	*160,000*	*560*	*Combined = 52,000*		*240*	*240*	*4,200*	*4.7*	*Chloroform = 61,* *Methylene Chloride = 510,* *1,1,1-TCA = 520,000,* *Trichlorofluoromethane = No Value*	*No Value*	*No Value*
ESL[2]				*420*	*1,300,000*	*4,900*	*Combined = 440,000*		*2,100*	*3,000*	*35,000*	*160.0*	*Chloroform = 530,* *Methylene Chloride = 12,000,* *1,1,1-TCA = 4,400,000,* *Trichlorofluoromethane = No Value*	*No Value*	*No Value*

Notes:

Feet bgs = Feet Below Ground Surface.

PCE = Tetrachloroethene.

TCE = Trichloroethene.

cis-1,2-DCE = cis-1,2-Dichloroethene.

1,1,1-TCA = 1,1,1-Trichloroethane.

DFA = 1,1-Difluoroethane. (tracer gas)

ND = Not Detected.

Percent Shroud = The ratio of tracer gas concentration detected in the soil gas sample to the tracer gas concentration detected in the shroud air sample, expressed as a percentage.

ESL[1] = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated February 2016 (Revision 3), from Table SG1 – Subslab/Soil Gas Vapor Intrusion:

Human Health Risk Levels for Residential Land Use.

ESL[2] = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated February 2016 (Revision 3), from Table SG1 – Subslab/Soil Gas Vapor Intrusion:

Human Health Risk Levels for Commercial/Industrial Land Use.

BOLDED concentrations exceed their respective ESL[1] value.

Results and ESLs in micrograms per cubic meter (µg/m3), unless otherwise indicated.

Table 2B
Summary of Shroud Air Sample Analytical Results

Sample ID	Sample Date	DFA, #
SG1 DFA	8/14/2017	1,072,468.3
SG2 DFA	8/14/2017	71,587.93
SG3 DFA	8/14/2017	3,079,631.9

Notes:

= 1,1-Difluoroethane (DFA) used as leak detection compound for TO-15 analysis.

Results in micrograms per cubic meter (ug/m^3), unless otherwise indicated.

Figure 2
Site Aerial Photograph Showing Sample Collection Locations
Phoenix Iron Works
800 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 50 100
Approximate Scale in Feet

N

P&D ENVIRONMENTAL, INC.
55 Santa Clara Avenue, Suite 240
Oakland, CA 94610
(510) 658-6916

September 5, 2017
Report 0772.R1

Mr. Rick Holliday
Holliday Development, LLC
1201 Pine Street, Suite 151
Oakland, CA 94607

SUBJECT: LIMITED SUBSURFACE INVESTIGATION REPORT
(GW1, GW2, and SG1 Through SG3)
Former Phoenix Iron Works
800 Pine Street
Oakland, CA

Dear Mr. Holliday:

P&D Environmental, Inc. (P&D) has prepared this report documenting a limited subsurface investigation performed at 800 Pine Street in Oakland, California (historically known as 800 Cedar Street, however Cedar Street no longer exists). The purpose of the investigation was to perform a limited evaluation of the presence of Volatile Organic Compounds (VOCs) that were historically detected at the subject site. A total of two boreholes, designated as GW1 and GW2, were hand augered to depths of 10.2 and 10.0 feet below the ground surface (bgs), respectively, on August 10 and 11, 2017 for groundwater grab sample collection. Additionally, three soil gas wells, designated as SG1, SG2, and SG3 were installed on August 10, 2017 with the collection of soil gas samples from the soil gas wells for the evaluation of VOCs in soil gas at the site on August 14, 2017.

A Site Location Map is attached as Figure 1 and a Site Aerial Photograph showing the sample collection locations is attached as Figure 2. All work was performed under the direct supervision of a professional geologist.

BACKGROUND

A search of the State Water Resources Control Board's (SWRCB) Geotracker website lists the subject site address as 888 Cedar Street and as an active Leaking Underground Storage Tank (LUST) site. There are no documents associated with the Geotracker case for the subject site, except for a directive letter from the Alameda County Department of Environmental Health (ACDEH) dated July 3, 2008 outlining Geotracker upload requirements for the site.

A search of the ACDEH Local Oversight Program's (LOP) website shows various miscellaneous historical documents and correspondence including the following documents:

- Preliminary Endangerment Assessment (PEA) Volume II for 800 Cedar Street dated November 1993 and prepared by On-Site Technologies (OST),

- Underground Storage Tank Closure Report for Cypress "B" Freeway Reconstruction Project - Phoenix 800 Area "T" dated November 27, 1995 and prepared by OGISO Environmental.

Review of the November 1993 PEA shows that OST reports that the site is located along a portion of the then proposed reconstruction of the I-880 Cypress structure by the California Department of Transportation (Caltrans). The original Cypress structure was demolished following its collapse during the Loma Prieta Earthquake in 1989. Additionally, the PEA identifies the following company names and past site activities:

- The Dunn Cracker Co. from approximately 1889 to 1902,
- California Bedding & Upholstery Co. from approximately 1902 to 1912,
- A soap factory from some period of time between 1912 and 1931,
- California Fireworks from approximately 1923 to 1927,
- Independent Iron Works from 1924 to approximately 1960,
- Pine Iron Works from some unknown time until 1990,
- J&A Machine shop from 1985 through at least the date of the PEA,
- Phoenix Iron Works from approximately 1970 through at least the date of the PEA,
- Michael Bondi Metal Design from 1985 through at least the date of the PEA,
- Cypress Auto Parts from 1970 through at least the date of the PEA, and
- Ivan's Auto Body, Unknown Plastic Bag Co., Vennell Steel, and Terminal Manufacturing were located at the subject site at unknown dates and for unknown durations.

A search of the Department of Toxic Substances Control (DTSC) Envirostor website shows that the site is listed as a Voluntary Cleanup site located at 800 Cedar Street and as an Inactive open case as of September 3, 2010. The Envirostor summary page for the site lists only diesel as a potential contaminant of concern and only soil for a potentially impacted media. The Envirostor summary page also states that the site is part of the Cypress Freeway Reconstruction Project as well as having been historically used as an iron works plant that occupied the entire block bounded by Shorey, 9th, Pine, and Cedar (no longer exists) Streets. When the iron works plant went out of business, the building was subdivided into 5 bays and subsequently leased to commercial tenants including machine shops, iron works, auto parts dismantlers, and other manufacturing. The subject site building is reported to have been demolished in July 1995. The former location of Cedar Street (west side of subject site) is shown on Figure 2.

Envirostor also mentions the approval of proposed excavation of 104 cubic yards of soil on January 13, 1998 and the last available activity listed is dated February 27, 2012 and states that sampling activities were complete and that results were expected in 60 days. Among the documents on Envirostor were the following:

- Site Investigation Report for Highway 880, Cypress Reconstruction - Area 4 dated August 28, 1992 and prepared by Geo/Resource Consultants, Inc.,
- Sampling and Analysis Plan Phase II Soil Investigation for 800 Cedar Street dated July 14, 2011 and prepared by Northgate Environmental Management, Inc. (Northgate)

Other documents obtained and reviewed by P&D are as follows:

- Site Investigation Report for 800 Cedar Street dated March 8, 2000 and prepared by IT Corporation,
- Phase II Soil Investigation Report for 800 Cedar Street dated November 9, 2011 and prepared by Northgate,
- Soil Stockpile Sampling Report for 800 Cedar Street dated December 31, 2013 and prepared by Geocon Consultants, Inc.

FIELD ACTIVITIES

Prior to performing field activities, drilling permits W2017-0632 and W2017-0633 were obtained from Alameda County Public Works Agency (ACPWA), site access was arranged, the drilling locations were marked with white paint, Underground Service Alert was notified for underground utility location, a health and safety plan was prepared, and notification of the drilling dates was provided to ACPWA.

Continuous Coring and Groundwater Sample Collection

P&D personnel oversaw hand augering at locations GW1 and GW2 on August 10 and 11, 2017, respectively, (see Figure 2) for the collection of groundwater grab samples to evaluate the presence of VOCs in groundwater at the subject site.

All hand augering was performed by IMX, Inc. of Oakland, California (IMX) using a 3.5-inch outside diameter hand auger. Borehole GW1 was hand augered on August 10, 2017 to a total depth of 10.2 feet bgs and borehole GW2 was hand augered on August 11, 2017 to a total depth of 10.0 feet bgs.

The soil from the boreholes was logged in the field in accordance with standard geologic field techniques and the Unified Soil Classification System (USCS), and was evaluated with a Photoionization Detector (PID) equipped with a 10.6 eV bulb that was calibrated with a 100 parts per million (ppm) isobutylene standard. The soil was also evaluated for other evidence of contamination such as odors, staining, and discoloration. No elevated PID values, odors, staining, or discoloration were detected in the boreholes. Copies of the boring logs are attached with this report in Appendix A.

Groundwater was first encountered in boreholes GW1 and GW2 at depths of approximately 8.2 and 8.7 feet bgs, respectively. Following verification of the presence of groundwater in each borehole a temporary 1-inch diameter slotted PVC pipe was placed into the borehole. One groundwater grab sample was collected from each of boreholes GW1 and GW2 directly from the discharge tubing into 40-milliliter Volatile Organic Analysis (VOA) vials that contained hydrochloric acid and also into unpreserved 1-liter amber glass containers which all were sealed with Teflon-lined screw caps. The VOA vials were overturned and tapped to ensure that no air bubbles were present, and the bottles were then labeled and transferred to a cooler with ice until they were transported to the laboratory. Chain of custody procedures were observed for all sample handling. No odor or sheen was detected on the water purged from either of the boreholes or on any of the water samples. No subsequent water levels were measured.

Boreholes GW1 and GW2 were grouted on August 10 and 11, 2017, respectively, with neat cement using the temporary PVC casing as a tremie pipe. All drilling and sampling equipment was cleaned with an Alconox solution followed by a clean water rinse prior to use in each borehole, and all temporary PVC casing and tubing used for sample collection was new and unused. All soil generated during subsurface investigation was stored in a 55-gallon drum at the site and labeled pending characterization and proper disposal.

Soil Gas Well Construction and Soil Gas Sample Collection

Three soil gas wells, designated as SG1 through SG3 were constructed on August 10, 2017 and soil gas samples were collected on August 14, 2017 in accordance with procedures recommended in the following DTSC documents:

- July 2015 Advisory - Active Soil Gas Investigations.
- August 2015 - FAQ for the 2012 Active Soil Gas Investigations Advisory.
- October 2011 - Vapor Intrusion Guidance.
- October 2011 - Vapor Intrusion Mitigation Advisory.

The soil gas wells were constructed each to a depth of 6 feet bgs at locations SG1 through SG3 (see Figure 2) with a 3.5-inch outside diameter hand auger. The soil from each boring was logged in the field in accordance with standard geologic field techniques and the USCS, and all of the soil from the boreholes was evaluated with a PID as described above for boreholes GW1 and GW2. No elevated PID values were measured and no petroleum hydrocarbon odors were noted in the soil from any of the hand augered soil gas well boreholes.

Copies of the boring logs for the soil gas well boreholes are attached with this report as Appendix A.

Each soil gas well was constructed with a 1-foot long filter pack in the bottom of the borehole consisting of #2/12 Lonestar sack sand. A 0.250-inch outside diameter (0.187-inch inside diameter) polyethylene tube with a HDPE filter at the bottom of the tube was placed in the center of the borehole during placement of the sand so that the HDPE filter was located in the center of the sand interval. The annular space above the sand was filled with hydrated bentonite to a height of 0.5 feet above the top of the sand, and the remaining borehole annular space was filled with neat cement to approximately 0.5 feet below the ground surface. The top of the tubing for each soil gas well was enclosed with a Swagelok nut and the top of each soil gas well was enclosed in a well box with a lid secured with bolts.

Following construction, the soil gas wells were not sampled for a minimum of 48 hours. Additionally, no precipitation occurred during the five days prior to the sampling date of August 14, 2017.

A soil gas sampling manifold with a 1-liter Summa canister as the sampling canister for each location (see Figure 3) was assembled in a shroud consisting of a 35-gallon Rubbermaid bin that had been modified by cutting viewing ports into the sides of the shroud and covering the viewing ports with transparent polycarbonate sheets. A hole measuring approximately two inches square in the bottom of the shroud allowed the shroud to cover the soil gas well while still allowing access to the soil gas well through the bottom of the shroud. At the time that the sampling manifold was assembled, the vacuum for the sample canister was verified with a vacuum gauge and recorded.

Prior to sampling each soil gas well, a 10 minute shut-in test of the sampling manifold was performed by closing the valve located between the filter and the pressure gauge, opening the purge canister valve, and recording the manifold system vacuum (see Figure 3). Following successful verification of the manifold shut-in test, a default of 3 purge volumes was purged prior to sample collection. The purge time was calculated using a nominal flow rate provided by the flow controller of 150 cubic centimeters per minute. A copy of the purge volume calculation sheet is attached with this report as Appendix B.

Following completion of the soil gas well purging, a lid was placed onto the shroud and a tracer gas 1,1-Difluoroethane (DFA) was sprayed into the shroud interior for one second through a tube connected to a hole in the side of the shroud. Gloves in the lid of the shroud were used to open the sample canister valve. An air sample was collected from the shroud atmosphere to quantify the shroud tracer gas concentration while the soil gas sample was being collected. The shroud atmosphere sample was collected into a Tedlar bag that was placed into a vacuum chamber with the Tedlar bag inlet connected to a new piece of polyethylene tubing that was inserted into the shroud atmosphere through a hole in the side of the shroud. Following completion of Tedlar bag shroud air sample collection the Tedlar bag was placed in a cooler with the lid closed pending delivery to the laboratory.

Once the vacuum for the sample canister valve had decreased to 5 inches of mercury, the gloves in the lid of the bin were used to close the sample canister valve. The pressure gage on the inlet side of the flow controller (see Figure 3) was monitored during sample collection to ensure that the vacuum applied to the soil gas well did not exceed 100 inches of water.

One duplicate soil gas sample was collected into a 1-liter Summa canister from soil gas well SG2 using a stainless steel sampling tee for the Summa canisters using methods described above. Following soil gas sample collection, a PID was connected to the polyethylene tubing to obtain a preliminary field value for the sample collection location. The soil gas Summa canister samples were stored in a box and promptly shipped to the laboratory for extraction and analysis. Chain of custody procedures were observed for all sample handling. Measurements of vacuums, purging and equilibration time intervals, and PID readings were recorded on Soil Gas Sampling Data Sheets which are included with this report as Appendix B.

All hand augering equipment was cleaned with an Alconox solution wash followed by a clean water rinse prior to use at each location. New polyethylene tubing and a new filter were used for each soil gas well construction. Clean, unused vacuum gages and a stainless steel sampling manifold were used at each sample collection location. All soil generated during soil gas well construction was stored in a 55-gallon drum at the site and labeled pending characterization and proper disposal.

Investigation-Derived Waste Disposal

On August 14, 2017 one soil sample was collected from the drum containing soil that originated from boreholes drilled at the site on August 10 and 11, 2017. The soil sample was collected into a 2-inch diameter, 6-inch long stainless steel tube so that the tube was completely filled. The ends of the tube were sequentially covered with aluminum foil and plastic endcaps, the tube was labeled and then stored in a cooler with ice pending delivery to the laboratory for analysis. Chain of custody procedures were observed for all sample handling.

On August 30, 2017 one 55-gallon drum of soil was removed from the site as hazardous waste by Big Sky Enterprises (Big Sky) of Benicia, California for disposal at the US Ecology landfill in Beatty, Nevada using uniform hazardous waste manifest 010606361 FLE based on the detected lead concentrations in the soil sample collected from the drum. A copy of the uniform hazardous waste manifest is attached with this report as Appendix C.

GEOLOGY AND HYDROGEOLOGY

Review of regional geologic maps from U. S. Geological Survey Professional Paper 943, "Flatland Deposits - Their Geology and Engineering Properties and Their Importance to Comprehensive Planning," by E. J. Helley and K. R. Lajoie, 1979, indicates that the subject site is underlain by Pleistocene beach and dune sand deposits (Merrit Sand) (Qps), which is described as loose well-sorted find to medium sand. Immediately to the west of the western property boundary the subsurface materials are identified as Bay Mud (Qhbm), which is described as unconsolidated water-saturated dark plastic carbonaceous clay and silty clay.

The subsurface materials encountered in boreholes GW1, GW2, and SG1 through SG3 consisted of silty sand and silt to the total depth explored of 10.2 feet bgs.

Groundwater was first encountered during drilling in boreholes GW1 and GW2 at a depth of approximately 8.2 and 8.7 feet bgs, respectively. Groundwater was not encountered in boreholes SG1 through SG3.

Review of Figure 1 shows that the ground surface elevation at the site is approximately 11 feet above sea level. The San Francisco Bay is located approximately 3,800 feet to the north and approximately 5,500 feet to the west of the subject site, and the Oakland Inner Harbor which is connected to the San Francisco Bay is located approximately 5,500 feet to the south of the subject site. Based on site vicinity topography and the proximity of surface water bodies the groundwater flow direction at the site is presumed to be westerly towards the San Francisco Bay.

WEATHER

No precipitation occurred during the two weeks preceding the August 14, 2017 soil gas sample collection event, and no precipitation occurred on the day of sampling or through August 23, 2017. Weather data, including precipitation and barometric pressure for August 1 through 23, 2017, including the date of soil gas sample collection (August 14, 2017) are provided in Appendix D.

The weather station is located on Toll Plaza Beach in Oakland at an elevation of 0 feet above sea level, approximately 1.5 miles to the north-northwest of the subject site. The subject site is located at an elevation of approximately 15 feet above sea level. An internet link to the weather station information is provided in Appendix D.

LABORATORY ANALYSIS

Groundwater samples GW1 and GW2 were analyzed at McCampbell Analytical, Inc. (McCampbell) in Pittsburg, California for the following analytes:

- Total Petroleum Hydrocarbons as Gasoline (TPH-G) using EPA Method 5030B in conjunction with EPA Methods 8021B and 8015B.
- Total Petroleum Hydrocarbons as Diesel (TPH-D), Total Petroleum Hydrocarbons as Motor Oil (TPH-MO), and Total Petroleum Hydrocarbons as Bunker Oil (TPH-BO) using EPA Method 3510C and 3630C in conjunction with EPA Method 8015B.
- VOCs including the petroleum compounds methyl-tert-butyl ether (MTBE), benzene, toluene, ethylbenzene, and xylenes (MBTEX), and naphthalene, and Halogenated Volatile Organic Compounds (HVOCs) including tetrachloroethene (PCE) and trichloroethene (TCE) using EPA Method 5030B in conjunction with EPA Method 8260B.

The soil gas samples and shroud air samples were all analyzed at K Prime, Inc. in Santa Rosa, California (K Prime). The soil gas samples were analyzed for VOCs using EPA Method TO-15, and for the tracer gas DFA using EPA Method TO-3. Additionally, the shroud air samples were analyzed for the tracer gas DFA using EPA Method TO-3.

The soil sample collected from the drum of soil generated from borehole drilling was analyzed at McCampbell for the following analytes:

- TPH-G using EPA Method 5030B in conjunction with EPA Methods 8021B and 8015B.
- TPH-D and TPH-MO using EPA Method 3550B in conjunction with EPA Method 8015B.
- VOCs using EPA Method 5030B in conjunction with EPA Method 8260B.
- CAM 17 Metals using EPA Methods 3050B/6020.
- WET lead using CA Title 22 and EPA Method 6020.
- TCLP lead using EPA Methods 1311/3010 and EPA Method 6020.

The borehole groundwater grab sample laboratory analytical results are summarized in Table 1, the soil gas sample laboratory analytical results are summarized in Table 2A, and the shroud air sample results are summarized in Table 2B. Copies of the laboratory analytical reports and chain of custody documentation for all of the samples are attached with this report in Appendix E.

DISCUSSION AND RECOMMENDATIONS

Review of Table 1 shows that no VOCs were detected in either groundwater sample GW1 or GW2 except for PCE in sample GW2 at a concentration of 2.1 micrograms per Liter (ug/L). The only other analytes detected were TPH-D, TPH-MO, and TPH-BO in sample GW1 at concentrations of 63, 120, and 130 ug/L, respectively. None of the detected analyte concentrations in groundwater samples GW1 and GW2 exceed their respective San Francisco Regional Water Quality Control Board's (SFRWQCB) February 2016 (Revision 3) Tier 1 groundwater Environmental Screening Levels (ESLs) or their respective SFRWQCB February 2016 (Revision 3) Table GW-3 groundwater vapor intrusion human health risk screening levels for shallow groundwater with a sand scenario and residential land use.

Review of Table 2A shows that the tracer gas DFA was not detected in any of the soil gas samples, indicating that atmospheric dilution of the soil gas samples is not a concern. BTEX was not detected in any of the samples except for toluene in samples SG1, SG2, and duplicate SG2 DUP at concentrations of 4.11, 10.6, and 10.4 micrograms per cubic meter (ug/m^3), respectively. The following VOCs were also detected:

- PCE was detected in samples SG2, SG2 DUP, and SG3 at concentrations of 28.6, 28.2, and 42.6 ug/m^3, respectively.
- TCE was detected in sample SG2 and duplicate SG2 DUP at concentrations of 447 and 441 ug/m^3, respectively.
- Chloroform was detected in samples SG1, SG2, SG2 DUP, and SG3 at concentrations of 82.5, 132, 128, and 14.8 ug/m^3, respectively.
- Trichlorofluoromethane was detected in samples SG1 and SG3 at concentrations of 16.3 and 6.01 ug/m^3, respectively.
- Methylene chloride and 1,1,1-Trichloroethane were detected in soil gas sample SG3 at concentrations of 4.27 and 21.3 ug/m^3, respectively.

None of the detected analyte concentrations in any of the soil gas samples exceed their respective SFRWQCB February 2016 (Revision 3) Table SG1 subslab/soil gas vapor intrusion human health risk screening levels for a commercial/industrial land use scenario, however, the detected TCE concentrations in SG2 and SG2 DUP, and the chloroform concentrations detected in SG1, SG2, and SG2 DUP all exceed their respective Table SG1 subslab/soil gas vapor intrusion human health risk screening levels for a residential land use scenario.

LIMITATIONS

This report was prepared solely for the use of Holliday Development, LLC. The content and conclusions provided by P&D in this assessment are based on information collected during our investigation, which may include, but not be limited to, visual site inspections; interviews with site owner, regulatory agencies and other pertinent individuals; review of available public documents; subsurface exploration and our professional judgment based on said information at the time of preparation of this document. Any subsurface sample results and observations presented herein are considered to be representative of the area of investigation; however, geological conditions may vary between boreholes and may not necessarily apply to the general site as a whole. If future subsurface or other conditions are revealed which vary from these findings, the newly revealed conditions must be evaluated and may invalidate the findings of this report.

This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information contained herein is brought to the attention of the appropriate regulatory agencies, where required by law. Additionally, it is the sole responsibility of the owner to properly dispose of any hazardous materials or hazardous wastes left onsite, in accordance with existing laws and regulations.

This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. P&D is not responsible for the accuracy or completeness of information provided by other individuals or entities which is used in this report. This report presents our professional judgment based upon data and findings identified in this report and interpretation of such data based upon our experience and background, and no warranty, either express or implied, is made. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur.

Should you have any questions, please do not hesitate to contact us at (510) 658-6916.

Sincerely,

P&D Environmental, Inc.

Paul H. King

Paul H. King
Professional Geologist # 5901
Expires: 12/31/17

PROFESSIONAL GEOLOGIST
PAUL H. KING
No. 5901
STATE OF CALIFORNIA

Attachments:

Table 1 - Summary of Borehole Groundwater Sample Analytical Results
Table 2A - Summary of Subslab Soil Gas Sample Analytical Results
Table 2B - Summary of Shroud Air Sample Analytical Results

Figure 1 - Site Location Map
Figure 2 - Site Aerial Photograph Showing Sample Collection Locations
Figure 3 - Typical Soil Gas Sampling Manifold

Appendix A - Soil Boring Logs
Appendix B - Purge Volume Calculations and Soil Gas Sampling Data Sheet
Appendix C - Investigation-Derived Waste Disposal Documentation
Appendix D - Weather Information
Appendix E - Laboratory Analytical Reports and Chain of Custody Documentation

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TABLES

Table 1
Summary of Borehole Groundwater Sample Analytical Results

Sample ID	Sample Date	TPH-G	TPH-D	TPH-MO	TPH-BO	MTBE	Benzene	Toluene	Ethylbenzene	Total Xylenes	Other VOCs Using EPA Method 8260
GW1	8/10/2017	ND<50	63, a,b	120, a,b	130, a,b	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND
GW2	8/11/2017	ND<50	ND<38	ND<82	ND<110	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND, except PCE = 2.1
ESL[1]		100	100	50,000	50,000	5.0	1.0	40	13	20	PCE = 3.0
ESL[2]		No Value	No Value	No Value	No Value	1,200	1.1	3,600	13	1,300	PCE = 3.0
ESL[3]		No Value	No Value	No Value	No Value	11,000	9.7	30,000	110	11,000	PCE =26

NOTES:
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
TPH-D = Total Petroleum Hydrocarbons as Diesel.
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil.
TPH-BO = Total Petroleum Hydrocarbons as Bunker Oil.
MTBE = Methyl-tert-Butyl Ether.
VOCs = Volatile Organic Compounds.
PCE = Tetrachloroethene
ND = Not Detected.
a = Laboratory note: oil range compounds are significant.
b = Laboratory note: diesel range compounds are significant; no recognizable pattern.
ESL[1] = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated February 2016 (Revision 3), Groundwater Tier 1 ESL from Summary of Groundwater ESLs.
ESL[2] = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated February 2016 (Revision 3), from Table GW-3 – Groundwater Vapor Intrusion Human Health Risk Screening Levels. Shallow Groundwater. Sand Scenario. Residential Land Use.
ESL[3] = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated February 2016 (Revision 3), from Table GW-3 – Groundwater Vapor Intrusion Human Health Risk Screening Levels. Shallow Groundwater. Sand Scenario. Commercial/Industrial Land Use.
Results and ESLs reported in micrograms per liter (µg/L) unless otherwise indicated.

Table 2A

Summary of Sub-Slab Soil Gas Sample Analytical Results

Sample ID	Land Use	Sample Date	Probe Depth (Feet bgs)	Benzene	Toluene	Ethyl-benzene	m,p-Xylenes	o-Xylenes	PCE	TCE	cis-1,2-DCE	Vinyl Chloride	Other VOCs by EPA Method TO-15	DFA	Percent Shroud
SG1	Commercial	8/14/2017	5.5	ND<3.19	4.11	ND<4.34	ND<8.68	ND<4.34	ND<6.78	ND<5.37	ND<3.97	ND<2.56	ND, except Chloroform = **82.5**, Trichlorofluoromethane = 16.3	ND<27,014	0
SG2	Commercial	8/14/2017	5.5	ND<3.19	10.6	ND<4.34	ND<8.68	ND<4.34	28.6	**447**	ND<3.97	ND<2.56	ND, except Chloroform = **132**	ND<27,014	0
SG2 DUP	Commercial	8/14/2017	5.5	ND<3.19	10.4	ND<4.34	ND<8.68	ND<4.34	28.2	**441**	ND<3.97	ND<2.56	ND, except Chloroform = **128**	ND<27,014	0
SG3	Commercial	8/14/2017	5.5	ND<3.19	ND<3.77	ND<4.34	ND<8.68	ND<4.34	42.6	ND<5.37	ND<3.97	ND<2.56	ND, except Chloroform = 14.8, Methylene Chloride = 4.27, 1,1,1-TCA = 21.3, Trichlorofluoromethane = 6.01	ND<27,014	0
ESL[1]				*48*	*160,000*	*560*	*Combined = 52,000*		*240*	*240*	*4,200*	*4.7*	*Chloroform = 61,* *Methylene Chloride = 510,* *1,1,1-TCA = 520,000,* *Trichlorofluoromethane = No Value*	*No Value*	*No Value*
ESL[2]				*420*	*1,300,000*	*4,900*	*Combined = 440,000*		*2,100*	*3,000*	*35,000*	*160.0*	*Chloroform = 530,* *Methylene Chloride = 12,000,* *1,1,1-TCA = 4,400,000,* *Trichlorofluoromethane = No Value*	*No Value*	*No Value*

Notes:

Feet bgs = Feet Below Ground Surface.

PCE = Tetrachloroethene.

TCE = Trichloroethene.

cis-1,2-DCE = cis-1,2-Dichloroethene.

1,1,1-TCA = 1,1,1-Trichloroethane.

DFA = 1,1-Difluoroethane. (tracer gas)

ND = Not Detected.

Percent Shroud = The ratio of tracer gas concentration detected in the soil gas sample to the tracer gas concentration detected in the shroud air sample, expressed as a percentage.

ESL[1] = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated February 2016 (Revision 3), from Table SG1 – Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels for Residential Land Use.

ESL[2] = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated February 2016 (Revision 3), from Table SG1 – Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels for Commercial/Industrial Land Use.

BOLDED concentrations exceed their respective ESL[1] value.

Results and ESLs in micrograms per cubic meter (µg/m3), unless otherwise indicated.

Table 2B
Summary of Shroud Air Sample Analytical Results

Sample ID	Sample Date	DFA, #
SG1 DFA	8/14/2017	1,072,468.3
SG2 DFA	8/14/2017	71,587.93
SG3 DFA	8/14/2017	3,079,631.9

<u>Notes:</u>

= 1,1-Difluoroethane (DFA) used as leak detection compound for TO-15 analysis.

Results in micrograms per cubic meter (ug/m^3), unless otherwise indicated.

FIGURES

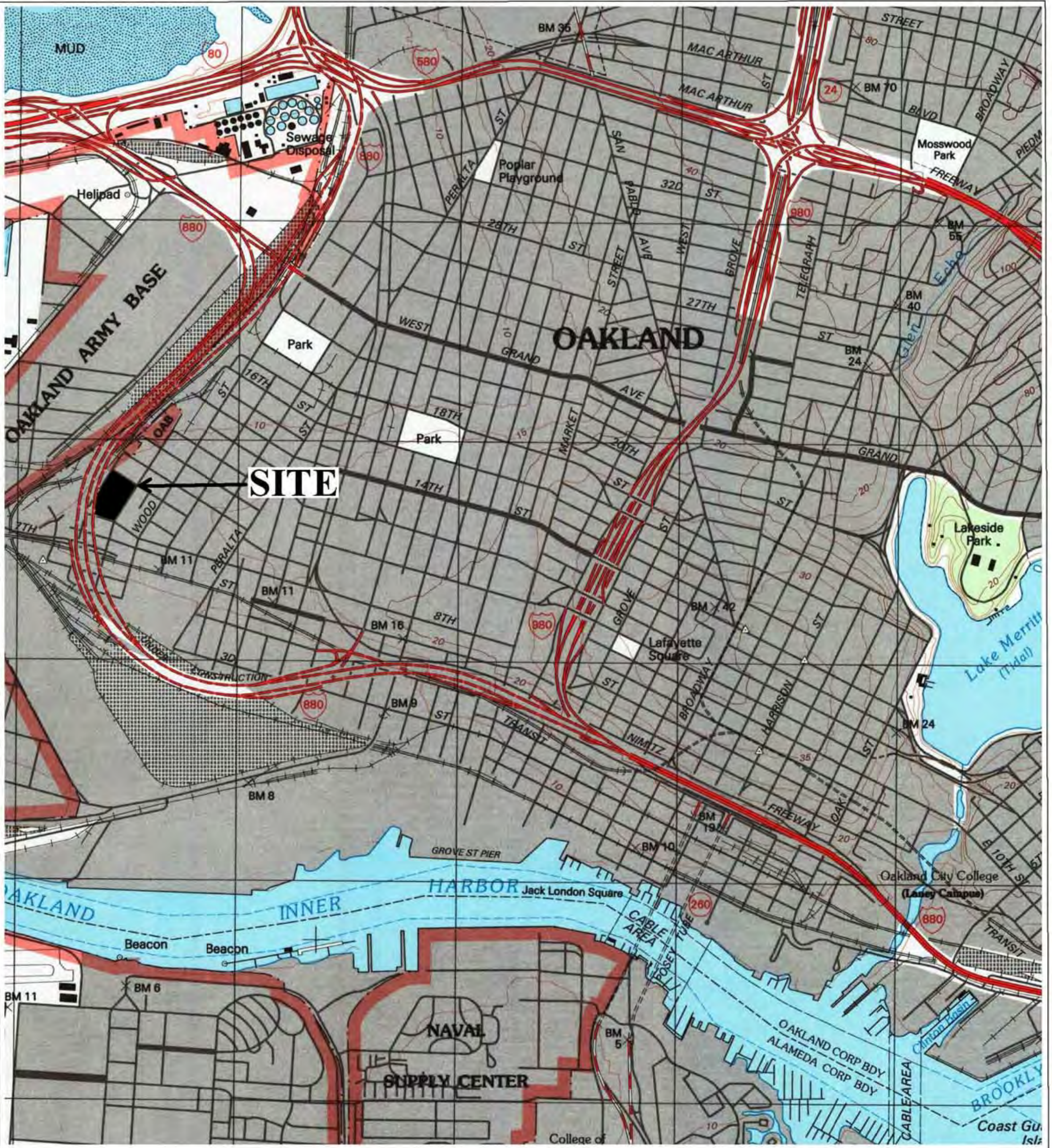

Figure 1
Site Location Map
Phoenix Iron Works
800 Pine Street
Oakland, California

Basemap from:
U.S. Geological Survey 7.5-Minute Quadrangle,
Oakland West, California, Map edited 1996

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 1,000 2,000
Approximate Scale in Feet

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Figure 2
Site Aerial Photograph Showing Sample Collection Locations
Phoenix Iron Works
800 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 50 100
Approximate Scale in Feet

N

Figure 3
Typical Soil Gas Sampling Manifold
800 Pine Street
Oakland, California

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

APPENDIX A

Soil Boring Logs

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BORING NO.: GW1	**PROJECT NO.:** 0772	**PROJECT NAME:** Phoenix Iron Works - 800 Pine Street, Oakland	
BORING LOCATION: Approximately 220 ft. south of northwest corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: IMX, Inc.	**DRILLER:** Cory	**DATE & TIME STARTED:** 8/10/17 1005	**DATE & TIME FINISHED:** 8/10/17 1705
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 10.2 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: 8.2 Feet	**NO. OF SAMPLES:** 1 Groundwater		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.7 ft. Concrete (FILL)	FILL		No Well Constructed	0	Borehole hand augered from 0.0 to 10.2 ft. using 3.5-inch O.D. hand auger. Water encountered during drilling at 8.2 ft.
	0.7 to 3.4 ft. Brown silty sand (SM); loose, dry. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,10,90) Vitrified clay pipe encountered at 2.7 ft. Moist at 3.4 ft. Color change to light brown at 4.6 ft.	X C1-3.5 X C1-4.0 SM			0	Temporary 1.0-inch diameter slotted PVC casing placed in borehole.
5	5.4 to 6.0 ft. Light brown silty sand (SM); loose, moist, with loose oxidized concretions and dark brown mottling. No PHC or solvent odors. (0,10,90)				0	Water sample GW1 collected at 1523 directly from the discharge tubing. No odor or sheen on sample.
	6.0 to 7.0 ft. Light brown silty sand (SM); dense, wet, with loose oxidized concretions and dark brown mottling. No PHC or solvent odors. (0,10,90)				0	Borehole grouted on 8/10/17 using neat cement grout and a tremie pipe.
	7.0 to 8.7 ft. Brown clayey silt (ML); stiff, moist, with loose oxidized concretions and dark brown mottling. (0,10,90)	ML				
	8.7 to 9.5 ft. Brown silty sand (SM); slightly dense, moist, with dark brown mottling. No PHC or solvent odors. (0,10,90)	SM		∇	0	
10	9.5 to 10.2 ft. Brown silty sand (SM); dense with slight mottling. (0,10,90) Saturated at 9.5 ft. Wet at 10.0 ft.					Mr. Eneyew Amberber with Alameda County Public Works Agency gave verbal permission to grout the borehole without his presence. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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P&D ENVIRONMENTAL, INC.

BORING NO.: GW2	**PROJECT NO.:** 0772	**PROJECT NAME:** Phoenix Iron Works - 800 Pine Street, Oakland	
BORING LOCATION: Approximately 466 ft. south of northwest corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: IMX, Inc.	**DRILLER:** Cory	**DATE & TIME STARTED:** 8/11/17 0820	**DATE & TIME FINISHED:** 8/11/17 0947
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 10.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LKD	**CHECKED BY:**
FIRST WATER DEPTH: 8.7 Feet	**NO. OF SAMPLES:** 1 Groundwater		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. Concrete (FILL)	FILL		No Well Constructed	0	Borehole hand augered from 0.0 to 10.0 ft. using 3.5-inch O.D. hand auger.
	0.4 to 3.0 ft. Dark brown silty sand (SM); slightly dense, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,10,90)					Water encountered during drilling at 8.7 ft.
	3.0 to 4.5 ft. Brown silty sand (SM); slightly dense, moist, with loose oxidized concretions and dark brown mottling. No PHC or solvent odors. (0,10,90)	☒ C1-3.5 ☒ C1-4.0			0	Temporary 1.0-inch diameter slotted PVC casing placed in borehole.
5	4.5 to 5.25 ft. Brown silty sand (SM); slightly dense, very moist, with dense oxidized nodules. No PHC or solvent odors. (0,10,90)	SM			0	Water sample GW2 collected at 0920 directly from the discharge tubing. No odor or sheen on sample.
	5.25 to 6.2 ft. Brown silty sand (SM); dense, wet, with dense oxidized nodules and mottling. (0,10,90)					
	6.2 to 8.7 ft. Brown clayey silty sand (SM); dense, moist. No PHC or solvent odors. (0,10,90)				0	Borehole grouted on 8/11/17 using neat cement grout and a tremie pipe.
	Wet at 8.7 ft. Saturated 8.9 ft.			▽	0	
	9.2 to 10.0 ft. Brown clayey silty sand (SM); dense, saturated. (0,10,90)					
10						Mr. Eneyew Amberber with Alameda County Public Works Agency onsite to observe and document grouting of the borehole.
15						Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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PAGE 1 OF 1

BORING NO.: SG1	**PROJECT NO.:** 0772	**PROJECT NAME:** Phoenix Iron Works - 800 Pine Street, Oakland			
BORING LOCATION: Approximately 118 ft. south and 5 ft. west of northwest corner of property			**ELEVATION AND DATUM:** None		
DRILLING AGENCY: IMX, Inc.		**DRILLER:** Cory		**DATE & TIME STARTED:** 8/10/17 0921	**DATE & TIME FINISHED:** 8/10/17 1547
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger					
COMPLETION DEPTH: 6.0 Feet		**BEDROCK DEPTH:** Not Encountered		**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered		**NO. OF SAMPLES:** None			

DEPTH (FT.)	DESCRIPTION		GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.7 ft. Concrete (FILL)		FILL		Soil Gas Well Constructed; No Diagram	0	Borehole hand augered from 0.0 to 6.0 ft. using 3.5-inch O.D. hand auger.
	0.7 to 3.0 ft. Dark brown silt (ML); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,0,100)		ML			0	Water was not encountered during hand augering.
	3.0 to 5.0 ft. Brown silty sand (SM); slightly dense, moist. No PHC or solvent odors. (0,10,90)	X X	C1-3.5 C1-4.0 SM			0	Soil gas well constructed in borehole on 8/10/17.
5	5.0 to 6.0 ft. Light brown silty sand (SM); slightly dense, moist. No PHC or solvent odors. (0,10,90) Saturated at 5.5 ft.					0	
							Mr. Eneyew Amberber with Alameda County Public Works Agency onsite to observe and document pouring of the sanitary seal. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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PAGE 1 OF 1

BORING NO.: SG2	**PROJECT NO.:** 0772	**PROJECT NAME:** Phoenix Iron Works - 800 Pine Street, Oakland	
BORING LOCATION: Approximately 558 ft. south and 6 ft. west of northwest corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: IMX, Inc.	**DRILLER:** Cory	**DATE & TIME STARTED:** 8/10/17 1315	**DATE & TIME FINISHED:** 8/10/17 1554
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 6.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** None		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. Concrete (FILL)	FILL		Soil Gas Well Constructed; No Diagram	0	Borehole hand augered from 0.0 to 6.0 ft. using 3.5-inch O.D. hand auger.
	0.4 to 3.6 ft. Brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,10,90)				0	Water was not encountered during hand augering.
	3.6 to 4.75 ft. Brown silty sand (SM); loose, moist, with stiff oxidized concretions. No PHC or solvent odors. (0,10,90)	SM X C1-3.5			0	Soil gas well constructed in borehole on 8/10/17.
5	4.75 to 5.4 ft. Brown silty sand (SM); slightly dense, wet, with mottling and loose oxidized concretions. No PHC or solvent odors. (0,10,90)	X C1-4.0			0	
	5.4 to 6.0 ft. Brown silty sand (SM); wet, dense, with dark brown mottling. No PHC odors. (0,10,90)					Mr. Eneyew Amberber with Alameda County Public Works Agency onsite to observe and document pouring of the sanitary seal.
10						Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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P&D ENVIRONMENTAL, INC.

BORING NO.: SG3	**PROJECT NO.:** 0772	**PROJECT NAME:** Phoenix Iron Works - 800 Pine Street, Oakland	
BORING LOCATION: Approximately 330 ft. south and 6 ft. west of northwest corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: IMX, Inc.	**DRILLER:** Cory	**DATE & TIME STARTED:** 8/10/17 1047	**DATE & TIME FINISHED:** 8/10/17 1550
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 6.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** None		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.6 ft. Concrete (FILL)	FILL		Soil Gas Well Constructed; No Diagram	0	Borehole hand augered from 0.0 to 6.0 ft. using 3.5-inch O.D. hand auger.
	0.6 to 3.4 ft. Brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,5,95)				0	Water was not encountered during hand augering.
	3.4 to 5.8 ft. Brown silty sand (SM); slightly dense, moist. No PHC or solvent odors. (0,10,90)	SM X C1-3.5 X C1-4.0			0	Soil gas well constructed in borehole on 8/10/17.
5	5.8 to 6.0 ft. Brown silty sand (SM); dense, wet, with loose oxidized concretions. No PHC or solvent odors. (0,10,90)				0	
						Mr. Eneyew Amberber with Alameda County Public Works Agency onsite to observe and document pouring of the sanitary seal.
10						<u>Drilling Notes:</u> 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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APPENDIX B

Purge Volume Calculations and Soil Gas Sampling Data Sheet

Report 0772.R1
7.5 feet tubing, 12 inch sand interval, 12 inches hydrated bentonite interval above sand

Soil Gas Purge Volume Calculations

One Purge Volume is calculated as the volume of the tubing interior plus the volume of the sand interval of the borehole.

The tubing interior volume is calculated as follows:

V tubing = pi x (r x r) x h, where pi = 3.14, r = 0.187 in/2, and h = 7.5 ft.

V tubing = 3.14 x (0.0935 x 0.0935) x (7.5 ft. x 12 in./ft) = 2.47 cubic inches.

The sand interval volume is calculated as follows:

V sand interval = pi x (r x r) x h x porosity, where pi = 3.14, r = 3.5 in./2, h = 12 in., and porosity = 0.35

V sand interval = 3.14 x (1.75 x 1.75) x 12 x 0.35 40.39 cubic inches.

The total volume for one purge volume is V tubing + V sand interval, where

V total = 2.47 cubic inches + 40.39 cubic inches = 42.86 cubic inches.

To convert to cubic centimeters:

V total = 42.86 cubic inches x 16.39 cubic centimeters/cubic inches = 702.5 cubic centimeters.

The total volume to be purged is 3 purge volumes.

V purge total = 702.5 cubic centimeters x 3 2107 cubic centimeters.

The flow controller has a nominal flow rate of 150 cubic centimeters per minute.

The purge time is calculated as follows:

T purge = 2107 cubic centimeters/ 150 cubic centimeters per minute = 14.05 minutes.

Converting the purge time to seconds, 14.05 minutes x 60seconds/ minute = 843 seconds.

Notes:

🟨 Yellow hi-lite indicates data entry required.
🟦 Blue hi-lite indicates values are calculated or automatically updated.

Sand interval is 1 ft from 5 to 6 ft bgs, filter is at center of sand pack, 1.0 ft hydrated bentonite above sand, then neat cement to surface.

SOIL GAS SAMPLING DATA SHEET

Address 800 Pine St. Oakland, CA 94607
Job # 0772
Date Installed 8/10/17
Drilling Company TWC
Date Sampled 8/14/17
Sampler Name LKD

Probe Method (check one)
○ PRT
○ Temp Well
☑ Permanent Well
○ Vapor Pin

Soil Gas Location Designation	Probe Depth (Ft.)	Time Probe Installation Completed	Canister #	Sample Canister Initial Vacuum Check (In. Hg) and time	Start leak check vacuum (In. Hg) and time	End leak check vacuum (In. Hg) and time	ADDITIONAL leak check vacuum (In. Hg) and time	Start PURGE time	End PURGE time	Start of tracer gas injection time	Begin sample collection vacuum (In. Hg) and time	End sample collection vacuum (In. Hg) and time	PID value in soil gas well tube after sample collection	Tedlar bag sample collected at -15 In.Hg for each SG sample NOTES Tracer gas sample time
SG 1	5.5		S-728	vac -30 time 9:28	vac -30 time 9:30	vac -30 time 9:40	vac time	time 10:42	time 10:56	time 10:59	vac -30 time 10:58	vac -5 time 11:05	ppm 1.2 time 11:12	11:02
SG 2	5.5		S-656	vac -30 time 12:56	vac -30 time 13:31	vac -29 time 13:41	vac time	time 13:57	time 14:11	time 14:15	vac -26 time 14:14	vac -5 time 14:39	ppm 0.6 time 14:48	14:28
SG 2 DUP	5.5		S-722	vac -21 time 12:53	vac -30 time 13:31	vac -29 time 13:41	vac time	time 13:57	time 14:11	time 14:15	vac -26 time 14:14	vac -5 time 14:39	ppm 0.6 time 14:48	14:28
SG 3	5.5		S-251	vac -30 time 9:41	vac -30 time 9:51	vac -30 time 10:01	vac time	time 11:36	time 11:50	time 11:54	vac -30 time 11:53	vac -5 time 12:01	ppm 1.2 time 12:07	11:57
SG				vac time	vac time	vac time	vac time	time	time	time	vac time	vac time	ppm time	
SG				vac time	vac time	vac time	vac time	time	time	time	vac time	vac time	ppm time	
SG				vac time	vac time	vac time	vac time	time	time	time	vac time	vac time	ppm time	
SG				vac time	vac time	vac time	vac time	time	time	time	vac time	vac time	ppm time	
SG				vac time	vac time	vac time	vac time	time	time	time	vac time	vac time	ppm time	
SG				vac time	vac time	vac time	vac time	time	time	time	vac time	vac time	ppm time	
SG				vac time	vac time	vac time	vac time	time	time	time	vac time	vac time	ppm time	
SG				vac time	vac time	vac time	vac time	time	time	time	vac time	vac time	ppm time	
SG				vac time	vac time	vac time	vac time	time	time	time	vac time	vac time	ppm time	

APPENDIX C

Investigation-Derived Waste Disposal Documentation

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAC 002 925 789

2. Page 1 of 1

3. Emergency Response Phone: 510-541-2128

4. Manifest Tracking Number: 010606361 FLE

GENERATOR

5. Generator's Name and Mailing Address
Holiday Development, LLC
1201 Pine Street
Oakland, CA 94607

Generator's Site Address (if different than mailing address)
800 Pine Street
Oakland, CA 94607

Generator's Phone: 510-286-5393

6. Transporter 1 Company Name: Big Sky Environmental Solutions
U.S. EPA ID Number: CAL000346010

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
US Ecology
Highway 95 12 miles south of
Beatty NV 89003

U.S. EPA ID Number: NVT330010000

Facility's Phone: 775-553-2203

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. UN 3077, Hazardous Waste Solid, 9, PG111 (Soil Impacted with Lead)	001	DM	350	P	D008	352	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
WEAR PPE
9b1 ERG 9B3 ERG
9B2 ERG 9B4 ERG
EMERGENCY CONTACT JEFF RHODES

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: David Schenker
Signature:
Month 8 Day 30 Year 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only):
Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jeff Rhodes
Signature:
Month 08 Day 30 Year 17

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name:
Signature:
Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

APPENDIX D

Weather Information

https://www.wunderground.com/personal-weather-station/dashboard?ID=KCAOAKLA71#history/tdata/s20170801/e20170823/mcustom

About This Weather Station

Weather Station ID: KCAOAKLA71

Station Name: Toll Plaza Beach

Latitude / Longitude: N 37 ° 49 ' 39 '', W 122 ° 18 ' 57 ''

Elevation: 0

City: Oakland

State: CA

Hardware: Weatherflow

Software: Weatherflow

Weather History Table
August 1, 2017 - August 23, 2017

2017	Temperature			Dew Point			Humidity			Speed			Pressure			Precip. Accum.
Aug	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Gust	High	Avg	Low	Sum
1	**64.9** °F	**59.8** °F	**54.9** °F	°F	°F	°F	%	%	%	**0** mph	**0** mph	**0** mph	**29.99** in	**29.93** in	**29.87** in	**0** in
2	**70.4** °F	**63.7** °F	**57** °F	°F	°F	°F	%	%	%	**0** mph	**0** mph	**0** mph	**29.96** in	**29.92** in	**29.87** in	**0** in
3	**68.6** °F	**64.8** °F	**61.2** °F	°F	°F	°F	%	%	%	**0** mph	**0** mph	**0** mph	**30** in	**29.95** in	**29.91** in	**0** in
4	**69.8** °F	**65.4** °F	**61.1** °F	°F	°F	°F	%	%	%	**0** mph	**0** mph	**0** mph	**30** in	**29.95** in	**29.9** in	**0** in
5	**66.4** °F	**63** °F	**59.7** °F	°F	°F	°F	%	%	%	**0** mph	**0** mph	**0** mph	**29.98** in	**29.95** in	**29.93** in	**0** in
6	**64.5** °F	**61.9** °F	**59.3** °F	°F	°F	°F	%	%	%	**0** mph	**0** mph	**0** mph	**29.97** in	**29.95** in	**29.93** in	**0** in
7	**65.9** °F	**63.1** °F	**60.3** °F	°F	°F	°F	%	%	%	**0** mph	**0** mph	**0** mph	**30** in	**29.97** in	**29.93** in	**0** in
8	**64** °F	**61** °F	**58.1** °F	°F	°F	°F	%	%	%	**0** mph	**0** mph	**0** mph	**30.01** in	**29.98** in	**29.94** in	**0** in
9	**64.3** °F	**61.1** °F	**57.9** °F	°F	°F	°F	%	%	%	**0** mph	**0** mph	**0** mph	**30** in	**29.97** in	**29.94** in	**0** in
10	**65.7** °F	**61.8** °F	**58** °F	°F	°F	°F	%	%	%	**0** mph	**0** mph	**0** mph	**30.01** in	**29.98** in	**29.95** in	**0** in
11	**66.8** °F	**62** °F	**57.4** °F	°F	°F	°F	%	%	%	**0** mph	**0** mph	**0** mph	**29.99** in	**29.94** in	**29.9** in	**0** in
12	**63.9** °F	**60.4** °F	**56.9** °F	°F	°F	°F	%	%	%	**0** mph	**0** mph	**0** mph	**29.99** in	**29.95** in	**29.91** in	**0** in
13	**65.8** °F	**60.5** °F	**55.5** °F	°F	°F	°F	%	%	%	**0** mph	**0** mph	**0** mph	**29.98** in	**29.94** in	**29.91** in	**0** in
14	**61.4** °F	**59** °F	**56.7** °F	°F	°F	°F	%	%	%	**0** mph	**0** mph	**0** mph	**29.93** in	**29.9** in	**29.87** in	**0** in
15	**63.9** °F	**60.2** °F	**56.9** °F	°F	°F	°F	%	%	%	**0** mph	**0** mph	**0** mph	**29.95** in	**29.9** in	**29.85** in	**0** in
16	**66.5** °F	**62.4** °F	**58.5** °F	°F	°F	°F	%	%	%	**0** mph	**0** mph	**0** mph	**30.01** in	**29.97** in	**29.93** in	**0** in
17	**64.8** °F	**62.4** °F	**59.9** °F	°F	°F	°F	%	%	%	**0** mph	**0** mph	**0** mph	**30.07** in	**30.02** in	**29.98** in	**0** in
18	**65.3** °F	**62.2** °F	**59.2** °F	°F	°F	°F	%	%	%	**0** mph	**0** mph	**0** mph	**30.03** in	**29.99** in	**29.96** in	**0** in
19	**64.4** °F	**61.8** °F	**59.3** °F	°F	°F	°F	%	%	%	**0** mph	**0** mph	**0** mph	**29.96** in	**29.92** in	**29.88** in	**0** in
20	**65.2** °F	**62.7** °F	**60.2** °F	°F	°F	°F	%	%	%	**0** mph	**0** mph	**0** mph	**29.95** in	**29.91** in	**29.87** in	**0** in
21	**66.1** °F	**63.9** °F	**61.8** °F	°F	°F	°F	%	%	%	**0** mph	**0** mph	**0** mph	**30.05** in	**30** in	**29.95** in	**0** in
22	**65.4** °F	**62.9** °F	**60.4** °F	°F	°F	°F	%	%	%	**0** mph	**0** mph	**0** mph	**30.09** in	**30.05** in	**30** in	**0** in
23	**64.3** °F	**60.8** °F	**58** °F	°F	°F	°F	%	%	%	**0** mph	**0** mph	**0** mph	**30.02** in	**30.01** in	**29.99** in	**0** in

APPENDIX E

Laboratory Analytical Reports and Chain of Custody Documentation

- **McCampbell Workorder #1708573 - Borehole Groundwater Samples GW1 and GW2 TPH and VOC Results**
- **K Prime Workorder #157478-157481 - Soil Gas Samples SG1, SG2, SG2-DUP, and SG3 TO15 Results**
- **K Prime Workorder #157540-157542 - Soil Gas Shroud Air Samples SG1 DFA, SG2 DFA, and SG3 DFA 1,1-DFA Results**
- **McCampbell Workorder #1708699 – Drummed Soil Sample Drum 1 TPH, VOC and CAM 17 Metal Results**
- **McCampbell Workorder #1708699A – Drummed Soil Sample Drum 1 WET Lead and TCLP Lead Results**

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1708573

Report Created for: P & D Environmental

55 Santa Clara, Ste.240
Oakland, CA 94610

Project Contact: Paul King
Project P.O.:
Project Name: 0772; Phoenix Iron Works 800 Pine Street Oakland, CA 94607
Project Received: 08/11/2017

Analytical Report reviewed & approved for release on 08/18/2017 by:

Angela Rydelius,
Laboratory Manager

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
CA ELAP 1644 ♦ NELAP 4033ORELAP

Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: 0772; Phoenix Iron Works 800 Pine Street Oakland, CA 94607
WorkOrder: 1708573

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: 0772; Phoenix Iron Works 800 Pine Street Oakland, CA 94607
WorkOrder: 1708573

Analytical Qualifiers

S	Surrogate spike recovery outside accepted recovery limits
b1	Aqueous sample that contains greater than ~1 vol. % sediment
c2	Surrogate recovery outside of the control limits due to matrix interference.
e2	Diesel range compounds are significant; no recognizable pattern
e7	Oil range compounds are significant

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1708573
Date Received:	8/11/17 18:20	**Extraction Method:**	SW5030B
Date Prepared:	8/17/17-8/18/17	**Analytical Method:**	SW8260B
Project:	0772; Phoenix Iron Works 800 Pine Street Oakland, CA 94607	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW1	1708573-001B	Water	08/10/2017 15:23	GC10	143798

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/17/2017 00:20
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/17/2017 00:20
Benzene	ND	0.50	1	08/17/2017 00:20
Bromobenzene	ND	0.50	1	08/17/2017 00:20
Bromochloromethane	ND	0.50	1	08/17/2017 00:20
Bromodichloromethane	ND	0.50	1	08/17/2017 00:20
Bromoform	ND	0.50	1	08/17/2017 00:20
Bromomethane	ND	0.50	1	08/17/2017 00:20
2-Butanone (MEK)	ND	2.0	1	08/17/2017 00:20
t-Butyl alcohol (TBA)	ND	2.0	1	08/17/2017 00:20
n-Butyl benzene	ND	0.50	1	08/17/2017 00:20
sec-Butyl benzene	ND	0.50	1	08/17/2017 00:20
tert-Butyl benzene	ND	0.50	1	08/17/2017 00:20
Carbon Disulfide	ND	0.50	1	08/17/2017 00:20
Carbon Tetrachloride	ND	0.50	1	08/17/2017 00:20
Chlorobenzene	ND	0.50	1	08/17/2017 00:20
Chloroethane	ND	0.50	1	08/17/2017 00:20
Chloroform	ND	0.50	1	08/17/2017 00:20
Chloromethane	ND	0.50	1	08/17/2017 00:20
2-Chlorotoluene	ND	0.50	1	08/17/2017 00:20
4-Chlorotoluene	ND	0.50	1	08/17/2017 00:20
Dibromochloromethane	ND	0.50	1	08/17/2017 00:20
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/17/2017 00:20
1,2-Dibromoethane (EDB)	ND	0.50	1	08/17/2017 00:20
Dibromomethane	ND	0.50	1	08/17/2017 00:20
1,2-Dichlorobenzene	ND	0.50	1	08/17/2017 00:20
1,3-Dichlorobenzene	ND	0.50	1	08/17/2017 00:20
1,4-Dichlorobenzene	ND	0.50	1	08/17/2017 00:20
Dichlorodifluoromethane	ND	0.50	1	08/17/2017 00:20
1,1-Dichloroethane	ND	0.50	1	08/17/2017 00:20
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/17/2017 00:20
1,1-Dichloroethene	ND	0.50	1	08/17/2017 00:20
cis-1,2-Dichloroethene	ND	0.50	1	08/17/2017 00:20
trans-1,2-Dichloroethene	ND	0.50	1	08/17/2017 00:20
1,2-Dichloropropane	ND	0.50	1	08/17/2017 00:20
1,3-Dichloropropane	ND	0.50	1	08/17/2017 00:20
2,2-Dichloropropane	ND	0.50	1	08/17/2017 00:20

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1708573
Date Received:	8/11/17 18:20	**Extraction Method:**	SW5030B
Date Prepared:	8/17/17-8/18/17	**Analytical Method:**	SW8260B
Project:	0772; Phoenix Iron Works 800 Pine Street Oakland, CA 94607	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW1	**1708573-001B**	**Water**	**08/10/2017 15:23**	**GC10**	**143798**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/17/2017 00:20
cis-1,3-Dichloropropene	ND	0.50	1	08/17/2017 00:20
trans-1,3-Dichloropropene	ND	0.50	1	08/17/2017 00:20
Diisopropyl ether (DIPE)	ND	0.50	1	08/17/2017 00:20
Ethylbenzene	ND	0.50	1	08/17/2017 00:20
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/17/2017 00:20
Freon 113	ND	0.50	1	08/17/2017 00:20
Hexachlorobutadiene	ND	0.50	1	08/17/2017 00:20
Hexachloroethane	ND	0.50	1	08/17/2017 00:20
2-Hexanone	ND	0.50	1	08/17/2017 00:20
Isopropylbenzene	ND	0.50	1	08/17/2017 00:20
4-Isopropyl toluene	ND	0.50	1	08/17/2017 00:20
Methyl-t-butyl ether (MTBE)	ND	0.50	1	08/17/2017 00:20
Methylene chloride	ND	0.50	1	08/17/2017 00:20
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/17/2017 00:20
Naphthalene	ND	0.50	1	08/17/2017 00:20
n-Propyl benzene	ND	0.50	1	08/17/2017 00:20
Styrene	ND	0.50	1	08/17/2017 00:20
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/17/2017 00:20
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/17/2017 00:20
Tetrachloroethene	ND	0.50	1	08/17/2017 00:20
Toluene	ND	0.50	1	08/17/2017 00:20
1,2,3-Trichlorobenzene	ND	0.50	1	08/17/2017 00:20
1,2,4-Trichlorobenzene	ND	0.50	1	08/17/2017 00:20
1,1,1-Trichloroethane	ND	0.50	1	08/17/2017 00:20
1,1,2-Trichloroethane	ND	0.50	1	08/17/2017 00:20
Trichloroethene	ND	0.50	1	08/17/2017 00:20
Trichlorofluoromethane	ND	0.50	1	08/17/2017 00:20
1,2,3-Trichloropropane	ND	0.50	1	08/17/2017 00:20
1,2,4-Trimethylbenzene	ND	0.50	1	08/17/2017 00:20
1,3,5-Trimethylbenzene	ND	0.50	1	08/17/2017 00:20
Vinyl Chloride	ND	0.50	1	08/17/2017 00:20
Xylenes, Total	ND	0.50	1	08/17/2017 00:20

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1708573
Date Received:	8/11/17 18:20	**Extraction Method:**	SW5030B
Date Prepared:	8/17/17-8/18/17	**Analytical Method:**	SW8260B
Project:	0772; Phoenix Iron Works 800 Pine Street Oakland, CA 94607	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW1	**1708573-001B**	**Water**	**08/10/2017 15:23**	**GC10**	**143798**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	100	70-130		08/17/2017 00:20
Toluene-d8	103	70-130		08/17/2017 00:20
4-BFB	89	70-130		08/17/2017 00:20

Analyst(s): KF

Analytical Comments: b1

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1708573
Date Received:	8/11/17 18:20	**Extraction Method:**	SW5030B
Date Prepared:	8/17/17-8/18/17	**Analytical Method:**	SW8260B
Project:	0772; Phoenix Iron Works 800 Pine Street Oakland, CA 94607	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW2	1708573-002B	Water	08/11/2017 09:20	GC16	143798

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	08/18/2017 01:57
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/18/2017 01:57
Benzene	ND	0.50	1	08/18/2017 01:57
Bromobenzene	ND	0.50	1	08/18/2017 01:57
Bromochloromethane	ND	0.50	1	08/18/2017 01:57
Bromodichloromethane	ND	0.50	1	08/18/2017 01:57
Bromoform	ND	0.50	1	08/18/2017 01:57
Bromomethane	ND	0.50	1	08/18/2017 01:57
2-Butanone (MEK)	ND	2.0	1	08/18/2017 01:57
t-Butyl alcohol (TBA)	ND	2.0	1	08/18/2017 01:57
n-Butyl benzene	ND	0.50	1	08/18/2017 01:57
sec-Butyl benzene	ND	0.50	1	08/18/2017 01:57
tert-Butyl benzene	ND	0.50	1	08/18/2017 01:57
Carbon Disulfide	ND	0.50	1	08/18/2017 01:57
Carbon Tetrachloride	ND	0.50	1	08/18/2017 01:57
Chlorobenzene	ND	0.50	1	08/18/2017 01:57
Chloroethane	ND	0.50	1	08/18/2017 01:57
Chloroform	ND	0.50	1	08/18/2017 01:57
Chloromethane	ND	0.50	1	08/18/2017 01:57
2-Chlorotoluene	ND	0.50	1	08/18/2017 01:57
4-Chlorotoluene	ND	0.50	1	08/18/2017 01:57
Dibromochloromethane	ND	0.50	1	08/18/2017 01:57
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/18/2017 01:57
1,2-Dibromoethane (EDB)	ND	0.50	1	08/18/2017 01:57
Dibromomethane	ND	0.50	1	08/18/2017 01:57
1,2-Dichlorobenzene	ND	0.50	1	08/18/2017 01:57
1,3-Dichlorobenzene	ND	0.50	1	08/18/2017 01:57
1,4-Dichlorobenzene	ND	0.50	1	08/18/2017 01:57
Dichlorodifluoromethane	ND	0.50	1	08/18/2017 01:57
1,1-Dichloroethane	ND	0.50	1	08/18/2017 01:57
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/18/2017 01:57
1,1-Dichloroethene	ND	0.50	1	08/18/2017 01:57
cis-1,2-Dichloroethene	ND	0.50	1	08/18/2017 01:57
trans-1,2-Dichloroethene	ND	0.50	1	08/18/2017 01:57
1,2-Dichloropropane	ND	0.50	1	08/18/2017 01:57
1,3-Dichloropropane	ND	0.50	1	08/18/2017 01:57
2,2-Dichloropropane	ND	0.50	1	08/18/2017 01:57

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1708573
Date Received:	8/11/17 18:20	**Extraction Method:**	SW5030B
Date Prepared:	8/17/17-8/18/17	**Analytical Method:**	SW8260B
Project:	0772; Phoenix Iron Works 800 Pine Street Oakland, CA 94607	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW2	**1708573-002B**	**Water**	**08/11/2017 09:20**	**GC16**	**143798**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	08/18/2017 01:57
cis-1,3-Dichloropropene	ND	0.50	1	08/18/2017 01:57
trans-1,3-Dichloropropene	ND	0.50	1	08/18/2017 01:57
Diisopropyl ether (DIPE)	ND	0.50	1	08/18/2017 01:57
Ethylbenzene	ND	0.50	1	08/18/2017 01:57
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/18/2017 01:57
Freon 113	ND	0.50	1	08/18/2017 01:57
Hexachlorobutadiene	ND	0.50	1	08/18/2017 01:57
Hexachloroethane	ND	0.50	1	08/18/2017 01:57
2-Hexanone	ND	0.50	1	08/18/2017 01:57
Isopropylbenzene	ND	0.50	1	08/18/2017 01:57
4-Isopropyl toluene	ND	0.50	1	08/18/2017 01:57
Methyl-t-butyl ether (MTBE)	ND	0.50	1	08/18/2017 01:57
Methylene chloride	ND	0.50	1	08/18/2017 01:57
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/18/2017 01:57
Naphthalene	ND	0.50	1	08/18/2017 01:57
n-Propyl benzene	ND	0.50	1	08/18/2017 01:57
Styrene	ND	0.50	1	08/18/2017 01:57
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/18/2017 01:57
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/18/2017 01:57
Tetrachloroethene	**2.1**	0.50	1	08/18/2017 01:57
Toluene	ND	0.50	1	08/18/2017 01:57
1,2,3-Trichlorobenzene	ND	0.50	1	08/18/2017 01:57
1,2,4-Trichlorobenzene	ND	0.50	1	08/18/2017 01:57
1,1,1-Trichloroethane	ND	0.50	1	08/18/2017 01:57
1,1,2-Trichloroethane	ND	0.50	1	08/18/2017 01:57
Trichloroethene	ND	0.50	1	08/18/2017 01:57
Trichlorofluoromethane	ND	0.50	1	08/18/2017 01:57
1,2,3-Trichloropropane	ND	0.50	1	08/18/2017 01:57
1,2,4-Trimethylbenzene	ND	0.50	1	08/18/2017 01:57
1,3,5-Trimethylbenzene	ND	0.50	1	08/18/2017 01:57
Vinyl Chloride	ND	0.50	1	08/18/2017 01:57
Xylenes, Total	ND	0.50	1	08/18/2017 01:57

(Cont.)

Analytical Report

Client: P & D Environmental
Date Received: 8/11/17 18:20
Date Prepared: 8/17/17-8/18/17
Project: 0772; Phoenix Iron Works 800 Pine Street Oakland, CA 94607

WorkOrder: 1708573
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW2	**1708573-002B**	**Water**	**08/11/2017 09:20**	**GC16**	**143798**

Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)	Qualifiers	Limits		
Dibromofluoromethane	113		70-130		08/18/2017 01:57
Toluene-d8	97		70-130		08/18/2017 01:57
4-BFB	136	S	70-130		08/18/2017 01:57

Analyst(s): AK

Analytical Comments: c2,b1

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1708573
Date Received:	8/11/17 18:20	**Extraction Method:**	SW5030B
Date Prepared:	8/15/17	**Analytical Method:**	SW8021B/8015Bm
Project:	0772; Phoenix Iron Works 800 Pine Street Oakland, CA 94607	**Unit:**	µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW1	**1708573-001A**	**Water**	**08/10/2017 15:23**	**GC3**	**143704**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	08/15/2017 00:08
MTBE	---	5.0	1	08/15/2017 00:08
Benzene	---	0.50	1	08/15/2017 00:08
Toluene	---	0.50	1	08/15/2017 00:08
Ethylbenzene	---	0.50	1	08/15/2017 00:08
Xylenes	---	1.5	1	08/15/2017 00:08

Surrogates	REC (%)	Limits	
aaa-TFT	100	89-115	08/15/2017 00:08

Analyst(s): IA

Analytical Comments: b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW2	**1708573-002A**	**Water**	**08/11/2017 09:20**	**GC3**	**143704**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	08/15/2017 03:11
MTBE	---	5.0	1	08/15/2017 03:11
Benzene	---	0.50	1	08/15/2017 03:11
Toluene	---	0.50	1	08/15/2017 03:11
Ethylbenzene	---	0.50	1	08/15/2017 03:11
Xylenes	---	1.5	1	08/15/2017 03:11

Surrogates	REC (%)	Limits	
aaa-TFT	102	89-115	08/15/2017 03:11

Analyst(s): IA

Analytical Comments: b1

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1708573
Date Received:	8/11/17 18:20	**Extraction Method:**	SW3510C/3630C
Date Prepared:	8/14/17	**Analytical Method:**	SW8015B
Project:	0772; Phoenix Iron Works 800 Pine Street Oakland, CA 94607	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW1	**1708573-001A**	**Water**	**08/10/2017 15:23**	**GC11B**	**143633**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**63**	36	1	08/14/2017 15:46
TPH-Motor Oil (C18-C36)	**120**	77	1	08/14/2017 15:46
TPH-Bunker Oil (C10-C36)	**130**	100	1	08/14/2017 15:46

Surrogates	REC (%)	Limits	
C26	83	70-130	08/14/2017 15:46

Analyst(s): TK

Analytical Comments: e7,e2,b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW2	**1708573-002A**	**Water**	**08/11/2017 09:20**	**GC11B**	**143633**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	38	1	08/14/2017 17:04
TPH-Motor Oil (C18-C36)	ND	82	1	08/14/2017 17:04
TPH-Bunker Oil (C10-C36)	ND	110	1	08/14/2017 17:04

Surrogates	REC (%)	Limits	
C26	83	70-130	08/14/2017 17:04

Analyst(s): TK

Analytical Comments: b1

Angela Rydelius, Lab Manager

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1708573
Date Prepared:	8/16/17	**BatchID:**	143798
Date Analyzed:	8/16/17	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; Phoenix Iron Works 800 Pine Street Oakland, CA 94607	**Sample ID:**	MB/LCS/LCSD-143798

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	10	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.50	-	-	-
Benzene	ND	0.50	-	-	-
Bromobenzene	ND	0.50	-	-	-
Bromochloromethane	ND	0.50	-	-	-
Bromodichloromethane	ND	0.50	-	-	-
Bromoform	ND	0.50	-	-	-
Bromomethane	ND	0.50	-	-	-
2-Butanone (MEK)	ND	2.0	-	-	-
t-Butyl alcohol (TBA)	ND	2.0	-	-	-
n-Butyl benzene	ND	0.50	-	-	-
sec-Butyl benzene	ND	0.50	-	-	-
tert-Butyl benzene	ND	0.50	-	-	-
Carbon Disulfide	ND	0.50	-	-	-
Carbon Tetrachloride	ND	0.50	-	-	-
Chlorobenzene	ND	0.50	-	-	-
Chloroethane	ND	0.50	-	-	-
Chloroform	ND	0.50	-	-	-
Chloromethane	ND	0.50	-	-	-
2-Chlorotoluene	ND	0.50	-	-	-
4-Chlorotoluene	ND	0.50	-	-	-
Dibromochloromethane	ND	0.50	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.20	-	-	-
1,2-Dibromoethane (EDB)	ND	0.50	-	-	-
Dibromomethane	ND	0.50	-	-	-
1,2-Dichlorobenzene	ND	0.50	-	-	-
1,3-Dichlorobenzene	ND	0.50	-	-	-
1,4-Dichlorobenzene	ND	0.50	-	-	-
Dichlorodifluoromethane	ND	0.50	-	-	-
1,1-Dichloroethane	ND	0.50	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.50	-	-	-
1,1-Dichloroethene	ND	0.50	-	-	-
cis-1,2-Dichloroethene	ND	0.50	-	-	-
trans-1,2-Dichloroethene	ND	0.50	-	-	-
1,2-Dichloropropane	ND	0.50	-	-	-
1,3-Dichloropropane	ND	0.50	-	-	-
2,2-Dichloropropane	ND	0.50	-	-	-
1,1-Dichloropropene	ND	0.50	-	-	-
cis-1,3-Dichloropropene	ND	0.50	-	-	-

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1708573
Date Prepared:	8/16/17	**BatchID:**	143798
Date Analyzed:	8/16/17	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; Phoenix Iron Works 800 Pine Street Oakland, CA 94607	**Sample ID:**	MB/LCS/LCSD-143798

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
trans-1,3-Dichloropropene	ND	0.50	-	-	-
Diisopropyl ether (DIPE)	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.50	-	-	-
Freon 113	ND	0.50	-	-	-
Hexachlorobutadiene	ND	0.50	-	-	-
Hexachloroethane	ND	0.50	-	-	-
2-Hexanone	ND	0.50	-	-	-
Isopropylbenzene	ND	0.50	-	-	-
4-Isopropyl toluene	ND	0.50	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.50	-	-	-
Methylene chloride	ND	0.50	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.50	-	-	-
Naphthalene	ND	0.50	-	-	-
n-Propyl benzene	ND	0.50	-	-	-
Styrene	ND	0.50	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.50	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.50	-	-	-
Tetrachloroethene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
1,2,3-Trichlorobenzene	ND	0.50	-	-	-
1,2,4-Trichlorobenzene	ND	0.50	-	-	-
1,1,1-Trichloroethane	ND	0.50	-	-	-
1,1,2-Trichloroethane	ND	0.50	-	-	-
Trichloroethene	ND	0.50	-	-	-
Trichlorofluoromethane	ND	0.50	-	-	-
1,2,3-Trichloropropane	ND	0.50	-	-	-
1,2,4-Trimethylbenzene	ND	0.50	-	-	-
1,3,5-Trimethylbenzene	ND	0.50	-	-	-
Vinyl Chloride	ND	0.50	-	-	-
Xylenes, Total	ND	0.50	-	-	-
Surrogate Recovery					
Dibromofluoromethane	25.62		25	102	70-130
Toluene-d8	25.42		25	102	70-130
4-BFB	2.289		2.5	92	70-130

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1708573
Date Prepared:	8/16/17	**BatchID:**	143798
Date Analyzed:	8/16/17	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; Phoenix Iron Works 800 Pine Street Oakland, CA 94607	**Sample ID:**	MB/LCS/LCSD-143798

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	180	183	200	90	92	46-155	1.99	20
tert-Amyl methyl ether (TAME)	9.76	9.93	10	98	99	54-140	1.74	20
Benzene	9.72	9.79	10	97	98	47-158	0.669	20
Bromobenzene	9.53	9.68	10	95	97	50-155	1.58	20
Bromochloromethane	9.59	9.65	10	96	96	48-160	0	20
Bromodichloromethane	10.6	10.9	10	106	109	60-156	2.55	20
Bromoform	9.75	9.99	10	98	100	43-149	2.44	20
Bromomethane	8.89	8.57	10	89	86	61-159	3.65	20
2-Butanone (MEK)	37.5	38.8	40	94	97	61-124	3.36	20
t-Butyl alcohol (TBA)	36.8	38.5	40	92	96	42-140	4.64	20
n-Butyl benzene	10.2	10.3	10	102	103	74-138	1.59	20
sec-Butyl benzene	9.77	10.0	10	98	100	72-142	2.40	20
tert-Butyl benzene	9.92	10.2	10	99	101	74-140	2.23	20
Carbon Disulfide	10.4	10.4	10	104	104	64-127	0	20
Carbon Tetrachloride	10.4	10.7	10	104	107	61-158	2.72	20
Chlorobenzene	9.44	9.66	10	94	97	43-157	2.29	20
Chloroethane	8.96	8.48	10	90	85	50-127	5.51	20
Chloroform	9.97	10.3	10	100	103	56-154	3.06	20
Chloromethane	8.56	8.16	10	86	82	41-132	4.76	20
2-Chlorotoluene	9.76	9.98	10	98	100	50-155	2.16	20
4-Chlorotoluene	9.42	9.51	10	94	95	53-153	0.900	20
Dibromochloromethane	9.48	9.81	10	95	98	49-156	3.40	20
1,2-Dibromo-3-chloropropane	3.89	4.00	4	97	100	46-149	2.77	20
1,2-Dibromoethane (EDB)	9.87	10.2	10	99	103	44-155	3.83	20
Dibromomethane	9.88	10.1	10	99	101	50-157	1.76	20
1,2-Dichlorobenzene	9.32	9.50	10	93	95	48-156	1.89	20
1,3-Dichlorobenzene	9.72	9.86	10	97	99	49-159	1.47	20
1,4-Dichlorobenzene	9.42	9.62	10	94	96	51-151	2.07	20
Dichlorodifluoromethane	6.44	6.24	10	64	62	61-117	3.11	20
1,1-Dichloroethane	9.88	10.0	10	99	100	53-153	1.38	20
1,2-Dichloroethane (1,2-DCA)	9.79	10.1	10	98	101	66-125	2.81	20
1,1-Dichloroethene	9.16	9.30	10	92	93	47-149	1.47	20
cis-1,2-Dichloroethene	9.70	9.90	10	97	99	54-155	2.02	20
trans-1,2-Dichloroethene	9.33	9.49	10	93	95	46-151	1.69	20
1,2-Dichloropropane	9.78	10.0	10	98	100	54-153	2.35	20
1,3-Dichloropropane	9.69	9.99	10	97	100	49-150	3.08	20
2,2-Dichloropropane	10.7	10.8	10	107	109	74-147	1.68	20
1,1-Dichloropropene	9.81	9.95	10	98	99	54-150	1.40	20
cis-1,3-Dichloropropene	10.5	11.0	10	105	110	55-159	4.78	20

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1708573
Date Prepared:	8/16/17	**BatchID:**	143798
Date Analyzed:	8/16/17	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; Phoenix Iron Works 800 Pine Street Oakland, CA 94607	**Sample ID:**	MB/LCS/LCSD-143798

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	9.82	10.2	10	98	102	74-131	3.70	20
Diisopropyl ether (DIPE)	9.86	10.0	10	99	100	57-136	1.51	20
Ethylbenzene	9.90	10.0	10	99	100	60-152	1.06	20
Ethyl tert-butyl ether (ETBE)	9.99	10.1	10	100	101	55-137	1.42	20
Freon 113	8.92	9.01	10	89	90	47-138	1.08	20
Hexachlorobutadiene	10.6	10.9	10	106	109	66-160	2.42	20
Hexachloroethane	9.12	9.33	10	91	93	75-130	2.23	20
2-Hexanone	9.75	10.0	10	97	100	70-115	2.54	20
Isopropylbenzene	10.2	10.2	10	103	102	59-156	0.0608	20
4-Isopropyl toluene	9.95	10.2	10	100	102	75-138	2.54	20
Methyl-t-butyl ether (MTBE)	9.41	9.68	10	94	97	53-139	2.76	20
Methylene chloride	9.52	9.59	10	95	96	66-127	0.698	20
4-Methyl-2-pentanone (MIBK)	9.74	10.3	10	97	103	42-153	5.41	20
Naphthalene	9.31	9.51	10	93	95	66-127	2.05	20
n-Propyl benzene	9.75	9.93	10	97	99	54-155	1.91	20
Styrene	10.4	10.4	10	104	105	51-152	0.675	20
1,1,1,2-Tetrachloroethane	10.4	10.7	10	104	107	58-159	2.49	20
1,1,2,2-Tetrachloroethane	9.96	10.2	10	100	102	51-150	2.56	20
Tetrachloroethene	9.26	9.58	10	93	96	55-145	3.38	20
Toluene	9.58	9.81	10	96	98	52-137	2.39	20
1,2,3-Trichlorobenzene	9.65	9.92	10	97	99	70-136	2.79	20
1,2,4-Trichlorobenzene	10.2	10.5	10	102	105	74-137	2.91	20
1,1,1-Trichloroethane	10.2	10.4	10	102	105	57-156	2.00	20
1,1,2-Trichloroethane	9.64	9.86	10	96	99	51-150	2.22	20
Trichloroethene	9.06	9.23	10	91	92	43-157	1.80	20
Trichlorofluoromethane	9.33	9.42	10	93	94	50-147	0.875	20
1,2,3-Trichloropropane	9.42	9.64	10	94	96	41-152	2.37	20
1,2,4-Trimethylbenzene	10.3	10.4	10	103	104	57-157	1.18	20
1,3,5-Trimethylbenzene	10.2	10.4	10	102	104	56-159	2.07	20
Vinyl Chloride	9.32	8.81	10	93	88	42-137	5.62	20
Xylenes, Total	29.7	30.0	30	99	100	70-130	1.17	20
Surrogate Recovery								
Dibromofluoromethane	26.0	26.0	25	104	104	70-130	0	20
Toluene-d8	25.5	25.7	25	102	103	70-130	0.776	20
4-BFB	2.62	2.54	2.5	105	102	70-130	3.05	20

Quality Control Report

Client: P & D Environmental
Date Prepared: 8/14/17
Date Analyzed: 8/14/17
Instrument: GC3
Matrix: Water
Project: 0772; Phoenix Iron Works 800 Pine Street Oakland, CA 94607

WorkOrder: 1708573
BatchID: 143704
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L
Sample ID: MB/LCS-143704
1708538-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	50	-	-	-
MTBE	ND	5.0	-	-	-
Benzene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Xylenes	ND	1.5	-	-	-
Surrogate Recovery					
aaa-TFT	10.98		10	110	89-116

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	56.4		60	94		78-116		-
MTBE	8.24		10	82		72-122		-
Benzene	8.80		10	88		81-123		-
Toluene	9.24		10	92		83-129		-
Ethylbenzene	9.69		10	97		88-126		-
Xylenes	30.2		30	101		87-131		-
Surrogate Recovery								
aaa-TFT	10.7		10	107		89-116		-

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	57.3	57.2	60	ND	95	95	63-133	0	20
MTBE	8.38	7.92	10	ND	84	79	69-122	5.65	20
Benzene	9.17	8.93	10	ND	91	89	84-125	2.61	20
Toluene	9.58	9.34	10	ND	96	93	87-131	2.57	20
Ethylbenzene	9.98	9.84	10	ND	100	98	92-126	1.36	20
Xylenes	31.1	30.6	30	ND	104	102	88-132	1.69	20
Surrogate Recovery									
aaa-TFT	10.5	10.5	10		105	105	90-117	0	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1708573
Date Prepared:	8/14/17	**BatchID:**	143633
Date Analyzed:	8/14/17	**Extraction Method:**	SW3510C/3630C
Instrument:	GC11A	**Analytical Method:**	SW8015B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; Phoenix Iron Works 800 Pine Street Oakland, CA 94607	**Sample ID:**	MB/LCS/LCSD-143633

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	35	-	-	-
TPH-Motor Oil (C18-C36)	ND	75	-	-	-
Surrogate Recovery					
C26	100.6		125	80	70-112

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	135	148	200	68	74	60-142	8.92	30
Surrogate Recovery								
C26	103	108	125	83	86	70-112	4.29	30

QA/QC Officer

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1708573 **ClientCode: PDEO**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ▨ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
▨ Detection Summary ▨ Dry-Weight

Report to:
Paul King
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610
(510) 658-6916 FAX: 510-834-0152

Email: lab@pdenviro.com; Paul.King@pdenviro.c
cc/3rd Party:
PO:
ProjectNo: 0772; Phoenix Iron Works 800 Pine Street Oakland, CA 94607

Bill to:
Accounts Payable
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610

Requested TAT: **5 days;**

Date Received: **08/11/2017**
Date Logged: **08/11/2017**

					Requested Tests (See legend below)											
Lab ID	**Client ID**	**Matrix**	**Collection Date**	**Hold**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
1708573-001	GW1	Water	8/10/2017 15:23	☐	B	A	A									
1708573-002	GW2	Water	8/11/2017 09:20	☐	B	A	A									

Test Legend:

1	**8260B_W**	**2**	**G-MBTEX_W**	**3**	**TPH_LV_W**	**4**	
5		**6**		**7**		**8**	
9		**10**		**11**		**12**	

Prepared by: Agustina Venegas

The following SampIDs: 001A, 002A contain testgroup Multi RangeLV_W.

Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL

Client Contact: Paul King

Contact's Email: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

Project: 0772; Phoenix Iron Works 800 Pine Street Oakland, CA 94607

Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

Work Order: 1708573

QC Level: LEVEL 2

Date Logged: 8/11/2017

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1708573-001A	GW1	Water	Multi-Range (Large Volume) TPH(g,d,mo)	2	VOA w/ HCl & 1-1LA	☐	8/10/2017 15:23	5 days	1%+	☐	
				6	aVOA	☐			1%+	☐	
1708573-001B	GW1	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	8/10/2017 15:23	5 days	1%+	☐	
1708573-002A	GW2	Water	Multi-Range (Large Volume) TPH(g,d,mo)	2	VOA w/ HCl & 1-1LA	☐	8/11/2017 9:20	5 days	2%+	☐	
1708573-002B	GW2	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	8/11/2017 9:20	5 days	2%+	☐	

NOTES:
- **STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**
- **MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.**

CHAIN OF CUSTODY RECORD

1708573

PAGE 1 OF 1

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME: Phoenix Iron Works
800 Pine Street
Oakland, CA 94607

SAMPLED BY: (PRINTED & SIGNATURE) Lindsey Deschenes

	SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): TPH(G,D,BO,MO) LV*	VOCs by 8260B	PRESERVATIVE	REMARKS
-1	GW1	8/10/17	15:23	H_2O		7	X	X	Ice	Normal TAT
-2	GW2	8/11/17	9:20	H_2O		7	X	X	Ice	↓ ↓

RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: (SIGNATURE) Basil 8/11/17 11:05

Total No. of Samples (This Shipment): 2
Total No. of Containers (This Shipment): 14
LABORATORY: McCampbell Analytical

RELINQUISHED BY: (SIGNATURE) Basil | DATE 8/11/17 | TIME 18:20 | RECEIVED BY: (SIGNATURE)

LABORATORY CONTACT: Angela Rydelius
LABORATORY PHONE NUMBER: (877) 252-9262

RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RECEIVED FOR LABORATORY BY: (SIGNATURE)

SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES (✓) NO

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: *Large Volume Extraction for 100µg/L detection limit.

4.0

Sample Receipt Checklist

Client Name:	**P & D Environmental**	Date and Time Received	**8/11/2017 18:20**
Project Name:	**0772; Phoenix Iron Works 800 Pine Street Oakland, CA 94607**	Date Logged:	**8/11/2017**
		Received by:	Agustina Venegas
WorkOrder №:	**1708573** Matrix: Water	Logged by:	Agustina Venegas
Carrier:	Basit Sheikh (MAI Courier)		

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Sample IDs noted by Client on COC?	Yes ☑	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐	
Sampler's name noted on COC?	Yes ☑	No ☐	

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	NA ☐
Sample/Temp Blank temperature	Temp: 4°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	NA ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		

UCMR Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

Comments:

K PRIME, Inc.
CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

TRANSMITTAL

DATE: 8/22/2017

TO: MS. LINDSEY DESCHENES
P&D ENVIRONMENTAL, INC.
55 SANTA CLARA AVE., SUITE 240
OAKLAND, CA 94610

ACCT: 4639
PROJ: 0772

Phone: 510-658-6916
Fax: 510-834-0152
Email: lab@pdenviro.com

FROM: Richard A. Kagel, Ph.D. 8/22/2017
Laboratory Director

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT 0772

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
SG1	AIR	8/14/2017	10:58	157478
SG2	AIR	8/14/2017	14:14	157479
SG2 DUP	AIR	8/14/2017	14:14	157480
SG3	AIR	8/14/2017	11:53	157481

The above listed sample group was received on 8/15/2017 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information.
Thank you for this opportunity to be of service.

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4639
CLIENT PROJECT: 0772

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)

SAMPLE ID:	SG1
LAB NO:	157478
SAMPLE TYPE:	AIR
DATE SAMPLED:	8/14/2017
TIME SAMPLED:	10:58
BATCH ID:	081017A1
DATE ANALYZED:	8/16/2017

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	**CAS NO.**	**RL**	**SAMPLE CONC**	**RL**	**SAMPLE CONC**
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	2.90	5.62	16.3
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	ND	7.66	ND
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	159-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	16.9	4.88	82.5
1,1,1-TRICHLOROETHANE	71-55-6	1.00	ND	5.46	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRICHLOROETHENE	79-01-6	1.00	ND	5.37	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	1.09	3.77	4.11
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
TETRACHLOROETHENE	127-18-4	1.00	ND	6.78	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	179601-23-1	2.00	ND	8.68	ND
STYRENE	100-42-5	1.00	ND	4.26	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND	7.42	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
RL - REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: ______
DATE: 8/22/17

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4639
CLIENT PROJECT: 0772

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)

SAMPLE ID: SG2
LAB NO: 157479
SAMPLE TYPE: AIR
DATE SAMPLED: 8/14/2017
TIME SAMPLED: 14:14
BATCH ID: 081017A1
DATE ANALYZED: 8/16/2017

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	CAS NO.	RL	SAMPLE CONC	RL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	ND	5.62	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	ND	7.66	ND
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	159-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	27.0	4.88	132
1,1,1-TRICHLOROETHANE	71-55-6	1.00	ND	5.46	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRICHLOROETHENE	79-01-6	1.00	83.2	5.37	447
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	2.82	3.77	10.6
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
TETRACHLOROETHENE	127-18-4	1.00	4.21	6.78	28.6
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	179601-23-1	2.00	ND	8.68	ND
STYRENE	100-42-5	1.00	ND	4.26	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND	7.42	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	ND

NOTES:
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RL - REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY:
DATE: 8/22/17

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4639
CLIENT PROJECT: 0772

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)

SAMPLE ID:	SG2 DUP
LAB NO:	157480
SAMPLE TYPE:	AIR
DATE SAMPLED:	8/14/2017
TIME SAMPLED:	14:14
BATCH ID:	081017A1
DATE ANALYZED:	8/16/2017

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	**CAS NO.**	**RL**	**SAMPLE CONC**	**RL**	**SAMPLE CONC**
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	ND	5.62	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	ND	7.66	ND
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	159-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	26.2	4.88	128
1,1,1-TRICHLOROETHANE	71-55-6	1.00	ND	5.46	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRICHLOROETHENE	79-01-6	1.00	82.0	5.37	441
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	2.75	3.77	10.4
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
TETRACHLOROETHENE	127-18-4	1.00	4.16	6.78	28.2
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	179601-23-1	2.00	ND	8.68	ND
STYRENE	100-42-5	1.00	ND	4.26	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND	7.42	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
RL - REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: ______
DATE: 8/22/17

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4639
CLIENT PROJECT: 0772

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)

SAMPLE ID:	SG3
LAB NO:	157481
SAMPLE TYPE:	AIR
DATE SAMPLED:	8/14/2017
TIME SAMPLED:	11:53
BATCH ID:	081017A1
DATE ANALYZED:	8/16/2017

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	CAS NO.	RL	SAMPLE CONC	RL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	1.07	5.62	6.01
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	ND	7.66	ND
METHYLENE CHLORIDE	75-09-2	1.00	1.23	3.47	4.27
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	159-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	3.04	4.88	14.8
1,1,1-TRICHLOROETHANE	71-55-6	1.00	3.90	5.46	21.3
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRICHLOROETHENE	79-01-6	1.00	ND	5.37	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	ND	3.77	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
TETRACHLOROETHENE	127-18-4	1.00	6.28	6.78	42.6
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	179601-23-1	2.00	ND	8.68	ND
STYRENE	100-42-5	1.00	ND	4.26	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND	7.42	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
RL - REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: ____________
DATE: 8/22/17

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4639
CLIENT PROJECT: 0772

METHOD: 1,1-DIFLUOROETHANE
REFERENCE: EPA TO 3

UNITS: PPMV

SAMPLE ID	LAB NO.	SAMPLE TYPE	DATE SAMPLED	BATCH ID	DATE ANALYZED	MRL	SAMPLE CONC
SG1	157478	AIR	08/14/2017	081617A1	08/16/2017	10.0	ND
SG2	157479	AIR	08/14/2017	081617A1	08/16/2017	10.0	ND
SG2 DUP	157480	AIR	08/14/2017	081617A1	08/16/2017	10.0	ND
SG3	157481	AIR	08/14/2017	081617A1	08/16/2017	10.0	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
MRL - METHOD REPORTING LIMIT

APPROVED BY: ____________
DATE: 8/22/17

K PRIME, INC.

LABORATORY METHOD BLANK REPORT

METHOD BLANK ID: B081017A1
SAMPLE TYPE: AIR

BATCH ID: 081017A1
DATE ANALYZED: 8/10/2017

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	**CAS NO.**	**RL**	**SAMPLE CONC**	**RL**	**SAMPLE CONC**
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND	2.47	ND
CHLOROMETHANE	74-87-3	0.500	ND	1.03	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	0.500	ND	3.50	ND
VINYL CHLORIDE	75-01-4	0.500	ND	1.28	ND
BROMOMETHANE	74-83-9	0.500	ND	1.94	ND
CHLOROETHANE	75-00-3	0.500	ND	1.32	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND	2.81	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND	1.98	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND	3.83	ND
METHYLENE CHLORIDE	75-09-2	0.500	ND	1.74	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND	2.02	ND
CIS-1,2-DICHLOROETHENE	159-59-2	0.500	ND	1.98	ND
CHLOROFORM	67-66-3	0.500	ND	2.44	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND	2.73	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND	2.02	ND
BENZENE	71-43-2	0.500	ND	1.60	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND	3.15	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND	2.31	ND
TRICHLOROETHENE	79-01-6	0.500	ND	2.69	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND	2.27	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND	2.27	ND
TOLUENE	108-88-3	0.500	ND	1.88	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND	2.73	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND	3.84	ND
TETRACHLOROETHENE	127-18-4	0.500	ND	3.39	ND
CHLOROBENZENE	108-90-7	0.500	ND	2.30	ND
ETHYLBENZENE	100-41-4	0.500	ND	2.17	ND
XYLENE (M+P)	179601-23-1	1.00	ND	4.34	ND
STYRENE	100-42-5	0.500	ND	2.13	ND
XYLENE (O)	95-47-6	0.500	ND	2.17	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND	3.43	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND	2.46	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND	2.46	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND	3.01	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND	3.01	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND	3.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.500	ND	3.71	ND
HEXACHLOROBUTADIENE	87-68-3	0.500	ND	5.33	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
MRL - METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

K PRIME, INC.
LABORATORY QUALITY CONTROL REPORT

LAB CONTROL ID: L081017A1
LAB CONTROL DUPLICATE ID: D081017A1

SAMPLE TYPE: AIR
BATCH ID: 081017A1
DATE ANALYZED: 8/10/2017

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)

COMPOUND NAME	SPIKE ADDED (PPB)	REPORTING LIMIT (PPB)	SAMPLE CONC (PPB)	SPIKE CONC (PPB)	SPIKE REC (%)	REC LIMITS (%)
1,1-DICHLOROETHENE	10.0	0.500	ND	10.5	105	60 - 140
BENZENE	10.0	0.500	ND	11.4	114	60 - 140
TRICHLOROETHENE	10.0	0.500	ND	9.92	99	60 - 140
TOLUENE	10.0	0.500	ND	11.6	116	60 - 140
TETRACHLOROETHENE	10.0	0.500	ND	9.21	92	60 - 140

COMPOUND NAME	SPIKE ADDED (PPB)	SPIKE DUP CONC (PPB)	SPIKE DUP REC (%)	RPD (%)	QC LIMITS RPD (%)	QC LIMITS REC (%)
1,1-DICHLOROETHENE	10.0	10.4	104	0.7	25	60 - 140
BENZENE	10.0	11.4	114	0.2	25	60 - 140
TRICHLOROETHENE	10.0	9.82	98	1.0	25	60 - 140
TOLUENE	10.0	11.5	115	0.9	25	60 - 140
TETRACHLOROETHENE	10.0	9.26	93	0.5	25	60 - 140

NOTES:
NA - NOT APPLICABLE OR AVAILABLE
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

K PRIME, INC.
LABORATORY QC REPORT

METHOD BLANK ID: B081617A1
LAB CONTROL SAMPLE ID: L081617A1
LAB CONTROL DUPLICATE ID: D081617A1
BATCH ID: 081617A1

METHOD: 1,1-DIFLUOROETHANE
REFERENCE: EPA TO 3

SAMPLE TYPE: AIR
UNITS: PPM -V/V

METHOD BLANK

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
1,1-DIFLUOROETHANE	10.0	ND

ACCURACY (LAB CONTROL SAMPLE)

COMPOUND NAME	EXPECTED CONC	MEASURED CONC	PERCENT RECOVERY	LIMITS (PERCENT)
1,1-DIFLUOROETHANE	10000	10000	100	60-140

PRECISION (LAB CONTROL DUPLICATE)

COMPOUND NAME	SAMPLE RESULT	DUPLICATE RESULT	RPD (PERCENT)	LIMITS (PERCENT)
1,1-DIFLUOROETHANE	10000	9880	1.2	±30

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

P&D ENVIRONMENTAL, INC.

55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME:
Phoenix Iron Works
800 Pine Street
Oakland, CA 94607

SAMPLED BY: (PRINTED & SIGNATURE) Lindsey Deschenes

4639

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION Initial Vacuum	Final Vacuum	Summa	PID (PPM)	NUMBER OF CONTAINERS	ANALYSIS(ES): TO-15 for VOC	DFA				PRESERVATIVE	REMARKS
SG1	8/14/17	10:58	Soil Gas	-30		S-728		1	X	X			157478	None	One Week TAT*
		11:05	"		-5		1.2								
SG2	8/14/17	14:14	"	-26		S-656		1	X	X			157479		
		14:39	"		-5		0.6								
SG2 DUP	8/14/17	14:14	"	-26		S-722		1	X	X			157480		
		14:39	"		-5		0.6								
SG3	8/14/17	11:53	"	-30		S-251		1	X	X			157481		
		12:01	"		-5		1.2								

RELINQUISHED BY: (SIGNATURE)	DATE 8-15	TIME 12-41	RECEIVED BY: (SIGNATURE)	Total No. of Samples (This Shipment) 4 Total No. of Containers (This Shipment) 4	LABORATORY: K-Prime Inc.
RELINQUISHED BY: (SIGNATURE)	DATE 8-15	TIME 1455	RECEIVED BY: (SIGNATURE) 8-15-17 14:55	LABORATORY CONTACT: Richard Kagel	LABORATORY PHONE NUMBER: (707) 527-7574
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES (✓) NO	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: * Results by August 24, 2017

K PRIME, Inc.
CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

TRANSMITTAL

DATE: 8/24/2017

TO:
MS. LINDSEY DESCHENES
P&D ENVIRONMENTAL, INC.
55 SANTA CLARA AVE., SUITE 240
OAKLAND, CA 94610

ACCT: 4639
PROJ: 0772

Phone: 510-658-6916
Fax: 510-834-0152
Email: lab@pdenviro.com

FROM:
Richard A. Kagel, Ph.D.
Laboratory Director

RAK by TJ 8/24/2017

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT 0772

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
SG1 DFA	AIR	8/14/2017	11:02	157540
SG2 DFA	AIR	8/14/2017	14:28	157541
SG3 DFA	AIR	8/14/2017	11:57	157542

The above listed sample group was received on 8/17/2017 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information.
Thank you for this opportunity to be of service.

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4639
CLIENT PROJECT: 0772

METHOD: 1,1-DIFLUOROETHANE
REFERENCE: EPA TO 3 **UNITS:** PPMV

SAMPLE ID	LAB NO.	SAMPLE TYPE	DATE SAMPLED	BATCH ID	DATE ANALYZED	MRL	SAMPLE CONC
SG1 DFA	157540	AIR	08/14/2017	081617A1	08/17/2017	5.00	397
SG2 DFA	157541	AIR	08/14/2017	081617A1	08/17/2017	5.00	26.5
SG3 DFA	157542	AIR	08/14/2017	081617A1	08/17/2017	5.00	1140

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
MRL - METHOD REPORTING LIMIT

APPROVED BY: TJ
DATE: 8/24/2017

K PRIME, INC.
LABORATORY QC REPORT

METHOD BLANK ID:	B081617A1
LAB CONTROL SAMPLE ID:	L081617A1
LAB CONTROL DUPLICATE ID:	D081617A1
BATCH ID:	081617A1

METHOD: 1,1-DIFLUOROETHANE
REFERENCE: EPA TO 3

SAMPLE TYPE: AIR
UNITS: PPM -V/V

METHOD BLANK

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
1,1-DIFLUOROETHANE	10.0	ND

ACCURACY (LAB CONTROL SAMPLE)

COMPOUND NAME	EXPECTED CONC	MEASURED CONC	PERCENT RECOVERY	LIMITS (PERCENT)
1,1-DIFLUOROETHANE	10000	10000	100	60-140

PRECISION (LAB CONTROL DUPLICATE)

COMPOUND NAME	SAMPLE RESULT	DUPLICATE RESULT	RPD (PERCENT)	LIMITS (PERCENT)
1,1-DIFLUOROETHANE	10000	9880	1.2	±30

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME:
Phoenix Iron Works
800 Pine Street
Oakland, CA 94607

SAMPLED BY: (PRINTED & SIGNATURE) Lindsey Deschenes

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): DFA		PRESERVATIVE	REMARKS
SG1 DFA	8/14/17	11:02	Air	Shroud	1	X	157540	None	One Week TAT*
SG2 DFA	8/14/17	14:28	"	"	1	X	157541	"	"
SG3 DFA	8/14/17	11:57	"	"	1	X	157542	"	"

RELINQUISHED BY: (SIGNATURE) — DATE 8/16/17 TIME 8:09

RECEIVED BY: (SIGNATURE)

Total No. of Samples (This Shipment): 3
Total No. of Containers (This Shipment): 3

LABORATORY: K-Prime, Inc.

RELINQUISHED BY: (SIGNATURE) UPS 125E0A594307067727 — DATE 8/17/17 TIME 14:42

RECEIVED BY: (SIGNATURE) Jenna Wat

LABORATORY CONTACT: Richard Kagel

LABORATORY PHONE NUMBER: (707) 527-7574

RELINQUISHED BY: (SIGNATURE) — DATE TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)

SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES (✓) NO

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: *Results by August 24, 2017

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1708699

Report Created for: P & D Environmental

55 Santa Clara, Ste.240
Oakland, CA 94610

Project Contact: Paul King
Project P.O.:
Project Name: 0772; Phoenix Iron Works

Project Received: 08/15/2017

Analytical Report reviewed & approved for release on 08/24/2017 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
CA ELAP 1644 ♦ NELAP 4033ORELAP

Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: 0772; Phoenix Iron Works
WorkOrder: 1708699

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 μm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Glossary of Terms & Qualifier Definitions

Client:	P & D Environmental
Project:	0772; Phoenix Iron Works
WorkOrder:	1708699

Analytical Qualifiers

e2	Diesel range compounds are significant; no recognizable pattern
e7	Oil range compounds are significant

Quality Control Qualifiers

F13	Indigenous sample results too high for a representative matrix spike analysis.

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1708699
Date Received:	8/15/17 15:47	**Extraction Method:**	SW5030B
Date Prepared:	8/15/17	**Analytical Method:**	SW8260B
Project:	0772; Phoenix Iron Works	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Drum 1	**1708699-001A**	**Soil**	**08/14/2017 13:40**	**GC18**	**143717**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	08/23/2017 16:33
tert-Amyl methyl ether (TAME)	ND	0.0050	1	08/23/2017 16:33
Benzene	ND	0.0050	1	08/23/2017 16:33
Bromobenzene	ND	0.0050	1	08/23/2017 16:33
Bromochloromethane	ND	0.0050	1	08/23/2017 16:33
Bromodichloromethane	ND	0.0050	1	08/23/2017 16:33
Bromoform	ND	0.0050	1	08/23/2017 16:33
Bromomethane	ND	0.0050	1	08/23/2017 16:33
2-Butanone (MEK)	ND	0.020	1	08/23/2017 16:33
t-Butyl alcohol (TBA)	ND	0.050	1	08/23/2017 16:33
n-Butyl benzene	ND	0.0050	1	08/23/2017 16:33
sec-Butyl benzene	ND	0.0050	1	08/23/2017 16:33
tert-Butyl benzene	ND	0.0050	1	08/23/2017 16:33
Carbon Disulfide	ND	0.0050	1	08/23/2017 16:33
Carbon Tetrachloride	ND	0.0050	1	08/23/2017 16:33
Chlorobenzene	ND	0.0050	1	08/23/2017 16:33
Chloroethane	ND	0.0050	1	08/23/2017 16:33
Chloroform	ND	0.0050	1	08/23/2017 16:33
Chloromethane	ND	0.0050	1	08/23/2017 16:33
2-Chlorotoluene	ND	0.0050	1	08/23/2017 16:33
4-Chlorotoluene	ND	0.0050	1	08/23/2017 16:33
Dibromochloromethane	ND	0.0050	1	08/23/2017 16:33
1,2-Dibromo-3-chloropropane	ND	0.0040	1	08/23/2017 16:33
1,2-Dibromoethane (EDB)	ND	0.0040	1	08/23/2017 16:33
Dibromomethane	ND	0.0050	1	08/23/2017 16:33
1,2-Dichlorobenzene	ND	0.0050	1	08/23/2017 16:33
1,3-Dichlorobenzene	ND	0.0050	1	08/23/2017 16:33
1,4-Dichlorobenzene	ND	0.0050	1	08/23/2017 16:33
Dichlorodifluoromethane	ND	0.0050	1	08/23/2017 16:33
1,1-Dichloroethane	ND	0.0050	1	08/23/2017 16:33
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	08/23/2017 16:33
1,1-Dichloroethene	ND	0.0050	1	08/23/2017 16:33
cis-1,2-Dichloroethene	ND	0.0050	1	08/23/2017 16:33
trans-1,2-Dichloroethene	ND	0.0050	1	08/23/2017 16:33
1,2-Dichloropropane	ND	0.0050	1	08/23/2017 16:33
1,3-Dichloropropane	ND	0.0050	1	08/23/2017 16:33
2,2-Dichloropropane	ND	0.0050	1	08/23/2017 16:33

(Cont.)

Angela Rydelius, Lab Manager

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1708699
Date Received:	8/15/17 15:47	**Extraction Method:**	SW5030B
Date Prepared:	8/15/17	**Analytical Method:**	SW8260B
Project:	0772; Phoenix Iron Works	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Drum 1	**1708699-001A**	**Soil**	**08/14/2017 13:40**	**GC18**	**143717**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	08/23/2017 16:33
cis-1,3-Dichloropropene	ND	0.0050	1	08/23/2017 16:33
trans-1,3-Dichloropropene	ND	0.0050	1	08/23/2017 16:33
Diisopropyl ether (DIPE)	ND	0.0050	1	08/23/2017 16:33
Ethanol	ND	0.50	1	08/23/2017 16:33
Ethylbenzene	ND	0.0050	1	08/23/2017 16:33
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	08/23/2017 16:33
Freon 113	ND	0.0050	1	08/23/2017 16:33
Hexachlorobutadiene	ND	0.0050	1	08/23/2017 16:33
Hexachloroethane	ND	0.0050	1	08/23/2017 16:33
2-Hexanone	ND	0.0050	1	08/23/2017 16:33
Isopropylbenzene	ND	0.0050	1	08/23/2017 16:33
4-Isopropyl toluene	ND	0.0050	1	08/23/2017 16:33
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	08/23/2017 16:33
Methylene chloride	ND	0.0050	1	08/23/2017 16:33
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	08/23/2017 16:33
Naphthalene	ND	0.0050	1	08/23/2017 16:33
n-Propyl benzene	ND	0.0050	1	08/23/2017 16:33
Styrene	ND	0.0050	1	08/23/2017 16:33
1,1,1,2-Tetrachloroethane	ND	0.0050	1	08/23/2017 16:33
1,1,2,2-Tetrachloroethane	ND	0.0050	1	08/23/2017 16:33
Tetrachloroethene	ND	0.0050	1	08/23/2017 16:33
Toluene	ND	0.0050	1	08/23/2017 16:33
1,2,3-Trichlorobenzene	ND	0.0050	1	08/23/2017 16:33
1,2,4-Trichlorobenzene	ND	0.0050	1	08/23/2017 16:33
1,1,1-Trichloroethane	ND	0.0050	1	08/23/2017 16:33
1,1,2-Trichloroethane	ND	0.0050	1	08/23/2017 16:33
Trichloroethene	ND	0.0050	1	08/23/2017 16:33
Trichlorofluoromethane	ND	0.0050	1	08/23/2017 16:33
1,2,3-Trichloropropane	ND	0.0050	1	08/23/2017 16:33
1,2,4-Trimethylbenzene	ND	0.0050	1	08/23/2017 16:33
1,3,5-Trimethylbenzene	ND	0.0050	1	08/23/2017 16:33
Vinyl Chloride	ND	0.0050	1	08/23/2017 16:33
Xylenes, Total	ND	0.0050	1	08/23/2017 16:33

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1708699
Date Received:	8/15/17 15:47	**Extraction Method:**	SW5030B
Date Prepared:	8/15/17	**Analytical Method:**	SW8260B
Project:	0772; Phoenix Iron Works	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Drum 1	**1708699-001A**	**Soil**	**08/14/2017 13:40**	**GC18**	**143717**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	103	70-130		08/23/2017 16:33
Toluene-d8	103	70-130		08/23/2017 16:33
4-BFB	87	70-130		08/23/2017 16:33
Benzene-d6	97	60-140		08/23/2017 16:33
Ethylbenzene-d10	95	60-140		08/23/2017 16:33
1,2-DCB-d4	64	60-140		08/23/2017 16:33

Analyst(s): AK

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1708699
Date Received:	8/15/17 15:47	**Extraction Method:**	SW3050B
Date Prepared:	8/15/17	**Analytical Method:**	SW6020
Project:	0772; Phoenix Iron Works	**Unit:**	mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Drum 1	**1708699-001A**	**Soil**	**08/14/2017 13:40**	**ICP-MS3**	**143767**

Analytes	Result	RL	DF	Date Analyzed
Antimony	**3.3**	0.50	1	08/17/2017 01:01
Arsenic	**2.6**	0.50	1	08/17/2017 01:01
Barium	**140**	5.0	1	08/17/2017 01:01
Beryllium	ND	0.50	1	08/17/2017 01:01
Cadmium	**0.51**	0.25	1	08/17/2017 01:01
Chromium	**39**	0.50	1	08/17/2017 01:01
Cobalt	**5.0**	0.50	1	08/17/2017 01:01
Copper	**17**	0.50	1	08/17/2017 01:01
Lead	**1100**	5.0	10	08/17/2017 12:09
Mercury	**0.11**	0.050	1	08/17/2017 01:01
Molybdenum	ND	0.50	1	08/17/2017 01:01
Nickel	**32**	0.50	1	08/17/2017 01:01
Selenium	ND	0.50	1	08/17/2017 01:01
Silver	ND	0.50	1	08/17/2017 01:01
Thallium	ND	0.50	1	08/17/2017 01:01
Vanadium	**24**	0.50	1	08/17/2017 01:01
Zinc	**250**	5.0	1	08/17/2017 01:01

Surrogates	REC (%)	Limits	
Terbium	102	70-130	08/17/2017 01:01

Analyst(s): DB, ND

Angela Rydelius, Lab Manager

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1708699
Date Received:	8/15/17 15:47	**Extraction Method:**	SW5030B
Date Prepared:	8/15/17	**Analytical Method:**	SW8021B/8015Bm
Project:	0772; Phoenix Iron Works	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Drum 1	**1708699-001A**	**Soil**	**08/14/2017 13:40**	**GC19**	**143756**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	08/16/2017 21:37
MTBE	---	0.050	1	08/16/2017 21:37
Benzene	---	0.0050	1	08/16/2017 21:37
Toluene	---	0.0050	1	08/16/2017 21:37
Ethylbenzene	---	0.0050	1	08/16/2017 21:37
Xylenes	---	0.015	1	08/16/2017 21:37

Surrogates	REC (%)	Limits		
2-Fluorotoluene	83	62-126		08/16/2017 21:37

Analyst(s): IA

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1708699
Date Received:	8/15/17 15:47	**Extraction Method:**	SW3550B
Date Prepared:	8/15/17	**Analytical Method:**	SW8015B
Project:	0772; Phoenix Iron Works	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Drum 1	**1708699-001A**	**Soil**	**08/14/2017 13:40**	**GC9b**	**143745**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**8.4**	1.0	1	08/17/2017 04:10
TPH-Motor Oil (C18-C36)	**29**	5.0	1	08/17/2017 04:10

Surrogates	REC (%)	Limits	
C9	92	78-109	08/17/2017 04:10

Analyst(s): TK

Analytical Comments: e7,e2

NELAP 4033ORELAP

Angela Rydelius, Lab Manager

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1708699
Date Prepared:	8/15/17	**BatchID:**	143717
Date Analyzed:	8/15/17 - 8/16/17	**Extraction Method:**	SW5030B
Instrument:	GC10, GC18	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	0772; Phoenix Iron Works	**Sample ID:**	MB/LCS-143717 1708646-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	0.777	0.10	1	-	78	72-156
tert-Amyl methyl ether (TAME)	ND	0.0347	0.0050	0.050	-	69	53-116
Benzene	ND	0.0409	0.0050	0.050	-	82	63-137
Bromobenzene	ND	0.0417	0.0050	0.050	-	83	68-126
Bromochloromethane	ND	0.0378	0.0050	0.050	-	76	72-126
Bromodichloromethane	ND	0.0375	0.0050	0.050	-	75	61-127
Bromoform	ND	0.0310	0.0050	0.050	-	62	49-100
Bromomethane	ND	0.0484	0.0050	0.050	-	97	40-161
2-Butanone (MEK)	ND	0.144	0.020	0.20	-	72	43-157
t-Butyl alcohol (TBA)	ND	0.131	0.050	0.20	-	65	41-135
n-Butyl benzene	ND	0.0565	0.0050	0.050	-	113	102-160
sec-Butyl benzene	ND	0.0575	0.0050	0.050	-	115	74-168
tert-Butyl benzene	ND	0.0524	0.0050	0.050	-	105	88-157
Carbon Disulfide	ND	0.0401	0.0050	0.050	-	80	42-151
Carbon Tetrachloride	ND	0.0422	0.0050	0.050	-	84	49-149
Chlorobenzene	ND	0.0412	0.0050	0.050	-	82	77-121
Chloroethane	ND	0.0415	0.0050	0.050	-	83	41-134
Chloroform	ND	0.0393	0.0050	0.050	-	79	69-133
Chloromethane	ND	0.0444	0.0050	0.050	-	89	31-119
2-Chlorotoluene	ND	0.0488	0.0050	0.050	-	98	79-139
4-Chlorotoluene	ND	0.0470	0.0050	0.050	-	94	77-138
Dibromochloromethane	ND	0.0365	0.0050	0.050	-	73	58-121
1,2-Dibromo-3-chloropropane	ND	0.0115	0.0040	0.020	-	58	39-115
1,2-Dibromoethane (EDB)	ND	0.0362	0.0040	0.050	-	72	67-119
Dibromomethane	ND	0.0337	0.0050	0.050	-	67	66-117
1,2-Dichlorobenzene	ND	0.0354	0.0050	0.050	-	71	59-109
1,3-Dichlorobenzene	ND	0.0447	0.0050	0.050	-	89	75-130
1,4-Dichlorobenzene	ND	0.0412	0.0050	0.050	-	82	71-122
Dichlorodifluoromethane	ND	0.0218	0.0050	0.050	-	44	43-68
1,1-Dichloroethane	ND	0.0407	0.0050	0.050	-	81	62-139
1,2-Dichloroethane (1,2-DCA)	ND	0.0391	0.0040	0.050	-	78	58-135
1,1-Dichloroethene	ND	0.0380	0.0050	0.050	-	76	42-145
cis-1,2-Dichloroethene	ND	0.0394	0.0050	0.050	-	79	67-129
trans-1,2-Dichloroethene	ND	0.0395	0.0050	0.050	-	79	54-139
1,2-Dichloropropane	ND	0.0388	0.0050	0.050	-	78	68-125
1,3-Dichloropropane	ND	0.0385	0.0050	0.050	-	77	65-125
2,2-Dichloropropane	ND	0.0411	0.0050	0.050	-	82	45-151

(Cont.)

QA/QC Officer

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1708699
Date Prepared:	8/15/17	**BatchID:**	143717
Date Analyzed:	8/15/17 - 8/16/17	**Extraction Method:**	SW5030B
Instrument:	GC10, GC18	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	0772; Phoenix Iron Works	**Sample ID:**	MB/LCS-143717 1708646-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	0.0410	0.0050	0.050	-	82	64-138
cis-1,3-Dichloropropene	ND	0.0412	0.0050	0.050	-	82	62-134
trans-1,3-Dichloropropene	ND	0.0411	0.0050	0.050	-	82	59-128
Diisopropyl ether (DIPE)	ND	0.0389	0.0050	0.050	-	78	52-129
Ethanol	ND	1.92	0.50	2.5	-	77	40-113
Ethylbenzene	ND	0.0454	0.0050	0.050	-	91	74-142
Ethyl tert-butyl ether (ETBE)	ND	0.0380	0.0050	0.050	-	76	53-125
Freon 113	ND	0.0351	0.0050	0.050	-	70	51-126
Hexachlorobutadiene	ND	0.0501	0.0050	0.050	-	100	70-158
Hexachloroethane	ND	0.0510	0.0050	0.050	-	102	80-160
2-Hexanone	ND	0.0303	0.0050	0.050	-	61	41-116
Isopropylbenzene	ND	0.0550	0.0050	0.050	-	110	77-146
4-Isopropyl toluene	ND	0.0546	0.0050	0.050	-	109	96-159
Methyl-t-butyl ether (MTBE)	ND	0.0365	0.0050	0.050	-	73	58-122
Methylene chloride	ND	0.0428	0.0050	0.050	-	86	58-135
4-Methyl-2-pentanone (MIBK)	ND	0.0311	0.0050	0.050	-	62	40-112
Naphthalene	ND	0.0177	0.0050	0.050	-	35	23-73
n-Propyl benzene	ND	0.0541	0.0050	0.050	-	108	82-160
Styrene	ND	0.0402	0.0050	0.050	-	80	68-124
1,1,1,2-Tetrachloroethane	ND	0.0405	0.0050	0.050	-	81	70-128
1,1,2,2-Tetrachloroethane	ND	0.0327	0.0050	0.050	-	65	57-111
Tetrachloroethene	ND	0.0442	0.0050	0.050	-	88	73-145
Toluene	ND	0.0433	0.0050	0.050	-	87	76-130
1,2,3-Trichlorobenzene	ND	0.0235	0.0050	0.050	-	47	43-72
1,2,4-Trichlorobenzene	ND	0.0302	0.0050	0.050	-	60	47-95
1,1,1-Trichloroethane	ND	0.0405	0.0050	0.050	-	81	60-141
1,1,2-Trichloroethane	ND	0.0364	0.0050	0.050	-	73	62-118
Trichloroethene	ND	0.0399	0.0050	0.050	-	80	72-132
Trichlorofluoromethane	ND	0.0376	0.0050	0.050	-	75	43-135
1,2,3-Trichloropropane	ND	0.0366	0.0050	0.050	-	73	57-122
1,2,4-Trimethylbenzene	ND	0.0516	0.0050	0.050	-	103	81-152
1,3,5-Trimethylbenzene	ND	0.0542	0.0050	0.050	-	108	78-160
Vinyl Chloride	ND	0.0402	0.0050	0.050	-	80	42-131
Xylenes, Total	ND	0.132	0.0050	0.15	-	88	70-130

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1708699
Date Prepared:	8/15/17	**BatchID:**	143717
Date Analyzed:	8/15/17 - 8/16/17	**Extraction Method:**	SW5030B
Instrument:	GC10, GC18	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	0772; Phoenix Iron Works	**Sample ID:**	MB/LCS-143717 1708646-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.1286	0.130		0.12	103	104	70-130
Toluene-d8	0.1425	0.141		0.12	114	113	70-130
4-BFB	0.01401	0.0137		0.012	112	110	70-130
Benzene-d6	0.1	0.0993		0.10	100	99	60-140
Ethylbenzene-d10	0.1069	0.104		0.10	107	104	60-140
1,2-DCB-d4	0.07652	0.0813		0.10	77	81	60-140

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1708699
Date Prepared:	8/15/17	**BatchID:**	143717
Date Analyzed:	8/15/17 - 8/16/17	**Extraction Method:**	SW5030B
Instrument:	GC10, GC18	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	0772; Phoenix Iron Works	**Sample ID:**	MB/LCS-143717 1708646-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acetone	0.854	0.849	1	ND	85	85	72-156	0	20
tert-Amyl methyl ether (TAME)	0.0383	0.0380	0.050	ND	77	76	53-116	0.847	20
Benzene	0.0443	0.0438	0.050	ND	89	88	63-137	1.12	20
Bromobenzene	0.0443	0.0432	0.050	ND	89	86	68-126	2.44	20
Bromochloromethane	0.0411	0.0403	0.050	ND	82	81	72-126	1.82	20
Bromodichloromethane	0.0425	0.0415	0.050	ND	85	83	61-127	2.36	20
Bromoform	0.0334	0.0324	0.050	ND	67	65	49-100	3.08	20
Bromomethane	0.0416	0.0403	0.050	ND	83	81	40-161	3.21	20
2-Butanone (MEK)	0.168	0.165	0.20	ND	80	79	43-157	1.43	20
t-Butyl alcohol (TBA)	0.157	0.158	0.20	ND	79	79	41-135	0	20
n-Butyl benzene	0.0673	0.0643	0.050	ND	135	129	102-160	4.59	20
sec-Butyl benzene	0.0653	0.0645	0.050	ND	131	129	74-168	1.24	20
tert-Butyl benzene	0.0633	0.0619	0.050	ND	127	124	88-157	2.23	20
Carbon Disulfide	0.0498	0.0492	0.050	ND	100	98	42-151	1.22	20
Carbon Tetrachloride	0.0518	0.0512	0.050	ND	104	102	49-149	1.03	20
Chlorobenzene	0.0441	0.0432	0.050	ND	88	86	77-121	2.19	20
Chloroethane	0.0418	0.0408	0.050	ND	84	82	41-134	2.43	20
Chloroform	0.0448	0.0440	0.050	ND	90	88	69-133	1.82	20
Chloromethane	0.0411	0.0388	0.050	ND	82	78	31-119	5.72	20
2-Chlorotoluene	0.0530	0.0525	0.050	ND	106	105	79-139	0.948	20
4-Chlorotoluene	0.0498	0.0497	0.050	ND	100	99	77-138	0.276	20
Dibromochloromethane	0.0386	0.0382	0.050	ND	77	76	58-121	1.13	20
1,2-Dibromo-3-chloropropane	0.0163	0.0157	0.020	ND	82	78	39-115	3.83	20
1,2-Dibromoethane (EDB)	0.0431	0.0424	0.050	ND	86	85	67-119	1.83	20
Dibromomethane	0.0382	0.0379	0.050	ND	76	76	66-117	0	20
1,2-Dichlorobenzene	0.0376	0.0372	0.050	ND	75	74	59-109	1.10	20
1,3-Dichlorobenzene	0.0468	0.0459	0.050	ND	94	92	75-130	1.93	20
1,4-Dichlorobenzene	0.0432	0.0421	0.050	ND	86	84	71-122	2.49	20
Dichlorodifluoromethane	0.0228	0.0220	0.050	ND	46	44	43-68	3.96	20
1,1-Dichloroethane	0.0456	0.0449	0.050	ND	91	90	62-139	1.72	20
1,2-Dichloroethane (1,2-DCA)	0.0410	0.0406	0.050	ND	82	81	58-135	1.15	20
1,1-Dichloroethene	0.0439	0.0438	0.050	ND	88	88	42-145	0	20
cis-1,2-Dichloroethene	0.0484	0.0470	0.050	ND	97	94	67-129	3.03	20
trans-1,2-Dichloroethene	0.0377	0.0368	0.050	ND	75	74	54-139	2.32	20
1,2-Dichloropropane	0.0425	0.0420	0.050	ND	85	84	68-125	1.20	20
1,3-Dichloropropane	0.0460	0.0448	0.050	ND	92	90	65-125	2.80	20
2,2-Dichloropropane	0.0482	0.0476	0.050	ND	96	95	45-151	1.17	20

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1708699
Date Prepared:	8/15/17	**BatchID:**	143717
Date Analyzed:	8/15/17 - 8/16/17	**Extraction Method:**	SW5030B
Instrument:	GC10, GC18	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	0772; Phoenix Iron Works	**Sample ID:**	MB/LCS-143717 1708646-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloropropene	0.0445	0.0433	0.050	ND	89	87	64-138	2.75	20
cis-1,3-Dichloropropene	0.0479	0.0473	0.050	ND	96	95	62-134	1.24	20
trans-1,3-Dichloropropene	0.0432	0.0425	0.050	ND	86	85	59-128	1.46	20
Diisopropyl ether (DIPE)	0.0434	0.0425	0.050	ND	87	85	52-129	2.20	20
Ethanol	2.57	2.54	2.5	ND	96	95	40-113	0.945	20
Ethylbenzene	0.0525	0.0505	0.050	ND	105	101	74-142	3.77	20
Ethyl tert-butyl ether (ETBE)	0.0422	0.0416	0.050	ND	84	83	53-125	1.40	20
Freon 113	0.0402	0.0400	0.050	ND	80	80	51-126	0	20
Hexachlorobutadiene	0.0636	0.0607	0.050	ND	127	121	70-158	4.56	20
Hexachloroethane	0.0535	0.0511	0.050	ND	107	102	80-160	4.59	20
2-Hexanone	0.0372	0.0373	0.050	ND	74	75	41-116	0.246	20
Isopropylbenzene	0.0566	0.0546	0.050	ND	113	109	77-146	3.74	20
4-Isopropyl toluene	0.0604	0.0587	0.050	ND	121	117	96-159	2.85	20
Methyl-t-butyl ether (MTBE)	0.0394	0.0387	0.050	ND	79	77	58-122	1.74	20
Methylene chloride	0.0443	0.0441	0.050	ND	89	88	58-135	0.401	20
4-Methyl-2-pentanone (MIBK)	0.0374	0.0378	0.050	ND	75	76	40-112	0.950	20
Naphthalene	0.0219	0.0214	0.050	ND	44	43	23-73	2.24	20
n-Propyl benzene	0.0611	0.0598	0.050	ND	122	119	82-160	2.19	20
Styrene	0.0442	0.0430	0.050	ND	88	86	68-124	2.79	20
1,1,1,2-Tetrachloroethane	0.0482	0.0476	0.050	ND	96	95	70-128	1.23	20
1,1,2,2-Tetrachloroethane	0.0418	0.0412	0.050	ND	84	83	57-111	1.41	20
Tetrachloroethene	0.0524	0.0506	0.050	ND	105	101	73-145	3.49	20
Toluene	0.0504	0.0490	0.050	ND	101	98	76-130	2.94	20
1,2,3-Trichlorobenzene	0.0262	0.0256	0.050	ND	52	51	43-72	2.26	20
1,2,4-Trichlorobenzene	0.0344	0.0328	0.050	ND	69	66	47-95	4.63	20
1,1,1-Trichloroethane	0.0489	0.0487	0.050	ND	98	97	60-141	0.465	20
1,1,2-Trichloroethane	0.0429	0.0416	0.050	ND	86	83	62-118	3.08	20
Trichloroethene	0.0414	0.0406	0.050	ND	83	81	72-132	2.01	20
Trichlorofluoromethane	0.0438	0.0433	0.050	ND	88	87	43-135	1.15	20
1,2,3-Trichloropropane	0.0450	0.0447	0.050	ND	90	89	57-122	0.755	20
1,2,4-Trimethylbenzene	0.0558	0.0537	0.050	ND	112	107	81-152	3.68	20
1,3,5-Trimethylbenzene	0.0594	0.0588	0.050	ND	119	118	78-160	0.872	20
Vinyl Chloride	0.0425	0.0410	0.050	ND	85	82	42-131	3.56	20
Xylenes, Total	0.149	0.145	0.15	ND	99	97	70-130	2.29	20

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1708699
Date Prepared:	8/15/17	**BatchID:**	143717
Date Analyzed:	8/15/17 - 8/16/17	**Extraction Method:**	SW5030B
Instrument:	GC10, GC18	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	0772; Phoenix Iron Works	**Sample ID:**	MB/LCS-143717 1708646-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Surrogate Recovery									
Dibromofluoromethane	0.123	0.124	0.12		99	99	70-130	0	20
Toluene-d8	0.144	0.144	0.12		116	115	70-130	0.143	20
4-BFB	0.0138	0.0138	0.012		110	110	70-130	0	20
Benzene-d6	0.0955	0.0943	0.10		96	94	60-140	1.34	20
Ethylbenzene-d10	0.117	0.113	0.10		117	113	60-140	3.40	20
1,2-DCB-d4	0.0803	0.0792	0.10		80	79	60-140	1.40	20

_______ QA/QC Officer

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1708699
Date Prepared:	8/15/17	**BatchID:**	143767
Date Analyzed:	8/17/17	**Extraction Method:**	SW3050B
Instrument:	ICP-MS2, ICP-MS3	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; Phoenix Iron Works	**Sample ID:**	MB/LCS-143767 1708699-001AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Antimony	ND	49.7	0.50	50	-	99	75-125
Arsenic	ND	49.8	0.50	50	-	100	75-125
Barium	ND	495	5.0	500	-	99	75-125
Beryllium	ND	50.2	0.50	50	-	100	75-125
Cadmium	ND	49.6	0.25	50	-	99	75-125
Chromium	ND	48.6	0.50	50	-	97	75-125
Cobalt	ND	49.1	0.50	50	-	98	75-125
Copper	ND	49.6	0.50	50	-	99	75-125
Lead	ND	50.0	0.50	50	-	100	75-125
Mercury	ND	1.25	0.050	1.25	-	100	75-125
Molybdenum	ND	49.4	0.50	50	-	99	75-125
Nickel	ND	49.4	0.50	50	-	99	75-125
Selenium	ND	48.2	0.50	50	-	96	75-125
Silver	ND	47.5	0.50	50	-	95	75-125
Thallium	ND	47.7	0.50	50	-	95	75-125
Vanadium	ND	48.6	0.50	50	-	97	75-125
Zinc	ND	489	5.0	500	-	98	75-125
Surrogate Recovery							
Terbium	487.2	511		500	97	102	70-130

(Cont.)

QA/QC Officer

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1708699
Date Prepared:	8/15/17	**BatchID:**	143767
Date Analyzed:	8/17/17	**Extraction Method:**	SW3050B
Instrument:	ICP-MS2, ICP-MS3	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; Phoenix Iron Works	**Sample ID:**	MB/LCS-143767 1708699-001AMS/MSD

QC Summary Report for Metals

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Antimony	52.0	52.2	50	3.334	97	98	75-125	0.307	20
Arsenic	52.1	52.3	50	2.551	99	99	75-125	0	20
Barium	603	607	500	145.0	92	92	75-125	0	20
Beryllium	48.8	48.6	50	ND	97	97	75-125	0	20
Cadmium	48.6	49.4	50	0.5079	96	98	75-125	1.63	20
Chromium	86.3	95.6	50	38.73	95	114	75-125	10.1	20
Cobalt	53.0	51.9	50	5.031	96	94	75-125	2.11	20
Copper	62.4	66.5	50	17.31	90	98	75-125	6.36	20
Lead	785	988	50	1100	0,F13	0,F13	75-125	NA	20
Mercury	1.33	1.37	1.25	0.1122	97	101	75-125	3.04	20
Molybdenum	48.9	48.9	50	ND	98	98	75-125	0	20
Nickel	85.4	90.4	50	31.77	107	117	75-125	5.63	20
Selenium	47.0	46.8	50	ND	94	94	75-125	0	20
Silver	46.4	46.4	50	ND	93	93	75-125	0	20
Thallium	46.8	46.7	50	ND	94	93	75-125	0.192	20
Vanadium	74.5	79.2	50	24.30	100	110	75-125	6.06	20
Zinc	650	701	500	248.9	80	90	75-125	7.56	20
Surrogate Recovery									
Terbium	512	510	500		102	102	70-130	0	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Antimony	3.39	3.334	1.68	-
Arsenic	3.03	2.551	18.8	-
Barium	145	145.0	0	20
Beryllium	ND<2.5	ND	-	-
Cadmium	ND<1.2	0.5079	-	-
Chromium	39.9	38.73	3.02	20
Cobalt	5.28	5.031	4.95	-
Copper	17.2	17.31	0.635	20
Lead	1120	1100	1.82	20
Mercury	ND<0.25	0.1122	-	-
Molybdenum	ND<2.5	ND	-	-
Nickel	32.3	31.77	1.67	20
Selenium	ND<2.5	ND	-	-

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1708699
Date Prepared:	8/15/17	**BatchID:**	143767
Date Analyzed:	8/17/17	**Extraction Method:**	SW3050B
Instrument:	ICP-MS2, ICP-MS3	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; Phoenix Iron Works	**Sample ID:**	MB/LCS-143767 1708699-001AMS/MSD

QC Summary Report for Metals

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Silver	ND<2.5	ND	-	-
Thallium	ND<2.5	ND	-	-
Vanadium	25.3	24.30	4.12	20
Zinc	258	248.9	3.66	20

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

Quality Control Report

Client: P & D Environmental
Date Prepared: 8/15/17
Date Analyzed: 8/16/17
Instrument: GC19
Matrix: Soil
Project: 0772; Phoenix Iron Works

WorkOrder: 1708699
BatchID: 143756
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg
Sample ID: MB/LCS-143756
1708618-001EMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	1.0	-	-	-
MTBE	ND	0.050	-	-	-
Benzene	ND	0.0050	-	-	-
Toluene	ND	0.0050	-	-	-
Ethylbenzene	ND	0.0050	-	-	-
Xylenes	ND	0.015	-	-	-
Surrogate Recovery					
2-Fluorotoluene	0.08202		0.10	82	75-134

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	0.582		0.60	97		82-118		-
MTBE	0.0951		0.10	95		61-119		-
Benzene	0.108		0.10	108		77-128		-
Toluene	0.110		0.10	110		74-132		-
Ethylbenzene	0.107		0.10	107		84-127		-
Xylenes	0.315		0.30	105		86-129		-
Surrogate Recovery								
2-Fluorotoluene	0.0884		0.10	88		75-134		-

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR		ND	NR	NR	-	NR	-
MTBE	NR	NR		ND	NR	NR	-	NR	-
Benzene	NR	NR		ND	NR	NR	-	NR	-
Toluene	NR	NR		ND	NR	NR	-	NR	-
Ethylbenzene	NR	NR		0.0091	NR	NR	-	NR	-
Xylenes	NR	NR		0.063	NR	NR	-	NR	-
Surrogate Recovery									
2-Fluorotoluene	NR	NR			NR	NR	-	NR	-

NELAP 4033ORELAP

QA/QC Officer

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1708699
Date Prepared:	8/15/17	**BatchID:**	143745
Date Analyzed:	8/16/17	**Extraction Method:**	SW3550B
Instrument:	GC9a	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; Phoenix Iron Works	**Sample ID:**	MB/LCS-143745 1708668-001AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	40.5	1.0	40	-	101	79-133
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	25.87	25.6		25	103	103	77-109

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	NR	NR		180	NR	NR	-	NR	-
Surrogate Recovery									
C9	NR	NR			NR	NR	-	NR	-

QA/QC Officer

McCampbell Analytical, Inc.

1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1708699 **ClientCode: PDEO**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ▣ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
▣ Detection Summary ▣ Dry-Weight

Report to:
Paul King
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610
(510) 658-6916 FAX: 510-834-0152

Email: lab@pdenviro.com; Paul.King@pdenviro.c
cc/3rd Party:
PO:
ProjectNo: 0772; Phoenix Iron Works

Bill to:
Accounts Payable
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610

Requested TAT: **5 days;**

Date Received: **08/15/2017**
Date Logged: **08/15/2017**

Lab ID	**Client ID**	**Matrix**	**Collection Date**	**Hold**	**Requested Tests (See legend below)**											
					1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
1708699-001	Drum 1	Soil	8/14/2017 13:40	☐	A	A	A	A								

Test Legend:

1	**8260B_S**	**2**	**CAM17MS_TTLC_S**	**3**	**G-MBTEX_S**	**4**	**TPH(DMO)_S**
5		**6**		**7**		**8**	
9		**10**		**11**		**12**	

Prepared by: Alexandra Iniguez

The following SampID: 001A contains testgroup Multi Range_S.

Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL

Client Contact: Paul King

Contact's Email: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

Project: 0772; Phoenix Iron Works

Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

Work Order: 1708699

QC Level: LEVEL 2

Date Logged: 8/15/2017

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1708699-001A	Drum 1	Soil	Multi-Range TPH(g,d,mo) by EPA 8015Bm	1	Stainless Steel tube 2"x6"	☐	8/14/2017 13:40	5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	

NOTES: **- STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

CHAIN OF CUSTODY RECORD

1708699

PAGE 1 OF 1

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME:
Phoenix Iron Works
800 Pine Street
Oakland, CA 94607

SAMPLED BY: (PRINTED & SIGNATURE) Paul King Paul H. King

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): TPH-G,D,MO	8260B	CAM17 metals						PRESERVATIVE	REMARKS
Drum 1	8/14/17	13:40	Soil		1	X	X	X						Ice	~~48 hr~~ TAT Normal

RELINQUISHED BY: (SIGNATURE) Paul H. King DATE TIME

RECEIVED BY: (SIGNATURE) Basit 8/15/17, 12:55

Total No. of Samples (This Shipment) 1

Total No. of Containers (This Shipment) 1

LABORATORY: McCampbell Analytical

RELINQUISHED BY: (SIGNATURE) Basit DATE 8/15/17 TIME 1547

RECEIVED BY: (SIGNATURE)

LABORATORY CONTACT: Angela Rydelius

LABORATORY PHONE NUMBER: (877) 252-9262

RELINQUISHED BY: (SIGNATURE) DATE TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)

SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES (✓) NO

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: *Please run a WET for any samples that require WET analysis, with a 48 Hr TAT

Sample Receipt Checklist

Client Name: **P & D Environmental**
Project Name: **0772; Phoenix Iron Works**

WorkOrder №: **1708699** Matrix: Soil
Carrier: Basit Sheikh (MAI Courier)

Date and Time Received: **8/15/2017 15:47**
Date Logged: **8/15/2017**
Received by: Alexandra Iniguez
Logged by: Alexandra Iniguez

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Sample IDs noted by Client on COC?	Yes ☑	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐	
Sampler's name noted on COC?	Yes ☑	No ☐	

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	NA ☐
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	NA ☐
Sample/Temp Blank temperature	Temp: 6.4°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	
(Ice Type: WET ICE)			

UCMR Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

Comments:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1708699 A

Report Created for: P & D Environmental

55 Santa Clara, Ste.240
Oakland, CA 94610

Project Contact: Paul King
Project P.O.:
Project Name: 0772; Phoenix Iron Works

Project Received: 08/15/2017

Analytical Report reviewed & approved for release on 08/29/2017 by:

Angela Rydelius,
Laboratory Manager

NELAP ACCREDITED TNI LABORATORY

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
CA ELAP 1644 ♦ NELAP 4033ORELAP

Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: 0772; Phoenix Iron Works
WorkOrder: 1708699 A

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 μm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1708699
Date Received:	8/15/17 15:47	**Extraction Method:**	CA Title 22
Date Prepared:	8/26/17	**Analytical Method:**	SW6020
Project:	0772; Phoenix Iron Works	**Unit:**	mg/L

Metals (STLC)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Drum 1	**1708699-001A**	**Soil**	**08/14/2017 13:40**	**ICP-MS3**	**144468**

Analytes	Result	RL	DF	Date Analyzed
Lead	**240**	1.0	10	08/29/2017 10:58

Analyst(s): ND

Angela Rydelius, Lab Manager

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1708699
Date Received:	8/15/17 15:47	**Extraction Method:**	SW1311/SW3010
Date Prepared:	8/25/17	**Analytical Method:**	SW6020
Project:	0772; Phoenix Iron Works	**Unit:**	mg/L

Metals (TCLP)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Drum 1	**1708699-001A**	**Soil**	**08/14/2017 13:40**	**ICP-MS2**	**144451**

Analytes	Result	RL	DF	Date Analyzed
Lead	**8.5**	0.10	1	08/28/2017 21:36

Analyst(s): ND

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1708699
Date Prepared:	8/26/17	**BatchID:**	144468
Date Analyzed:	8/29/17	**Extraction Method:**	CA Title 22
Instrument:	ICP-MS2	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/L
Project:	0772; Phoenix Iron Works	**Sample ID:**	MB/LCS-144468 1708C08-001AMS/MSD

QC Summary Report for Metals (STLC)

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	9.61	0.10	10	-	96	75-125

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	10.3	10.0	10	0.24	100	98	75-125	2.64	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1708699
Date Prepared:	8/25/17	**BatchID:**	144451
Date Analyzed:	8/28/17	**Extraction Method:**	SW1311/SW3010
Instrument:	ICP-MS2	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/L
Project:	0772; Phoenix Iron Works	**Sample ID:**	MB/LCS-144451 1708699-001AMS/MSD

QC Summary Report for Metals (TCLP)

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	10.0	0.10	10	-	100	75-125

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	18.0	18.0	10	8.482	95	95	75-125	0	20

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1708699 **A** **ClientCode: PDEO**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
▨ Detection Summary ▨ Dry-Weight

Report to:
Paul King
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610
(510) 658-6916 FAX: 510-834-0152

Email: lab@pdenviro.com; Paul.King@pdenviro.c
cc/3rd Party:
PO:
ProjectNo: 0772; Phoenix Iron Works

Bill to:
Accounts Payable
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610

Requested TAT: **2 days;**

Date Received: **08/15/2017**
Date Logged: **08/15/2017**
Date Add-On: **08/24/2017**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1708699-001	Drum 1	Soil	8/14/2017 13:40	☐	A											

Test Legend:

1	**PBMS_STLC_S**	**2**		**3**		**4**	
5		**6**		**7**		**8**	
9		**10**		**11**		**12**	

Prepared by: Alexandra Iniguez

Add-On Prepared By: Jena Alfaro

Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com. STLC Pb added 8/24/17 2D TAT

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL
Project: 0772; Phoenix Iron Works
Work Order: 1708699
Client Contact: Paul King
QC Level: LEVEL 2
Contact's Email lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com. STLC Pb added 8/24/17 2D TAT
Date Logged: 8/15/2017
Date Add-On: 8/24/2017

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1708699-001A	Drum 1	Soil	SW6020 (Lead) (STLC)	1	Stainless Steel tube 2"x6"	8/14/2017 13:40	2 days*		☐	

NOTES: **- STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

CHAIN OF CUSTODY RECORD

1708699

PAGE 1 OF 1

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME:
Phoenix Iron Works
800 Pine Street
Oakland, CA 94607

SAMPLED BY: (PRINTED & SIGNATURE) Paul King Paul H. King

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): TPH-G, D, MO	8260B	CAM17 metals	STLC Pb 8/24/17 2DAY TAT					PRESERVATIVE	REMARKS
Drum 1	8/14/17	13:40	Soil		1	X	X	X	X					Ice	~~48 hr~~ TAT Normal

RELINQUISHED BY: (SIGNATURE) Paul H. King | DATE | TIME | RECEIVED BY: (SIGNATURE) Basit 8/15/17, 12:55

Total No. of Samples (This Shipment) 1
Total No. of Containers (This Shipment) 1

LABORATORY: McCampbell Analytical

RELINQUISHED BY: (SIGNATURE) Basit | DATE 8/15/17 | TIME 1547 | RECEIVED BY: (SIGNATURE)

LABORATORY CONTACT: Angela Rydelius

LABORATORY PHONE NUMBER: (877) 252-9262

RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RECEIVED FOR LABORATORY BY: (SIGNATURE)

SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES (✓) NO

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: * Please run a WET for any samples that require WET analysis, with a 48 Hr TAT

Phase II Soil Investigation Report
800 Cedar Street
APN 006-047-001
Oakland, California

November 9, 2011

Prepared Under:

USEPA Brownfields Grant # 2B-00T18101-0

For:

City of Oakland
250 Frank H. Ogawa Plaza, 4th Floor
Oakland, California 94612

Prepared By:

Northgate Environmental Management, Inc.
300 Frank H. Ogawa Plaza, Suite 510
Oakland, California 94612

Dennis Laduzinsky, C.E.G., R.E.A.
Principal

Adam Klein, P.G., C.HG.
Associate Hydrogeologist

1204.18

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ACRONYMS AND ABBREVIATIONS

APN	Assessor's Parcel Number
BAG	Brownfield Assessment Grant
bgs	Below Ground Surface
Cal/EPA	California Environmental Protection Agency
Caltrans	California Department of Transportation
CHHSLs	California Human Health Screening Levels
DTSC	Department of Toxic Substances Control
EPA	Environmental Protection Agency
ESL	Environmental Screening Levels
GRC	Geo/Resource Consultants, Inc.
LCS	Laboratory Control Spike
LCSD	Laboratory Control Spike Duplicate
mg/kg	Milligrams Per Kilogram
mg/L	Milligrams Per Liter
MS/MSD	Matrix Spike/Matrix Spike Duplicate
OEHHA	Office of Environmental Health Hazard Assessment
PID	Photo Ionization Detector
ppm	Parts Per Million
PQL	Practical Quantitation Limits
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
RPD	Relative Percent Difference
RWQCB	Regional Water Quality Control Board
SAP	Sampling and Analysis Plan
STLC	Soluble Threshold Limit Concentration
SVOC	Semi-volatile Organic Compound
TEPH	Total Extractable Petroleum Hydrocarbons
TPH	Total Petroleum Hydrocarbons
TPH-d	Total Petroleum Hydrocarbons as Diesel
TPH-mo	Total Petroleum Hydrocarbons as Motor Oil
TRPH	Total Recoverable Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentration
ULRP	Urban Land Redevelopment Program
USEPA	United States Environmental Protection Agency
USA	Underground Service Alert
UST	Underground Storage Tank
VCA	Voluntary Cleanup Agreement
WET	Waste Extraction Test

1.0 INTRODUCTION AND SCOPE OF SERVICES

This report presents the results of a Phase II Soil Investigation performed by Northgate Environmental Management, Inc. (Northgate) for the City of Oakland (the City) at 800 Cedar Street in Oakland, California (the Site). The Site consists of an approximate five acre vacant parcel located on the west side of Pine Street between 9th Street and Shorey Street in Oakland and is owned by the California Department of Transportation (Caltrans). The Site has historically been identified as 800 Cedar Street. However, reconfiguration of Interstate 880 in Oakland has removed Cedar Street at this location. The parcel is identified as Assessor's Parcel Number (APN) 006-047-001 in Alameda County. A Site Location Map is shown on Figure 1.

The work is being performed for the City under Brownfield Assessment Grant (BAG) Number 2B-00T18101-0 for both hazardous substances and petroleum hydrocarbons, issued by the United States Environmental Protection Agency (USEPA) for the West Oakland Development Area. The work was performed in accordance with the following documents:

- *Quality Assurance Project Plan, West Oakland Development Area, Oakland, California*, Northgate, September 8, 2009 (the QAPP), and
- *Sampling and Analysis Plan, Phase II Soil Investigation, APN 006-047-001 (800 Cedar Street), Oakland, California*, Northgate, July 14, 2011 (the SAP).

The purpose of this Phase II Soil Investigation is to:

- Define the extent of semi-volatile organic compound (SVOC) and petroleum hydrocarbon soil contamination in specific areas of the Site that were identified in previous investigations;
- Further evaluate elevated lead concentrations detected in soil at the Site; and
- Evaluate the potential need for remediation or additional evaluation of risk at the Site.

The scope of work for this investigation included the following services:

- Collecting soil samples from 13 borings advanced at the Site;
- Selectively analyzing soil samples for 17 metals, total extractable petroleum hydrocarbons (TEPH), and SVOCs; and
- Preparing this report.

2.0 BACKGROUND

2.1 Site Description

The Site consists of an approximate five acre (600 feet by 400 feet) parcel of land located on the west side of Pine Street, between 9th Street and Shorey Street in Oakland, California. The Site is almost entirely covered by the remnant concrete slab of a former building. The Site is currently owned by Caltrans, and is used for construction material storage.

The Site is located in an area of mixed residential and commercial development. The Site is bordered on the north by 9th Street, across which are residences and industrial warehouse buildings. The Site is bordered on the east and south by Pine Street and Shorey Streets, followed by residences. The Site is bordered along the west by an access ramp for Interstate 880. Figure 1 shows the Site location and Figure 2 (Site Plan) shows a current aerial view of the Site overlain by the approximate Site boundary as it existed in the early 1990s, along with historical features identified in previous environmental investigation reports. Figure 2 also shows historical soil borings where elevated concentrations of total petroleum hydrocarbons (TPH) and/or SVOCs have been detected in soil, as well as the locations of the soil borings installed during this current investigation.

2.2 Previous Investigations and Regulatory Involvement

The Site is currently regulated by the State of California Environmental Protection Agency, Department of Toxic Substances Control (DTSC), under a Voluntary Cleanup Agreement (VCA), as amended twice in 1996, and once each in 1997, 1999 and 2002. USEPA is the agency overseeing the BAG for the Site.

Multiple investigations and remedial activities have been performed at the Site since 1990. The following investigation reports have been prepared for the Site:

- Geo/Resource Consultants, Inc. (GRC), 1992. *Site Investigation Report – Area 4, Department of Transportation T.O. Number: 04-192201-01, Highway 880, Cypress Reconstruction, Oakland, California,* August 1992.
- On-Site Technologies, 1993. *Preliminary Endangerment Assessment, Phoenix 800, 800 Cedar Street, Oakland, California,* November 1993.
- IT Corporation, 2000. *Site Investigation Report, Soil and Groundwater Investigation, Former Phoenix Iron Works Facility, 800 Cedar Street, Oakland, California,* dated March 8, 2000.

The key issues identified in these reports are as follows:

- Historically, the Site was used for a variety of purposes between 1920 and the present, including auto parts manufacturing, steel and ironworks fabrication, and fireworks manufacturing.
- One diesel and one gasoline underground storage tank (UST) located on the western side of the Site were removed sometime between 1995 and 1997, and a total of 800 cubic yards of soil were excavated and disposed of as part of the UST removals.
- Soil sampling performed at the Site during the tank removals indicated up to 17,000 parts per million (ppm) of lead and 44 ppm of arsenic in soil in the southwest corner of the former Phoenix Iron Works property, which is now outside the current Site property boundary. Soil excavation was initiated to remove these elevated metals concentrations, and during this excavation, two solvent-containing USTs (approximately 250 gallons and 10 gallons) and a settling sump were encountered. A total of 3,300 cubic yards of soil were excavated and disposed of as part of this remedial action (IT, 2000).
- Soil sampling performed in 1999 indicated that shallow soil along the western edge of the Site contains total recoverable petroleum hydrocarbons (TRPH) in excess of 1,000 ppm. This area was previously identified as containing “black-stained sand”, and was previously characterized by soil sampling in borings P-25, P-26 and P-8 (see Figure 2).
- The 1999 soil sampling indicated two boring locations (borings P-16 and P-19 on Figure 2) with elevated SVOC concentrations in shallow soil samples, and the presence of elevated lead concentrations in shallow soil at multiple locations across the Site.

A detailed summary of these prior investigations is provided in the SAP, and in the *Site Investigation Summary Report, APN 006-047-001 (800 Cedar Street), Oakland, California,* (Northgate, 2011).

The City of Oakland Redevelopment Agency is considering purchasing this property from Caltrans. The City of Oakland Redevelopment Agency is evaluating potential commercial redevelopment options for the Site, although the exact redevelopment use for the Site is not known at this time. The purpose of this investigation is to evaluate the extent of TEPH and SVOCs at selected locations at the Site and to provide additional data regarding the presence of metals in shallow soil at the Site.

3.0 SOIL INVESTIGATION

3.1 Investigation Methods

Northgate performed soil sampling at the Site on August 11, 2011. Prior to sampling, Northgate notified Underground Service Alert (USA, ticket #0260009) and contracted with a private utility locator to scan each boring location with utility locating equipment to ensure the boring locations were clear of any underground utilities. Following the scanning, 13 soil borings (NG-1 through NG-13) were advanced to depths of 5 feet below the ground surface (bgs) for soil sample collection. Approximate boring locations are shown on Figure 2. Permit number W2011-0062 for the borings, obtained from the Alameda County Public Works Department, is presented in Appendix A.

The borings were advanced using a track mounted direct-push GeoProbe drill rig. A continuous soil core was collected from each boring in clear acetate liners. The acetate liner was opened at multiple intervals, and the soils were screened for the possible presence of volatile aromatic compounds using a photoionization detector (PID). Soil lithology observations for each boring were recorded in the field notes.

Soil samples were collected for chemical analysis at approximate depths of 1, 3, and 5 feet bgs in each boring. Samples were collected by cutting 6 inch lengths of the acetate liners from the continuous cores, sealing the 6 inch segments with Teflon tape and plastic caps, labeling the samples and storing them on ice in a cooler. Samples were transported to the analytical laboratory (Torrent Laboratories of Milpitas, California) under chain-of-custody control. Duplicate soil samples were collected at 1 foot bgs from borings NG-2, NG-3, NG-7, NG-10, and NG-13. Boring locations for duplicate sample collection were chosen at locations where either soil discoloration was observed or to provide geographic coverage across the Site.

Soil samples collected from borings NG-1 through NG-5 were analyzed for the following constituents:

- Total petroleum hydrocarbons as motor oil (TPH-mo) and diesel (TPH-d) using EPA Method 8015; and
- 17 metals using EPA Method 6010/7471.

Soil samples collected from borings NG-6 through NG-13 were analyzed for the following constituents:

- SVOCs using USEPA Method 8270; and
- 17 metals using USEPA Method 6010/7471.

All drilling equipment was steam-cleaned prior to use at each boring location. After completion of sampling activities, all borings were backfilled with neat cement in accordance with the Alameda County Public Works Agency, Water Resources Section permit requirements and with oversight from the Alameda County Public Works Agency Water Resources inspector. Soil cuttings were used to fill the top 2 feet of boring NG-5 (located on bare soil).

3.2 Subsurface Conditions

Subsurface soils encountered at the Site consisted primarily of a gravelly sandy fill underlain by well graded sand. Subsurface conditions were similar at all of the borings. Groundwater was not encountered in any of the borings.

3.3 Soil Screening Levels

Analytical results from the soil samples were evaluated using the following screening levels:

- California Human Health Screening Levels (CHHSLs) for both residential and commercial/industrial land use;
- Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) Table A-1, Residential Land Use, Groundwater is a Current or Potential Source of Drinking Water (RWQCB 2008);
- RWQCB ESLs Table A-2, Commercial/Industrial Land Use, Groundwater is a Current or Potential Source of Drinking Water (RWQCB 2008);
- RWQCB ESLs Table K-3, Direct Exposure Soil Screening Levels, Construction/Trench Worker Exposure Scenario (RWQCB 2008);
- The City of Oakland’s Urban Land Redevelopment Program (ULRP) Survey of Background Metal Concentration Studies; and
- Total Threshold Limit Concentrations (TTLCs) for characterization of hazardous waste.

Additional information regarding each of these screening levels is provided below.

The CHHSLs were developed by the Office of Environmental Health Hazard Assessment (OEHHA) on behalf of California Environmental Protection Agency (Cal/EPA) and are based on an excess lifetime cancer risk of 10^{-6} and a hazard quotient of 1.0 for noncancer health effects. The CHHSLs were developed using standard exposure assumptions and chemical toxicity values published by the USEPA and Cal/EPA. Under most circumstances the presence of a chemical in soil at concentrations below the corresponding CHHSLs can be assumed to not pose a significant health risk to people who may live (residential CHHSLs) or work (commercial/industrial CHHSLs) at the site. The presence of a chemical at concentrations in excess of a CHHSL does not necessarily indicate that adverse impacts to human health are occurring or will occur, but suggests that further evaluation of potential human health concerns is warranted (Cal/EPA, 2005).

The RWQCB presents ESLs in their guidance document *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater* (RWQCB, 2008) for multiple site use scenarios and for different media. For site characterization studies such as the present investigation, ESLs are used as a general screening guide to determine whether additional investigation, remedial actions, or risk assessment may be required. The presence of a chemical at a concentration above an ESL does not necessarily indicate that adverse impacts to human health or the environment are occurring, but rather, indicate that a potential for adverse risk may exist and that additional evaluation may be warranted. Neither the ESLs nor the CHSSLs are regulatory cleanup standards, and they are intended to be used for screening evaluation only.

In some cases, particularly with respect to metals such as arsenic and vanadium, both the CHSSLs and the RWQCB residential and commercial/industrial ESLs are lower than the naturally occurring regional background concentrations. In these cases, generally accepted background concentrations are used for evaluation. The City of Oakland's ULRP has developed a Survey of Background Metal Concentration Studies, and values from this table were included as screening levels for the soil analytical results for metals.

The TTLCs are used to define material as a hazardous or non-hazardous waste for landfill disposal purposes and do not necessarily have any relation to health risk evaluation. However, these levels are used to evaluate the volume of soil that may require disposal as hazardous waste and are included as screening levels in this report.

3.4 Soil Analytical Results

Soil sample analytical results are presented in Tables 1, 2, 3, and 4. Laboratory analytical reports are presented in Appendix B. Analytical results for each of the analyte groups are discussed below.

3.4.1 Total Petroleum Hydrocarbons

A total of 17 soil samples (including two duplicate samples) collected from four different soil borings were analyzed for TPH-d and TPH-mo. TPH-d and TPH-mo analytical results are presented in Table 1 and on Figure 3. As shown in Table 1, TPH-d was detected in two samples; sample NG-1-1.0 at a concentration of 630 milligrams per kilogram (mg/kg) and sample NG-2-1.0 at a concentration of 4.4 mg/kg. The TPH-d result from sample NG-2-1.0 was reported by the lab to be not typical of the diesel standard pattern. The NG-1-1.0 TPH-d concentration exceeds the 83 mg/kg ESL for both residential and commercial/industrial land use, but was well below the 4,200 mg/kg ESL for construction/trench worker exposure.

TPH-mo was detected in 11 of the 17 samples at concentrations ranging from 4.8 to 2,700 mg/kg. The TPH-mo result from sample from NG-1-5.0 (13 mg/kg) was reported by the lab to be atypical of the motor oil standard pattern. Two of these samples (NG-1-1.0 and NG-3-1.0 duplicate) exceeded the 370 mg/kg ESL for residential land use. Sample NG-1-1.0 (2,700 mg/kg) exceeds the 2,500 mg/kg ESL for commercial/industrial land use. All of the sample concentrations were well below the 3,700 mg/kg ESL for construction/trench worker exposure.

3.4.2 17 Metals Analytical Results

A total of 28 soil samples (including two duplicate samples) collected from 13 different borings were analyzed for 17 metals. Analytical results for metals are shown in Table 2. Beryllium, molybdenum, selenium, and thallium were not detected above the laboratory Practical Quantitation Limits (PQLs) in any of the samples. With the exception of arsenic, cadmium, and lead, metals concentrations were below their respective residential CHHSLs in all of the samples.

Arsenic was detected in 16 samples at concentrations ranging from 1.7 to 65 mg/kg. All of these reported concentrations exceed the residential CHHSL of 0.07 mg/kg and the commercial/industrial CHHSL of 0.24 mg/kg. However, only two of the measured concentrations (17 mg/kg in NG-2-1.0 and 65 mg/kg in NG-1-3.0) were above the RWQCB ESL for construction worker/trench worker exposure of 15 mg/kg. The City of Oakland ULRP indicates naturally-occurring background concentrations of 1.8 - 31 mg/kg for arsenic in soil. All of the detected values were less than the TTLC of 500 mg/kg.

Cadmium was detected in four of the samples at concentrations of 1.7 to 4.9 mg/kg. Three of the reported concentrations exceeded the residential CHHSL of 1.7 mg/kg, but none of the reported concentrations were above the commercial/industrial CHHSL of 7.5 mg/kg, the RWQCB ESL for construction worker/trench worker exposure of 39 mg/kg, or the TTLC of 100 mg/kg.

Lead was detected in all of the samples, at concentrations ranging from 1.3 to 2,900 mg/kg. Lead analytical results are shown graphically on Figure 4. Lead concentrations in 11 of the samples exceeded the 80 mg/kg residential CHSSL, and six of these samples (NG-2-1.0 at 640 mg/kg; NG-2-1.0 duplicate at 340 mg/kg; NG-3-1.0 at 350 mg/kg; NG-5-1.0 at 520 mg/kg; NG-10-1.0 at 460 mg/kg; and NG-13-1.0 at 2,900 mg/kg) exceeded the 320 mg/kg commercial/industrial CHHSL. The only sample that exceeded the 1,000 mg/kg TTLC for lead was NG-13-1.0, with a concentration of 2,900 mg/kg of lead. Nine samples (NG-1-1.0, NG-2-1.0, NG-2-1.0-D, NG-3-1.0, NG-5-1.0, NG-6-1.0, NG-10-1.0, NG-11-1.0, and NG-13-1.0-D) were analyzed for soluble lead using the Waste Extraction Test (WET) to classify the soil for hazardous waste landfill disposal. Seven of the samples (NG-1-1.0, NG-2-1.0, NG-2-1.0-D, NG-3-1.0, NG-6-1.0, NG-10-1.0, and NG-13-1.0-D) contained soluble lead above the Soluble Threshold Limit Concentration (STLC) of 5 mg/kg, with NG-13-1.0-D having the highest concentration of soluble lead (520 milligrams per liter, mg/L).

3.4.3 SVOC Analytical Results

A total of 28 samples (including three duplicates) collected from eight soil borings were analyzed for SVOCs. Analytical results for SVOCs are shown in Table 3. Fluoranthene and pyrene were the only SVOCs detected above the laboratory PQLs, and these chemicals were only detected in one sample, NG-6-1.0 (21 mg/kg fluoranthene and 25 mg/kg pyrene). Both of these detections were below their respective residential and commercial/industrial ESLs.

3.5 Quality Assurance/Quality Control

Soil samples were collected following sampling protocols and quality assurance/quality control (QA/QC) procedures outlined in the SAP. QC objectives include *precision*, a measure of mutual agreement among individual measurements of the same property; *accuracy*, the agreement of a measurement with the accepted reference value; *representativeness*, the degree to which sample distribution falls within the statistical bounds of a population; *completeness*, a measure of the amount of valid data obtained compared to what was planned; and *comparability*, the confidence with which one data set can be compared to another. QC procedures are designed to increase or improve data quality and to help interpret discrepancies in results. Sampling QA/QC procedures were followed with respect to equipment, field procedures, sample containers, decontamination, storage, holding times, and field QC sampling. Chain-of-custody forms were completed for all samples, and samples were preserved according to the analytical method requirements. Torrent Laboratory in Milpitas, California performed the analyses and is state-certified for the methods listed. All samples were preserved according to the analytical methods requirements, all analyses were performed according to standard methods, and all sample holding times and preservation requirements were met. Analytical results were reported for all values above the PQL.

Northgate collected the following duplicate samples for analysis:

- For TPH-d and TPH-mo: NG-2-1.0/NG-2-1.0-D and NG-3-1.0/NG-3-1.0-D;
- For 17 metals: NG-2-1.0/NG-2-1.0-D and NG-13-1.0/NG-13-1.0-D; and
- For SVOCs: NG-7-1.0/NG-7-1.0-D, NG-7-1.0/NG-7-1.0-D and NG-13-1.0/NG-13-1.0-D.

Comparison of primary and duplicate sample results using the relative percent difference (RPD) between the duplicate sample results is used to assess the precision of the test data. Typically, an RPD of 50% or less is considered acceptable for soil samples. Table 4 presents the duplicate sample results, and the RPD calculations for each of the analyses. RPD calculations cannot be performed for samples where the analytical result is non-detect. Because the duplicate samples did not contain detectable concentrations of SVOCs above the PQL, SVOCs are not included in Table 4.

The results presented in Table 4 indicate that over half of the duplicate analyses had RPDs that were greater than 50%. This high RPD is likely due to the natural heterogeneity of the soil samples.

Several QA/QC analyses were performed by the analytical laboratory. Method blanks were analyzed for each analytical method performed to assess the level of contamination introduced by the laboratory. Results of the method blank analyses were all non-detect, with the exception of TPH-d and TPH-mo, reported at 0.86 and 2.2 mg/kg in the method blank sample. Results of the method blank analyses for SVOCs were all non-detect, with the exception of dimethyl phthalate and diethylphthalate, reported at 0.47 and 0.28 mg/kg. Several metals were also reported at very low-level concentrations in the method blank samples for soil.

Surrogate recoveries were performed in which selected samples were spiked with a known concentration of contaminant (laboratory control spike [LCS] and laboratory control spike duplicate [LCSD]) and the percent recovery was calculated to assess the accuracy of the analytic method. Surrogate recoveries and the RPD between duplicate results - calculated to assess the precision of the data - were all within the acceptable ranges, with the following exceptions:

- The percent recoveries for pyrene for one analytical batch were outside of laboratory control limits but were within the percent RPD limits.
- The percent recoveries for barium, copper and zinc for one analytical batch were outside of laboratory control limits, but the associated LCS/LCSD percent recoveries and percent RPDs were within the laboratory control limits.
- The spikes for the matrix spike/matrix spike duplicate (MS/MSD) for lead were not recoverable.

The laboratory stated that no corrective actions were required based on these QA/QC results. Details regarding the QA/QC results are provided in the Case Narrative in the laboratory analytical report, which is included in Appendix B.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The soil sampling performed during this investigation was intended to supplement prior investigation work at the Site. The prior investigation work indicated the following:

- Elevated concentrations of lead (above the 80 mg/kg residential CHSSL and in many cases, above the 320 mg/kg commercial/industrial CHSSL) were detected in shallow soil samples from across the Site. There was no apparent pattern to these elevated lead concentrations, with the exception that they were confined to the upper 1 to 3 feet of soil.
- The only area of TPH-impacted soil at the Site was limited to the northwest portion of the Site, and was labeled as a "black-stained sand area".

Results from the current soil investigation were consistent with the results from these prior investigations, and indicated the following:

- Elevated concentrations of lead, in excess of the 80 mg/kg residential CHSSL, are present across the Site in the upper 1 foot of soil. Soil samples that were collected from a depth of 3 feet bgs consistently had concentrations of lead below this CHSSL and were typically below 20 mg/kg. Eleven of the 28 samples analyzed for lead during this investigation contained lead above the residential land use CHHSL of 80 mg/kg. Six of these samples contained lead above the commercial/industrial land use CHSSL of 320 mg/kg. Nine of the 1 foot depth samples were analyzed for soluble lead using the WET, and seven of these samples exceeded the 5 mg/L STLC for lead, indicating that if this soil is to be disposed of at a landfill, it may have to be disposed of as hazardous waste. Additional evaluation of soluble lead would be required to determine if the soil would be classified as a RCRA or Federal hazardous waste.
- The area of TPH-impacted soil in the northwest portion of the Site that had previously been delineated as a "black-stained sand area" is relatively limited and is confined to the upper 1 to 2 feet of soil. Three of the five sampling locations in this area had soil samples at a depth of 1 foot that contained concentrations of TPH-mo in excess of 100 mg/kg, but the maximum concentration of TPH-mo detected in a sample below 1 foot was 14 mg/kg.
- The elevated concentrations of SVOCs that were previously detected in soil borings P-16 and P-19 appear to be of limited extent. SVOCs were only detected in 1 of 27 samples collected from 8 borings surrounding these two borings, and fluoranthene and pyrene were the only SVOCs detected. These SVOCs were present at concentrations well below their residential and commercial/industrial land use ESLs.

Based upon these data and data from prior investigations at the Site, it appears that the primary hazardous substance present at the Site is lead in shallow soil, and the elevated lead concentrations appear to be confined to the upper 1-2 feet at the Site. Based on a Site area of 240,000 square feet, the volume of impacted soil may be as much as 18,000 cubic yards. The lead appears to be soluble, based upon the WET analysis results, and these soluble lead concentrations may result in this soil being classified as hazardous waste if the soil is excavated and removed from the Site. Almost the entire Site is capped by concrete, and therefore, the lead does not appear to currently present a human health risk. However, we recommend some form of remedial action be implemented in order to redevelop the Site. Suitable alternatives include:

1. Selective excavation and off-site disposal of soil containing lead above commercial land use standards.
2. Selective excavation and on-site encapsulation of soil containing lead above commercial land use standards.
3. On-site treatment of soil containing elevated concentrations of lead in order to reduce the solubility or bio-availability (toxicity) of lead, in order to re-use the soil in a commercial land use setting.

We recommend that all soil containing lead above the residential land use CHSSL be excavated and removed from the Site if the Site will be redeveloped for residential land use.

The extent of TPH-impacted soil in the northwest corner of the Site appears to be relatively limited. Soil containing TPH above commercial land use standards could be excavated and removed from the Site. However, TPH is not a hazardous chemical by itself. Historical analytical results from the Site have demonstrated that the more hazardous substances associated with TPH, such as benzene, toluene and naphthalene, are not present in the soil in this area. Under these circumstances, it may be appropriate to leave the TPH-impacted soil in place. We recommend that regulatory discussions to establish Site-specific cleanup goals be initiated before any remedial efforts are started at the Site. Additionally, if soils are left on Site with concentrations of contaminants above the unrestricted (residential) land use screening levels, a soil management plan should be prepared to outline procedures for managing the impacted soil.

5.0 LIMITATIONS

The purpose of a soil quality investigation is to reasonably characterize existing Site conditions based on the results of a limited target subsurface investigation. In performing such a study, it is understood that a balance must be struck between a reasonable inquiry into the Site conditions and an exhaustive analysis of each conceivable environmental characteristic. The following paragraphs discuss the assumptions and parameters under which such an opinion is rendered.

No investigation is thorough enough to describe all environmental conditions of interest at a given Site. If conditions have not been identified during the study, such findings should not, therefore, be construed as a guarantee of the absence of such conditions at the Site, but rather as the result of the services performed within the scope, limitations, and cost of the work performed.

We are unable to report on or accurately predict events that may change the Site conditions after the described services are performed, whether occurring naturally or caused by external forces. We assume no responsibility for conditions we were not authorized to evaluate or conditions not generally recognized as predictable when services were performed.

Environmental conditions may exist at the Site that cannot be identified solely by visual observation. Where subsurface exploratory work was performed, our professional opinions are based in part on interpretation of data from discrete sampling locations that may not represent actual conditions at unsampled locations.

6.0 REFERENCES

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TABLES

TABLE 1
Soil Sample Analytical Results - TEPH

Sample ID	Sample Depth (feet bgs)	TPH as diesel (mg/kg)	TPH as motor oil (mg/kg)
NG-1-1.0	1.0	**630**	**2,700**
NG-1-3.0	3.0	< 0.1	**14**
NG-1-5.0	5.0	< 0.1	**13**
NG-2-1.0	1.0	**4.4**	**130**
NG-2-1.0-D	1.0	< 0.1	**77**
NG-2-3.0	3.0	< 0.1	**8.1**
NG-2-5.0	5.0	< 0.1	< 2.0
NG-3-1.0	1.0	< 0.1	**190**
NG-3-1.0-D	1.0	< 0.1	**990**
NG-3-3.0	3.0	< 0.1	< 2.0
NG-3-5.0	5.0	< 0.1	< 2.0
NG-4-1.0	1.0	< 0.1	< 2.0
NG-4-3.0	3.0	< 0.1	**4.8**
NG-4-5.0	5.0	< 0.1	< 2.0
NG-5-1.0	1.0	< 0.1	**28**
NG-5-3.0	3.0	< 0.1	**6.9**
NG-5-5.0	5.0	< 0.1	< 1.53
Regulatory Standards			
RWQCB ESL - Residential		83	370
RWQCB ESL - Commercial/Industrial		83	2,500
RWQCB ESL - Construction Worker		4,200	12,000

NOTES:

TPH: Total Petroleum Hydrocarbons

mg/kg: milligrams per kilogram (parts per million)

<: Not detected at or above the indicated Practical Quantitation Limit (PQL)

RWQCB ESL - Residential: From Table A-1, Shallows Soil Screening Levels, Residential Land Use (RWQCB, 2008)

RWQCB ESL - Commercial From Table A-2, Shallows Soil Screening Levels, Commercial/Industrial Land Use (RWQCB, 2008)

RWQCB ESL - Construction Worker: Values from Table K-3, Direct Exposure Soil Screening Levels, Construction/Trench Worker Exposure Scenario (RWQCB, 2008)

TABLE 2
Soil Sample Analytical Results - Metals

		ANALYTE																	
		Antimony	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Copper**	**Lead**	**Soluble Lead***	**Mercury**	**Molybdenum**	**Nickel**	**Selenium**	**Silver**	**Thallium**	**Vanadium**	**Zinc**
Soil Sample ID	**Sample Depth**	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NG-1-1.0	1.0	<5.0	**9.3**	**64**	<2.0	<1.0	**21**	6.3	**71**	**99**	**6.1**	<0.10	<5.0	**21**	<5.0	<1.0	<5.0	**36**	**160**
NG-1-3.0	3.0	**5.1**	**65**	**170**	<2.0	**1.7**	**21**	<5.0	**23**	**22**	**--**	<0.10	<5.0	**15**	<5.0	**1.2**	<5.0	**27**	**17**
NG-2-1.0	1.0	<5.0	**17**	**88**	<2.0	**2.1**	**26**	**11**	**100**	**640**	**18**	**0.13**	<5.0	**25**	<5.0	<1.0	<5.0	**25**	**260**
NG-2-1.0-D	1.0	<5.0	**4.9**	**95**	<2.0	<1.0	**33**	**6.1**	**31**	**340**	**18**	**0.10**	<5.0	**26**	<5.0	<1.0	<5.0	**23**	**140**
NG-2-3.0	3.0	<5.0	**1.7**	**46**	<2.0	<1.0	**25**	<5.0	**5.6**	**2.8**	**--**	<0.10	<5.0	**15**	<5.0	<1.0	<5.0	**20**	**12**
NG-3-1.0	1.0	**6.1**	**7.8**	**110**	<2.0	**1.9**	**30**	**8.4**	**94**	**350**	**29**	**0.30**	<5.0	**31**	<5.0	<1.0	<5.0	**18**	**370**
NG-3-3.0	3.0	<5.0	<1.7	**65**	<2.0	<1.0	**25**	<5.0	**6.3**	**6.3**	**--**	<0.10	<5.0	**16**	<5.0	<1.0	<5.0	**18**	**190**
NG-4-1.0	1.0	<5.0	<1.7	**31**	<2.0	<1.0	**27**	<5.0	<5.0	**2.2**	**--**	<0.10	<5.0	**18**	<5.0	<1.0	<5.0	**19**	**12**
NG-4-3.0	3.0	<5.0	<1.7	**42**	<2.0	<1.0	**23**	<5.0	**5.7**	**1.4**	**--**	<0.10	<5.0	**15**	<5.0	<1.0	<5.0	**18**	**10**
NG-5-1.0	1.0	<5.0	**3.5**	**100**	<2.0	<1.0	**39**	**6.5**	**40**	**520**	**3.4**	<0.10	<5.0	**33**	<5.0	<1.0	<5.0	**25**	**190**
NG-5-3.0	3.0	<5.0	**7.4**	**64**	<2.0	<1.0	**53**	**11**	**150**	**180**	**--**	**0.24**	<5.0	**56**	<5.0	<1.0	<5.0	**26**	**93**
NG-6-1.0	1.0	<5.0	**2.8**	**96**	<2.0	<1.0	**23**	<5.0	**22**	**180**	**5.2**	<0.10	<5.0	**18**	<5.0	<1.0	<5.0	**20**	**49**
NG-6-3.0	3.0	<5.0	<1.7	**49**	<2.0	<1.0	**26**	**5.4**	**6.4**	**2.1**	**--**	<0.10	<5.0	**17**	<5.0	<1.0	<5.0	**20**	**12**
NG-7-1.0	1.0	<5.0	<1.7	**53**	<2.0	<1.0	**26**	<5.0	**6.5**	**5.8**	**--**	<0.10	<5.0	**19**	<5.0	<1.0	<5.0	**19**	**16**
NG-7-3.0	3.0	<5.0	<1.7	**40**	<2.0	<1.0	**29**	<5.0	**5.6**	**1.3**	**--**	<0.10	<5.0	**15**	<5.0	<1.0	<5.0	**18**	**10**
NG-8-1.0	1.0	<5.0	<1.7	**58**	<2.0	<1.0	**26**	<5.0	**6.5**	**10**	**--**	<0.10	<5.0	**16**	<5.0	<1.0	<5.0	**19**	**19**
NG-8-3.0	3.0	<5.0	<1.7	**38**	<2.0	<1.0	**24**	<5.0	**5.2**	**1.3**	**--**	<0.10	<5.0	**15**	<5.0	<1.0	<5.0	**19**	**9.7**
NG-9-1.0	1.0	<5.0	**3.0**	**62**	<2.0	<1.0	**39**	**6.5**	**11**	**21**	**--**	<0.10	<5.0	**33**	<5.0	<1.0	<5.0	**26**	**34**
NG-9-3.0	3.0	<5.0	<1.7	**47**	<2.0	<1.0	**27**	<5.0	**5.4**	**1.8**	**--**	<0.10	<5.0	**15**	<5.0	<1.0	<5.0	**19**	**11**
NG-10-1.0	1.0	<5.0	**3.6**	**200**	<2.0	<1.0	**26**	<5.0	**34**	**460**	**58**	**0.54**	<5.0	**18**	<5.0	<1.0	<5.0	**20**	**240**
NG-10-3.0	3.0	<5.0	<1.7	**32**	<2.0	<1.0	**25**	<5.0	**5.1**	**1.6**	**--**	<0.10	<5.0	**16**	<5.0	<1.0	<5.0	**18**	**9.2**
NG-11-1.0	1.0	<5.0	**2.6**	**180**	<2.0	<1.0	**21**	<5.0	**45**	**200**	**3.9**	**0.29**	<5.0	**16**	<5.0	<1.0	<5.0	**16**	**470**
NG-11-3.0	3.0	<5.0	**1.7**	**49**	<2.0	<1.0	**27**	<5.0	**7.3**	**4.9**	**--**	<0.10	<5.0	**15**	<5.0	<1.0	<5.0	**21**	**130**
NG-12-1.0	1.0	<5.0	**1.8**	**49**	<2.0	<1.0	**25**	<5.0	**6.8**	**25**	**--**	<0.10	<5.0	**16**	<5.0	<1.0	<5.0	**20**	**27**
NG-12-3.0	3.0	<5.0	<1.7	**44**	<2.0	<1.0	**26**	<5.0	**9.3**	**1.9**	**--**	<0.10	<5.0	**15**	<5.0	<1.0	<5.0	**20**	**11**
NG-13-1.0	1.0	**15**	**9.2**	**1,100**	<2.0	**4.9**	**54**	<5.0	**150**	**2,900**	**--**	**0.27**	<5.0	**30**	<5.0	<1.0	<5.0	**21**	**2000**
NG-13-1.0-D	1.0	<5.0	**3.5**	**82**	<2.0	<1.0	**29**	**8.4**	**26**	**200**	**520**	**0.22**	<5.0	**19**	<5.0	<1.0	<5.0	**22**	**100**
NG-13-3.0	3.0	<5.0	<1.7	**43**	<2.0	<1.0	**23**	<5.0	<5.0	**6.1**	**--**	<0.10	<5.0	**15**	<5.0	<1.0	<5.0	**17**	**610**

TABLE 2
Soil Sample Analytical Results - Metals

		ANALYTE																	
		Antimony	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Copper**	**Lead**	**Soluble Lead***	**Mercury**	**Molybdenum**	**Nickel**	**Selenium**	**Silver**	**Thallium**	**Vanadium**	**Zinc**
Soil Sample ID	**Sample Depth**	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Regulatory Standards																			
CHHSLs - Residential		30	0.07	5,200	150	1.7	100,000	660	3,000	80	ne	18	380	1,600	380	380	5.0	530	23,000
CHHSLs - Commercial/Industrial		380	0.2	63,000	1,700	7.5	100,000	3,200	38,000	320	ne	180	4,800	16,000	4,800	4,800	63	6,700	100,000
RWQCB ESL - Construction Worker		310	15	2,600	98	39	1,200,000	94	310,000	750	ne	58	3,900	260	3,900	3,900	62	770	230,000
Background Metals - City of Oakland		<3 -7.1	1.8-31	ne	<0.25 - 1.1	<0.25 - 3.3	24.8 - 99.7	ne	11.8 - 99.7	3.3 - 144.3	ne	<0.1 - 7.0	ne	2.9 - 144.3	ne	ne	ne	ne	9.3 - 474
TTLC		500	500	10,000	75	100	2,500	8,000	2,500	1,000	5**	20	3,500	2,000	100	500	700	2,400	5,000

NOTES:

mg/kg: milligrams per kilogram (parts per million)

<: Not detected at or above the indicated laboratory practical quantitation limit

ne: Not established

--: Not analyzed

CHSSLs - Residential: California Human Health Screening Level for residential land use established by California EPA (September 2009, January 2005)

CHSSLs -Commercial/Industrial: California Human Health Screening Level for commercial/industrial land use established by California EPA (September 2009, January 2005)

RWQCB ESL - Construction Worker: Values from Table K-3, Direct Exposure Soil Screening Levels, Construction/Trench Worker Exposure Scenario (RWQCB, 2008)

Background Metals - City of Oakland: 'Values taken from City of Oakland Urban Land Redevelopment Program, Survey of Background Metal Concentration Studies, 1995.

TTLC: Total Threshold Limit Concentration for defining a waste as a hazardous waste

STLC: Soluble Threshold Limit Concentration for defining a waste as a hazardous waste

*: Soluable lead determined using the California Waste Extraction Test

****** : STLC

TABLE 3
Soil Sample Analytical Results - SVOCs

Soil Sample ID	Sample Depth (feet bgs)	Fluoranthene mg/kg	Pyrene mg/kg
NG-6-1.0	1.0	**21 J**	**25 J**
NG-6-3.0	3.0	<0.132	<0.147
NG-6-5.0	5.0	<0.132	<0.147
NG-7-1.0	1.0	<0.132	<0.147
NG-7-1.0-D	1.0	<20.1	<22.3
NG-7-3.0	3.0	<0.132	<0.147
NG-7-5.0	5.0	<0.132	<0.147
NG-8-1.0	1.0	<0.132	<0.147
NG-8-3.0	3.0	<0.132	<0.147
NG-8-5.0	5.0	<0.132	<0.147
NG-9-1.0	1.0	<0.132	<0.147
NG-9-3.0	3.0	<0.132	<0.147
NG-9-5.0	5.0	<0.132	<0.147
NG-10.1.0	1.0	<20.1	<22.3
NG-10-1.0-D	1.0	<0.132	<0.147
NG-10-3.0	3.0	<0.132	<0.147
NG-10-5.0	5.0	<0.132	<0.147
NG-11-1.0	1.0	<0.132	<0.147
NG-11-3.0	3.0	<0.132	<0.147
NG-11-5.0	5.0	<0.132	<0.147
NG-12-1.0	1.0	<40.1	<44.5
NG-12-3.0	3.0	<0.132	<0.147
NG-12-5.0	5.0	<0.132	<0.147
NG-13-1.0	1.0	<80.2	<89.0
NG-13-1.0-D	1.0	<20.1	<22.3
NG-13-3.0	3.0	<0.132	<0.147
NG-13-5.0	5.0	<0.132	<0.147
Regulatory Standards			
RWQCB ESL - Residential		40	85
RWQCB ESL - Commercial/Industrial		40	85
RWQCB ESL - Construction Worker		14,000	21,000

NOTES:

mg/kg: milligrams per kilogram (parts per million)

J: Indicates a value between the method detection limit and the practical quantitiation limit and that the reported concentration should be considered as estimated

<: Not detected at or above the indicated laboratory practical quantitation limit

RWQCB ESL - Residential: From Table A-1, Shallows Soil Screening Levels, Residential Land Use (RWQCB, 2008)

RWQCB ESL - Commercial/Industrial: From Table A-2, Shallows Soil Screening Levels, Commercial/Industrial Land Use (RWQCB, 2008)

RWQCB ESL - Construction Worker: Values from Table K-3, Direct Exposure Soil Screening Levels, Construction/Trench Worker Exposure Scenario (RWQCB, 2008)

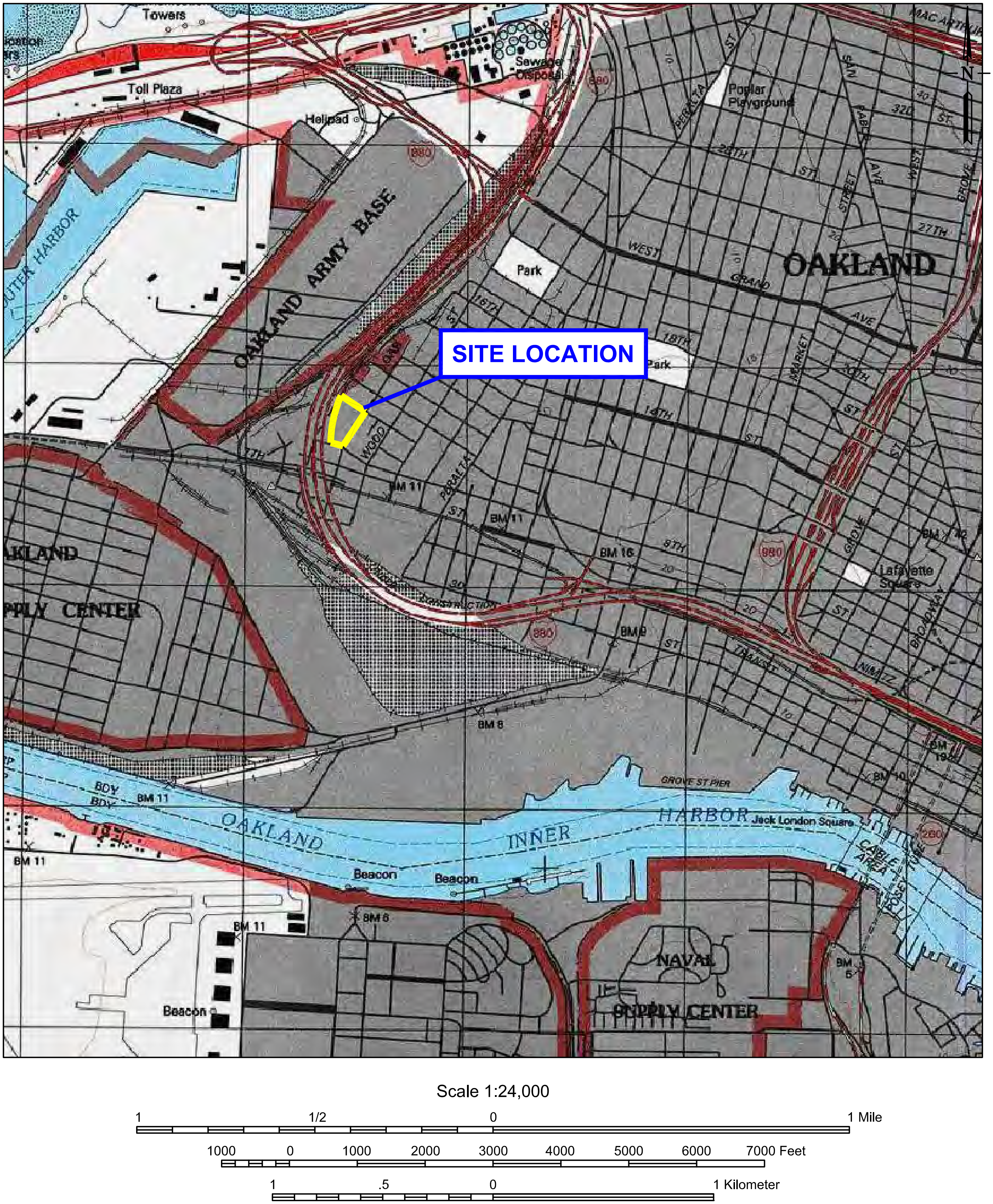
TABLE 4
Duplicate Soil Sample Analyses, Relative Percent Differences

Analyte	NG-2-1.0 (mg/kg)	NG-2-1.0-D (mg/kg)	RPD	NG-3-1.0 (mg/kg)	NG-3-1.0-D (mg/kg)	RPD	NG-13-1.0 (mg/kg)	NG-13-1.0-D (mg/kg)	RPD
TPHd	4.4	< 0.1	NA	< 0.1	< 0.1	NA	-----	-----	-----
TPHmo	130	77	51.2%	190	990	135.59%	-----	-----	-----
Antimony	<5.0	<5.0	NA	-----	-----	-----	15	<5.0	NA
Arsenic	17	4.9	110.5%	-----	-----	-----	9.2	3.5	89.8%
Barium	88	95	7.7%	-----	-----	-----	1100	82	172.3%
Cadmium	2.1	<1.0	NA	-----	-----	-----	4.9	<1.0	NA
Chromium	26	33	23.7%	-----	-----	-----	54	29	60.2%
Cobalt	11	6.1	57.3%	-----	-----	-----	<5.0	8.4	NA
Copper	100	31	105.3%	-----	-----	-----	150	26	140.9%
Lead	640	340	61.2%	-----	-----	-----	2900	200	174.2%
Mercury	0.13	0.1	26.1%	-----	-----	-----	0.27	0.22	20.4%
Nickel	25	26	3.9%	-----	-----	-----	30	19	44.9%
Vanadium	25	23	8.3%	-----	-----	-----	21	22	4.7%
Zinc	260	140	60.0%	-----	-----	-----	2000	100	181.0%

NOTES:

mg/kg: milligrams per kilogram (parts per million)
RPD: Relative Percent Difference
NA: not applicable
<: Not detected at or above the indicated Practical Quantitation Limit (PQL)

FIGURES



Scale 1:24,000

Source: National Geographic USGS TOPO! 2000

FIGURE 1
Site Location Map

800 Cedar Street
Oakland, California

northgate
environmental management, inc.

Project No. 1204.18

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LEGEND:

◎ Soil boring locations

P-25 △ 1999 Soil borings

Approximate site boundary

Site boundary from PEA Report (1993)

0 50 100

Scale (Feet)

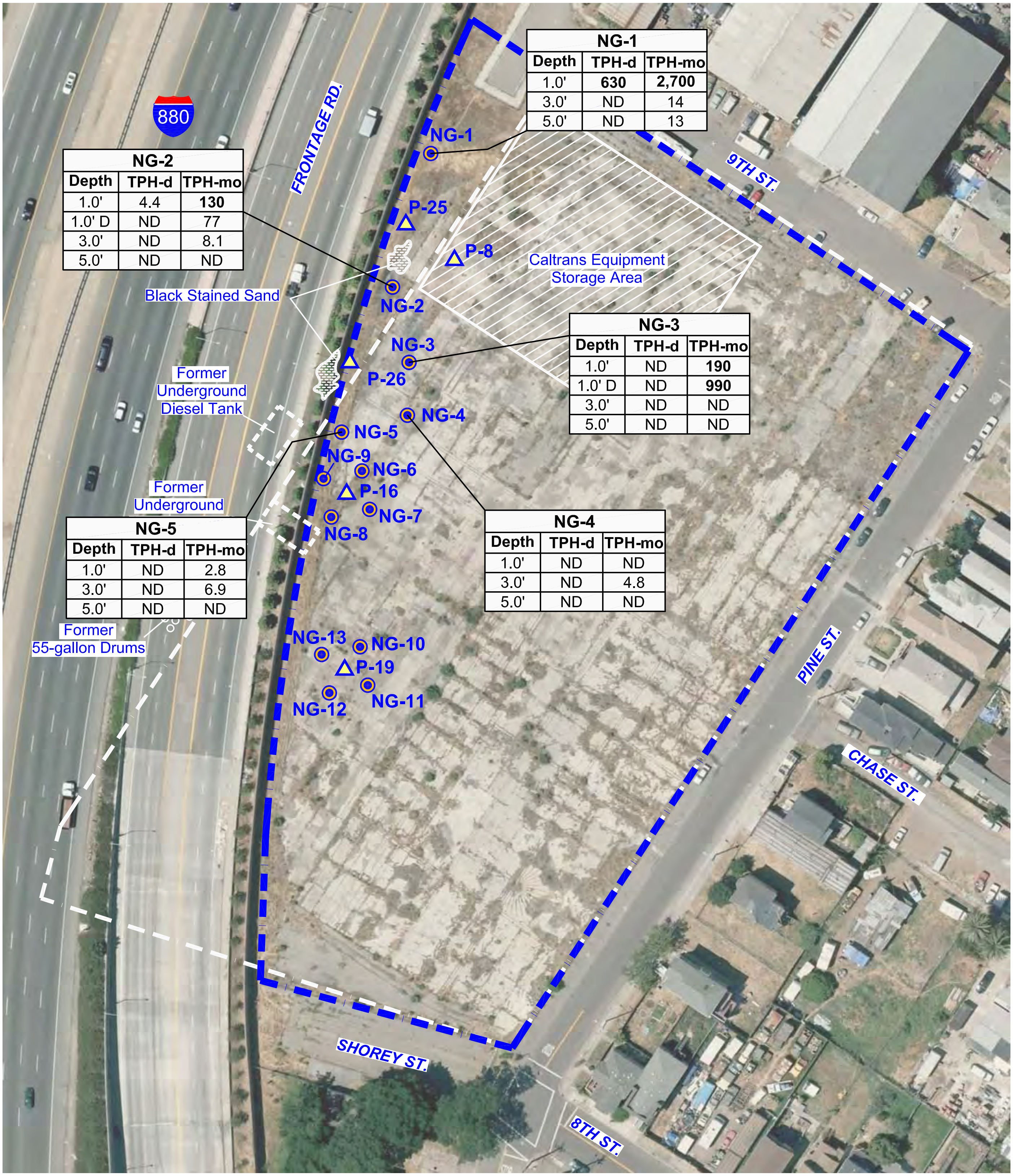
N

FIGURE 2
Site Plan

800 Cedar Street
Oakland, California

northgate environmental management, inc.

Project No. 1204.18



NG-1

Depth	TPH-d	TPH-mo
1.0'	**630**	**2,700**
3.0'	ND	14
5.0'	ND	13

NG-2

Depth	TPH-d	TPH-mo
1.0'	4.4	**130**
1.0' D	ND	77
3.0'	ND	8.1
5.0'	ND	ND

NG-3

Depth	TPH-d	TPH-mo
1.0'	ND	**190**
1.0' D	ND	**990**
3.0'	ND	ND
5.0'	ND	ND

NG-4

Depth	TPH-d	TPH-mo
1.0'	ND	ND
3.0'	ND	4.8
5.0'	ND	ND

NG-5

Depth	TPH-d	TPH-mo
1.0'	ND	2.8
3.0'	ND	6.9
5.0'	ND	ND

LEGEND:

- ● Soil boring locations
- P-25 △ 1999 Soil borings
- Approximate site boundary
- Site boundary from PEA Report (1993)

Notes:
- Data in mg/Kg
- **Bold** = Exceeds RWQCB ESL of 83 mg/Kg for TPH-d and TPH-mo

0 50 100
Scale (Feet)

N

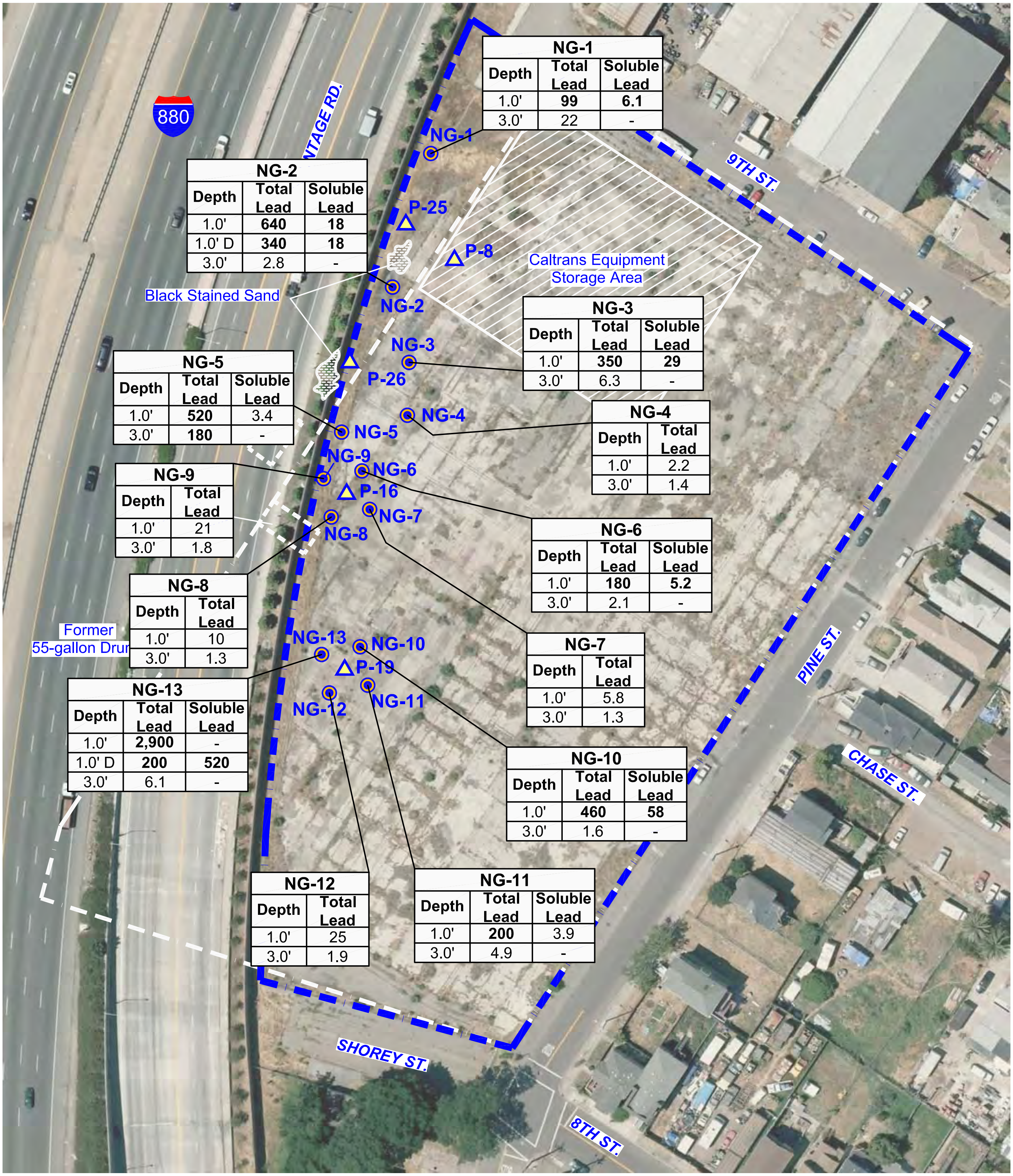
FIGURE 3
TPH Concentrations in Soil

800 Cedar Street
Oakland, California

northgate
environmental management, inc.

Project No. 1204.18

G:\Projects\Temp\1204 City of Oakland\1204.18 800 Cedar\1204.18 Figures\Phase II Rpt\Figure 3-4 - TPH-Lead-Soil.dwg Layout: Fig3 TPH User: oleg Sep 07, 2011 - 2:58pm



NG-1

Depth	Total Lead	Soluble Lead
1.0'	**99**	**6.1**
3.0'	22	-

NG-2

Depth	Total Lead	Soluble Lead
1.0'	**640**	**18**
1.0' D	**340**	**18**
3.0'	2.8	-

NG-3

Depth	Total Lead	Soluble Lead
1.0'	**350**	**29**
3.0'	6.3	-

NG-5

Depth	Total Lead	Soluble Lead
1.0'	**520**	3.4
3.0'	**180**	-

NG-4

Depth	Total Lead
1.0'	2.2
3.0'	1.4

NG-9

Depth	Total Lead
1.0'	21
3.0'	1.8

NG-6

Depth	Total Lead	Soluble Lead
1.0'	**180**	**5.2**
3.0'	2.1	-

NG-8

Depth	Total Lead
1.0'	10
3.0'	1.3

NG-7

Depth	Total Lead
1.0'	5.8
3.0'	1.3

NG-13

Depth	Total Lead	Soluble Lead
1.0'	**2,900**	-
1.0' D	**200**	**520**
3.0'	6.1	-

NG-10

Depth	Total Lead	Soluble Lead
1.0'	**460**	**58**
3.0'	1.6	-

NG-12

Depth	Total Lead
1.0'	25
3.0'	1.9

NG-11

Depth	Total Lead	Soluble Lead
1.0'	**200**	3.9
3.0'	4.9	-

LEGEND:

◉	Soil boring locations
P-25 △	1999 Soil borings
▬ ▬ ▬	Approximate site boundary
▬ ▬ ▬	Site boundary from PEA Report (1993)

Notes:
- Data in mg/Kg
- **Bold** = Exceeds Residential CHHSL of 80 mg/Kg for Total Lead and STLC of 5 mg/Kg for Soluble Lead
- Soluble lead based on the WET

0 50 100
Scale (Feet)

N

FIGURE 4
Lead Concentrations in Soil

800 Cedar Street
Oakland, California

northgate
environmental management, inc.

Project No. 1204.18

G:\Projects\Temp\1204 City of Oakland\1204.18 800 Cedar\1204.18 Figures\Phase II Rpt\Figure 3-4 - TPH-Lead-Soil.dwg Layout: Fig4 Lead User: oleg Sep 15, 2011 - 3:00pm

APPENDIX A
BORING PERMITS

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 02/10/2011 By jamesy

Permit Numbers: W2011-0062
Permits Valid from 08/10/2011 to 08/17/2011

Application Id: 1297297504974
City of Project Site: Oakland
Site Location: 800 Cedar St, Oakland, CA
Project Start Date: 02/23/2011
Completion Date: 02/24/2011
Extension Start Date: 08/10/2011
Extension End Date: 08/17/2011
Extension Count: 1
Extended By: priest

Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

Applicant: Northgate Environmental Mgt. - Adam Klein
300 Ogawa Plaza, Ste 510, Oakland, CA 94612
Phone: 510-839-0688 x215
Property Owner: City of Oakland c/o Gopakumar Nair, Envr.
Services Div.
250 Frank Ogawa Plaza, Ste 5301, Oakland, CA 94612
Phone: 510-238-5361
Client: ** same as Property Owner **

	Total Due:	$265.00
Receipt Number: WR2011-0033	**Total Amount Paid:**	$265.00
Payer Name : Northgate	Paid By: CHECK	**PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 15 Boreholes
Driller: RSI - Lic #: 802334 - Method: DP

Work Total: $265.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2011-0062	02/10/2011	05/24/2011	15	3.00 in.	15.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit

application on site shall result in a fine of $500.00.

6. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

APPENDIX B
LABORATORY ANALYTICAL REPORTS

Northgate Environmental Management Inc.
300 Frank H. Ogawa Plaza, Suite 510
Oakland, California 94612
Tel: 5108390688
Fax: (510) 839-4350

RE: 800 Cedar St. , Oakland, CA

Work Order No.: 1108085 Rev: 1

Dear Adam Klein:

Torrent Laboratory, Inc. received sample(s) on August 11, 2011 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

Patti Sandrock

August 19, 2011
Date

Date: 8/19/2011

Client: Northgate Environmental Management Inc.

Project: 800 Cedar St. , Oakland, CA

Work Order: 1108085

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Analytical Comments for method S_8270C, 1108085-028 MS/MSD, QC Analytical Batch ID 406344, Note:The % recoveries for Pyrene are outside of laboratory control limits but are within % RPD limits. The associated LCS/LCSD % recoveries and % RPD are within limits. No corrective action required.

Analytical Comments for method S_6010B, 1108085-015 MS/MSD, QC Analytical Batch ID 406312, Note:The % recoveries for Barium, Copper and Zinc are outside of laboratory control limits. The associated LCS/LCSD % recoveries and % RPD are within limits. No corrective action required.

Analytical Comment for S)6010B, Note:The spikes in the MS/MSD for Lead are not recoverable. The sample concentration is greater than 4X the spike concentration. No corrective action is required.

REVISIONS:

Per client request, STLC analysis added to several samples.

Note: Extraction of 50 g sample / 500g 0.2M Sodium Citrate Solution was performed according to wet extraction procedure (WET) which was rotated in a rotary shaker for 48 hours.

STLC:Extraction started on 8/22/11 @2:45 PM and ended on 8/24/11 @2:45 PM.

Sample 1108085-041 (NG-13-1.0) TTLC and STLC ratio was outside of acceptance limits. TTLC results was 2900 mg/Kg while STLC was 520 mg/L. The ratio for TTLC to STLC should not be greater than 10:1 in a normal, homogeneous sample. As a result, the TTLC was re-prepared in triplicate and yielded the following results:

4600 mg/Kg
3400 mg/Kg
5600 mg/Kg

These wide ranges of results are indicative of a heterogeneous sample. Because only 1 - 2 grams is used in TTLC preparation while a minimum 50 grams is used in STLC preparation, the STLC data is likely the most representative value for this sample.

Data for the triplicate analyses can be reported upon client request.

Rev 1 (8/29/11)

Sample Result Summary

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

NG-1-1.0 1108085-001

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.28	1.7	9.3	mg/Kg
Barium	SW6010B	1	1	5.0	64	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	21	mg/Kg
Cobalt	SW6010B	1	0.14	5.0	6.3	mg/Kg
Copper	SW6010B	1	0.0900	5.0	71	mg/Kg
Lead	SW6010B	1	0.043	1.0	99	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	21	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	36	mg/Kg
Zinc	SW6010B	1	0.59	5.0	160	mg/Kg
TPH as Diesel (SG)	SW8015B(M)	50	38	99	630	mg/Kg
TPH as Motor Oil (SG)	SW8015B(M)	50	89	200	2700	mg/Kg
Lead (STLC)	SW6010B	1	0.0500	0.10	6.1	mg/L

NG-1-3.0 1108085-002

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TPH as Motor Oil (SG)	SW8015B(M)	1	1.8	4.0	14	mg/Kg
Antimony	SW6010B	1	0.20	5.0	5.1	mg/Kg
Arsenic	SW6010B	1	0.28	1.7	65	mg/Kg
Barium	SW6010B	1	1	5.0	170	mg/Kg
Cadmium	SW6010B	1	0.0590	1.0	1.7	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	21	mg/Kg
Copper	SW6010B	1	0.0900	5.0	23	mg/Kg
Lead	SW6010B	1	0.043	1.0	22	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	15	mg/Kg
Silver	SW6010B	1	1.0	1.0	1.2	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	27	mg/Kg
Zinc	SW6010B	1	0.59	5.0	17	mg/Kg

Sample Result Summary

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

NG-1-5.0 1108085-003

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TPH as Motor Oil (SG)	SW8015B(M)	1	1.8	4.0	13	mg/Kg

NG-2-1.0 1108085-004

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.28	1.7	17	mg/Kg
Barium	SW6010B	1	1	5.0	88	mg/Kg
Cadmium	SW6010B	1	0.0590	1.0	2.1	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	26	mg/Kg
Cobalt	SW6010B	1	0.14	5.0	11	mg/Kg
Copper	SW6010B	1	0.0900	5.0	100	mg/Kg
Lead	SW6010B	1	0.043	1.0	640	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	25	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	25	mg/Kg
Zinc	SW6010B	1	0.59	5.0	260	mg/Kg
Mercury	SW7471A	1	0.01	0.10	0.13	mg/Kg
TPH as Diesel (SG)	SW8015B(M)	1	0.76	2.0	4.4	mg/Kg
TPH as Motor Oil (SG)	SW8015B(M)	1	1.8	4.0	130	mg/Kg
Lead (STLC)	SW6010B	1	0.0500	0.10	18	mg/L

Sample Result Summary

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

NG-2-1.0 D 1108085-005

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Lead (STLC)	SW6010B	1	0.0500	0.10	18	mg/L
Arsenic	SW6010B	1	0.28	1.7	4.9	mg/Kg
Barium	SW6010B	1	1	5.0	95	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	33	mg/Kg
Cobalt	SW6010B	1	0.14	5.0	6.1	mg/Kg
Copper	SW6010B	1	0.0900	5.0	31	mg/Kg
Lead	SW6010B	1	0.043	1.0	340	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	26	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	23	mg/Kg
Zinc	SW6010B	1	0.59	5.0	140	mg/Kg
Mercury	SW7471A	1	0.01	0.10	0.10	mg/Kg
TPH as Motor Oil (SG)	SW8015B(M)	1	1.8	4.0	77	mg/Kg

NG-2-3.0 1108085-006

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TPH as Motor Oil (SG)	SW8015B(M)	1	1.8	4.0	8.1	mg/Kg
Arsenic	SW6010B	1	0.28	1.7	1.7	mg/Kg
Barium	SW6010B	1	1	5.0	46	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	25	mg/Kg
Copper	SW6010B	1	0.0900	5.0	5.6	mg/Kg
Lead	SW6010B	1	0.043	1.0	2.8	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	15	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	20	mg/Kg
Zinc	SW6010B	1	0.59	5.0	12	mg/Kg

NG-2-5.0 1108085-007

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Sample Result Summary

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

NG-3-1.0 1108085-008

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	SW6010B	1	0.20	5.0	6.1	mg/Kg
Arsenic	SW6010B	1	0.28	1.7	7.8	mg/Kg
Barium	SW6010B	1	1	5.0	110	mg/Kg
Cadmium	SW6010B	1	0.0590	1.0	1.9	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	30	mg/Kg
Cobalt	SW6010B	1	0.14	5.0	8.4	mg/Kg
Copper	SW6010B	1	0.0900	5.0	94	mg/Kg
Lead	SW6010B	1	0.043	1.0	350	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	31	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	18	mg/Kg
Zinc	SW6010B	1	0.59	5.0	370	mg/Kg
Mercury	SW7471A	1	0.01	0.10	0.30	mg/Kg
TPH as Motor Oil (SG)	SW8015B(M)	3	5.3	12	190	mg/Kg
Lead (STLC)	SW6010B	1	0.0500	0.10	29	mg/L

NG-3-1.0 D 1108085-009

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TPH as Motor Oil (SG)	SW8015B(M)	20	36	79	990	mg/Kg

NG-3-3.0 1108085-010

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Barium	SW6010B	1	1	5.0	65	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	25	mg/Kg
Copper	SW6010B	1	0.0900	5.0	6.3	mg/Kg
Lead	SW6010B	1	0.043	1.0	6.3	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	16	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	18	mg/Kg
Zinc	SW6010B	1	0.59	5.0	190	mg/Kg

Sample Result Summary

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

NG-3-5.0 1108085-011

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

NG-4-1.0 1108085-012

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Barium	SW6010B	1	1	5.0	31	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	27	mg/Kg
Lead	SW6010B	1	0.043	1.0	2.2	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	18	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	19	mg/Kg
Zinc	SW6010B	1	0.59	5.0	12	mg/Kg

NG-4-3.0 1108085-013

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TPH as Motor Oil (SG)	SW8015B(M)	1	1.8	4.0	4.8	mg/Kg
Barium	SW6010B	1	1	5.0	42	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	23	mg/Kg
Copper	SW6010B	1	0.0900	5.0	5.7	mg/Kg
Lead	SW6010B	1	0.043	1.0	1.4	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	15	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	18	mg/Kg
Zinc	SW6010B	1	0.59	5.0	10	mg/Kg

NG-4-5.0 1108085-014

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Sample Result Summary

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

NG-5-1.0 1108085-015

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.28	1.7	3.5	mg/Kg
Barium	SW6010B	1	1	5.0	100	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	39	mg/Kg
Cobalt	SW6010B	1	0.14	5.0	6.5	mg/Kg
Copper	SW6010B	1	0.0900	5.0	40	mg/Kg
Lead	SW6010B	1	0.043	1.0	520	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	33	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	25	mg/Kg
Zinc	SW6010B	1	0.59	5.0	190	mg/Kg
TPH as Motor Oil (SG)	SW8015B(M)	1	1.8	4.0	28	mg/Kg
Lead (STLC)	SW6010B	1	0.0500	0.10	3.4	mg/L

NG-5-3.0 1108085-016

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TPH as Motor Oil (SG)	SW8015B(M)	1	1.8	4.0	6.9	mg/Kg
Arsenic	SW6010B	1	0.28	1.7	7.4	mg/Kg
Barium	SW6010B	1	1	5.0	64	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	53	mg/Kg
Cobalt	SW6010B	1	0.14	5.0	11	mg/Kg
Copper	SW6010B	1	0.0900	5.0	150	mg/Kg
Lead	SW6010B	1	0.043	1.0	180	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	56	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	26	mg/Kg
Zinc	SW6010B	1	0.59	5.0	93	mg/Kg
Mercury	SW7471A	1	0.01	0.10	0.24	mg/Kg

NG-5-5.0 1108085-017

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Sample Result Summary

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

NG-6-1.0 1108085-018

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.28	1.7	2.8	mg/Kg
Barium	SW6010B	1	1	5.0	96	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	23	mg/Kg
Copper	SW6010B	1	0.0900	5.0	22	mg/Kg
Lead	SW6010B	1	0.043	1.0	180	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	18	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	20	mg/Kg
Zinc	SW6010B	1	0.59	5.0	49	mg/Kg
Fluoranthene	SW8270C	10	20.1	99.0	21	mg/Kg
Pyrene	SW8270C	10	22.3	50.0	25	mg/Kg
Lead (STLC)	SW6010B	1	0.0500	0.10	5.2	mg/L

NG-6-3.0 1108085-019

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Barium	SW6010B	1	1	5.0	49	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	26	mg/Kg
Cobalt	SW6010B	1	0.14	5.0	5.4	mg/Kg
Copper	SW6010B	1	0.0900	5.0	6.4	mg/Kg
Lead	SW6010B	1	0.043	1.0	2.1	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	17	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	20	mg/Kg
Zinc	SW6010B	1	0.59	5.0	12	mg/Kg

NG-6-5.0 1108085-020

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Sample Result Summary

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

NG-7-1.0 1108085-021

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Barium	SW6010B	1	1	5.0	53	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	26	mg/Kg
Copper	SW6010B	1	0.0900	5.0	6.5	mg/Kg
Lead	SW6010B	1	0.043	1.0	5.8	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	19	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	19	mg/Kg
Zinc	SW6010B	1	0.59	5.0	16	mg/Kg

NG-7-1.0 D 1108085-022

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

NG-7-3.0 1108085-023

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Barium	SW6010B	1	1	5.0	40	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	29	mg/Kg
Copper	SW6010B	1	0.0900	5.0	5.6	mg/Kg
Lead	SW6010B	1	0.043	1.0	1.3	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	15	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	18	mg/Kg
Zinc	SW6010B	1	0.59	5.0	10	mg/Kg

NG-7-5.0 1108085-024

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Sample Result Summary

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

NG-8-1.0 1108085-025

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Barium	SW6010B	1	1	5.0	58	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	26	mg/Kg
Copper	SW6010B	1	0.0900	5.0	6.5	mg/Kg
Lead	SW6010B	1	0.043	1.0	10	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	16	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	19	mg/Kg
Zinc	SW6010B	1	0.59	5.0	19	mg/Kg

NG-8-3.0 1108085-026

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Barium	SW6010B	1	1	5.0	38	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	24	mg/Kg
Copper	SW6010B	1	0.0900	5.0	5.2	mg/Kg
Lead	SW6010B	1	0.043	1.0	1.3	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	15	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	19	mg/Kg
Zinc	SW6010B	1	0.59	5.0	9.7	mg/Kg

NG-8-5.0 1108085-027

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Sample Result Summary

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

NG-9-1.0 1108085-028

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.28	1.7	3.0	mg/Kg
Barium	SW6010B	1	1	5.0	62	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	39	mg/Kg
Cobalt	SW6010B	1	0.14	5.0	6.5	mg/Kg
Copper	SW6010B	1	0.0900	5.0	11	mg/Kg
Lead	SW6010B	1	0.043	1.0	21	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	33	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	26	mg/Kg
Zinc	SW6010B	1	0.59	5.0	34	mg/Kg

NG-9-3.0 1108085-029

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Barium	SW6010B	1	1	5.0	47	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	27	mg/Kg
Copper	SW6010B	1	0.0900	5.0	5.4	mg/Kg
Lead	SW6010B	1	0.043	1.0	1.8	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	15	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	19	mg/Kg
Zinc	SW6010B	1	0.59	5.0	11	mg/Kg

NG-9-5.0 1108085-030

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Sample Result Summary

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

NG-10-1.0 1108085-031

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.28	1.7	3.6	mg/Kg
Barium	SW6010B	1	1	5.0	200	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	26	mg/Kg
Copper	SW6010B	1	0.0900	5.0	34	mg/Kg
Lead	SW6010B	1	0.043	1.0	460	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	18	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	20	mg/Kg
Zinc	SW6010B	1	0.59	5.0	240	mg/Kg
Mercury	SW7471A	1	0.01	0.10	0.54	mg/Kg
Lead (STLC)	SW6010B	1	0.0500	0.10	58	mg/L

NG-10-1.0 D 1108085-032

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

NG-10-3.0 1108085-033

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Barium	SW6010B	1	1	5.0	32	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	25	mg/Kg
Copper	SW6010B	1	0.0900	5.0	5.1	mg/Kg
Lead	SW6010B	1	0.043	1.0	1.6	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	16	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	18	mg/Kg
Zinc	SW6010B	1	0.59	5.0	9.2	mg/Kg

NG-10-5.0 1108085-034

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Sample Result Summary

Report prepared for:	Adam Klein	**Date Received:**	08/11/11
	Northgate Environmental Management Inc.	**Date Reported:**	08/19/11

NG-11-1.0 1108085-035

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.28	1.7	2.6	mg/Kg
Barium	SW6010B	1	1	5.0	180	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	21	mg/Kg
Copper	SW6010B	1	0.0900	5.0	45	mg/Kg
Lead	SW6010B	1	0.043	1.0	200	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	16	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	16	mg/Kg
Zinc	SW6010B	1	0.59	5.0	470	mg/Kg
Mercury	SW7471A	1	0.01	0.10	0.29	mg/Kg
Lead (STLC)	SW6010B	1	0.0500	0.10	3.9	mg/L

NG-11-3.0 1108085-036

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.28	1.7	1.7	mg/Kg
Barium	SW6010B	1	1	5.0	49	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	27	mg/Kg
Copper	SW6010B	1	0.0900	5.0	7.3	mg/Kg
Lead	SW6010B	1	0.043	1.0	4.9	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	15	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	21	mg/Kg
Zinc	SW6010B	1	0.59	5.0	130	mg/Kg

NG-11-5.0 1108085-037

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Sample Result Summary

Report prepared for:	Adam Klein	**Date Received:**	08/11/11
	Northgate Environmental Management Inc.	**Date Reported:**	08/19/11

NG-12-1.0 1108085-038

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.28	1.7	1.8	mg/Kg
Barium	SW6010B	1	1	5.0	49	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	25	mg/Kg
Copper	SW6010B	1	0.0900	5.0	6.8	mg/Kg
Lead	SW6010B	1	0.043	1.0	25	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	16	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	20	mg/Kg
Zinc	SW6010B	1	0.59	5.0	27	mg/Kg

NG-12-3.0 1108085-039

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Barium	SW6010B	1	1	5.0	44	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	26	mg/Kg
Copper	SW6010B	1	0.0900	5.0	9.3	mg/Kg
Lead	SW6010B	1	0.043	1.0	1.9	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	15	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	20	mg/Kg
Zinc	SW6010B	1	0.59	5.0	11	mg/Kg

NG-12-5.0 1108085-040

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Sample Result Summary

Report prepared for:	Adam Klein	**Date Received:**	08/11/11
	Northgate Environmental Management Inc.	**Date Reported:**	08/19/11

NG-13-1.0 1108085-041

Parameters:	**Analysis Method**	**DF**	**MDL**	**PQL**	**Results**	**Unit**
Antimony	SW6010B	1	0.20	5.0	15	mg/Kg
Arsenic	SW6010B	1	0.28	1.7	9.2	mg/Kg
Barium	SW6010B	1	1	5.0	1100	mg/Kg
Cadmium	SW6010B	1	0.0590	1.0	4.9	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	54	mg/Kg
Copper	SW6010B	1	0.0900	5.0	150	mg/Kg
Lead	SW6010B	1	0.043	1.0	2900	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	30	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	21	mg/Kg
Zinc	SW6010B	1	0.59	5.0	2000	mg/Kg
Mercury	SW7471A	1	0.01	0.10	0.27	mg/Kg

NG-13-1.0 D 1108085-042

Parameters:	**Analysis Method**	**DF**	**MDL**	**PQL**	**Results**	**Unit**
Arsenic	SW6010B	1	0.28	1.7	3.5	mg/Kg
Barium	SW6010B	1	1	5.0	82	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	29	mg/Kg
Cobalt	SW6010B	1	0.14	5.0	8.4	mg/Kg
Copper	SW6010B	1	0.0900	5.0	26	mg/Kg
Lead	SW6010B	1	0.043	1.0	200	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	19	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	22	mg/Kg
Zinc	SW6010B	1	0.59	5.0	100	mg/Kg
Mercury	SW7471A	1	0.01	0.10	0.22	mg/Kg
Lead (STLC)	SW6010B	1	0.0500	0.10	520	mg/L

Sample Result Summary

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

NG-13-3.0 1108085-043

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Barium	SW6010B	1	1	5.0	43	mg/Kg
Chromium	SW6010B	1	0.0590	5.0	23	mg/Kg
Lead	SW6010B	1	0.043	1.0	6.1	mg/Kg
Nickel	SW6010B	1	0.0590	5.0	15	mg/Kg
Vanadium	SW6010B	1	0.12	5.0	17	mg/Kg
Zinc	SW6010B	1	0.59	5.0	610	mg/Kg

NG-13-5.0 1108085-044

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-1-1.0	**Lab Sample ID:**	1108085-001A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 8:50		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead (STLC)	SW6010B	8/24/11	08/25/11	1	0.0500	0.10	6.1		mg/L	406420	3488

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406288	3405
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	9.3		mg/Kg	406288	3405
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	64		mg/Kg	406288	3405
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406288	3405
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	ND		mg/Kg	406288	3405
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	21		mg/Kg	406288	3405
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	6.3		mg/Kg	406288	3405
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	71		mg/Kg	406288	3405
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	99		mg/Kg	406288	3405
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406288	3405
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	21		mg/Kg	406288	3405
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406288	3405
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406288	3405
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406288	3405
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	36		mg/Kg	406288	3405
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	160		mg/Kg	406288	3405

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/15/11	08/16/11	1	0.01	0.10	ND		mg/Kg	406270	3393

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/16/11	08/19/11	50	38	99	630		mg/Kg	406345	3403
TPH as Motor Oil (SG)	SW8015B(M)	8/16/11	08/19/11	50	89	200	2700		mg/Kg	406345	3403
Pentacosane (S)	SW8015B(M)	8/16/11	08/19/11	50	61.5	133	0.000	S,D	%	406345	3403

NOTE: D - Surrogates not recoverable due to dilution of the sample.

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-1-3.0	**Lab Sample ID:**	1108085-002A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 8:55		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	5.1		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	65		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	170		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	1.7		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	21		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	ND		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	23		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	22		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	15		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	1.2		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	27		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	17		mg/Kg	406377	3460

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	ND		mg/Kg	406366	3453

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/16/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406345	3403
TPH as Motor Oil (SG)	SW8015B(M)	8/16/11	08/19/11	1	1.8	4.0	14		mg/Kg	406345	3403
Pentacosane (S)	SW8015B(M)	8/16/11	08/19/11	1	61.5	133	92.1		%	406345	3403

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-1-5.0	**Lab Sample ID:**	1108085-003A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 9:00		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/16/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406345	3403
TPH as Motor Oil (SG)	SW8015B(M)	8/16/11	08/19/11	1	1.8	4.0	13	x	mg/Kg	406345	3403
Pentacosane (S)	SW8015B(M)	8/16/11	08/19/11	1	61.5	133	83.0		%	406345	3403

NOTE: x-Not typical of Motor oil standard pattern (discrete hydrocarbon peaks present).

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-2-1.0	**Lab Sample ID:**	1108085-004A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 9:25		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead (STLC)	SW6010B	8/24/11	08/25/11	1	0.0500	0.10	18		mg/L	406420	3488

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406288	3405
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	17		mg/Kg	406288	3405
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	88		mg/Kg	406288	3405
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406288	3405
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	2.1		mg/Kg	406288	3405
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	26		mg/Kg	406288	3405
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	11		mg/Kg	406288	3405
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	100		mg/Kg	406288	3405
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	640		mg/Kg	406288	3405
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406288	3405
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	25		mg/Kg	406288	3405
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406288	3405
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406288	3405
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406288	3405
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	25		mg/Kg	406288	3405
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	260		mg/Kg	406288	3405

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/15/11	08/16/11	1	0.01	0.10	0.13		mg/Kg	406270	3393

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/16/11	08/19/11	1	0.76	2.0	4.4	x	mg/Kg	406345	3403
TPH as Motor Oil (SG)	SW8015B(M)	8/16/11	08/19/11	1	1.8	4.0	130		mg/Kg	406345	3403
Pentacosane (S)	SW8015B(M)	8/16/11	08/19/11	1	61.5	133	92.5		%	406345	3403

NOTE: x-Not typical of Diesel standard pattern. Diesel result is carry over from TPH as motor oil quantitation range.

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-2-1.0 D	**Lab Sample ID:**	1108085-005A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 9:25		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead (STLC)	SW6010B	8/24/11	08/25/11	1	0.0500	0.10	18		mg/L	406420	3488

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406288	3405
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	4.9		mg/Kg	406288	3405
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	95		mg/Kg	406288	3405
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406288	3405
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	ND		mg/Kg	406288	3405
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	33		mg/Kg	406288	3405
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	6.1		mg/Kg	406288	3405
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	31		mg/Kg	406288	3405
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	340		mg/Kg	406288	3405
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406288	3405
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	26		mg/Kg	406288	3405
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406288	3405
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406288	3405
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406288	3405
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	23		mg/Kg	406288	3405
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	140		mg/Kg	406288	3405

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/15/11	08/16/11	1	0.01	0.10	0.10		mg/Kg	406270	3393

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/16/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406345	3403
TPH as Motor Oil (SG)	SW8015B(M)	8/16/11	08/19/11	1	1.8	4.0	77		mg/Kg	406345	3403
Pentacosane (S)	SW8015B(M)	8/16/11	08/19/11	1	61.5	133	91.9		%	406345	3403

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-2-3.0	**Lab Sample ID:**	1108085-006A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 9:30		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	ND		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	1.7		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	46		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	ND		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	25		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	ND		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	5.6		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	2.8		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	15		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	ND		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	20		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	12		mg/Kg	406377	3460

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	ND		mg/Kg	406366	3453

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/16/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406345	3403
TPH as Motor Oil (SG)	SW8015B(M)	8/16/11	08/19/11	1	1.8	4.0	8.1		mg/Kg	406345	3403
Pentacosane (S)	SW8015B(M)	8/16/11	08/19/11	1	61.5	133	103		%	406345	3403

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-2-5.0	**Lab Sample ID:**	1108085-007A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 9:35		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
TPH as Diesel (SG)	SW8015B(M)	8/16/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406345	3403
TPH as Motor Oil (SG)	SW8015B(M)	8/16/11	08/19/11	1	1.8	4.0	ND		mg/Kg	406345	3403
Pentacosane (S)	SW8015B(M)	8/16/11	08/19/11	1	61.5	133	74.4		%	406345	3403

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-3-1.0	**Lab Sample ID:**	1108085-008A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 9:40		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead (STLC)	SW6010B	8/24/11	08/25/11	1	0.0500	0.10	29		mg/L	406420	3488

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	6.1		mg/Kg	406288	3405
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	7.8		mg/Kg	406288	3405
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	110		mg/Kg	406288	3405
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406288	3405
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	1.9		mg/Kg	406288	3405
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	30		mg/Kg	406288	3405
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	8.4		mg/Kg	406288	3405
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	94		mg/Kg	406288	3405
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	350		mg/Kg	406288	3405
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406288	3405
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	31		mg/Kg	406288	3405
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406288	3405
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406288	3405
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406288	3405
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	18		mg/Kg	406288	3405
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	370		mg/Kg	406288	3405

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/16/11	08/17/11	1	0.01	0.10	0.30		mg/Kg	406292	3410

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/16/11	08/19/11	3	2.3	5.9	ND		mg/Kg	406345	3403
TPH as Motor Oil (SG)	SW8015B(M)	8/16/11	08/19/11	3	5.3	12	190		mg/Kg	406345	3403
Pentacosane (S)	SW8015B(M)	8/16/11	08/19/11	3	61.5	133	69.1		%	406345	3403

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-3-1.0 D	**Lab Sample ID:**	1108085-009A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 9:40		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
TPH as Diesel (SG)	SW8015B(M)	8/16/11	08/19/11	20	15	40	ND		mg/Kg	406345	3403
TPH as Motor Oil (SG)	SW8015B(M)	8/16/11	08/19/11	20	36	79	990		mg/Kg	406345	3403
Pentacosane (S)	SW8015B(M)	8/16/11	08/19/11	20	61.5	133	82.9		%	406345	3403

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-3-3.0	**Lab Sample ID:**	1108085-010A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 9:45		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	ND		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	ND		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	65		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	ND		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	25		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	ND		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	6.3		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	6.3		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	16		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	ND		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	18		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	190		mg/Kg	406377	3460

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	ND		mg/Kg	406366	3453

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/16/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406345	3403
TPH as Motor Oil (SG)	SW8015B(M)	8/16/11	08/19/11	1	1.8	4.0	ND		mg/Kg	406345	3403
Pentacosane (S)	SW8015B(M)	8/16/11	08/19/11	1	61.5	133	88.7		%	406345	3403

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-3-5.0	**Lab Sample ID:**	1108085-011A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 9:50		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
TPH as Diesel (SG)	SW8015B(M)	8/16/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406345	3403
TPH as Motor Oil (SG)	SW8015B(M)	8/16/11	08/19/11	1	1.8	4.0	ND		mg/Kg	406345	3403
Pentacosane (S)	SW8015B(M)	8/16/11	08/19/11	1	61.5	133	78.0		%	406345	3403

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-4-1.0	**Lab Sample ID:**	1108085-012A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 9:55		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406288	3405
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	ND		mg/Kg	406288	3405
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	31		mg/Kg	406288	3405
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406288	3405
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	ND		mg/Kg	406288	3405
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	27		mg/Kg	406288	3405
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	ND		mg/Kg	406288	3405
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	ND		mg/Kg	406288	3405
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	2.2		mg/Kg	406288	3405
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406288	3405
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	18		mg/Kg	406288	3405
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406288	3405
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406288	3405
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406288	3405
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	19		mg/Kg	406288	3405
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	12		mg/Kg	406288	3405

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/16/11	08/17/11	1	0.01	0.10	ND		mg/Kg	406292	3410

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/16/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406345	3403
TPH as Motor Oil (SG)	SW8015B(M)	8/16/11	08/19/11	1	1.8	4.0	ND		mg/Kg	406345	3403
Pentacosane (S)	SW8015B(M)	8/16/11	08/19/11	1	61.5	133	95.6		%	406345	3403

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-4-3.0	**Lab Sample ID:**	1108085-013A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:00		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	ND		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	ND		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	42		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	ND		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	23		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	ND		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	5.7		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	1.4		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	15		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	ND		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	18		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	10		mg/Kg	406377	3460

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	ND		mg/Kg	406366	3453

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/18/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406342	3429
TPH as Motor Oil (SG)	SW8015B(M)	8/18/11	08/19/11	1	1.8	4.0	4.8		mg/Kg	406342	3429
Pentacosane (S)	SW8015B(M)	8/18/11	08/19/11	1	61.5	133	127		%	406342	3429

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-4-5.0	**Lab Sample ID:**	1108085-014A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:05		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/18/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406342	3429
TPH as Motor Oil (SG)	SW8015B(M)	8/18/11	08/19/11	1	1.8	4.0	ND		mg/Kg	406342	3429
Pentacosane (S)	SW8015B(M)	8/18/11	08/19/11	1	61.5	133	68.4		%	406342	3429

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-5-1.0	**Lab Sample ID:**	1108085-015A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:10		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead (STLC)	SW6010B	8/24/11	08/25/11	1	0.0500	0.10	3.4		mg/L	406420	3488

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406312	3407
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	3.5		mg/Kg	406312	3407
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	100		mg/Kg	406312	3407
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406312	3407
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	ND		mg/Kg	406312	3407
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	39		mg/Kg	406312	3407
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	6.5		mg/Kg	406312	3407
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	40		mg/Kg	406312	3407
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	520		mg/Kg	406312	3407
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406312	3407
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	33		mg/Kg	406312	3407
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406312	3407
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406312	3407
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406312	3407
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	25		mg/Kg	406312	3407
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	190		mg/Kg	406312	3407

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/16/11	08/17/11	1	0.01	0.10	ND		mg/Kg	406292	3410

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/18/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406342	3429
TPH as Motor Oil (SG)	SW8015B(M)	8/18/11	08/19/11	1	1.8	4.0	28		mg/Kg	406342	3429
Pentacosane (S)	SW8015B(M)	8/18/11	08/19/11	1	61.5	133	100		%	406342	3429

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-5-3.0	**Lab Sample ID:**	1108085-016A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:15		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	ND		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	7.4		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	64		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	ND		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	53		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	11		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	150		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	180		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	56		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	ND		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	26		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	93		mg/Kg	406377	3460

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	0.24		mg/Kg	406366	3453

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/18/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406342	3429
TPH as Motor Oil (SG)	SW8015B(M)	8/18/11	08/19/11	1	1.8	4.0	6.9		mg/Kg	406342	3429
Pentacosane (S)	SW8015B(M)	8/18/11	08/19/11	1	61.5	133	107		%	406342	3429

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-5-5.0	**Lab Sample ID:**	1108085-017A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:20		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/18/11	08/19/11	1	0.76	2.0	ND		mg/Kg	406342	3429
TPH as Motor Oil (SG)	SW8015B(M)	8/18/11	08/19/11	1	1.8	4.0	ND		mg/Kg	406342	3429
Pentacosane (S)	SW8015B(M)	8/18/11	08/19/11	1	61.5	133	73.9		%	406342	3429

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-6-1.0	**Lab Sample ID:**	1108085-018A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:25		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead (STLC)	SW6010B	8/24/11	08/25/11	1	0.0500	0.10	5.2		mg/L	406420	3488

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406312	3407
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	2.8		mg/Kg	406312	3407
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	96		mg/Kg	406312	3407
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406312	3407
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	ND		mg/Kg	406312	3407
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	23		mg/Kg	406312	3407
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	ND		mg/Kg	406312	3407
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	22		mg/Kg	406312	3407
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	180		mg/Kg	406312	3407
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406312	3407
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	18		mg/Kg	406312	3407
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406312	3407
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406312	3407
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406312	3407
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	20		mg/Kg	406312	3407
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	49		mg/Kg	406312	3407

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/16/11	08/17/11	1	0.01	0.10	ND		mg/Kg	406292	3410

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-6-1.0	**Lab Sample ID:**	1108085-018A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:25		
Tag Number:	800 Cedar St		

The results shown below are reported using their MDL.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/15/11	08/16/11	10	100	99.0	ND		mg/Kg	406316	3385
N-Nitrosdimethylamine	SW8270C	8/15/11	08/16/11	10	16.7	50.0	ND		mg/Kg	406316	3385
Aniline	SW8270C	8/15/11	08/16/11	10	18.6	50.0	ND		mg/Kg	406316	3385
Phenol	SW8270C	8/15/11	08/16/11	10	19.5	50.0	ND		mg/Kg	406316	3385
Bis(2-chloroethyl) ether	SW8270C	8/15/11	08/16/11	10	10.4	50.0	ND		mg/Kg	406316	3385
2-Chlorophenol	SW8270C	8/15/11	08/16/11	10	19.5	50.0	ND		mg/Kg	406316	3385
1,3-Dichlorobenzene	SW8270C	8/15/11	08/16/11	10	11.1	50.0	ND		mg/Kg	406316	3385
1,4-Dichlorobenzene	SW8270C	8/15/11	08/16/11	10	10.1	999	ND		mg/Kg	406316	3385
Benzyl Alcohol	SW8270C	8/15/11	08/16/11	10	15.8	50.0	ND		mg/Kg	406316	3385
1,2-Dichlorobenzene	SW8270C	8/15/11	08/16/11	10	10.8	50.0	ND		mg/Kg	406316	3385
2-Methylphenol (o-Cresol)	SW8270C	8/15/11	08/16/11	10	17.6	50.0	ND		mg/Kg	406316	3385
Bis(2-chloroisopropyl)ether	SW8270C	8/15/11	08/16/11	10	10.4	50.0	ND		mg/Kg	406316	3385
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/15/11	08/16/11	10	21.0	50.0	ND		mg/Kg	406316	3385
N-nitroso-di-n-propylamine	SW8270C	8/15/11	08/16/11	10	14.1	50.0	ND		mg/Kg	406316	3385
Hexachloroethane	SW8270C	8/15/11	08/16/11	10	7.05	50.0	ND		mg/Kg	406316	3385
Nitrobenzene	SW8270C	8/15/11	08/16/11	10	8.00	50.0	ND		mg/Kg	406316	3385
Isophorone	SW8270C	8/15/11	08/16/11	10	8.70	99.0	ND		mg/Kg	406316	3385
2-Nitrophenol	SW8270C	8/15/11	08/16/11	10	7.95	99.0	ND		mg/Kg	406316	3385
2,4-Dimethylphenol	SW8270C	8/15/11	08/16/11	10	20.1	999	ND		mg/Kg	406316	3385
Benzoic Acid	SW8270C	8/15/11	08/16/11	10	848	50.0	ND		mg/Kg	406316	3385
Bis(2-Chloroethoxy)methane	SW8270C	8/15/11	08/16/11	10	8.85	50.0	ND		mg/Kg	406316	3385
2,4-Dichlorophenol	SW8270C	8/15/11	08/16/11	10	15.8	50.0	ND		mg/Kg	406316	3385
1,2,4-Trichlorobenzene	SW8270C	8/15/11	08/16/11	10	11.1	50.0	ND		mg/Kg	406316	3385
2,6-Dichlorophenol	SW8270C	8/15/11	08/16/11	10	15.8	50.0	ND		mg/Kg	406316	3385
Naphthalene	SW8270C	8/15/11	08/16/11	10	13.7	50.0	ND		mg/Kg	406316	3385
4-Chloroaniline	SW8270C	8/15/11	08/16/11	10	15.0	50.0	ND		mg/Kg	406316	3385
Hexachloro-1,3-butadiene	SW8270C	8/15/11	08/16/11	10	9.90	50.0	ND		mg/Kg	406316	3385
4-Chloro-3-methylphenol	SW8270C	8/15/11	08/16/11	10	15.5	50.0	ND		mg/Kg	406316	3385
2-Methylnaphthalene	SW8270C	8/15/11	08/16/11	10	12.0	50.0	ND		mg/Kg	406316	3385
1-Methylnaphthalene	SW8270C	8/15/11	08/16/11	10	12.0	50.0	ND		mg/Kg	406316	3385
Hexachlorocyclopentadiene	SW8270C	8/15/11	08/16/11	10	4.20	50.0	ND		mg/Kg	406316	3385
2,4,6-Trichlorophenol	SW8270C	8/15/11	08/16/11	10	14.4	50.0	ND		mg/Kg	406316	3385
2,4,5-Trichlorophenol	SW8270C	8/15/11	08/16/11	10	18.3	50.0	ND		mg/Kg	406316	3385
2-Chloronaphthalene	SW8270C	8/15/11	08/16/11	10	9.00	495	ND		mg/Kg	406316	3385
2-Nitroaniline	SW8270C	8/15/11	08/16/11	10	10.5	50.0	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-6-1.0	**Lab Sample ID:**	1108085-018A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:25		
Tag Number:	800 Cedar St		

The results shown below are reported using their MDL.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dimethyl phthalate	SW8270C	8/15/11	08/16/11	10	17.9	50.0	ND		mg/Kg	406316	3385
1,3-Dinitrobenzene	SW8270C	8/15/11	08/16/11	10	16.0	50.0	ND		mg/Kg	406316	3385
Acenaphthylene	SW8270C	8/15/11	08/16/11	10	12.9	50.0	ND		mg/Kg	406316	3385
2,6-Dinitrotoluene	SW8270C	8/15/11	08/16/11	10	4.05	50.0	ND		mg/Kg	406316	3385
1,2-Dinitrobenzene	SW8270C	8/15/11	08/16/11	10	13.0	50.0	ND		mg/Kg	406316	3385
3-Nitroaniline	SW8270C	8/15/11	08/16/11	10	10.5	50.0	ND		mg/Kg	406316	3385
Acenaphthene	SW8270C	8/15/11	08/16/11	10	14.6	50.0	ND		mg/Kg	406316	3385
2,4-Dinitrophenol	SW8270C	8/15/11	08/16/11	10	4.50	495	ND		mg/Kg	406316	3385
4-Nitrophenol	SW8270C	8/15/11	08/16/11	10	10.1	50.0	ND		mg/Kg	406316	3385
Dibenzofuran	SW8270C	8/15/11	08/16/11	10	11.9	50.0	ND		mg/Kg	406316	3385
2,4-Dinitrotoluene	SW8270C	8/15/11	08/16/11	10	4.05	50.0	ND		mg/Kg	406316	3385
2,3,5,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	10	18.0	50.0	ND		mg/Kg	406316	3385
2,3,4,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	10	18.0	50.0	ND		mg/Kg	406316	3385
Diethylphthalate	SW8270C	8/15/11	08/16/11	10	17.7	50.0	ND		mg/Kg	406316	3385
Fluorene	SW8270C	8/15/11	08/16/11	10	15.0	50.0	ND		mg/Kg	406316	3385
4-Chlorophenyl phenyl ether	SW8270C	8/15/11	08/16/11	10	12.2	50.0	ND		mg/Kg	406316	3385
4-Nitroaniline	SW8270C	8/15/11	08/16/11	10	12.2	50.0	ND		mg/Kg	406316	3385
4,6-Dinitro-2-methylphenol	SW8270C	8/15/11	08/16/11	10	10.1	50.0	ND		mg/Kg	406316	3385
Diphenylamine	SW8270C	8/15/11	08/16/11	10	10.1	50.0	ND		mg/Kg	406316	3385
Azobenzene	SW8270C	8/15/11	08/16/11	10	16.5	50.0	ND		mg/Kg	406316	3385
4-Bromophenyl phenyl ether	SW8270C	8/15/11	08/16/11	10	12.3	495	ND		mg/Kg	406316	3385
Hexachlorobenzene	SW8270C	8/15/11	08/16/11	10	15.3	50.0	ND		mg/Kg	406316	3385
Pentachlorophenol	SW8270C	8/15/11	08/16/11	10	15.5	495	ND		mg/Kg	406316	3385
Phenanthrene	SW8270C	8/15/11	08/16/11	10	21.5	50.0	ND		mg/Kg	406316	3385
Anthracene	SW8270C	8/15/11	08/16/11	10	20.1	50.0	ND	J	mg/Kg	406316	3385
Carbazole	SW8270C	8/15/11	08/16/11	10	20.1	50.0	ND		mg/Kg	406316	3385
Di-n-butylphthalate	SW8270C	8/15/11	08/16/11	10	16.4	255	ND		mg/Kg	406316	3385
Fluoranthene	SW8270C	8/15/11	08/16/11	10	20.1	99.0	21	J	mg/Kg	406316	3385
Benzidine	SW8270C	8/15/11	08/16/11	10	56.7	495	ND		mg/Kg	406316	3385
Pyrene	SW8270C	8/15/11	08/16/11	10	22.3	50.0	25	J	mg/Kg	406316	3385
Benzyl butyl phthalate	SW8270C	8/15/11	08/16/11	10	13.5	50.0	ND		mg/Kg	406316	3385
Benz[a]anthracene	SW8270C	8/15/11	08/16/11	10	22.7	50.0	ND		mg/Kg	406316	3385
3,3'-Dichlorobenzidine	SW8270C	8/15/11	08/16/11	10	23.1	50.0	ND		mg/Kg	406316	3385
Chrysene	SW8270C	8/15/11	08/16/11	10	26.7	50.0	ND		mg/Kg	406316	3385
Bis(2-Ethylhexyl)phthalate	SW8270C	8/15/11	08/16/11	10	12.6	50.0	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-6-1.0	**Lab Sample ID:**	1108085-018A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:25		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.											
Di-n-octyl phthalate	SW8270C	8/15/11	08/16/11	10	20.9	50.0	ND		mg/Kg	406316	3385
Benzo[b]fluoranthene	SW8270C	8/15/11	08/16/11	10	20.1	50.0	ND		mg/Kg	406316	3385
Benzo[k]fluoranthene	SW8270C	8/15/11	08/16/11	10	25.7	50.0	ND		mg/Kg	406316	3385
Benzo[a]pyrene	SW8270C	8/15/11	08/16/11	10	20.4	50.0	ND		mg/Kg	406316	3385
Indeno[1,2,3-cd]pyrene	SW8270C	8/15/11	08/16/11	10	19.8	50.0	ND		mg/Kg	406316	3385
Dibenz[a,h]anthracene	SW8270C	8/15/11	08/16/11	10	23.0	50.0	ND		mg/Kg	406316	3385
Benzo[g,h,i]perylene	SW8270C	8/15/11	08/16/11	10	22.8	50.0	ND		mg/Kg	406316	3385
1,4-Dinitrobenzene	SW8270C	8/15/11	08/16/11	10	22.8	50.0	ND		mg/Kg	406316	3385
2,4,6-Tribromophenol (S)	SW8270C	8/15/11	08/16/11	10	19	122	0.000	S,D	%	406316	3385
2-Fluorobiphenyl (S)	SW8270C	8/15/11	08/16/11	10	30	115	0.000	S,D	%	406316	3385
2-Fluorophenol (S)	SW8270C	8/15/11	08/16/11	10	25	121	0.000	S,D	%	406316	3385
Nitrobenzene-d5 (S)	SW8270C	8/15/11	08/16/11	10	23	120	0.000	S,D	%	406316	3385
Phenol-d6 (S)	SW8270C	8/15/11	08/16/11	10	24	113	0.000	S,D	%	406316	3385
p-Terphenyl-d14 (S)	SW8270C	8/15/11	08/16/11	10	18	137	0.000	S,D	%	406316	3385

NOTE: D - Surrogates not recoverable due to dilution of the sample. Reporting limits increased due to the nature of the sample matrix (viscous and dark color extract).

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-6-3.0	**Lab Sample ID:**	1108085-019A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:30		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	ND		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	ND		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	49		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	ND		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	26		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	5.4		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	6.4		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	2.1		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	17		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	ND		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	20		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	12		mg/Kg	406377	3460

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	ND		mg/Kg	406366	3453

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-6-3.0	**Lab Sample ID:**	1108085-019A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:30		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/15/11	08/16/11	1	0.660	0.653	ND		mg/Kg	406316	3385
N-Nitrosdimethylamine	SW8270C	8/15/11	08/16/11	1	0.110	0.330	ND		mg/Kg	406316	3385
Aniline	SW8270C	8/15/11	08/16/11	1	0.123	0.330	ND		mg/Kg	406316	3385
Phenol	SW8270C	8/15/11	08/16/11	1	0.129	0.330	ND		mg/Kg	406316	3385
Bis(2-chloroethyl) ether	SW8270C	8/15/11	08/16/11	1	0.0683	0.330	ND		mg/Kg	406316	3385
2-Chlorophenol	SW8270C	8/15/11	08/16/11	1	0.129	0.330	ND		mg/Kg	406316	3385
1,3-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0733	0.330	ND		mg/Kg	406316	3385
1,4-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0663	6.59	ND		mg/Kg	406316	3385
Benzyl Alcohol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
1,2-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0713	0.330	ND		mg/Kg	406316	3385
2-Methylphenol (o-Cresol)	SW8270C	8/15/11	08/16/11	1	0.116	0.330	ND		mg/Kg	406316	3385
Bis(2-chloroisopropyl)ether	SW8270C	8/15/11	08/16/11	1	0.0683	0.330	ND		mg/Kg	406316	3385
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/15/11	08/16/11	1	0.139	0.330	ND		mg/Kg	406316	3385
N-nitroso-di-n-propylamine	SW8270C	8/15/11	08/16/11	1	0.0931	0.330	ND		mg/Kg	406316	3385
Hexachloroethane	SW8270C	8/15/11	08/16/11	1	0.0465	0.330	ND		mg/Kg	406316	3385
Nitrobenzene	SW8270C	8/15/11	08/16/11	1	0.0528	0.330	ND		mg/Kg	406316	3385
Isophorone	SW8270C	8/15/11	08/16/11	1	0.0574	0.653	ND		mg/Kg	406316	3385
2-Nitrophenol	SW8270C	8/15/11	08/16/11	1	0.0525	0.653	ND		mg/Kg	406316	3385
2,4-Dimethylphenol	SW8270C	8/15/11	08/16/11	1	0.133	6.59	ND		mg/Kg	406316	3385
Benzoic Acid	SW8270C	8/15/11	08/16/11	1	5.59	0.330	ND		mg/Kg	406316	3385
Bis(2-Chloroethoxy)methane	SW8270C	8/15/11	08/16/11	1	0.0584	0.330	ND		mg/Kg	406316	3385
2,4-Dichlorophenol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
1,2,4-Trichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0733	0.330	ND		mg/Kg	406316	3385
2,6-Dichlorophenol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
Naphthalene	SW8270C	8/15/11	08/16/11	1	0.0901	0.330	ND		mg/Kg	406316	3385
4-Chloroaniline	SW8270C	8/15/11	08/16/11	1	0.0990	0.330	ND		mg/Kg	406316	3385
Hexachloro-1,3-butadiene	SW8270C	8/15/11	08/16/11	1	0.0653	0.330	ND		mg/Kg	406316	3385
4-Chloro-3-methylphenol	SW8270C	8/15/11	08/16/11	1	0.102	0.330	ND		mg/Kg	406316	3385
2-Methylnaphthalene	SW8270C	8/15/11	08/16/11	1	0.0792	0.330	ND		mg/Kg	406316	3385
1-Methylnaphthalene	SW8270C	8/15/11	08/16/11	1	0.0792	0.330	ND		mg/Kg	406316	3385
Hexachlorocyclopentadiene	SW8270C	8/15/11	08/16/11	1	0.0277	0.330	ND		mg/Kg	406316	3385
2,4,6-Trichlorophenol	SW8270C	8/15/11	08/16/11	1	0.0950	0.330	ND		mg/Kg	406316	3385
2,4,5-Trichlorophenol	SW8270C	8/15/11	08/16/11	1	0.121	0.330	ND		mg/Kg	406316	3385
2-Chloronaphthalene	SW8270C	8/15/11	08/16/11	1	0.0594	3.27	ND		mg/Kg	406316	3385
2-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0693	0.330	ND		mg/Kg	406316	3385
Dimethyl phthalate	SW8270C	8/15/11	08/16/11	1	0.118	0.330	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-6-3.0	**Lab Sample ID:**	1108085-019A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:30		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.106	0.330	ND		mg/Kg	406316	3385
Acenaphthylene	SW8270C	8/15/11	08/16/11	1	0.0851	0.330	ND		mg/Kg	406316	3385
2,6-Dinitrotoluene	SW8270C	8/15/11	08/16/11	1	0.0267	0.330	ND		mg/Kg	406316	3385
1,2-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.0858	0.330	ND		mg/Kg	406316	3385
3-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0693	0.330	ND		mg/Kg	406316	3385
Acenaphthene	SW8270C	8/15/11	08/16/11	1	0.0960	0.330	ND		mg/Kg	406316	3385
2,4-Dinitrophenol	SW8270C	8/15/11	08/16/11	1	0.0297	3.27	ND		mg/Kg	406316	3385
4-Nitrophenol	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Dibenzofuran	SW8270C	8/15/11	08/16/11	1	0.0782	0.330	ND		mg/Kg	406316	3385
2,4-Dinitrotoluene	SW8270C	8/15/11	08/16/11	1	0.0267	0.330	ND		mg/Kg	406316	3385
2,3,5,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	1	0.119	0.330	ND		mg/Kg	406316	3385
2,3,4,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	1	0.119	0.330	ND		mg/Kg	406316	3385
Diethylphthalate	SW8270C	8/15/11	08/16/11	1	0.117	0.330	ND		mg/Kg	406316	3385
Fluorene	SW8270C	8/15/11	08/16/11	1	0.0990	0.330	ND		mg/Kg	406316	3385
4-Chlorophenyl phenyl ether	SW8270C	8/15/11	08/16/11	1	0.0802	0.330	ND		mg/Kg	406316	3385
4-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0802	0.330	ND		mg/Kg	406316	3385
4,6-Dinitro-2-methylphenol	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Diphenylamine	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Azobenzene	SW8270C	8/15/11	08/16/11	1	0.109	0.330	ND		mg/Kg	406316	3385
4-Bromophenyl phenyl ether	SW8270C	8/15/11	08/16/11	1	0.0812	3.27	ND		mg/Kg	406316	3385
Hexachlorobenzene	SW8270C	8/15/11	08/16/11	1	0.101	0.330	ND		mg/Kg	406316	3385
Pentachlorophenol	SW8270C	8/15/11	08/16/11	1	0.102	3.27	ND		mg/Kg	406316	3385
Phenanthrene	SW8270C	8/15/11	08/16/11	1	0.142	0.330	ND		mg/Kg	406316	3385
Anthracene	SW8270C	8/15/11	08/16/11	1	0.132	0.330	ND		mg/Kg	406316	3385
Carbazole	SW8270C	8/15/11	08/16/11	1	0.132	0.330	ND		mg/Kg	406316	3385
Di-n-butylphthalate	SW8270C	8/15/11	08/16/11	1	0.108	1.68	ND		mg/Kg	406316	3385
Fluoranthene	SW8270C	8/15/11	08/16/11	1	0.132	0.653	ND		mg/Kg	406316	3385
Benzidine	SW8270C	8/15/11	08/16/11	1	0.374	3.27	ND		mg/Kg	406316	3385
Pyrene	SW8270C	8/15/11	08/16/11	1	0.147	0.330	ND		mg/Kg	406316	3385
Benzyl butyl phthalate	SW8270C	8/15/11	08/16/11	1	0.0891	0.330	ND		mg/Kg	406316	3385
Benz[a]anthracene	SW8270C	8/15/11	08/16/11	1	0.149	0.330	ND		mg/Kg	406316	3385
3,3'-Dichlorobenzidine	SW8270C	8/15/11	08/16/11	1	0.152	0.330	ND		mg/Kg	406316	3385
Chrysene	SW8270C	8/15/11	08/16/11	1	0.176	0.330	ND		mg/Kg	406316	3385
Bis(2-Ethylhexyl)phthalate	SW8270C	8/15/11	08/16/11	1	0.0832	0.330	ND		mg/Kg	406316	3385
Di-n-octyl phthalate	SW8270C	8/15/11	08/16/11	1	0.138	0.330	ND		mg/Kg	406316	3385
Benzo[b]fluoranthene	SW8270C	8/15/11	08/16/11	1	0.133	0.330	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-6-3.0	**Lab Sample ID:**	1108085-019A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:30		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/15/11	08/16/11	1	0.169	0.330	ND		mg/Kg	406316	3385
Benzo[a]pyrene	SW8270C	8/15/11	08/16/11	1	0.135	0.330	ND		mg/Kg	406316	3385
Indeno[1,2,3-cd]pyrene	SW8270C	8/15/11	08/16/11	1	0.131	0.330	ND		mg/Kg	406316	3385
Dibenz[a,h]anthracene	SW8270C	8/15/11	08/16/11	1	0.151	0.330	ND		mg/Kg	406316	3385
Benzo[g,h,i]perylene	SW8270C	8/15/11	08/16/11	1	0.150	0.330	ND		mg/Kg	406316	3385
1,4-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.150	0.330	ND		mg/Kg	406316	3385
2,4,6-Tribromophenol (S)	SW8270C	8/15/11	08/16/11	1	19	122	48.3		%	406316	3385
2-Fluorobiphenyl (S)	SW8270C	8/15/11	08/16/11	1	30	115	67.5		%	406316	3385
2-Fluorophenol (S)	SW8270C	8/15/11	08/16/11	1	25	121	70.6		%	406316	3385
Nitrobenzene-d5 (S)	SW8270C	8/15/11	08/16/11	1	23	120	69.2		%	406316	3385
Phenol-d6 (S)	SW8270C	8/15/11	08/16/11	1	24	113	75.1		%	406316	3385
p-Terphenyl-d14 (S)	SW8270C	8/15/11	08/16/11	1	18	137	102		%	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-6-5.0	**Lab Sample ID:**	1108085-020A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:35		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/15/11	08/16/11	1	0.660	0.653	ND		mg/Kg	406316	3385
N-Nitrosdimethylamine	SW8270C	8/15/11	08/16/11	1	0.110	0.330	ND		mg/Kg	406316	3385
Aniline	SW8270C	8/15/11	08/16/11	1	0.123	0.330	ND		mg/Kg	406316	3385
Phenol	SW8270C	8/15/11	08/16/11	1	0.129	0.330	ND		mg/Kg	406316	3385
Bis(2-chloroethyl) ether	SW8270C	8/15/11	08/16/11	1	0.0683	0.330	ND		mg/Kg	406316	3385
2-Chlorophenol	SW8270C	8/15/11	08/16/11	1	0.129	0.330	ND		mg/Kg	406316	3385
1,3-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0733	0.330	ND		mg/Kg	406316	3385
1,4-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0663	6.59	ND		mg/Kg	406316	3385
Benzyl Alcohol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
1,2-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0713	0.330	ND		mg/Kg	406316	3385
2-Methylphenol (o-Cresol)	SW8270C	8/15/11	08/16/11	1	0.116	0.330	ND		mg/Kg	406316	3385
Bis(2-chloroisopropyl)ether	SW8270C	8/15/11	08/16/11	1	0.0683	0.330	ND		mg/Kg	406316	3385
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/15/11	08/16/11	1	0.139	0.330	ND		mg/Kg	406316	3385
N-nitroso-di-n-propylamine	SW8270C	8/15/11	08/16/11	1	0.0931	0.330	ND		mg/Kg	406316	3385
Hexachloroethane	SW8270C	8/15/11	08/16/11	1	0.0465	0.330	ND		mg/Kg	406316	3385
Nitrobenzene	SW8270C	8/15/11	08/16/11	1	0.0528	0.330	ND		mg/Kg	406316	3385
Isophorone	SW8270C	8/15/11	08/16/11	1	0.0574	0.653	ND		mg/Kg	406316	3385
2-Nitrophenol	SW8270C	8/15/11	08/16/11	1	0.0525	0.653	ND		mg/Kg	406316	3385
2,4-Dimethylphenol	SW8270C	8/15/11	08/16/11	1	0.133	6.59	ND		mg/Kg	406316	3385
Benzoic Acid	SW8270C	8/15/11	08/16/11	1	5.59	0.330	ND		mg/Kg	406316	3385
Bis(2-Chloroethoxy)methane	SW8270C	8/15/11	08/16/11	1	0.0584	0.330	ND		mg/Kg	406316	3385
2,4-Dichlorophenol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
1,2,4-Trichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0733	0.330	ND		mg/Kg	406316	3385
2,6-Dichlorophenol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
Naphthalene	SW8270C	8/15/11	08/16/11	1	0.0901	0.330	ND		mg/Kg	406316	3385
4-Chloroaniline	SW8270C	8/15/11	08/16/11	1	0.0990	0.330	ND		mg/Kg	406316	3385
Hexachloro-1,3-butadiene	SW8270C	8/15/11	08/16/11	1	0.0653	0.330	ND		mg/Kg	406316	3385
4-Chloro-3-methylphenol	SW8270C	8/15/11	08/16/11	1	0.102	0.330	ND		mg/Kg	406316	3385
2-Methylnaphthalene	SW8270C	8/15/11	08/16/11	1	0.0792	0.330	ND		mg/Kg	406316	3385
1-Methylnaphthalene	SW8270C	8/15/11	08/16/11	1	0.0792	0.330	ND		mg/Kg	406316	3385
Hexachlorocyclopentadiene	SW8270C	8/15/11	08/16/11	1	0.0277	0.330	ND		mg/Kg	406316	3385
2,4,6-Trichlorophenol	SW8270C	8/15/11	08/16/11	1	0.0950	0.330	ND		mg/Kg	406316	3385
2,4,5-Trichlorophenol	SW8270C	8/15/11	08/16/11	1	0.121	0.330	ND		mg/Kg	406316	3385
2-Chloronaphthalene	SW8270C	8/15/11	08/16/11	1	0.0594	3.27	ND		mg/Kg	406316	3385
2-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0693	0.330	ND		mg/Kg	406316	3385
Dimethyl phthalate	SW8270C	8/15/11	08/16/11	1	0.118	0.330	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-6-5.0	**Lab Sample ID:**	1108085-020A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:35		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.106	0.330	ND		mg/Kg	406316	3385
Acenaphthylene	SW8270C	8/15/11	08/16/11	1	0.0851	0.330	ND		mg/Kg	406316	3385
2,6-Dinitrotoluene	SW8270C	8/15/11	08/16/11	1	0.0267	0.330	ND		mg/Kg	406316	3385
1,2-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.0858	0.330	ND		mg/Kg	406316	3385
3-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0693	0.330	ND		mg/Kg	406316	3385
Acenaphthene	SW8270C	8/15/11	08/16/11	1	0.0960	0.330	ND		mg/Kg	406316	3385
2,4-Dinitrophenol	SW8270C	8/15/11	08/16/11	1	0.0297	3.27	ND		mg/Kg	406316	3385
4-Nitrophenol	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Dibenzofuran	SW8270C	8/15/11	08/16/11	1	0.0782	0.330	ND		mg/Kg	406316	3385
2,4-Dinitrotoluene	SW8270C	8/15/11	08/16/11	1	0.0267	0.330	ND		mg/Kg	406316	3385
2,3,5,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	1	0.119	0.330	ND		mg/Kg	406316	3385
2,3,4,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	1	0.119	0.330	ND		mg/Kg	406316	3385
Diethylphthalate	SW8270C	8/15/11	08/16/11	1	0.117	0.330	ND		mg/Kg	406316	3385
Fluorene	SW8270C	8/15/11	08/16/11	1	0.0990	0.330	ND		mg/Kg	406316	3385
4-Chlorophenyl phenyl ether	SW8270C	8/15/11	08/16/11	1	0.0802	0.330	ND		mg/Kg	406316	3385
4-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0802	0.330	ND		mg/Kg	406316	3385
4,6-Dinitro-2-methylphenol	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Diphenylamine	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Azobenzene	SW8270C	8/15/11	08/16/11	1	0.109	0.330	ND		mg/Kg	406316	3385
4-Bromophenyl phenyl ether	SW8270C	8/15/11	08/16/11	1	0.0812	3.27	ND		mg/Kg	406316	3385
Hexachlorobenzene	SW8270C	8/15/11	08/16/11	1	0.101	0.330	ND		mg/Kg	406316	3385
Pentachlorophenol	SW8270C	8/15/11	08/16/11	1	0.102	3.27	ND		mg/Kg	406316	3385
Phenanthrene	SW8270C	8/15/11	08/16/11	1	0.142	0.330	ND		mg/Kg	406316	3385
Anthracene	SW8270C	8/15/11	08/16/11	1	0.132	0.330	ND		mg/Kg	406316	3385
Carbazole	SW8270C	8/15/11	08/16/11	1	0.132	0.330	ND		mg/Kg	406316	3385
Di-n-butylphthalate	SW8270C	8/15/11	08/16/11	1	0.108	1.68	ND		mg/Kg	406316	3385
Fluoranthene	SW8270C	8/15/11	08/16/11	1	0.132	0.653	ND		mg/Kg	406316	3385
Benzidine	SW8270C	8/15/11	08/16/11	1	0.374	3.27	ND		mg/Kg	406316	3385
Pyrene	SW8270C	8/15/11	08/16/11	1	0.147	0.330	ND		mg/Kg	406316	3385
Benzyl butyl phthalate	SW8270C	8/15/11	08/16/11	1	0.0891	0.330	ND		mg/Kg	406316	3385
Benz[a]anthracene	SW8270C	8/15/11	08/16/11	1	0.149	0.330	ND		mg/Kg	406316	3385
3,3'-Dichlorobenzidine	SW8270C	8/15/11	08/16/11	1	0.152	0.330	ND		mg/Kg	406316	3385
Chrysene	SW8270C	8/15/11	08/16/11	1	0.176	0.330	ND		mg/Kg	406316	3385
Bis(2-Ethylhexyl)phthalate	SW8270C	8/15/11	08/16/11	1	0.0832	0.330	ND		mg/Kg	406316	3385
Di-n-octyl phthalate	SW8270C	8/15/11	08/16/11	1	0.138	0.330	ND		mg/Kg	406316	3385
Benzo[b]fluoranthene	SW8270C	8/15/11	08/16/11	1	0.133	0.330	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-6-5.0	**Lab Sample ID:**	1108085-020A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:35		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/15/11	08/16/11	1	0.169	0.330	ND		mg/Kg	406316	3385
Benzo[a]pyrene	SW8270C	8/15/11	08/16/11	1	0.135	0.330	ND		mg/Kg	406316	3385
Indeno[1,2,3-cd]pyrene	SW8270C	8/15/11	08/16/11	1	0.131	0.330	ND		mg/Kg	406316	3385
Dibenz[a,h]anthracene	SW8270C	8/15/11	08/16/11	1	0.151	0.330	ND		mg/Kg	406316	3385
Benzo[g,h,i]perylene	SW8270C	8/15/11	08/16/11	1	0.150	0.330	ND		mg/Kg	406316	3385
1,4-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.150	0.330	ND		mg/Kg	406316	3385
2,4,6-Tribromophenol (S)	SW8270C	8/15/11	08/16/11	1	19	122	30.9		%	406316	3385
2-Fluorobiphenyl (S)	SW8270C	8/15/11	08/16/11	1	30	115	58.3		%	406316	3385
2-Fluorophenol (S)	SW8270C	8/15/11	08/16/11	1	25	121	32.8		%	406316	3385
Nitrobenzene-d5 (S)	SW8270C	8/15/11	08/16/11	1	23	120	61.7		%	406316	3385
Phenol-d6 (S)	SW8270C	8/15/11	08/16/11	1	24	113	47.2		%	406316	3385
p-Terphenyl-d14 (S)	SW8270C	8/15/11	08/16/11	1	18	137	91.9		%	406316	3385

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-7-1.0	**Lab Sample ID:**	1108085-021A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:40		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406312	3407
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	ND		mg/Kg	406312	3407
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	53		mg/Kg	406312	3407
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406312	3407
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	ND		mg/Kg	406312	3407
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	26		mg/Kg	406312	3407
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	ND		mg/Kg	406312	3407
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	6.5		mg/Kg	406312	3407
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	5.8		mg/Kg	406312	3407
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406312	3407
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	19		mg/Kg	406312	3407
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406312	3407
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406312	3407
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406312	3407
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	19		mg/Kg	406312	3407
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	16		mg/Kg	406312	3407

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/16/11	08/17/11	1	0.01	0.10	ND		mg/Kg	406292	3410

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-7-1.0	**Lab Sample ID:**	1108085-021A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:40		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/15/11	08/16/11	1	0.660	0.653	ND		mg/Kg	406316	3385
N-Nitrosdimethylamine	SW8270C	8/15/11	08/16/11	1	0.110	0.330	ND		mg/Kg	406316	3385
Aniline	SW8270C	8/15/11	08/16/11	1	0.123	0.330	ND		mg/Kg	406316	3385
Phenol	SW8270C	8/15/11	08/16/11	1	0.129	0.330	ND		mg/Kg	406316	3385
Bis(2-chloroethyl) ether	SW8270C	8/15/11	08/16/11	1	0.0683	0.330	ND		mg/Kg	406316	3385
2-Chlorophenol	SW8270C	8/15/11	08/16/11	1	0.129	0.330	ND		mg/Kg	406316	3385
1,3-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0733	0.330	ND		mg/Kg	406316	3385
1,4-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0663	6.59	ND		mg/Kg	406316	3385
Benzyl Alcohol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
1,2-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0713	0.330	ND		mg/Kg	406316	3385
2-Methylphenol (o-Cresol)	SW8270C	8/15/11	08/16/11	1	0.116	0.330	ND		mg/Kg	406316	3385
Bis(2-chloroisopropyl)ether	SW8270C	8/15/11	08/16/11	1	0.0683	0.330	ND		mg/Kg	406316	3385
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/15/11	08/16/11	1	0.139	0.330	ND		mg/Kg	406316	3385
N-nitroso-di-n-propylamine	SW8270C	8/15/11	08/16/11	1	0.0931	0.330	ND		mg/Kg	406316	3385
Hexachloroethane	SW8270C	8/15/11	08/16/11	1	0.0465	0.330	ND		mg/Kg	406316	3385
Nitrobenzene	SW8270C	8/15/11	08/16/11	1	0.0528	0.330	ND		mg/Kg	406316	3385
Isophorone	SW8270C	8/15/11	08/16/11	1	0.0574	0.653	ND		mg/Kg	406316	3385
2-Nitrophenol	SW8270C	8/15/11	08/16/11	1	0.0525	0.653	ND		mg/Kg	406316	3385
2,4-Dimethylphenol	SW8270C	8/15/11	08/16/11	1	0.133	6.59	ND		mg/Kg	406316	3385
Benzoic Acid	SW8270C	8/15/11	08/16/11	1	5.59	0.330	ND		mg/Kg	406316	3385
Bis(2-Chloroethoxy)methane	SW8270C	8/15/11	08/16/11	1	0.0584	0.330	ND		mg/Kg	406316	3385
2,4-Dichlorophenol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
1,2,4-Trichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0733	0.330	ND		mg/Kg	406316	3385
2,6-Dichlorophenol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
Naphthalene	SW8270C	8/15/11	08/16/11	1	0.0901	0.330	ND		mg/Kg	406316	3385
4-Chloroaniline	SW8270C	8/15/11	08/16/11	1	0.0990	0.330	ND		mg/Kg	406316	3385
Hexachloro-1,3-butadiene	SW8270C	8/15/11	08/16/11	1	0.0653	0.330	ND		mg/Kg	406316	3385
4-Chloro-3-methylphenol	SW8270C	8/15/11	08/16/11	1	0.102	0.330	ND		mg/Kg	406316	3385
2-Methylnaphthalene	SW8270C	8/15/11	08/16/11	1	0.0792	0.330	ND		mg/Kg	406316	3385
1-Methylnaphthalene	SW8270C	8/15/11	08/16/11	1	0.0792	0.330	ND		mg/Kg	406316	3385
Hexachlorocyclopentadiene	SW8270C	8/15/11	08/16/11	1	0.0277	0.330	ND		mg/Kg	406316	3385
2,4,6-Trichlorophenol	SW8270C	8/15/11	08/16/11	1	0.0950	0.330	ND		mg/Kg	406316	3385
2,4,5-Trichlorophenol	SW8270C	8/15/11	08/16/11	1	0.121	0.330	ND		mg/Kg	406316	3385
2-Chloronaphthalene	SW8270C	8/15/11	08/16/11	1	0.0594	3.27	ND		mg/Kg	406316	3385
2-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0693	0.330	ND		mg/Kg	406316	3385
Dimethyl phthalate	SW8270C	8/15/11	08/16/11	1	0.118	0.330	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-7-1.0	**Lab Sample ID:**	1108085-021A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:40		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.106	0.330	ND		mg/Kg	406316	3385
Acenaphthylene	SW8270C	8/15/11	08/16/11	1	0.0851	0.330	ND		mg/Kg	406316	3385
2,6-Dinitrotoluene	SW8270C	8/15/11	08/16/11	1	0.0267	0.330	ND		mg/Kg	406316	3385
1,2-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.0858	0.330	ND		mg/Kg	406316	3385
3-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0693	0.330	ND		mg/Kg	406316	3385
Acenaphthene	SW8270C	8/15/11	08/16/11	1	0.0960	0.330	ND		mg/Kg	406316	3385
2,4-Dinitrophenol	SW8270C	8/15/11	08/16/11	1	0.0297	3.27	ND		mg/Kg	406316	3385
4-Nitrophenol	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Dibenzofuran	SW8270C	8/15/11	08/16/11	1	0.0782	0.330	ND		mg/Kg	406316	3385
2,4-Dinitrotoluene	SW8270C	8/15/11	08/16/11	1	0.0267	0.330	ND		mg/Kg	406316	3385
2,3,5,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	1	0.119	0.330	ND		mg/Kg	406316	3385
2,3,4,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	1	0.119	0.330	ND		mg/Kg	406316	3385
Diethylphthalate	SW8270C	8/15/11	08/16/11	1	0.117	0.330	ND		mg/Kg	406316	3385
Fluorene	SW8270C	8/15/11	08/16/11	1	0.0990	0.330	ND		mg/Kg	406316	3385
4-Chlorophenyl phenyl ether	SW8270C	8/15/11	08/16/11	1	0.0802	0.330	ND		mg/Kg	406316	3385
4-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0802	0.330	ND		mg/Kg	406316	3385
4,6-Dinitro-2-methylphenol	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Diphenylamine	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Azobenzene	SW8270C	8/15/11	08/16/11	1	0.109	0.330	ND		mg/Kg	406316	3385
4-Bromophenyl phenyl ether	SW8270C	8/15/11	08/16/11	1	0.0812	3.27	ND		mg/Kg	406316	3385
Hexachlorobenzene	SW8270C	8/15/11	08/16/11	1	0.101	0.330	ND		mg/Kg	406316	3385
Pentachlorophenol	SW8270C	8/15/11	08/16/11	1	0.102	3.27	ND		mg/Kg	406316	3385
Phenanthrene	SW8270C	8/15/11	08/16/11	1	0.142	0.330	ND		mg/Kg	406316	3385
Anthracene	SW8270C	8/15/11	08/16/11	1	0.132	0.330	ND		mg/Kg	406316	3385
Carbazole	SW8270C	8/15/11	08/16/11	1	0.132	0.330	ND		mg/Kg	406316	3385
Di-n-butylphthalate	SW8270C	8/15/11	08/16/11	1	0.108	1.68	ND		mg/Kg	406316	3385
Fluoranthene	SW8270C	8/15/11	08/16/11	1	0.132	0.653	ND		mg/Kg	406316	3385
Benzidine	SW8270C	8/15/11	08/16/11	1	0.374	3.27	ND		mg/Kg	406316	3385
Pyrene	SW8270C	8/15/11	08/16/11	1	0.147	0.330	ND		mg/Kg	406316	3385
Benzyl butyl phthalate	SW8270C	8/15/11	08/16/11	1	0.0891	0.330	ND		mg/Kg	406316	3385
Benz[a]anthracene	SW8270C	8/15/11	08/16/11	1	0.149	0.330	ND		mg/Kg	406316	3385
3,3'-Dichlorobenzidine	SW8270C	8/15/11	08/16/11	1	0.152	0.330	ND		mg/Kg	406316	3385
Chrysene	SW8270C	8/15/11	08/16/11	1	0.176	0.330	ND		mg/Kg	406316	3385
Bis(2-Ethylhexyl)phthalate	SW8270C	8/15/11	08/16/11	1	0.0832	0.330	ND		mg/Kg	406316	3385
Di-n-octyl phthalate	SW8270C	8/15/11	08/16/11	1	0.138	0.330	ND		mg/Kg	406316	3385
Benzo[b]fluoranthene	SW8270C	8/15/11	08/16/11	1	0.133	0.330	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-7-1.0	**Lab Sample ID:**	1108085-021A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:40		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/15/11	08/16/11	1	0.169	0.330	ND		mg/Kg	406316	3385
Benzo[a]pyrene	SW8270C	8/15/11	08/16/11	1	0.135	0.330	ND		mg/Kg	406316	3385
Indeno[1,2,3-cd]pyrene	SW8270C	8/15/11	08/16/11	1	0.131	0.330	ND		mg/Kg	406316	3385
Dibenz[a,h]anthracene	SW8270C	8/15/11	08/16/11	1	0.151	0.330	ND		mg/Kg	406316	3385
Benzo[g,h,i]perylene	SW8270C	8/15/11	08/16/11	1	0.150	0.330	ND		mg/Kg	406316	3385
1,4-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.150	0.330	ND		mg/Kg	406316	3385
2,4,6-Tribromophenol (S)	SW8270C	8/15/11	08/16/11	1	19	122	47.4		%	406316	3385
2-Fluorobiphenyl (S)	SW8270C	8/15/11	08/16/11	1	30	115	59.3		%	406316	3385
2-Fluorophenol (S)	SW8270C	8/15/11	08/16/11	1	25	121	68.2		%	406316	3385
Nitrobenzene-d5 (S)	SW8270C	8/15/11	08/16/11	1	23	120	62.5		%	406316	3385
Phenol-d6 (S)	SW8270C	8/15/11	08/16/11	1	24	113	73.1		%	406316	3385
p-Terphenyl-d14 (S)	SW8270C	8/15/11	08/16/11	1	18	137	80.6		%	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-7-1.0 D	**Lab Sample ID:**	1108085-022A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:40		
Tag Number:	800 Cedar St		

The results shown below are reported using their MDL.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/15/11	08/16/11	10	100	99.0	ND		mg/Kg	406316	3385
N-Nitrosdimethylamine	SW8270C	8/15/11	08/16/11	10	16.7	50.0	ND		mg/Kg	406316	3385
Aniline	SW8270C	8/15/11	08/16/11	10	18.6	50.0	ND		mg/Kg	406316	3385
Phenol	SW8270C	8/15/11	08/16/11	10	19.5	50.0	ND		mg/Kg	406316	3385
Bis(2-chloroethyl) ether	SW8270C	8/15/11	08/16/11	10	10.4	50.0	ND		mg/Kg	406316	3385
2-Chlorophenol	SW8270C	8/15/11	08/16/11	10	19.5	50.0	ND		mg/Kg	406316	3385
1,3-Dichlorobenzene	SW8270C	8/15/11	08/16/11	10	11.1	50.0	ND		mg/Kg	406316	3385
1,4-Dichlorobenzene	SW8270C	8/15/11	08/16/11	10	10.1	999	ND		mg/Kg	406316	3385
Benzyl Alcohol	SW8270C	8/15/11	08/16/11	10	15.8	50.0	ND		mg/Kg	406316	3385
1,2-Dichlorobenzene	SW8270C	8/15/11	08/16/11	10	10.8	50.0	ND		mg/Kg	406316	3385
2-Methylphenol (o-Cresol)	SW8270C	8/15/11	08/16/11	10	17.6	50.0	ND		mg/Kg	406316	3385
Bis(2-chloroisopropyl)ether	SW8270C	8/15/11	08/16/11	10	10.4	50.0	ND		mg/Kg	406316	3385
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/15/11	08/16/11	10	21.0	50.0	ND		mg/Kg	406316	3385
N-nitroso-di-n-propylamine	SW8270C	8/15/11	08/16/11	10	14.1	50.0	ND		mg/Kg	406316	3385
Hexachloroethane	SW8270C	8/15/11	08/16/11	10	7.05	50.0	ND		mg/Kg	406316	3385
Nitrobenzene	SW8270C	8/15/11	08/16/11	10	8.00	50.0	ND		mg/Kg	406316	3385
Isophorone	SW8270C	8/15/11	08/16/11	10	8.70	99.0	ND		mg/Kg	406316	3385
2-Nitrophenol	SW8270C	8/15/11	08/16/11	10	7.95	99.0	ND		mg/Kg	406316	3385
2,4-Dimethylphenol	SW8270C	8/15/11	08/16/11	10	20.1	999	ND		mg/Kg	406316	3385
Benzoic Acid	SW8270C	8/15/11	08/16/11	10	848	50.0	ND		mg/Kg	406316	3385
Bis(2-Chloroethoxy)methane	SW8270C	8/15/11	08/16/11	10	8.85	50.0	ND		mg/Kg	406316	3385
2,4-Dichlorophenol	SW8270C	8/15/11	08/16/11	10	15.8	50.0	ND		mg/Kg	406316	3385
1,2,4-Trichlorobenzene	SW8270C	8/15/11	08/16/11	10	11.1	50.0	ND		mg/Kg	406316	3385
2,6-Dichlorophenol	SW8270C	8/15/11	08/16/11	10	15.8	50.0	ND		mg/Kg	406316	3385
Naphthalene	SW8270C	8/15/11	08/16/11	10	13.7	50.0	ND		mg/Kg	406316	3385
4-Chloroaniline	SW8270C	8/15/11	08/16/11	10	15.0	50.0	ND		mg/Kg	406316	3385
Hexachloro-1,3-butadiene	SW8270C	8/15/11	08/16/11	10	9.90	50.0	ND		mg/Kg	406316	3385
4-Chloro-3-methylphenol	SW8270C	8/15/11	08/16/11	10	15.5	50.0	ND		mg/Kg	406316	3385
2-Methylnaphthalene	SW8270C	8/15/11	08/16/11	10	12.0	50.0	ND		mg/Kg	406316	3385
1-Methylnaphthalene	SW8270C	8/15/11	08/16/11	10	12.0	50.0	ND		mg/Kg	406316	3385
Hexachlorocyclopentadiene	SW8270C	8/15/11	08/16/11	10	4.20	50.0	ND		mg/Kg	406316	3385
2,4,6-Trichlorophenol	SW8270C	8/15/11	08/16/11	10	14.4	50.0	ND		mg/Kg	406316	3385
2,4,5-Trichlorophenol	SW8270C	8/15/11	08/16/11	10	18.3	50.0	ND		mg/Kg	406316	3385
2-Chloronaphthalene	SW8270C	8/15/11	08/16/11	10	9.00	495	ND		mg/Kg	406316	3385
2-Nitroaniline	SW8270C	8/15/11	08/16/11	10	10.5	50.0	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-7-1.0 D	**Lab Sample ID:**	1108085-022A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:40		
Tag Number:	800 Cedar St		

The results shown below are reported using their MDL.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dimethyl phthalate	SW8270C	8/15/11	08/16/11	10	17.9	50.0	ND		mg/Kg	406316	3385
1,3-Dinitrobenzene	SW8270C	8/15/11	08/16/11	10	16.0	50.0	ND		mg/Kg	406316	3385
Acenaphthylene	SW8270C	8/15/11	08/16/11	10	12.9	50.0	ND		mg/Kg	406316	3385
2,6-Dinitrotoluene	SW8270C	8/15/11	08/16/11	10	4.05	50.0	ND		mg/Kg	406316	3385
1,2-Dinitrobenzene	SW8270C	8/15/11	08/16/11	10	13.0	50.0	ND		mg/Kg	406316	3385
3-Nitroaniline	SW8270C	8/15/11	08/16/11	10	10.5	50.0	ND		mg/Kg	406316	3385
Acenaphthene	SW8270C	8/15/11	08/16/11	10	14.6	50.0	ND		mg/Kg	406316	3385
2,4-Dinitrophenol	SW8270C	8/15/11	08/16/11	10	4.50	495	ND		mg/Kg	406316	3385
4-Nitrophenol	SW8270C	8/15/11	08/16/11	10	10.1	50.0	ND		mg/Kg	406316	3385
Dibenzofuran	SW8270C	8/15/11	08/16/11	10	11.9	50.0	ND		mg/Kg	406316	3385
2,4-Dinitrotoluene	SW8270C	8/15/11	08/16/11	10	4.05	50.0	ND		mg/Kg	406316	3385
2,3,5,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	10	18.0	50.0	ND		mg/Kg	406316	3385
2,3,4,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	10	18.0	50.0	ND		mg/Kg	406316	3385
Diethylphthalate	SW8270C	8/15/11	08/16/11	10	17.7	50.0	ND		mg/Kg	406316	3385
Fluorene	SW8270C	8/15/11	08/16/11	10	15.0	50.0	ND		mg/Kg	406316	3385
4-Chlorophenyl phenyl ether	SW8270C	8/15/11	08/16/11	10	12.2	50.0	ND		mg/Kg	406316	3385
4-Nitroaniline	SW8270C	8/15/11	08/16/11	10	12.2	50.0	ND		mg/Kg	406316	3385
4,6-Dinitro-2-methylphenol	SW8270C	8/15/11	08/16/11	10	10.1	50.0	ND		mg/Kg	406316	3385
Diphenylamine	SW8270C	8/15/11	08/16/11	10	10.1	50.0	ND		mg/Kg	406316	3385
Azobenzene	SW8270C	8/15/11	08/16/11	10	16.5	50.0	ND		mg/Kg	406316	3385
4-Bromophenyl phenyl ether	SW8270C	8/15/11	08/16/11	10	12.3	495	ND		mg/Kg	406316	3385
Hexachlorobenzene	SW8270C	8/15/11	08/16/11	10	15.3	50.0	ND		mg/Kg	406316	3385
Pentachlorophenol	SW8270C	8/15/11	08/16/11	10	15.5	495	ND		mg/Kg	406316	3385
Phenanthrene	SW8270C	8/15/11	08/16/11	10	21.5	50.0	ND		mg/Kg	406316	3385
Anthracene	SW8270C	8/15/11	08/16/11	10	20.1	50.0	ND		mg/Kg	406316	3385
Carbazole	SW8270C	8/15/11	08/16/11	10	20.1	50.0	ND		mg/Kg	406316	3385
Di-n-butylphthalate	SW8270C	8/15/11	08/16/11	10	16.4	255	ND		mg/Kg	406316	3385
Fluoranthene	SW8270C	8/15/11	08/16/11	10	20.1	99.0	ND		mg/Kg	406316	3385
Benzidine	SW8270C	8/15/11	08/16/11	10	56.7	495	ND		mg/Kg	406316	3385
Pyrene	SW8270C	8/15/11	08/16/11	10	22.3	50.0	ND		mg/Kg	406316	3385
Benzyl butyl phthalate	SW8270C	8/15/11	08/16/11	10	13.5	50.0	ND		mg/Kg	406316	3385
Benz[a]anthracene	SW8270C	8/15/11	08/16/11	10	22.7	50.0	ND		mg/Kg	406316	3385
3,3'-Dichlorobenzidine	SW8270C	8/15/11	08/16/11	10	23.1	50.0	ND		mg/Kg	406316	3385
Chrysene	SW8270C	8/15/11	08/16/11	10	26.7	50.0	ND		mg/Kg	406316	3385
Bis(2-Ethylhexyl)phthalate	SW8270C	8/15/11	08/16/11	10	12.6	50.0	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-7-1.0 D	**Lab Sample ID:**	1108085-022A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:40		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.											
Di-n-octyl phthalate	SW8270C	8/15/11	08/16/11	10	20.9	50.0	ND		mg/Kg	406316	3385
Benzo[b]fluoranthene	SW8270C	8/15/11	08/16/11	10	20.1	50.0	ND		mg/Kg	406316	3385
Benzo[k]fluoranthene	SW8270C	8/15/11	08/16/11	10	25.7	50.0	ND		mg/Kg	406316	3385
Benzo[a]pyrene	SW8270C	8/15/11	08/16/11	10	20.4	50.0	ND		mg/Kg	406316	3385
Indeno[1,2,3-cd]pyrene	SW8270C	8/15/11	08/16/11	10	19.8	50.0	ND		mg/Kg	406316	3385
Dibenz[a,h]anthracene	SW8270C	8/15/11	08/16/11	10	23.0	50.0	ND		mg/Kg	406316	3385
Benzo[g,h,i]perylene	SW8270C	8/15/11	08/16/11	10	22.8	50.0	ND		mg/Kg	406316	3385
1,4-Dinitrobenzene	SW8270C	8/15/11	08/16/11	10	22.8	50.0	ND		mg/Kg	406316	3385
2,4,6-Tribromophenol (S)	SW8270C	8/15/11	08/16/11	10	19	122	0.000	S,D	%	406316	3385
2-Fluorobiphenyl (S)	SW8270C	8/15/11	08/16/11	10	30	115	0.000	S,D	%	406316	3385
2-Fluorophenol (S)	SW8270C	8/15/11	08/16/11	10	25	121	0.000	S,D	%	406316	3385
Nitrobenzene-d5 (S)	SW8270C	8/15/11	08/16/11	10	23	120	0.000	S,D	%	406316	3385
Phenol-d6 (S)	SW8270C	8/15/11	08/16/11	10	24	113	0.000	S,D	%	406316	3385
p-Terphenyl-d14 (S)	SW8270C	8/15/11	08/16/11	10	18	137	0.000	S,D	%	406316	3385

NOTE: D - Surrogates not recoverable due to dilution of the sample. Reporting limits increased due to the nature of the sample matrix (viscous and dark color extract).

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-7-3.0	**Lab Sample ID:**	1108085-023A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:45		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	ND		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	ND		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	40		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	ND		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	29		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	ND		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	5.6		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	1.3		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	15		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	ND		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	18		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	10		mg/Kg	406377	3460

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	ND		mg/Kg	406366	3453

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-7-3.0	**Lab Sample ID:**	1108085-023A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:45		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/15/11	08/16/11	1	0.660	0.653	ND		mg/Kg	406316	3385
N-Nitrosdimethylamine	SW8270C	8/15/11	08/16/11	1	0.110	0.330	ND		mg/Kg	406316	3385
Aniline	SW8270C	8/15/11	08/16/11	1	0.123	0.330	ND		mg/Kg	406316	3385
Phenol	SW8270C	8/15/11	08/16/11	1	0.129	0.330	ND		mg/Kg	406316	3385
Bis(2-chloroethyl) ether	SW8270C	8/15/11	08/16/11	1	0.0683	0.330	ND		mg/Kg	406316	3385
2-Chlorophenol	SW8270C	8/15/11	08/16/11	1	0.129	0.330	ND		mg/Kg	406316	3385
1,3-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0733	0.330	ND		mg/Kg	406316	3385
1,4-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0663	6.59	ND		mg/Kg	406316	3385
Benzyl Alcohol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
1,2-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0713	0.330	ND		mg/Kg	406316	3385
2-Methylphenol (o-Cresol)	SW8270C	8/15/11	08/16/11	1	0.116	0.330	ND		mg/Kg	406316	3385
Bis(2-chloroisopropyl)ether	SW8270C	8/15/11	08/16/11	1	0.0683	0.330	ND		mg/Kg	406316	3385
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/15/11	08/16/11	1	0.139	0.330	ND		mg/Kg	406316	3385
N-nitroso-di-n-propylamine	SW8270C	8/15/11	08/16/11	1	0.0931	0.330	ND		mg/Kg	406316	3385
Hexachloroethane	SW8270C	8/15/11	08/16/11	1	0.0465	0.330	ND		mg/Kg	406316	3385
Nitrobenzene	SW8270C	8/15/11	08/16/11	1	0.0528	0.330	ND		mg/Kg	406316	3385
Isophorone	SW8270C	8/15/11	08/16/11	1	0.0574	0.653	ND		mg/Kg	406316	3385
2-Nitrophenol	SW8270C	8/15/11	08/16/11	1	0.0525	0.653	ND		mg/Kg	406316	3385
2,4-Dimethylphenol	SW8270C	8/15/11	08/16/11	1	0.133	6.59	ND		mg/Kg	406316	3385
Benzoic Acid	SW8270C	8/15/11	08/16/11	1	5.59	0.330	ND		mg/Kg	406316	3385
Bis(2-Chloroethoxy)methane	SW8270C	8/15/11	08/16/11	1	0.0584	0.330	ND		mg/Kg	406316	3385
2,4-Dichlorophenol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
1,2,4-Trichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0733	0.330	ND		mg/Kg	406316	3385
2,6-Dichlorophenol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
Naphthalene	SW8270C	8/15/11	08/16/11	1	0.0901	0.330	ND		mg/Kg	406316	3385
4-Chloroaniline	SW8270C	8/15/11	08/16/11	1	0.0990	0.330	ND		mg/Kg	406316	3385
Hexachloro-1,3-butadiene	SW8270C	8/15/11	08/16/11	1	0.0653	0.330	ND		mg/Kg	406316	3385
4-Chloro-3-methylphenol	SW8270C	8/15/11	08/16/11	1	0.102	0.330	ND		mg/Kg	406316	3385
2-Methylnaphthalene	SW8270C	8/15/11	08/16/11	1	0.0792	0.330	ND		mg/Kg	406316	3385
1-Methylnaphthalene	SW8270C	8/15/11	08/16/11	1	0.0792	0.330	ND		mg/Kg	406316	3385
Hexachlorocyclopentadiene	SW8270C	8/15/11	08/16/11	1	0.0277	0.330	ND		mg/Kg	406316	3385
2,4,6-Trichlorophenol	SW8270C	8/15/11	08/16/11	1	0.0950	0.330	ND		mg/Kg	406316	3385
2,4,5-Trichlorophenol	SW8270C	8/15/11	08/16/11	1	0.121	0.330	ND		mg/Kg	406316	3385
2-Chloronaphthalene	SW8270C	8/15/11	08/16/11	1	0.0594	3.27	ND		mg/Kg	406316	3385
2-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0693	0.330	ND		mg/Kg	406316	3385
Dimethyl phthalate	SW8270C	8/15/11	08/16/11	1	0.118	0.330	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-7-3.0	**Lab Sample ID:**	1108085-023A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:45		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
1,3-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.106	0.330	ND		mg/Kg	406316	3385
Acenaphthylene	SW8270C	8/15/11	08/16/11	1	0.0851	0.330	ND		mg/Kg	406316	3385
2,6-Dinitrotoluene	SW8270C	8/15/11	08/16/11	1	0.0267	0.330	ND		mg/Kg	406316	3385
1,2-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.0858	0.330	ND		mg/Kg	406316	3385
3-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0693	0.330	ND		mg/Kg	406316	3385
Acenaphthene	SW8270C	8/15/11	08/16/11	1	0.0960	0.330	ND		mg/Kg	406316	3385
2,4-Dinitrophenol	SW8270C	8/15/11	08/16/11	1	0.0297	3.27	ND		mg/Kg	406316	3385
4-Nitrophenol	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Dibenzofuran	SW8270C	8/15/11	08/16/11	1	0.0782	0.330	ND		mg/Kg	406316	3385
2,4-Dinitrotoluene	SW8270C	8/15/11	08/16/11	1	0.0267	0.330	ND		mg/Kg	406316	3385
2,3,5,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	1	0.119	0.330	ND		mg/Kg	406316	3385
2,3,4,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	1	0.119	0.330	ND		mg/Kg	406316	3385
Diethylphthalate	SW8270C	8/15/11	08/16/11	1	0.117	0.330	ND		mg/Kg	406316	3385
Fluorene	SW8270C	8/15/11	08/16/11	1	0.0990	0.330	ND		mg/Kg	406316	3385
4-Chlorophenyl phenyl ether	SW8270C	8/15/11	08/16/11	1	0.0802	0.330	ND		mg/Kg	406316	3385
4-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0802	0.330	ND		mg/Kg	406316	3385
4,6-Dinitro-2-methylphenol	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Diphenylamine	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Azobenzene	SW8270C	8/15/11	08/16/11	1	0.109	0.330	ND		mg/Kg	406316	3385
4-Bromophenyl phenyl ether	SW8270C	8/15/11	08/16/11	1	0.0812	3.27	ND		mg/Kg	406316	3385
Hexachlorobenzene	SW8270C	8/15/11	08/16/11	1	0.101	0.330	ND		mg/Kg	406316	3385
Pentachlorophenol	SW8270C	8/15/11	08/16/11	1	0.102	3.27	ND		mg/Kg	406316	3385
Phenanthrene	SW8270C	8/15/11	08/16/11	1	0.142	0.330	ND		mg/Kg	406316	3385
Anthracene	SW8270C	8/15/11	08/16/11	1	0.132	0.330	ND		mg/Kg	406316	3385
Carbazole	SW8270C	8/15/11	08/16/11	1	0.132	0.330	ND		mg/Kg	406316	3385
Di-n-butylphthalate	SW8270C	8/15/11	08/16/11	1	0.108	1.68	ND		mg/Kg	406316	3385
Fluoranthene	SW8270C	8/15/11	08/16/11	1	0.132	0.653	ND		mg/Kg	406316	3385
Benzidine	SW8270C	8/15/11	08/16/11	1	0.374	3.27	ND		mg/Kg	406316	3385
Pyrene	SW8270C	8/15/11	08/16/11	1	0.147	0.330	ND		mg/Kg	406316	3385
Benzyl butyl phthalate	SW8270C	8/15/11	08/16/11	1	0.0891	0.330	ND		mg/Kg	406316	3385
Benz[a]anthracene	SW8270C	8/15/11	08/16/11	1	0.149	0.330	ND		mg/Kg	406316	3385
3,3'-Dichlorobenzidine	SW8270C	8/15/11	08/16/11	1	0.152	0.330	ND		mg/Kg	406316	3385
Chrysene	SW8270C	8/15/11	08/16/11	1	0.176	0.330	ND		mg/Kg	406316	3385
Bis(2-Ethylhexyl)phthalate	SW8270C	8/15/11	08/16/11	1	0.0832	0.330	ND		mg/Kg	406316	3385
Di-n-octyl phthalate	SW8270C	8/15/11	08/16/11	1	0.138	0.330	ND		mg/Kg	406316	3385
Benzo[b]fluoranthene	SW8270C	8/15/11	08/16/11	1	0.133	0.330	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-7-3.0	**Lab Sample ID:**	1108085-023A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:45		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/15/11	08/16/11	1	0.169	0.330	ND		mg/Kg	406316	3385
Benzo[a]pyrene	SW8270C	8/15/11	08/16/11	1	0.135	0.330	ND		mg/Kg	406316	3385
Indeno[1,2,3-cd]pyrene	SW8270C	8/15/11	08/16/11	1	0.131	0.330	ND		mg/Kg	406316	3385
Dibenz[a,h]anthracene	SW8270C	8/15/11	08/16/11	1	0.151	0.330	ND		mg/Kg	406316	3385
Benzo[g,h,i]perylene	SW8270C	8/15/11	08/16/11	1	0.150	0.330	ND		mg/Kg	406316	3385
1,4-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.150	0.330	ND		mg/Kg	406316	3385
2,4,6-Tribromophenol (S)	SW8270C	8/15/11	08/16/11	1	19	122	59.4		%	406316	3385
2-Fluorobiphenyl (S)	SW8270C	8/15/11	08/16/11	1	30	115	78.3		%	406316	3385
2-Fluorophenol (S)	SW8270C	8/15/11	08/16/11	1	25	121	63.0		%	406316	3385
Nitrobenzene-d5 (S)	SW8270C	8/15/11	08/16/11	1	23	120	76.6		%	406316	3385
Phenol-d6 (S)	SW8270C	8/15/11	08/16/11	1	24	113	76.0		%	406316	3385
p-Terphenyl-d14 (S)	SW8270C	8/15/11	08/16/11	1	18	137	99.7		%	406316	3385

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-7-5.0	**Lab Sample ID:**	1108085-024A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:50		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/15/11	08/16/11	1	0.660	0.653	ND		mg/Kg	406316	3385
N-Nitrosdimethylamine	SW8270C	8/15/11	08/16/11	1	0.110	0.330	ND		mg/Kg	406316	3385
Aniline	SW8270C	8/15/11	08/16/11	1	0.123	0.330	ND		mg/Kg	406316	3385
Phenol	SW8270C	8/15/11	08/16/11	1	0.129	0.330	ND		mg/Kg	406316	3385
Bis(2-chloroethyl) ether	SW8270C	8/15/11	08/16/11	1	0.0683	0.330	ND		mg/Kg	406316	3385
2-Chlorophenol	SW8270C	8/15/11	08/16/11	1	0.129	0.330	ND		mg/Kg	406316	3385
1,3-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0733	0.330	ND		mg/Kg	406316	3385
1,4-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0663	6.59	ND		mg/Kg	406316	3385
Benzyl Alcohol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
1,2-Dichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0713	0.330	ND		mg/Kg	406316	3385
2-Methylphenol (o-Cresol)	SW8270C	8/15/11	08/16/11	1	0.116	0.330	ND		mg/Kg	406316	3385
Bis(2-chloroisopropyl)ether	SW8270C	8/15/11	08/16/11	1	0.0683	0.330	ND		mg/Kg	406316	3385
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/15/11	08/16/11	1	0.139	0.330	ND		mg/Kg	406316	3385
N-nitroso-di-n-propylamine	SW8270C	8/15/11	08/16/11	1	0.0931	0.330	ND		mg/Kg	406316	3385
Hexachloroethane	SW8270C	8/15/11	08/16/11	1	0.0465	0.330	ND		mg/Kg	406316	3385
Nitrobenzene	SW8270C	8/15/11	08/16/11	1	0.0528	0.330	ND		mg/Kg	406316	3385
Isophorone	SW8270C	8/15/11	08/16/11	1	0.0574	0.653	ND		mg/Kg	406316	3385
2-Nitrophenol	SW8270C	8/15/11	08/16/11	1	0.0525	0.653	ND		mg/Kg	406316	3385
2,4-Dimethylphenol	SW8270C	8/15/11	08/16/11	1	0.133	6.59	ND		mg/Kg	406316	3385
Benzoic Acid	SW8270C	8/15/11	08/16/11	1	5.59	0.330	ND		mg/Kg	406316	3385
Bis(2-Chloroethoxy)methane	SW8270C	8/15/11	08/16/11	1	0.0584	0.330	ND		mg/Kg	406316	3385
2,4-Dichlorophenol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
1,2,4-Trichlorobenzene	SW8270C	8/15/11	08/16/11	1	0.0733	0.330	ND		mg/Kg	406316	3385
2,6-Dichlorophenol	SW8270C	8/15/11	08/16/11	1	0.104	0.330	ND		mg/Kg	406316	3385
Naphthalene	SW8270C	8/15/11	08/16/11	1	0.0901	0.330	ND		mg/Kg	406316	3385
4-Chloroaniline	SW8270C	8/15/11	08/16/11	1	0.0990	0.330	ND		mg/Kg	406316	3385
Hexachloro-1,3-butadiene	SW8270C	8/15/11	08/16/11	1	0.0653	0.330	ND		mg/Kg	406316	3385
4-Chloro-3-methylphenol	SW8270C	8/15/11	08/16/11	1	0.102	0.330	ND		mg/Kg	406316	3385
2-Methylnaphthalene	SW8270C	8/15/11	08/16/11	1	0.0792	0.330	ND		mg/Kg	406316	3385
1-Methylnaphthalene	SW8270C	8/15/11	08/16/11	1	0.0792	0.330	ND		mg/Kg	406316	3385
Hexachlorocyclopentadiene	SW8270C	8/15/11	08/16/11	1	0.0277	0.330	ND		mg/Kg	406316	3385
2,4,6-Trichlorophenol	SW8270C	8/15/11	08/16/11	1	0.0950	0.330	ND		mg/Kg	406316	3385
2,4,5-Trichlorophenol	SW8270C	8/15/11	08/16/11	1	0.121	0.330	ND		mg/Kg	406316	3385
2-Chloronaphthalene	SW8270C	8/15/11	08/16/11	1	0.0594	3.27	ND		mg/Kg	406316	3385
2-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0693	0.330	ND		mg/Kg	406316	3385
Dimethyl phthalate	SW8270C	8/15/11	08/16/11	1	0.118	0.330	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-7-5.0	**Lab Sample ID:**	1108085-024A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:50		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.106	0.330	ND		mg/Kg	406316	3385
Acenaphthylene	SW8270C	8/15/11	08/16/11	1	0.0851	0.330	ND		mg/Kg	406316	3385
2,6-Dinitrotoluene	SW8270C	8/15/11	08/16/11	1	0.0267	0.330	ND		mg/Kg	406316	3385
1,2-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.0858	0.330	ND		mg/Kg	406316	3385
3-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0693	0.330	ND		mg/Kg	406316	3385
Acenaphthene	SW8270C	8/15/11	08/16/11	1	0.0960	0.330	ND		mg/Kg	406316	3385
2,4-Dinitrophenol	SW8270C	8/15/11	08/16/11	1	0.0297	3.27	ND		mg/Kg	406316	3385
4-Nitrophenol	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Dibenzofuran	SW8270C	8/15/11	08/16/11	1	0.0782	0.330	ND		mg/Kg	406316	3385
2,4-Dinitrotoluene	SW8270C	8/15/11	08/16/11	1	0.0267	0.330	ND		mg/Kg	406316	3385
2,3,5,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	1	0.119	0.330	ND		mg/Kg	406316	3385
2,3,4,6-Tetrachlorophenol	SW8270C	8/15/11	08/16/11	1	0.119	0.330	ND		mg/Kg	406316	3385
Diethylphthalate	SW8270C	8/15/11	08/16/11	1	0.117	0.330	ND		mg/Kg	406316	3385
Fluorene	SW8270C	8/15/11	08/16/11	1	0.0990	0.330	ND		mg/Kg	406316	3385
4-Chlorophenyl phenyl ether	SW8270C	8/15/11	08/16/11	1	0.0802	0.330	ND		mg/Kg	406316	3385
4-Nitroaniline	SW8270C	8/15/11	08/16/11	1	0.0802	0.330	ND		mg/Kg	406316	3385
4,6-Dinitro-2-methylphenol	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Diphenylamine	SW8270C	8/15/11	08/16/11	1	0.0663	0.330	ND		mg/Kg	406316	3385
Azobenzene	SW8270C	8/15/11	08/16/11	1	0.109	0.330	ND		mg/Kg	406316	3385
4-Bromophenyl phenyl ether	SW8270C	8/15/11	08/16/11	1	0.0812	3.27	ND		mg/Kg	406316	3385
Hexachlorobenzene	SW8270C	8/15/11	08/16/11	1	0.101	0.330	ND		mg/Kg	406316	3385
Pentachlorophenol	SW8270C	8/15/11	08/16/11	1	0.102	3.27	ND		mg/Kg	406316	3385
Phenanthrene	SW8270C	8/15/11	08/16/11	1	0.142	0.330	ND		mg/Kg	406316	3385
Anthracene	SW8270C	8/15/11	08/16/11	1	0.132	0.330	ND		mg/Kg	406316	3385
Carbazole	SW8270C	8/15/11	08/16/11	1	0.132	0.330	ND		mg/Kg	406316	3385
Di-n-butylphthalate	SW8270C	8/15/11	08/16/11	1	0.108	1.68	ND		mg/Kg	406316	3385
Fluoranthene	SW8270C	8/15/11	08/16/11	1	0.132	0.653	ND		mg/Kg	406316	3385
Benzidine	SW8270C	8/15/11	08/16/11	1	0.374	3.27	ND		mg/Kg	406316	3385
Pyrene	SW8270C	8/15/11	08/16/11	1	0.147	0.330	ND		mg/Kg	406316	3385
Benzyl butyl phthalate	SW8270C	8/15/11	08/16/11	1	0.0891	0.330	ND		mg/Kg	406316	3385
Benz[a]anthracene	SW8270C	8/15/11	08/16/11	1	0.149	0.330	ND		mg/Kg	406316	3385
3,3'-Dichlorobenzidine	SW8270C	8/15/11	08/16/11	1	0.152	0.330	ND		mg/Kg	406316	3385
Chrysene	SW8270C	8/15/11	08/16/11	1	0.176	0.330	ND		mg/Kg	406316	3385
Bis(2-Ethylhexyl)phthalate	SW8270C	8/15/11	08/16/11	1	0.0832	0.330	ND		mg/Kg	406316	3385
Di-n-octyl phthalate	SW8270C	8/15/11	08/16/11	1	0.138	0.330	ND		mg/Kg	406316	3385
Benzo[b]fluoranthene	SW8270C	8/15/11	08/16/11	1	0.133	0.330	ND		mg/Kg	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-7-5.0	**Lab Sample ID:**	1108085-024A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:50		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/15/11	08/16/11	1	0.169	0.330	ND		mg/Kg	406316	3385
Benzo[a]pyrene	SW8270C	8/15/11	08/16/11	1	0.135	0.330	ND		mg/Kg	406316	3385
Indeno[1,2,3-cd]pyrene	SW8270C	8/15/11	08/16/11	1	0.131	0.330	ND		mg/Kg	406316	3385
Dibenz[a,h]anthracene	SW8270C	8/15/11	08/16/11	1	0.151	0.330	ND		mg/Kg	406316	3385
Benzo[g,h,i]perylene	SW8270C	8/15/11	08/16/11	1	0.150	0.330	ND		mg/Kg	406316	3385
1,4-Dinitrobenzene	SW8270C	8/15/11	08/16/11	1	0.150	0.330	ND		mg/Kg	406316	3385
2,4,6-Tribromophenol (S)	SW8270C	8/15/11	08/16/11	1	19	122	42.7		%	406316	3385
2-Fluorobiphenyl (S)	SW8270C	8/15/11	08/16/11	1	30	115	61.9		%	406316	3385
2-Fluorophenol (S)	SW8270C	8/15/11	08/16/11	1	25	121	69.7		%	406316	3385
Nitrobenzene-d5 (S)	SW8270C	8/15/11	08/16/11	1	23	120	64.7		%	406316	3385
Phenol-d6 (S)	SW8270C	8/15/11	08/16/11	1	24	113	77.4		%	406316	3385
p-Terphenyl-d14 (S)	SW8270C	8/15/11	08/16/11	1	18	137	97.5		%	406316	3385

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-8-1.0	**Lab Sample ID:**	1108085-025A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:55		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406312	3407
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	ND		mg/Kg	406312	3407
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	58		mg/Kg	406312	3407
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406312	3407
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	ND		mg/Kg	406312	3407
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	26		mg/Kg	406312	3407
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	ND		mg/Kg	406312	3407
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	6.5		mg/Kg	406312	3407
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	10		mg/Kg	406312	3407
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406312	3407
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	16		mg/Kg	406312	3407
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406312	3407
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406312	3407
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406312	3407
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	19		mg/Kg	406312	3407
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	19		mg/Kg	406312	3407

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Mercury	SW7471A	8/16/11	08/17/11	1	0.01	0.10	ND		mg/Kg	406292	3410

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-8-1.0	**Lab Sample ID:**	1108085-025A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:55		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-8-1.0	**Lab Sample ID:**	1108085-025A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:55		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-8-1.0	**Lab Sample ID:**	1108085-025A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 10:55		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	71.7		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	85.7		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	94.9		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	85.8		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	92.4		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	72.6		%	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-8-3.0	**Lab Sample ID:**	1108085-026A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:00		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	ND		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	ND		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	38		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	ND		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	24		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	ND		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	5.2		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	1.3		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	15		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	ND		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	19		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	9.7		mg/Kg	406377	3460

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	ND		mg/Kg	406366	3453

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-8-3.0	**Lab Sample ID:**	1108085-026A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:00		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-8-3.0	**Lab Sample ID:**	1108085-026A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:00		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-8-3.0	**Lab Sample ID:**	1108085-026A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:00		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	37.5		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	48.7		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	68.7		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	55.1		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	63.0		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	101		%	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-8-5.0	**Lab Sample ID:**	1108085-027A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:05		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-8-5.0	**Lab Sample ID:**	1108085-027A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:05		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-8-5.0	**Lab Sample ID:**	1108085-027A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:05		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	65.7		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	69.9		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	77.9		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	69.5		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	76.2		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	87.3		%	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-9-1.0	**Lab Sample ID:**	1108085-028A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:10		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406312	3407
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	3.0		mg/Kg	406312	3407
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	62		mg/Kg	406312	3407
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406312	3407
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	ND		mg/Kg	406312	3407
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	39		mg/Kg	406312	3407
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	6.5		mg/Kg	406312	3407
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	11		mg/Kg	406312	3407
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	21		mg/Kg	406312	3407
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406312	3407
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	33		mg/Kg	406312	3407
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406312	3407
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406312	3407
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406312	3407
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	26		mg/Kg	406312	3407
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	34		mg/Kg	406312	3407

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/16/11	08/17/11	1	0.01	0.10	ND		mg/Kg	406292	3410

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-9-1.0	**Lab Sample ID:**	1108085-028A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:10		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-9-1.0	**Lab Sample ID:**	1108085-028A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:10		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-9-1.0	**Lab Sample ID:**	1108085-028A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:10		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	68.4		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	69.0		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	79.4		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	66.6		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	77.5		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	77.7		%	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-9-3.0	**Lab Sample ID:**	1108085-029A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:15		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	ND		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	ND		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	47		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	ND		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	27		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	ND		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	5.4		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	1.8		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	15		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	ND		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	19		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	11		mg/Kg	406377	3460

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	ND		mg/Kg	406366	3453

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-9-3.0	**Lab Sample ID:**	1108085-029A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:15		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-9-3.0	**Lab Sample ID:**	1108085-029A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:15		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-9-3.0	**Lab Sample ID:**	1108085-029A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:15		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	63.7		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	62.3		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	64.6		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	58.9		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	64.8		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	95.5		%	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-9-5.0	**Lab Sample ID:**	1108085-030A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:20		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-9-5.0	**Lab Sample ID:**	1108085-030A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:20		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-9-5.0	**Lab Sample ID:**	1108085-030A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:20		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	48.7		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	55.2		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	60.5		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	53.8		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	57.1		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	90.3		%	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-10-1.0	**Lab Sample ID:**	1108085-031A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:25		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead (STLC)	SW6010B	8/24/11	08/25/11	1	0.0500	0.10	58		mg/L	406420	3488

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406312	3407
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	3.6		mg/Kg	406312	3407
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	200		mg/Kg	406312	3407
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406312	3407
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	ND		mg/Kg	406312	3407
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	26		mg/Kg	406312	3407
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	ND		mg/Kg	406312	3407
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	34		mg/Kg	406312	3407
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	460		mg/Kg	406312	3407
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406312	3407
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	18		mg/Kg	406312	3407
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406312	3407
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406312	3407
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406312	3407
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	20		mg/Kg	406312	3407
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	240		mg/Kg	406312	3407

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/16/11	08/17/11	1	0.01	0.10	0.54		mg/Kg	406292	3410

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-10-1.0	**Lab Sample ID:**	1108085-031A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:25		
Tag Number:	800 Cedar St		

The results shown below are reported using their MDL.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	10	100	99.0	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	10	16.7	50.0	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	10	18.6	50.0	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	10	19.5	50.0	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	10	10.4	50.0	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	10	19.5	50.0	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	10	11.1	50.0	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	10	10.1	999	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	10	15.8	50.0	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	10	10.8	50.0	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	10	17.6	50.0	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	10	10.4	50.0	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	10	21.0	50.0	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	10	14.1	50.0	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	10	7.05	50.0	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	10	8.00	50.0	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	10	8.70	99.0	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	10	7.95	99.0	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	10	20.1	999	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	10	848	50.0	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	10	8.85	50.0	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	10	15.8	50.0	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	10	11.1	50.0	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	10	15.8	50.0	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	10	13.7	50.0	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	10	15.0	50.0	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	10	9.90	50.0	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	10	15.5	50.0	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	10	12.0	50.0	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	10	12.0	50.0	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	10	4.20	50.0	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	10	14.4	50.0	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	10	18.3	50.0	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	10	9.00	495	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	10	10.5	50.0	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-10-1.0	**Lab Sample ID:**	1108085-031A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:25		
Tag Number:	800 Cedar St		

The results shown below are reported using their MDL.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	10	17.9	50.0	ND		mg/Kg	406344	3432
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	10	16.0	50.0	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	10	12.9	50.0	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	10	4.05	50.0	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	10	13.0	50.0	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	10	10.5	50.0	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	10	14.6	50.0	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	10	4.50	495	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	10	10.1	50.0	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	10	11.9	50.0	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	10	4.05	50.0	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	10	18.0	50.0	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	10	18.0	50.0	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	10	17.7	50.0	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	10	15.0	50.0	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	10	12.2	50.0	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	10	12.2	50.0	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	10	10.1	50.0	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	10	10.1	50.0	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	10	16.5	50.0	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	10	12.3	495	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	10	15.3	50.0	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	10	15.5	495	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	10	21.5	50.0	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	10	20.1	50.0	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	10	20.1	50.0	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	10	16.4	255	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	10	20.1	99.0	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	10	56.7	495	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	10	22.3	50.0	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	10	13.5	50.0	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	10	22.7	50.0	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	10	23.1	50.0	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	10	26.7	50.0	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	10	12.6	50.0	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-10-1.0	**Lab Sample ID:**	1108085-031A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:25		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
The results shown below are reported using their MDL.											
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	10	20.9	50.0	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	10	20.1	50.0	ND		mg/Kg	406344	3432
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	10	25.7	50.0	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	10	20.4	50.0	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	10	19.8	50.0	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	10	23.0	50.0	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	10	22.8	50.0	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	10	22.8	50.0	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	10	19	122	0.000	S,D	%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	10	30	115	0.000	S,D	%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	10	25	121	0.000	S,D	%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	10	23	120	0.000	S,D	%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	10	24	113	0.000	S,D	%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	10	18	137	0.000	S,D	%	406344	3432

NOTE: D - Surrogates not recoverable due to dilution of the sample. Reporting limits increased due to the nature of the sample matrix (viscous and dark color extract).

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-10-1.0 D	**Lab Sample ID:**	1108085-032A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:25		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-10-1.0 D	**Lab Sample ID:**	1108085-032A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:25		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-10-1.0 D	**Lab Sample ID:**	1108085-032A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:25		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	59.7		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	69.5		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	62.3		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	61.3		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	65.2		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	69.8		%	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-10-3.0	**Lab Sample ID:**	1108085-033A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:30		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	ND		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	ND		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	32		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	ND		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	25		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	ND		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	5.1		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	1.6		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	16		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	ND		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	18		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	9.2		mg/Kg	406377	3460

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	ND		mg/Kg	406366	3453

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-10-3.0	**Lab Sample ID:**	1108085-033A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:30		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-10-3.0	**Lab Sample ID:**	1108085-033A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:30		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-10-3.0	**Lab Sample ID:**	1108085-033A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:30		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	64.4		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	69.2		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	66.6		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	63.3		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	66.0		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	108		%	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-10-5.0	**Lab Sample ID:**	1108085-034A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:35		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-10-5.0	**Lab Sample ID:**	1108085-034A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:35		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-10-5.0	**Lab Sample ID:**	1108085-034A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:35		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	60.5		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	70.5		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	61.7		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	68.3		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	62.6		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	109		%	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-11-1.0	**Lab Sample ID:**	1108085-035A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:40		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead (STLC)	SW6010B	8/24/11	08/25/11	1	0.0500	0.10	3.9		mg/L	406420	3488

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406312	3407
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	2.6		mg/Kg	406312	3407
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	180		mg/Kg	406312	3407
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406312	3407
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	ND		mg/Kg	406312	3407
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	21		mg/Kg	406312	3407
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	ND		mg/Kg	406312	3407
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	45		mg/Kg	406312	3407
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	200		mg/Kg	406312	3407
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406312	3407
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	16		mg/Kg	406312	3407
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406312	3407
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406312	3407
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406312	3407
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	16		mg/Kg	406312	3407
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	470		mg/Kg	406312	3407

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/16/11	08/17/11	1	0.01	0.10	0.29		mg/Kg	406292	3410

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-11-1.0	**Lab Sample ID:**	1108085-035A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:40		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-11-1.0	**Lab Sample ID:**	1108085-035A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:40		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-11-1.0	**Lab Sample ID:**	1108085-035A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:40		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	57.7		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	63.8		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	48.8		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	56.4		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	58.9		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	73.7		%	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-11-3.0	**Lab Sample ID:**	1108085-036A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:45		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	ND		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	1.7		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	49		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	ND		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	27		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	ND		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	7.3		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	4.9		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	15		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	ND		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	21		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	130		mg/Kg	406377	3460

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	ND		mg/Kg	406366	3453

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-11-3.0	**Lab Sample ID:**	1108085-036A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:45		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-11-3.0	**Lab Sample ID:**	1108085-036A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:45		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-11-3.0	**Lab Sample ID:**	1108085-036A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:45		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	52.9		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	59.2		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	56.5		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	53.3		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	56.0		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	88.4		%	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-11-5.0	**Lab Sample ID:**	1108085-037A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:50		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-11-5.0	**Lab Sample ID:**	1108085-037A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:50		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-11-5.0	**Lab Sample ID:**	1108085-037A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:50		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	64.7		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	70.6		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	74.3		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	67.7		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	72.7		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	108		%	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-12-1.0	**Lab Sample ID:**	1108085-038A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:55		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406312	3407
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	1.8		mg/Kg	406312	3407
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	49		mg/Kg	406312	3407
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406312	3407
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	ND		mg/Kg	406312	3407
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	25		mg/Kg	406312	3407
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	ND		mg/Kg	406312	3407
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	6.8		mg/Kg	406312	3407
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	25		mg/Kg	406312	3407
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406312	3407
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	16		mg/Kg	406312	3407
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406312	3407
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406312	3407
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406312	3407
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	20		mg/Kg	406312	3407
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	27		mg/Kg	406312	3407

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/16/11	08/17/11	1	0.01	0.10	ND		mg/Kg	406292	3410

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-12-1.0	**Lab Sample ID:**	1108085-038A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:55		
Tag Number:	800 Cedar St		

The results shown below are reported using their MDL.

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Pyridine	SW8270C	8/18/11	08/18/11	20	200	198	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	20	33.3	100	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	20	37.2	100	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	20	39.0	100	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	20	20.7	100	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	20	39.0	100	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	20	22.2	100	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	20	20.1	2000	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	20	31.5	100	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	20	21.6	100	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	20	35.1	100	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	20	20.7	100	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	20	42.0	100	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	20	28.2	100	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	20	14.1	100	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	20	16.0	100	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	20	17.4	198	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	20	15.9	198	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	20	40.2	2000	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	20	1700	100	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	20	17.7	100	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	20	31.5	100	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	20	22.2	100	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	20	31.5	100	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	20	27.3	100	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	20	30.0	100	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	20	19.8	100	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	20	30.9	100	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	20	24.0	100	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	20	24.0	100	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	20	8.40	100	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	20	28.8	100	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	20	36.6	100	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	20	18.0	990	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	20	21.0	100	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-12-1.0	**Lab Sample ID:**	1108085-038A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:55		
Tag Number:	800 Cedar St		

The results shown below are reported using their MDL.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	20	35.7	100	ND		mg/Kg	406344	3432
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	20	32.0	100	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	20	25.8	100	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	20	8.10	100	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	20	26.0	100	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	20	21.0	100	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	20	29.1	100	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	20	9.00	990	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	20	20.1	100	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	20	23.7	100	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	20	8.10	100	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	20	36.0	100	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	20	36.0	100	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	20	35.4	100	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	20	30.0	100	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	20	24.3	100	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	20	24.3	100	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	20	20.1	100	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	20	20.1	100	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	20	33.0	100	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	20	24.6	990	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	20	30.6	100	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	20	30.9	990	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	20	42.9	100	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	20	40.1	100	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	20	40.1	100	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	20	32.7	510	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	20	40.1	198	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	20	113	990	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	20	44.5	100	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	20	27.0	100	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	20	45.3	100	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	20	46.2	100	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	20	53.4	100	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	20	25.2	100	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11
Client Sample ID:	NG-12-1.0	**Lab Sample ID:**	1108085-038A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 11:55		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.											
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	20	41.7	100	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	20	40.2	100	ND		mg/Kg	406344	3432
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	20	51.3	100	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	20	40.8	100	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	20	39.6	100	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	20	45.9	100	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	20	45.6	100	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	20	45.6	100	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	20	19	122	0.000	S,D	%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	20	30	115	0.000	S,D	%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	20	25	121	0.000	S,D	%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	20	23	120	0.000	S,D	%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	20	24	113	0.000	S,D	%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	20	18	137	0.000	S,D	%	406344	3432

NOTE: D - Surrogates not recoverable due to dilution of the sample. Reporting limits increased due to the nature of the sample matrix (viscous and dark color extract).

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-12-3.0	**Lab Sample ID:**	1108085-039A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:00		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	ND		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	ND		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	44		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	ND		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	26		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	ND		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	9.3		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	1.9		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	15		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	ND		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	20		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	11		mg/Kg	406377	3460

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	ND		mg/Kg	406366	3453

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-12-3.0	**Lab Sample ID:**	1108085-039A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:00		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

Torrent
LABORATORY, INC.

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-12-3.0	**Lab Sample ID:**	1108085-039A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:00		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-12-3.0	**Lab Sample ID:**	1108085-039A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:00		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	55.5		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	64.5		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	76.8		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	66.0		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	73.0		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	98.1		%	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-12-5.0	**Lab Sample ID:**	1108085-040A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:05		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-12-5.0	**Lab Sample ID:**	1108085-040A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:05		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-12-5.0	**Lab Sample ID:**	1108085-040A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:05		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	56.2		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	67.1		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	71.1		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	67.3		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	70.7		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	102		%	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-13-1.0	**Lab Sample ID:**	1108085-041A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:10		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	15		mg/Kg	406312	3407
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	9.2		mg/Kg	406312	3407
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	1100		mg/Kg	406312	3407
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406312	3407
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	4.9		mg/Kg	406312	3407
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	54		mg/Kg	406312	3407
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	ND		mg/Kg	406312	3407
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	150		mg/Kg	406312	3407
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	2900		mg/Kg	406312	3407
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406312	3407
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	30		mg/Kg	406312	3407
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406312	3407
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406312	3407
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406312	3407
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	21		mg/Kg	406312	3407
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	2000		mg/Kg	406312	3407

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/16/11	08/17/11	1	0.01	0.10	0.27		mg/Kg	406292	3410

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-13-1.0	**Lab Sample ID:**	1108085-041A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:10		
Tag Number:	800 Cedar St		

The results shown below are reported using their MDL.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	40	400	396	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	40	66.6	200	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	40	74.4	200	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	40	78.0	200	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	40	41.4	200	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	40	78.0	200	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	40	44.4	200	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	40	40.2	4000	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	40	63.0	200	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	40	43.2	200	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	40	70.2	200	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	40	41.4	200	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	40	84.0	200	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	40	56.4	200	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	40	28.2	200	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	40	32.0	200	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	40	34.8	396	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	40	31.8	396	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	40	80.4	4000	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	40	3390	200	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	40	35.4	200	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	40	63.0	200	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	40	44.4	200	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	40	63.0	200	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	40	54.6	200	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	40	60.0	200	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	40	39.6	200	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	40	61.8	200	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	40	48.0	200	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	40	48.0	200	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	40	16.8	200	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	40	57.6	200	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	40	73.2	200	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	40	36.0	1980	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	40	42.0	200	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-13-1.0	**Lab Sample ID:**	1108085-041A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:10		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
The results shown below are reported using their MDL.											
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	40	71.4	200	ND		mg/Kg	406344	3432
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	40	64.0	200	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	40	51.6	200	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	40	16.2	200	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	40	52.0	200	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	40	42.0	200	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	40	58.2	200	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	40	18.0	1980	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	40	40.2	200	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	40	47.4	200	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	40	16.2	200	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	40	72.0	200	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	40	72.0	200	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	40	70.8	200	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	40	60.0	200	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	40	48.6	200	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	40	48.6	200	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	40	40.2	200	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	40	40.2	200	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	40	66.0	200	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	40	49.2	1980	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	40	61.2	200	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	40	61.8	1980	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	40	85.8	200	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	40	80.3	200	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	40	80.3	200	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	40	65.4	1020	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	40	80.2	396	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	40	227	1980	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	40	89.0	200	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	40	54.0	200	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	40	90.6	200	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	40	92.4	200	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	40	107	200	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	40	50.4	200	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-13-1.0	**Lab Sample ID:**	1108085-041A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:10		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.											
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	40	83.4	200	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	40	80.4	200	ND		mg/Kg	406344	3432
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	40	103	200	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	40	81.6	200	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	40	79.2	200	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	40	91.8	200	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	40	91.2	200	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	40	91.2	200	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	40	19	122	0.000	S,D	%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	40	30	115	0.000	S,D	%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	40	25	121	0.000	S,D	%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	40	23	120	0.000	S,D	%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	40	24	113	0.000	S,D	%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	40	18	137	0.000	S,D	%	406344	3432

NOTE: D - Surrogates not recoverable due to dilution of the sample. Reporting limits increased due to the nature of the sample matrix (viscous and dark color extract).

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-13-1.0 D	**Lab Sample ID:**	1108085-042A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:10		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead (STLC)	SW6010B	8/24/11	08/25/11	1	0.0500	0.10	520		mg/L	406420	3488

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/16/11	08/17/11	1	0.20	5.0	ND		mg/Kg	406312	3407
Arsenic	SW6010B	8/16/11	08/17/11	1	0.28	1.7	3.5		mg/Kg	406312	3407
Barium	SW6010B	8/16/11	08/17/11	1	1	5.0	82		mg/Kg	406312	3407
Beryllium	SW6010B	8/16/11	08/17/11	1	0.0840	2.0	ND		mg/Kg	406312	3407
Cadmium	SW6010B	8/16/11	08/17/11	1	0.0590	1.0	ND		mg/Kg	406312	3407
Chromium	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	29		mg/Kg	406312	3407
Cobalt	SW6010B	8/16/11	08/17/11	1	0.14	5.0	8.4		mg/Kg	406312	3407
Copper	SW6010B	8/16/11	08/17/11	1	0.0900	5.0	26		mg/Kg	406312	3407
Lead	SW6010B	8/16/11	08/17/11	1	0.043	1.0	200		mg/Kg	406312	3407
Molybdenum	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	ND		mg/Kg	406312	3407
Nickel	SW6010B	8/16/11	08/17/11	1	0.0590	5.0	19		mg/Kg	406312	3407
Selenium	SW6010B	8/16/11	08/17/11	1	0.29	5.0	ND		mg/Kg	406312	3407
Silver	SW6010B	8/16/11	08/17/11	1	1.0	1.0	ND		mg/Kg	406312	3407
Thallium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	ND		mg/Kg	406312	3407
Vanadium	SW6010B	8/16/11	08/17/11	1	0.12	5.0	22		mg/Kg	406312	3407
Zinc	SW6010B	8/16/11	08/17/11	1	0.59	5.0	100		mg/Kg	406312	3407

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/16/11	08/17/11	1	0.01	0.10	0.22		mg/Kg	406292	3410

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-13-1.0 D	**Lab Sample ID:**	1108085-042A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:10		
Tag Number:	800 Cedar St		

The results shown below are reported using their MDL.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	10	100	99.0	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	10	16.7	50.0	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	10	18.6	50.0	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	10	19.5	50.0	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	10	10.4	50.0	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	10	19.5	50.0	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	10	11.1	50.0	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	10	10.1	999	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	10	15.8	50.0	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	10	10.8	50.0	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	10	17.6	50.0	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	10	10.4	50.0	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	10	21.0	50.0	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	10	14.1	50.0	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	10	7.05	50.0	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	10	8.00	50.0	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	10	8.70	99.0	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	10	7.95	99.0	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	10	20.1	999	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	10	848	50.0	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	10	8.85	50.0	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	10	15.8	50.0	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	10	11.1	50.0	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	10	15.8	50.0	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	10	13.7	50.0	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	10	15.0	50.0	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	10	9.90	50.0	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	10	15.5	50.0	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	10	12.0	50.0	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	10	12.0	50.0	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	10	4.20	50.0	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	10	14.4	50.0	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	10	18.3	50.0	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	10	9.00	495	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	10	10.5	50.0	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-13-1.0 D	**Lab Sample ID:**	1108085-042A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:10		
Tag Number:	800 Cedar St		

The results shown below are reported using their MDL.

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	10	17.9	50.0	ND		mg/Kg	406344	3432
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	10	16.0	50.0	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	10	12.9	50.0	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	10	4.05	50.0	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	10	13.0	50.0	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	10	10.5	50.0	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	10	14.6	50.0	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	10	4.50	495	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	10	10.1	50.0	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	10	11.9	50.0	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	10	4.05	50.0	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	10	18.0	50.0	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	10	18.0	50.0	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	10	17.7	50.0	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	10	15.0	50.0	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	10	12.2	50.0	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	10	12.2	50.0	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	10	10.1	50.0	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	10	10.1	50.0	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	10	16.5	50.0	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	10	12.3	495	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	10	15.3	50.0	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	10	15.5	495	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	10	21.5	50.0	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	10	20.1	50.0	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	10	20.1	50.0	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	10	16.4	255	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	10	20.1	99.0	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	10	56.7	495	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	10	22.3	50.0	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	10	13.5	50.0	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	10	22.7	50.0	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	10	23.1	50.0	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	10	26.7	50.0	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	10	12.6	50.0	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-13-1.0 D	**Lab Sample ID:**	1108085-042A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:10		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.											
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	10	20.9	50.0	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	10	20.1	50.0	ND		mg/Kg	406344	3432
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	10	25.7	50.0	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	10	20.4	50.0	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	10	19.8	50.0	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	10	23.0	50.0	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	10	22.8	50.0	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	10	22.8	50.0	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	10	19	122	0.000	S,D	%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	10	30	115	0.000	S,D	%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	10	25	121	0.000	S,D	%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	10	23	120	0.000	S,D	%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	10	24	113	0.000	S,D	%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	10	18	137	0.000	S,D	%	406344	3432

NOTE: D - Surrogates not recoverable due to dilution of the sample. Reporting limits increased due to the nature of the sample matrix (viscous and dark color extract).

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-13-3.0	**Lab Sample ID:**	1108085-043A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:15		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	8/22/11	08/23/11	1	0.20	5.0	ND		mg/Kg	406377	3460
Arsenic	SW6010B	8/22/11	08/23/11	1	0.28	1.7	ND		mg/Kg	406377	3460
Barium	SW6010B	8/22/11	08/23/11	1	1	5.0	43		mg/Kg	406377	3460
Beryllium	SW6010B	8/22/11	08/23/11	1	0.0840	2.0	ND		mg/Kg	406377	3460
Cadmium	SW6010B	8/22/11	08/23/11	1	0.0590	1.0	ND		mg/Kg	406377	3460
Chromium	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	23		mg/Kg	406377	3460
Cobalt	SW6010B	8/22/11	08/23/11	1	0.14	5.0	ND		mg/Kg	406377	3460
Copper	SW6010B	8/22/11	08/23/11	1	0.0900	5.0	ND		mg/Kg	406377	3460
Lead	SW6010B	8/22/11	08/23/11	1	0.043	1.0	6.1		mg/Kg	406377	3460
Molybdenum	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	ND		mg/Kg	406377	3460
Nickel	SW6010B	8/22/11	08/23/11	1	0.0590	5.0	15		mg/Kg	406377	3460
Selenium	SW6010B	8/22/11	08/23/11	1	0.29	5.0	ND		mg/Kg	406377	3460
Silver	SW6010B	8/22/11	08/23/11	1	1.0	1.0	ND		mg/Kg	406377	3460
Thallium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	ND		mg/Kg	406377	3460
Vanadium	SW6010B	8/22/11	08/23/11	1	0.12	5.0	17		mg/Kg	406377	3460
Zinc	SW6010B	8/22/11	08/23/11	1	0.59	5.0	610		mg/Kg	406377	3460

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	8/22/11	08/23/11	1	0.01	0.10	ND		mg/Kg	406366	3453

SAMPLE RESULTS

Report prepared for: Adam Klein
Northgate Environmental Management Inc.

Date Received: 08/11/11
Date Reported: 08/19/11

Client Sample ID:	NG-13-3.0	**Lab Sample ID:**	1108085-043A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:15		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-13-3.0	**Lab Sample ID:**	1108085-043A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:15		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-13-3.0	**Lab Sample ID:**	1108085-043A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:15		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	61.2		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	62.9		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	66.7		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	61.4		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	64.7		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	131		%	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-13-5.0	**Lab Sample ID:**	1108085-044A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:20		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Pyridine	SW8270C	8/18/11	08/18/11	1	0.660	0.653	ND		mg/Kg	406344	3432
N-Nitrosdimethylamine	SW8270C	8/18/11	08/18/11	1	0.110	0.330	ND		mg/Kg	406344	3432
Aniline	SW8270C	8/18/11	08/18/11	1	0.123	0.330	ND		mg/Kg	406344	3432
Phenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroethyl) ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
2-Chlorophenol	SW8270C	8/18/11	08/18/11	1	0.129	0.330	ND		mg/Kg	406344	3432
1,3-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
1,4-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0663	6.59	ND		mg/Kg	406344	3432
Benzyl Alcohol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2-Dichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0713	0.330	ND		mg/Kg	406344	3432
2-Methylphenol (o-Cresol)	SW8270C	8/18/11	08/18/11	1	0.116	0.330	ND		mg/Kg	406344	3432
Bis(2-chloroisopropyl)ether	SW8270C	8/18/11	08/18/11	1	0.0683	0.330	ND		mg/Kg	406344	3432
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	8/18/11	08/18/11	1	0.139	0.330	ND		mg/Kg	406344	3432
N-nitroso-di-n-propylamine	SW8270C	8/18/11	08/18/11	1	0.0931	0.330	ND		mg/Kg	406344	3432
Hexachloroethane	SW8270C	8/18/11	08/18/11	1	0.0465	0.330	ND		mg/Kg	406344	3432
Nitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0528	0.330	ND		mg/Kg	406344	3432
Isophorone	SW8270C	8/18/11	08/18/11	1	0.0574	0.653	ND		mg/Kg	406344	3432
2-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0525	0.653	ND		mg/Kg	406344	3432
2,4-Dimethylphenol	SW8270C	8/18/11	08/18/11	1	0.133	6.59	ND		mg/Kg	406344	3432
Benzoic Acid	SW8270C	8/18/11	08/18/11	1	5.59	0.330	ND		mg/Kg	406344	3432
Bis(2-Chloroethoxy)methane	SW8270C	8/18/11	08/18/11	1	0.0584	0.330	ND		mg/Kg	406344	3432
2,4-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
1,2,4-Trichlorobenzene	SW8270C	8/18/11	08/18/11	1	0.0733	0.330	ND		mg/Kg	406344	3432
2,6-Dichlorophenol	SW8270C	8/18/11	08/18/11	1	0.104	0.330	ND		mg/Kg	406344	3432
Naphthalene	SW8270C	8/18/11	08/18/11	1	0.0901	0.330	ND		mg/Kg	406344	3432
4-Chloroaniline	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
Hexachloro-1,3-butadiene	SW8270C	8/18/11	08/18/11	1	0.0653	0.330	ND		mg/Kg	406344	3432
4-Chloro-3-methylphenol	SW8270C	8/18/11	08/18/11	1	0.102	0.330	ND		mg/Kg	406344	3432
2-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
1-Methylnaphthalene	SW8270C	8/18/11	08/18/11	1	0.0792	0.330	ND		mg/Kg	406344	3432
Hexachlorocyclopentadiene	SW8270C	8/18/11	08/18/11	1	0.0277	0.330	ND		mg/Kg	406344	3432
2,4,6-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.0950	0.330	ND		mg/Kg	406344	3432
2,4,5-Trichlorophenol	SW8270C	8/18/11	08/18/11	1	0.121	0.330	ND		mg/Kg	406344	3432
2-Chloronaphthalene	SW8270C	8/18/11	08/18/11	1	0.0594	3.27	ND		mg/Kg	406344	3432
2-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Dimethyl phthalate	SW8270C	8/18/11	08/18/11	1	0.118	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:**	08/11/11
		Date Reported:	08/19/11

Client Sample ID:	NG-13-5.0	**Lab Sample ID:**	1108085-044A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:20		
Tag Number:	800 Cedar St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.106	0.330	ND		mg/Kg	406344	3432
Acenaphthylene	SW8270C	8/18/11	08/18/11	1	0.0851	0.330	ND		mg/Kg	406344	3432
2,6-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
1,2-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.0858	0.330	ND		mg/Kg	406344	3432
3-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0693	0.330	ND		mg/Kg	406344	3432
Acenaphthene	SW8270C	8/18/11	08/18/11	1	0.0960	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrophenol	SW8270C	8/18/11	08/18/11	1	0.0297	3.27	ND		mg/Kg	406344	3432
4-Nitrophenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Dibenzofuran	SW8270C	8/18/11	08/18/11	1	0.0782	0.330	ND		mg/Kg	406344	3432
2,4-Dinitrotoluene	SW8270C	8/18/11	08/18/11	1	0.0267	0.330	ND		mg/Kg	406344	3432
2,3,5,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
2,3,4,6-Tetrachlorophenol	SW8270C	8/18/11	08/18/11	1	0.119	0.330	ND		mg/Kg	406344	3432
Diethylphthalate	SW8270C	8/18/11	08/18/11	1	0.117	0.330	ND		mg/Kg	406344	3432
Fluorene	SW8270C	8/18/11	08/18/11	1	0.0990	0.330	ND		mg/Kg	406344	3432
4-Chlorophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4-Nitroaniline	SW8270C	8/18/11	08/18/11	1	0.0802	0.330	ND		mg/Kg	406344	3432
4,6-Dinitro-2-methylphenol	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Diphenylamine	SW8270C	8/18/11	08/18/11	1	0.0663	0.330	ND		mg/Kg	406344	3432
Azobenzene	SW8270C	8/18/11	08/18/11	1	0.109	0.330	ND		mg/Kg	406344	3432
4-Bromophenyl phenyl ether	SW8270C	8/18/11	08/18/11	1	0.0812	3.27	ND		mg/Kg	406344	3432
Hexachlorobenzene	SW8270C	8/18/11	08/18/11	1	0.101	0.330	ND		mg/Kg	406344	3432
Pentachlorophenol	SW8270C	8/18/11	08/18/11	1	0.102	3.27	ND		mg/Kg	406344	3432
Phenanthrene	SW8270C	8/18/11	08/18/11	1	0.142	0.330	ND		mg/Kg	406344	3432
Anthracene	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Carbazole	SW8270C	8/18/11	08/18/11	1	0.132	0.330	ND		mg/Kg	406344	3432
Di-n-butylphthalate	SW8270C	8/18/11	08/18/11	1	0.108	1.68	ND		mg/Kg	406344	3432
Fluoranthene	SW8270C	8/18/11	08/18/11	1	0.132	0.653	ND		mg/Kg	406344	3432
Benzidine	SW8270C	8/18/11	08/18/11	1	0.374	3.27	ND		mg/Kg	406344	3432
Pyrene	SW8270C	8/18/11	08/18/11	1	0.147	0.330	ND		mg/Kg	406344	3432
Benzyl butyl phthalate	SW8270C	8/18/11	08/18/11	1	0.0891	0.330	ND		mg/Kg	406344	3432
Benz[a]anthracene	SW8270C	8/18/11	08/18/11	1	0.149	0.330	ND		mg/Kg	406344	3432
3,3'-Dichlorobenzidine	SW8270C	8/18/11	08/18/11	1	0.152	0.330	ND		mg/Kg	406344	3432
Chrysene	SW8270C	8/18/11	08/18/11	1	0.176	0.330	ND		mg/Kg	406344	3432
Bis(2-Ethylhexyl)phthalate	SW8270C	8/18/11	08/18/11	1	0.0832	0.330	ND		mg/Kg	406344	3432
Di-n-octyl phthalate	SW8270C	8/18/11	08/18/11	1	0.138	0.330	ND		mg/Kg	406344	3432
Benzo[b]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.133	0.330	ND		mg/Kg	406344	3432

SAMPLE RESULTS

Report prepared for:	Adam Klein Northgate Environmental Management Inc.	**Date Received:** **Date Reported:**	08/11/11 08/19/11

Client Sample ID:	NG-13-5.0	**Lab Sample ID:**	1108085-044A
Project Name/Location:	800 Cedar St. , Oakland, CA	**Sample Matrix:**	Soil
Project Number:	1204.18		
Date/Time Sampled:	08/11/11 / 12:20		
Tag Number:	800 Cedar St		

Parameters:	**Analysis Method**	**Prep Date**	**Date Analyzed**	**DF**	**MDL**	**PQL**	**Results**	**Lab Qualifier**	**Unit**	**Analytical Batch**	**Prep Batch**
Benzo[k]fluoranthene	SW8270C	8/18/11	08/18/11	1	0.169	0.330	ND		mg/Kg	406344	3432
Benzo[a]pyrene	SW8270C	8/18/11	08/18/11	1	0.135	0.330	ND		mg/Kg	406344	3432
Indeno[1,2,3-cd]pyrene	SW8270C	8/18/11	08/18/11	1	0.131	0.330	ND		mg/Kg	406344	3432
Dibenz[a,h]anthracene	SW8270C	8/18/11	08/18/11	1	0.151	0.330	ND		mg/Kg	406344	3432
Benzo[g,h,i]perylene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
1,4-Dinitrobenzene	SW8270C	8/18/11	08/18/11	1	0.150	0.330	ND		mg/Kg	406344	3432
2,4,6-Tribromophenol (S)	SW8270C	8/18/11	08/18/11	1	19	122	32.9		%	406344	3432
2-Fluorobiphenyl (S)	SW8270C	8/18/11	08/18/11	1	30	115	54.3		%	406344	3432
2-Fluorophenol (S)	SW8270C	8/18/11	08/18/11	1	25	121	40.6		%	406344	3432
Nitrobenzene-d5 (S)	SW8270C	8/18/11	08/18/11	1	23	120	54.3		%	406344	3432
Phenol-d6 (S)	SW8270C	8/18/11	08/18/11	1	24	113	40.8		%	406344	3432
p-Terphenyl-d14 (S)	SW8270C	8/18/11	08/18/11	1	18	137	95.8		%	406344	3432

MB Summary Report

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/15/11	**Prep Batch:**	3385
Matrix:	Soil	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/16/11	**Analytical Batch:**	406316
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Pyridine	0.660	0.653	ND	
N-Nitrosdimethylamine	0.110	0.330	ND	
Aniline	0.123	0.330	ND	
Phenol	0.129	0.330	ND	
Bis(2-chloroethyl) ether	0.0683	0.330	ND	
2-Chlorophenol	0.129	0.330	ND	
1,3-Dichlorobenzene	0.0733	0.330	ND	
1,4-Dichlorobenzene	0.0663	6.59	ND	
Benzyl Alcohol	0.104	0.330	ND	
1,2-Dichlorobenzene	0.0713	0.330	ND	
2-Methylphenol (o-Cresol)	0.116	0.330	ND	
Bis(2-chloroisopropyl)ether	0.0683	0.330	ND	
3-/4-Methylphenol (p-/m-Cresol)	0.139	0.330	ND	
N-nitroso-di-n-propylamine	0.0931	0.330	ND	
Hexachloroethane	0.0465	0.330	ND	
Nitrobenzene	0.0528	0.330	ND	
Isophorone	0.0574	0.653	ND	
2-Nitrophenol	0.0525	0.653	ND	
2,4-Dimethylphenol	0.133	6.59	ND	
Benzoic Acid	5.59	0.330	ND	
Bis(2-Chloroethoxy)methane	0.0584	0.330	ND	
2,4-Dichlorophenol	0.104	0.330	ND	
1,2,4-Trichlorobenzene	0.0733	0.330	ND	
2,6-Dichlorophenol	0.104	0.330	ND	
Naphthalene	0.0901	0.330	ND	
4-Chloroaniline	0.0990	0.330	ND	
Hexachloro-1,3-butadiene	0.0653	0.330	ND	
4-Chloro-3-methylphenol	0.102	0.330	ND	
2-Methylnaphthalene	0.0792	0.330	ND	
1-Methylnaphthalene	0.0792	0.330	ND	
Hexachlorocyclopentadiene	0.0277	0.330	ND	
2,4,6-Trichlorophenol	0.0950	0.330	ND	
2,4,5-Trichlorophenol	0.121	0.330	ND	
2-Chloronaphthalene	0.0594	3.27	ND	
2-Nitroaniline	0.0693	0.330	ND	
Dimethyl phthalate	0.118	0.330	ND	
1,3-Dinitrobenzene	0.106	0.330	ND	
Acenaphthylene	0.0851	0.330	ND	
2,6-Dinitrotoluene	0.0267	0.330	ND	
1,2-Dinitrobenzene	0.0858	0.330	ND	

MB Summary Report

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/15/11	**Prep Batch:**	3385
Matrix:	Soil	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/16/11	**Analytical Batch:**	406316
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Lab Qualifier**
3-Nitroaniline	0.0693	0.330	ND	
Acenaphthene	0.0960	0.330	ND	
2,4-Dinitrophenol	0.0297	3.27	ND	
4-Nitrophenol	0.0663	0.330	ND	
Dibenzofuran	0.0782	0.330	ND	
2,4-Dinitrotoluene	0.0267	0.330	ND	
2,3,5,6-Tetrachlorophenol	0.119	0.330	ND	
2,3,4,6-Tetrachlorophenol	0.119	0.330	ND	
Diethylphthalate	0.117	0.330	ND	
Fluorene	0.0990	0.330	ND	
4-Chlorophenyl phenyl ether	0.0802	0.330	ND	
4-Nitroaniline	0.0802	0.330	ND	
4,6-Dinitro-2-methylphenol	0.0663	0.330	ND	
Diphenylamine	0.0663	0.330	ND	
Azobenzene	0.109	0.330	ND	
4-Bromophenyl phenyl ether	0.0812	3.27	ND	
Hexachlorobenzene	0.101	0.330	ND	
Pentachlorophenol	0.102	3.27	ND	
Phenanthrene	0.142	0.330	ND	
Anthracene	0.132	0.330	ND	
Carbazole	0.132	0.330	ND	
Di-n-butylphthalate	0.108	1.68	ND	
Fluoranthene	0.132	0.653	ND	
Benzidine	0.374	3.27	ND	
Pyrene	0.147	0.330	ND	
Benzyl butyl phthalate	0.0891	0.330	ND	
Benz[a]anthracene	0.149	0.330	ND	
3,3'-Dichlorobenzidine	0.152	0.330	ND	
Chrysene	0.176	0.330	ND	
Bis(2-Ethylhexyl)phthalate	0.0832	0.330	ND	
Di-n-octyl phthalate	0.138	0.330	ND	
Benzo[b]fluoranthene	0.133	0.330	ND	
Benzo[k]fluoranthene	0.169	0.330	ND	
Benzo[a]pyrene	0.135	0.330	ND	
Indeno[1,2,3-cd]pyrene	0.131	0.330	ND	
Dibenz[a,h]anthracene	0.151	0.330	ND	
Benzo[g,h,i]perylene	0.150	0.330	ND	
1,4-Dinitrobenzene	0.150	0.330	ND	
2,4,6-Tribromophenol (S)			33.3	
2-Fluorobiphenyl (S)			46.7	
2-Fluorophenol (S)			59.8	

MB Summary Report

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/15/11	**Prep Batch:**	3385
Matrix:	Soil	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/16/11	**Analytical Batch:**	406316
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Nitrobenzene-d5 (S)			48.5	
Phenol-d6 (S)			60.6	
p-Terphenyl-d14 (S)			89.6	

Work Order:	1108085	**Prep Method:**	7471	**Prep Date:**	08/15/11	**Prep Batch:**	3393
Matrix:	Soil	**Analytical Method:**	7471AB	**Analyzed Date:**	08/16/11	**Analytical Batch:**	406270
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Mercury	0.01	0.10	ND	

MB Summary Report

Work Order:	1108085	**Prep Method:**	3545_TPHSG	**Prep Date:**	08/16/11	**Prep Batch:**	3403
Matrix:	Soil	**Analytical Method:**	SW8015B	**Analyzed Date:**	08/17/11	**Analytical Batch:**	406327
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Diesel Range Organics (DRO)	0.76	2.0	ND	
TPH as Bunker Oil	1.78	4.0	ND	
TPH as Fuel Oil	1.78	4.0	ND	
TPH as Diesel	0.758	2.0	0.86	
TPH as Heating Oil	3.30	4.0	ND	
TPH as Hydraulic Oil	1.78	4.0	ND	
TPH as Jet A	0.758	2.0	ND	
TPH as Jet Fuel	0.76	2.0	ND	
TPH as JP-4	0.758	2.0	ND	
TPH as JP-5	0.758	2.0	ND	
TPH as JP-7	0.758	2.0	ND	
TPH as JP-8	0.758	2.0	ND	
TPH as Kerosene	0.758	3.3	ND	
TPH as Mineral Oil	1.78	4.0	ND	
TPH as Motor Oil	1.8	4.0	2.2	
TPH as Naphtha	0.758	3.3	ND	
TPH as Oil	1.78	4.0	ND	
TPH as Stoddard	0.758	3.3	ND	
TPH as Transformer Oil	1.78	4.0	ND	
Creosote	0.758	3.3	ND	
Pentacosane (S)			77.6	

MB Summary Report

Work Order:	1108085	**Prep Method:**	3050	**Prep Date:**	08/16/11	**Prep Batch:**	3405
Matrix:	Soil	**Analytical Method:**	SW6010B	**Analyzed Date:**	08/17/11	**Analytical Batch:**	406288
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Antimony	0.20	5.0	0.30	
Arsenic	0.28	1.7	ND	
Barium	1	5.0	1.1	
Beryllium	0.0840	2.0	ND	
Cadmium	0.059	1.0	ND	
Chromium	0.059	5.0	0.35	
Cobalt	0.14	5.0	ND	
Copper	0.090	5.0	0.25	
Lead	0.043	1.0	0.25	
Molybdenum	0.059	5.0	0.060	
Nickel	0.059	5.0	0.12	
Selenium	0.29	5.0	ND	
Silver	1.0	1.0	ND	
Thallium	0.12	5.0	ND	
Vanadium	0.12	5.0	0.12	
Zinc	0.59	5.0	0.85	

Work Order:	1108085	**Prep Method:**	3050	**Prep Date:**	08/16/11	**Prep Batch:**	3407
Matrix:	Soil	**Analytical Method:**	SW6010B	**Analyzed Date:**	08/17/11	**Analytical Batch:**	406312
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Antimony	0.20	5.0	0.39	
Arsenic	0.28	1.7	ND	
Barium	1	5.0	1.1	
Beryllium	0.0840	2.0	ND	
Cadmium	0.059	1.0	ND	
Chromium	0.059	5.0	0.35	
Cobalt	0.14	5.0	ND	
Copper	0.090	5.0	0.22	
Lead	0.043	1.0	0.70	
Molybdenum	0.059	5.0	0.17	
Nickel	0.059	5.0	0.12	
Selenium	0.29	5.0	ND	
Silver	1.0	1.0	ND	
Thallium	0.12	5.0	0.24	
Vanadium	0.12	5.0	0.15	
Zinc	0.59	5.0	0.93	

MB Summary Report

Work Order:	1108085	**Prep Method:**	7471	**Prep Date:**	08/16/11	**Prep Batch:**	3410
Matrix:	Soil	**Analytical Method:**	7471AB	**Analyzed Date:**	08/17/11	**Analytical Batch:**	406292
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Mercury	0.01	0.10	ND	

Work Order:	1108085	**Prep Method:**	3545_TPH	**Prep Date:**	08/18/11	**Prep Batch:**	3429
Matrix:	Soil	**Analytical Method:**	SW8015B(M)	**Analyzed Date:**	08/19/11	**Analytical Batch:**	406342
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel (SG)	0.76	2.0	ND	
TPH as Motor Oil (SG)	1.8	4.0	3.0	
Pentacosane (S)			103	

MB Summary Report

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/18/11	**Prep Batch:**	3432
Matrix:	Soil	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/18/11	**Analytical Batch:**	406344
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Pyridine	0.660	0.653	ND	
N-Nitrosdimethylamine	0.110	0.330	ND	
Aniline	0.123	0.330	ND	
Phenol	0.129	0.330	ND	
Bis(2-chloroethyl) ether	0.0683	0.330	ND	
2-Chlorophenol	0.129	0.330	ND	
1,3-Dichlorobenzene	0.0733	0.330	ND	
1,4-Dichlorobenzene	0.0663	6.59	ND	
Benzyl Alcohol	0.104	0.330	ND	
1,2-Dichlorobenzene	0.0713	0.330	ND	
2-Methylphenol (o-Cresol)	0.116	0.330	ND	
Bis(2-chloroisopropyl)ether	0.0683	0.330	ND	
3-/4-Methylphenol (p-/m-Cresol)	0.139	0.330	ND	
N-nitroso-di-n-propylamine	0.0931	0.330	ND	
Hexachloroethane	0.0465	0.330	ND	
Nitrobenzene	0.0528	0.330	ND	
Isophorone	0.0574	0.653	ND	
2-Nitrophenol	0.0525	0.653	ND	
2,4-Dimethylphenol	0.133	6.59	ND	
Benzoic Acid	5.59	0.330	ND	
Bis(2-Chloroethoxy)methane	0.0584	0.330	ND	
2,4-Dichlorophenol	0.104	0.330	ND	
1,2,4-Trichlorobenzene	0.0733	0.330	ND	
2,6-Dichlorophenol	0.104	0.330	ND	
Naphthalene	0.0901	0.330	ND	
4-Chloroaniline	0.0990	0.330	ND	
Hexachloro-1,3-butadiene	0.0653	0.330	ND	
4-Chloro-3-methylphenol	0.102	0.330	ND	
2-Methylnaphthalene	0.0792	0.330	ND	
1-Methylnaphthalene	0.0792	0.330	ND	
Hexachlorocyclopentadiene	0.0277	0.330	ND	
2,4,6-Trichlorophenol	0.0950	0.330	ND	
2,4,5-Trichlorophenol	0.121	0.330	ND	
2-Chloronaphthalene	0.0594	3.27	ND	
2-Nitroaniline	0.0693	0.330	ND	
Dimethyl phthalate	0.118	0.330	ND	
1,3-Dinitrobenzene	0.106	0.330	ND	
Acenaphthylene	0.0851	0.330	ND	
2,6-Dinitrotoluene	0.0267	0.330	ND	
1,2-Dinitrobenzene	0.0858	0.330	ND	
3-Nitroaniline	0.0693	0.330	ND	

MB Summary Report

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/18/11	**Prep Batch:**	3432
Matrix:	Soil	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/18/11	**Analytical Batch:**	406344
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Lab Qualifier**
Acenaphthene	0.0960	0.330	ND	
2,4-Dinitrophenol	0.0297	3.27	ND	
4-Nitrophenol	0.0663	0.330	ND	
Dibenzofuran	0.0782	0.330	ND	
2,4-Dinitrotoluene	0.0267	0.330	ND	
2,3,5,6-Tetrachlorophenol	0.119	0.330	ND	
2,3,4,6-Tetrachlorophenol	0.119	0.330	ND	
Diethylphthalate	0.117	0.330	ND	
Fluorene	0.0990	0.330	ND	
4-Chlorophenyl phenyl ether	0.0802	0.330	ND	
4-Nitroaniline	0.0802	0.330	ND	
4,6-Dinitro-2-methylphenol	0.0663	0.330	ND	
Diphenylamine	0.0663	0.330	ND	
Azobenzene	0.109	0.330	ND	
4-Bromophenyl phenyl ether	0.0812	3.27	ND	
Hexachlorobenzene	0.101	0.330	ND	
Pentachlorophenol	0.102	3.27	ND	
Phenanthrene	0.142	0.330	ND	
Anthracene	0.132	0.330	ND	
Carbazole	0.132	0.330	ND	
Di-n-butylphthalate	0.108	1.68	ND	
Fluoranthene	0.132	0.653	ND	
Benzidine	0.374	3.27	ND	
Pyrene	0.147	0.330	ND	
Benzyl butyl phthalate	0.0891	0.330	ND	
Benz[a]anthracene	0.149	0.330	ND	
3,3'-Dichlorobenzidine	0.152	0.330	ND	
Chrysene	0.176	0.330	ND	
Bis(2-Ethylhexyl)phthalate	0.0832	0.330	ND	
Di-n-octyl phthalate	0.138	0.330	ND	
Benzo[b]fluoranthene	0.133	0.330	ND	
Benzo[k]fluoranthene	0.169	0.330	ND	
Benzo[a]pyrene	0.135	0.330	ND	
Indeno[1,2,3-cd]pyrene	0.131	0.330	ND	
Dibenz[a,h]anthracene	0.151	0.330	ND	
Benzo[g,h,i]perylene	0.150	0.330	ND	
1,4-Dinitrobenzene	0.150	0.330	ND	
2,4,6-Tribromophenol (S)			48.4	
2-Fluorobiphenyl (S)			55.0	
2-Fluorophenol (S)			91.6	
Nitrobenzene-d5 (S)			60.3	

MB Summary Report

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/18/11	**Prep Batch:**	3432
Matrix:	Soil	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/18/11	**Analytical Batch:**	406344
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Phenol-d6 (S)			76.4	
p-Terphenyl-d14 (S)			135	

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MB Summary Report

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/18/11	**Prep Batch:**	3432
Matrix:	Soil	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/21/11	**Analytical Batch:**	406352
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Pyridine	0.670	0.663	ND	
N-Nitrosdimethylamine	0.112	0.335	ND	
Aniline	0.125	0.335	ND	
Phenol	0.131	0.335	ND	
Bis(2-chloroethyl) ether	0.0693	0.335	ND	
2-Chlorophenol	0.131	0.335	ND	
1,3-Dichlorobenzene	0.0744	0.335	ND	
1,4-Dichlorobenzene	0.0673	6.69	ND	
Benzyl Alcohol	0.106	0.335	ND	
1,2-Dichlorobenzene	0.0724	0.335	ND	
2-Methylphenol (o-Cresol)	0.118	0.335	ND	
Bis(2-chloroisopropyl)ether	0.0693	0.335	ND	
3-/4-Methylphenol (p-/m-Cresol)	0.141	0.335	ND	
N-nitroso-di-n-propylamine	0.0945	0.335	ND	
Hexachloroethane	0.0472	0.335	ND	
Nitrobenzene	0.0536	0.335	ND	
Isophorone	0.0583	0.663	ND	
2-Nitrophenol	0.0533	0.663	ND	
2,4-Dimethylphenol	0.135	6.69	ND	
Benzoic Acid	5.68	0.335	ND	
Bis(2-Chloroethoxy)methane	0.0593	0.335	ND	
2,4-Dichlorophenol	0.106	0.335	ND	
1,2,4-Trichlorobenzene	0.0744	0.335	ND	
2,6-Dichlorophenol	0.106	0.335	ND	
Naphthalene	0.0915	0.335	ND	
4-Chloroaniline	0.101	0.335	ND	
Hexachloro-1,3-butadiene	0.0663	0.335	ND	
4-Chloro-3-methylphenol	0.104	0.335	ND	
2-Methylnaphthalene	0.0804	0.335	ND	
1-Methylnaphthalene	0.0804	0.335	ND	
Hexachlorocyclopentadiene	0.0281	0.335	ND	
2,4,6-Trichlorophenol	0.0965	0.335	ND	
2,4,5-Trichlorophenol	0.123	0.335	ND	
2-Chloronaphthalene	0.0603	3.32	ND	
2-Nitroaniline	0.0704	0.335	ND	
Dimethyl phthalate	0.120	0.335	0.47	B
1,3-Dinitrobenzene	0.107	0.335	ND	
Acenaphthylene	0.0864	0.335	ND	
2,6-Dinitrotoluene	0.0271	0.335	ND	
1,2-Dinitrobenzene	0.0871	0.335	ND	
3-Nitroaniline	0.0704	0.335	ND	

MB Summary Report

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/18/11	**Prep Batch:**	3432
Matrix:	Soil	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/21/11	**Analytical Batch:**	406352
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Acenaphthene	0.0975	0.335	ND		
2,4-Dinitrophenol	0.0302	3.32	ND		
4-Nitrophenol	0.0673	0.335	ND		
Dibenzofuran	0.0794	0.335	ND		
2,4-Dinitrotoluene	0.0271	0.335	ND		
2,3,5,6-Tetrachlorophenol	0.121	0.335	ND		
2,3,4,6-Tetrachlorophenol	0.121	0.335	ND		
Diethylphthalate	0.119	0.335	0.28		
Fluorene	0.101	0.335	ND		
4-Chlorophenyl phenyl ether	0.0814	0.335	ND		
4-Nitroaniline	0.0814	0.335	ND		
4,6-Dinitro-2-methylphenol	0.0673	0.335	ND		
Diphenylamine	0.0673	0.335	ND		
Azobenzene	0.111	0.335	ND		
4-Bromophenyl phenyl ether	0.0824	3.32	ND		
Hexachlorobenzene	0.103	0.335	ND		
Pentachlorophenol	0.104	3.32	ND		
Phenanthrene	0.144	0.335	ND		
Anthracene	0.134	0.335	ND		
Carbazole	0.134	0.335	ND		
Di-n-butylphthalate	0.110	1.71	ND		
Fluoranthene	0.134	0.663	ND		
Benzidine	0.380	3.32	ND		
Pyrene	0.149	0.335	ND		
Benzyl butyl phthalate	0.0905	0.335	ND		
Benz[a]anthracene	0.152	0.335	ND		
3,3'-Dichlorobenzidine	0.155	0.335	ND		
Chrysene	0.179	0.335	ND		
Bis(2-Ethylhexyl)phthalate	0.0844	0.335	ND		
Di-n-octyl phthalate	0.140	0.335	ND		
Benzo[b]fluoranthene	0.135	0.335	ND		
Benzo[k]fluoranthene	0.172	0.335	ND		
Benzo[a]pyrene	0.137	0.335	ND		
Indeno[1,2,3-cd]pyrene	0.133	0.335	ND		
Dibenz[a,h]anthracene	0.154	0.335	ND		
Benzo[g,h,i]perylene	0.153	0.335	ND		
1,4-Dinitrobenzene	0.153	0.335	ND		
2,4,6-Tribromophenol (S)			23.9		
2-Fluorobiphenyl (S)			40.7		
2-Fluorophenol (S)			35.2		
Nitrobenzene-d5 (S)			41.0		

MB Summary Report

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/18/11	**Prep Batch:**	3432
Matrix:	Soil	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/21/11	**Analytical Batch:**	406352
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Lab Qualifier**
Phenol-d6 (S)			35.4	
p-Terphenyl-d14 (S)			99.5	

Work Order:	1108085	**Prep Method:**	7471	**Prep Date:**	08/22/11	**Prep Batch:**	3453
Matrix:	Soil	**Analytical Method:**	7471AB	**Analyzed Date:**	08/23/11	**Analytical Batch:**	406366
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Lab Qualifier**
Mercury	0.01	0.10	ND	

Work Order:	1108085	**Prep Method:**	3050	**Prep Date:**	08/22/11	**Prep Batch:**	3460
Matrix:	Soil	**Analytical Method:**	SW6010B	**Analyzed Date:**	08/23/11	**Analytical Batch:**	406377
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Lab Qualifier**
Antimony	0.20	5.0	ND	
Arsenic	0.28	1.7	ND	
Barium	1	5.0	ND	
Beryllium	0.0840	2.0	ND	
Cadmium	0.059	1.0	ND	
Chromium	0.059	5.0	0.16	
Cobalt	0.14	5.0	ND	
Copper	0.090	5.0	1.5	
Lead	0.043	1.0	ND	
Molybdenum	0.059	5.0	0.21	
Nickel	0.059	5.0	0.12	
Selenium	0.29	5.0	ND	
Silver	1.0	1.0	ND	
Thallium	0.12	5.0	0.25	
Vanadium	0.12	5.0	ND	
Zinc	0.59	5.0	ND	

MB Summary Report

Work Order:	1108085	**Prep Method:**	WET/3010B	**Prep Date:**	08/24/11	**Prep Batch:**	3488
Matrix:	Soil	**Analytical Method:**	SW6010B	**Analyzed Date:**	08/25/11	**Analytical Batch:**	406420
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Lab Qualifier**	
Lead (STLC)	0.0500	0.10	ND		

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/15/11	**Prep Batch:**	3385
Matrix:	Soil	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/16/11	**Analytical Batch:**	406316
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Spike Conc.**	**LCS % Recovery**	**LCSD % Recovery**	**LCS/LCSD % RPD**	**% Recovery Limits**	**% RPD Limits**	**Lab Qualifier**
Phenol	0.129	0.33	ND	1.667	40.3	49.5	20.3	16 - 98.6	30	
2-Chlorophenol	0.129	0.33	ND	1.667	36.9	44.8	19.2	12.9 - 91.3	30	
1,4-Dichlorobenzene	0.0663	0.33	ND	0.833	40.9	49.8	19.6	21.9 - 79.8	30	
N-nitroso-di-n-propylamine	0.0931	0.33	ND	1.667	41.3	50.8	20.9	15.5 - 116	30	
1,2,4-Trichlorobenzene	0.0733	0.33	ND	0.833	35.7	46.3	25.7	31.7 - 85.1	30	
4-Chloro-3-methylphenol	0.102	0.33	ND	1.667	32.7	39.0	17.8	23.8 - 116	30	
Acenaphthene	0.0964	0.33	ND	0.833	38.1	47.3	21.8	29.1 - 94.8	30	
4-Nitrophenol	0.0663	0.33	ND	1.667	56.0	60.9	7.93	10.4 - 131	30	
2,4-Dinitrotoluene	0.0267	0.33	ND	0.833	48.9	60.0	20.4	30.8 - 124	30	
Pentachlorophenol	0.102	0.33	ND	1.667	50.9	58.7	13.8	19.9 - 133	30	
Pyrene	0.147	0.33	ND	0.833	59.5	70.5	16.8	34.2 - 127	30	
Phenol-d6 (S)			ND	50	54.0	64.1		24 - 113		
2-Fluorophenol (S)			ND	50	40.6	50.0		25 - 121		
2,4,6-Tribromophenol (S)			ND	50	48.3	57.3		19 - 122		
Nitrobenzene-d5 (S)			ND	25	44.5	53.2		23 - 120		
2-Fluorobiphenyl (S)			ND	25	42.2	53.5		30 - 115		
p-Terphenyl-d14 (S)			ND	25	47.4	53.4		18 - 137		

Work Order:	1108085	**Prep Method:**	7471	**Prep Date:**	08/15/11	**Prep Batch:**	3393
Matrix:	Soil	**Analytical Method:**	7471B	**Analyzed Date:**	08/16/11	**Analytical Batch:**	406270
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Spike Conc.**	**LCS % Recovery**	**LCSD % Recovery**	**LCS/LCSD % RPD**	**% Recovery Limits**	**% RPD Limits**	**Lab Qualifier**
Mercury	0.01	0.10	ND	1.25	109	116	6.58	80.5 - 133	0,	

Work Order:	1108085	**Prep Method:**	3545_TPHSG	**Prep Date:**	08/16/11	**Prep Batch:**	3403
Matrix:	Soil	**Analytical Method:**	SW8015B	**Analyzed Date:**	08/17/11	**Analytical Batch:**	406327
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Spike Conc.**	**LCS % Recovery**	**LCSD % Recovery**	**LCS/LCSD % RPD**	**% Recovery Limits**	**% RPD Limits**	**Lab Qualifier**
TPH as Diesel	0.76	2.0	ND	33.33	85.1	70.4	18.9	50.8 - 111	30	
Pentacosane (S)			ND	100	98.8	85.3		61.5 - 133		

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1108085	**Prep Method:**	3050	**Prep Date:**	08/16/11	**Prep Batch:**	3405
Matrix:	Soil	**Analytical Method:**	SW6010B	**Analyzed Date:**	08/17/11	**Analytical Batch:**	406288
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.2	5	0.30	50	97.13	98.9	1.79	30.7 - 130	30	
Arsenic	0.28	1.7	ND	50	96.33	97.9	1.66	71 - 121	30	
Barium	1.1	5	1.1	50	103.4	98.4	4.59	70.2 - 130	30	
Beryllium	0.084	2	ND	50	98.33	94.8	3.66	73.3 - 115	30	
Cadmium	0.059	1	ND	50	99.51	94.3	5.40	68.7 - 110	30	
Chromium	0.059	5	0.35	50	104.2	99.2	4.69	76 - 116	30	
Cobalt	0.14	5	ND	50	101.8	96.3	5.72	57.4 - 122	30	
Copper	0.09	5	0.25	50	104.2	99.3	4.58	74.8 - 119	30	
Lead	0.13	1	0.25	50	97.89	98.9	0.996	67.9 - 118	30	
Molybdenum	0.059	5	0.060	50	98.92	100	1.51	62.9 - 123	30	
Nickel	0.059	5	0.12	50	101.7	96.6	5.44	61.5 - 122	30	
Selenium	0.29	5	ND	50	91.96	94.4	2.56	62 - 111	30	
Silver	1	1	ND	50	98.56	94.4	4.38	81.1 - 109	30	
Thallium	0.12	5	ND	50	92.93	94.3	1.50	39.2 - 125	30	
Vanadium	0.12	5	0.12	50	103.9	98.5	5.40	65.8 - 122	30	
Zinc	0.59	5	0.85	50	100	94.8	5.37	59.9 - 122	30	

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1108085	**Prep Method:**	3050	**Prep Date:**	08/16/11	**Prep Batch:**	3407
Matrix:	Soil	**Analytical Method:**	SW6010B	**Analyzed Date:**	08/17/11	**Analytical Batch:**	406312
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Spike Conc.**	**LCS % Recovery**	**LCSD % Recovery**	**LCS/LCSD % RPD**	**% Recovery Limits**	**% RPD Limits**	**Lab Qualifier**
Antimony	0.20	5.0	0.39	50	98.2	97.6	0.664	30.7 - 130	30	
Arsenic	0.28	1.7	ND	50	96.6	96.7	0.124	71 - 121	30	
Barium	1	5.0	1.1	50	101	102	0.789	70.2 - 130	30	
Beryllium	0.0840	2.0	ND	50	103	98.3	4.67	73.3 - 115	30	
Cadmium	0.059	1.0	ND	50	96.1	97.8	1.72	68.7 - 110	30	
Chromium	0.059	5.0	0.35	50	100	101	1.39	76 - 116	30	
Cobalt	0.14	5.0	ND	50	99.3	100	0.902	57.4 - 122	30	
Copper	0.090	5.0	0.22	50	99.8	101	1.59	74.8 - 119	30	
Lead	0.13	1.0	0.70	50	98.5	97.3	1.26	67.9 - 118	30	
Molybdenum	0.059	5.0	0.17	50	101	99.6	1.36	62.9 - 123	30	
Nickel	0.059	5.0	0.12	50	97.6	99.7	2.08	61.5 - 122	30	
Selenium	0.29	5.0	ND	50	93.9	92.7	1.34	62 - 111	30	
Silver	1.0	1.0	ND	50	94.7	95.6	0.894	81.1 - 109	30	
Thallium	0.12	5.0	0.24	50	95.0	94.8	0.242	39.2 - 125	30	
Vanadium	0.12	5.0	0.15	50	101	102	1.38	65.8 - 122	30	
Zinc	0.59	5.0	0.93	50	97.5	98.5	0.980	59.9 - 122	30	

Work Order:	1108085	**Prep Method:**	7471	**Prep Date:**	08/16/11	**Prep Batch:**	3410
Matrix:	Soil	**Analytical Method:**	7471B	**Analyzed Date:**	08/17/11	**Analytical Batch:**	406292
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Spike Conc.**	**LCS % Recovery**	**LCSD % Recovery**	**LCS/LCSD % RPD**	**% Recovery Limits**	**% RPD Limits**	**Lab Qualifier**
Mercury	0.01	0.10	ND	1.25	116	109	6.41	80.5 - 133	0,	

Work Order:	1108085	**Prep Method:**	3545_TPH	**Prep Date:**	08/18/11	**Prep Batch:**	3429
Matrix:	Soil	**Analytical Method:**	SW8015B(M)	**Analyzed Date:**	08/19/11	**Analytical Batch:**	406342
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Spike Conc.**	**LCS % Recovery**	**LCSD % Recovery**	**LCS/LCSD % RPD**	**% Recovery Limits**	**% RPD Limits**	**Lab Qualifier**
TPH as Diesel (SG)	0.76	2.0	ND	33.33	101	106	5.10	50.8 - 111	30	
Pentacosane (S)			3.0	100	113	119		61.5 - 133		

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/18/11	**Prep Batch:**	3432
Matrix:	Soil	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/18/11	**Analytical Batch:**	406344
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Phenol	0.129	0.33	ND	1.667	48.0	48.4	0.951	16 - 98.6	30	
2-Chlorophenol	0.129	0.33	ND	1.667	46.0	45.6	0.981	12.9 - 91.3	30	
1,4-Dichlorobenzene	0.0663	0.33	ND	0.833	53.6	53.6	0.0281	21.9 - 79.8	30	
N-nitroso-di-n-propylamine	0.0931	0.33	ND	1.667	46.4	46.2	0.226	15.5 - 116	30	
1,2,4-Trichlorobenzene	0.0733	0.33	ND	0.833	46.4	47.0	1.13	31.7 - 85.1	30	
4-Chloro-3-methylphenol	0.102	0.33	ND	1.667	37.2	37.7	1.49	23.8 - 116	30	
Acenaphthene	0.0964	0.33	ND	0.833	47.9	46.5	2.82	29.1 - 94.8	30	
4-Nitrophenol	0.0663	0.33	ND	1.667	62.0	60.4	2.83	10.4 - 131	30	
2,4-Dinitrotoluene	0.0267	0.33	ND	0.833	67.5	65.4	3.20	30.8 - 124	30	
Pentachlorophenol	0.102	0.33	ND	1.667	66.8	62.4	7.05	19.9 - 133	30	
Pyrene	0.147	0.33	ND	0.833	93.2	90.1	3.73	34.2 - 127	30	
Phenol-d6 (S)			ND	50	60.7	60.4		24 - 113		
2-Fluorophenol (S)			ND	50	50.9	52.4		25 - 121		
2,4,6-Tribromophenol (S)			ND	50	53.2	52.7		19 - 122		
Nitrobenzene-d5 (S)			ND	25	51.6	54.0		23 - 120		
2-Fluorobiphenyl (S)			ND	25	50.2	51.2		30 - 115		
p-Terphenyl-d14 (S)			ND	25	88.6	88.5		18 - 137		

Work Order:	1108085	**Prep Method:**	7471	**Prep Date:**	08/22/11	**Prep Batch:**	3453
Matrix:	Soil	**Analytical Method:**	7471B	**Analyzed Date:**	08/23/11	**Analytical Batch:**	406366
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.01	0.10	ND	1.25	115	113	1.58	80.5 - 133	0,	

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1108085	**Prep Method:**	3050	**Prep Date:**	08/22/11	**Prep Batch:**	3460
Matrix:	Soil	**Analytical Method:**	SW6010B	**Analyzed Date:**	08/23/11	**Analytical Batch:**	406377
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Spike Conc.**	**LCS % Recovery**	**LCSD % Recovery**	**LCS/LCSD % RPD**	**% Recovery Limits**	**% RPD Limits**	**Lab Qualifier**
Antimony	0.20	5.0	ND	50	97.3	99.0	1.71	30.7 - 130	30	
Arsenic	0.28	1.7	ND	50	96.5	99.5	3.01	71 - 121	30	
Barium	1	5.0	ND	50	103	108	4.65	70.2 - 130	30	
Beryllium	0.0840	2.0	ND	50	102	103	0.976	73.3 - 115	30	
Cadmium	0.059	1.0	ND	50	94.3	99.5	5.34	68.7 - 110	30	
Chromium	0.059	5.0	0.16	50	103	107	4.18	76 - 116	30	
Cobalt	0.14	5.0	ND	50	101	107	5.58	57.4 - 122	30	
Copper	0.090	5.0	1.5	50	104	109	4.79	74.8 - 119	30	
Lead	0.13	1.0	ND	50	99.0	100	1.40	67.9 - 118	30	
Molybdenum	0.059	5.0	0.21	50	103	109	5.66	62.9 - 123	30	
Nickel	0.059	5.0	0.12	50	101	106	4.55	61.5 - 122	30	
Selenium	0.29	5.0	ND	50	91.6	94.1	2.64	62 - 111	30	
Silver	1.0	1.0	ND	50	95.5	101	5.10	81.1 - 109	30	
Thallium	0.12	5.0	0.25	50	96.0	97.7	1.76	39.2 - 125	30	
Vanadium	0.12	5.0	ND	50	102	108	5.25	65.8 - 122	30	
Zinc	0.59	5.0	ND	50	96.3	99.5	3.24	59.9 - 122	30	

Work Order:	1108085	**Prep Method:**	WET/3010B	**Prep Date:**	08/24/11	**Prep Batch:**	3488
Matrix:	Soil	**Analytical Method:**	SW6010B	**Analyzed Date:**	08/25/11	**Analytical Batch:**	406420
Units:	mg/L						

Parameters	**MDL**	**PQL**	**Method Blank Conc.**	**Spike Conc.**	**LCS % Recovery**	**LCSD % Recovery**	**LCS/LCSD % RPD**	**% Recovery Limits**	**% RPD Limits**	**Lab Qualifier**
Lead (STLC)	0.0500	0.10	ND	10	89.6	87.4	2.54	80 - 120	20	

MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1108085	**Prep Method:**	7471	**Prep Date:**	08/16/11	**Prep Batch:**	3410
Matrix:	**Soil**	**Analytical Method:**	7471B	**Analyzed Date:**	08/17/11	**Analytical Batch:**	406292
Spiked Sample:	1108085-008A						
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Sample Conc.**	**Spike Conc.**	**MS % Recovery**	**MSD % Recovery**	**MS/MSD % RPD**	**% Recovery Limits**	**% RPD Limits**	**Lab Qualifier**
Mercury	0.01	0.10	0.00357	1.25	71.7	98.4	24.5	60 - 140	30	

Work Order:	1108085	**Prep Method:**	3050	**Prep Date:**	08/16/11	**Prep Batch:**	3407
Matrix:	**Soil**	**Analytical Method:**	SW6010B	**Analyzed Date:**	08/17/11	**Analytical Batch:**	406312
Spiked Sample:	1108085-015A						
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Sample Conc.**	**Spike Conc.**	**MS % Recovery**	**MSD % Recovery**	**MS/MSD % RPD**	**% Recovery Limits**	**% RPD Limits**	**Lab Qualifier**
Antimony	0.20	5.0	0.00	50	96.1	98.0	1.92	30.7 - 130	30	
Arsenic	0.28	1.7	0.071	50	98.2	97.7	0.191	71 - 121	30	
Barium	1	5.0	2.0	50	44.6	143	33.3	70.2 - 130	30	S,R
Beryllium	0.0840	2.0	0.00	50	94.6	91.2	4.07	73.3 - 115	30	
Cadmium	0.059	1.0	0.00	50	100	100	0.300	68.7 - 110	30	
Chromium	0.059	5.0	0.78	50	97.8	107	4.72	76 - 116	30	
Cobalt	0.14	5.0	0.13	50	95.6	98.7	2.45	57.4 - 122	30	
Copper	0.090	5.0	0.79	50	80.4	160	40.0	74.8 - 119	30	S,R
Lead	0.13	1.0	10	50	-135	432	49.3	67.9 - 118	30	NR
Molybdenum	0.059	5.0	0.00	50	98.1	96.8	1.38	62.9 - 123	30	
Nickel	0.059	5.0	0.66	50	100	106	3.26	61.5 - 122	30	
Selenium	0.29	5.0	0.00	50	94.4	94.7	0.264	62 - 111	30	
Silver	1.0	1.0	0.00	50	103	101	1.86	81.1 - 109	30	
Thallium	0.12	5.0	0.00	50	83.7	84.2	0.631	39.2 - 125	30	
Vanadium	0.12	5.0	0.50	50	105	104	0.388	65.8 - 122	30	
Zinc	0.59	5.0	3.9	50	-122	349	93.5	59.9 - 122	30	S,R

MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/15/11	**Prep Batch:**	3385
Matrix:	**Soil**	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/16/11	**Analytical Batch:**	406316
Spiked Sample:	1108085-020A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Phenol	0.129	0.33	0.000	1.667	41.8	32.2	26.4	16 - 98.6	30	
2-Chlorophenol	0.129	0.33	0.000	1.667	52.1	45.6	13.5	12.9 - 91.3	30	
1,4-Dichlorobenzene	0.0663	0.33	0.000	0.833	63.7	64.6	1.27	21.9 - 79.8	30	
N-Nitroso-di-n-propylamine	0.0931	0.33	0.000	1.667	28.9	25.0	14.8	15.5 - 116	30	
1,2,4-Trichlorobenzene	0.0733	0.33	0.000	0.833	67.0	59.8	11.3	31.7 - 85.1	30	
4-Chloro-3-methylphenol	0.102	0.33	0.000	1.667	32.6	28.7	12.6	23.8 - 116	30	
Acenaphthene	0.0964	0.33	0.000	0.833	79.7	68.2	16.0	29.1 - 94.8	30	
4-Nitrophenol	0.0663	0.33	0.000	1.667	71.8	69.0	3.81	10.4 - 131	30	
2,4-Dinitrotoluene	0.0267	0.33	0.000	0.833	61.9	53.5	14.4	30.8 - 124	30	
Pentachlorophenol	0.102	0.33	0.000	1.667	76.4	69.4	9.55	19.9 - 133	30	
Pyrene	0.147	0.33	0.000	0.833	145	130	11.0	34.2 - 127	30	S
Phenol-d6 (S)				50	52.1	43.8		24 - 113		
2-Fluorophenol (S)				50	30.4	29.7		25 - 121		
2,4,6-Tribromophenol (S)				50	52.6	53.3		19 - 122		
Nitrobenzene-d5 (S)				25	70.7	65.5		23 - 120		
2-Fluorobiphenyl (S)				25	77.9	69.6		30 - 115		
p-Terphenyl-d14 (S)				25	92.2	90.0		18 - 137		

MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1108085	**Prep Method:**	3545_BNA	**Prep Date:**	08/18/11	**Prep Batch:**	3432
Matrix:	**Soil**	**Analytical Method:**	SW8270C	**Analyzed Date:**	08/18/11	**Analytical Batch:**	406344
Spiked Sample:	1108085-028A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Phenol	0.131	0.33	0.000	1.667	48.4	47.4	1.83	16 - 98.6	30	
2-Chlorophenol	0.131	0.33	0.000	1.667	53.1	52.4	1.23	12.9 - 91.3	30	
1,4-Dichlorobenzene	0.0673	0.33	0.000	0.833	57.1	55.2	3.36	21.9 - 79.8	30	
N-Nitroso-di-n-propylamine	0.0945	0.33	0.000	1.667	21.8	20.4	6.41	15.5 - 116	30	
1,2,4-Trichlorobenzene	0.0744	0.33	0.000	0.833	54.6	49.8	9.27	31.7 - 85.1	30	
4-Chloro-3-methylphenol	0.104	0.33	0.000	1.667	44.4	48.7	9.61	23.8 - 116	30	
Acenaphthene	0.0978	0.33	0.000	0.833	62.8	64.8	3.08	29.1 - 94.8	30	
4-Nitrophenol	0.0673	0.33	0.000	1.667	60.7	73.9	19.6	10.4 - 131	30	
2,4-Dinitrotoluene	0.0271	0.33	0.000	0.833	38.3	53.0	32.0	30.8 - 124	30	
Pentachlorophenol	0.104	0.33	0.000	1.667	76.0	92.6	19.7	19.9 - 133	30	
Pyrene	0.149	0.33	0.000	0.833	208	208	0.419	34.2 - 127	30	S
Phenol-d6 (S)				50	66.0	41.1		24 - 113		
2-Fluorophenol (S)				50	58.0	37.5		25 - 121		
2,4,6-Tribromophenol (S)				50	56.5	49.6		19 - 122		
Nitrobenzene-d5 (S)				25	52.1	46.7		23 - 120		
2-Fluorobiphenyl (S)				25	56.6	54.0		30 - 115		
p-Terphenyl-d14 (S)				25	97.9	84.6		18 - 137		

Work Order:	1108085	**Prep Method:**	3545_TPHSG	**Prep Date:**	08/16/11	**Prep Batch:**	3403
Matrix:	**Soil**	**Analytical Method:**	SW8015B(M)	**Analyzed Date:**	08/19/11	**Analytical Batch:**	406345
Spiked Sample:	1108085-002A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel (SG)	0.76	2.0	20.407	33.33	71.5	72.2	0.958	50.8 - 111	30	
Pentacosane (S)				100	81.7	87.3		61.5 - 133		

Work Order:	1108085	**Prep Method:**	7471	**Prep Date:**	08/22/11	**Prep Batch:**	3453
Matrix:	**Soil**	**Analytical Method:**	7471B	**Analyzed Date:**	08/23/11	**Analytical Batch:**	406366
Spiked Sample:	1108085-002A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.01	0.10	0.00053	1.25	108	108	0.120	60 - 140	30	

MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1108085	**Prep Method:**	3050	**Prep Date:**	08/22/11	**Prep Batch:**	3460
Matrix:	**Soil**	**Analytical Method:**	SW6010B	**Analyzed Date:**	08/23/11	**Analytical Batch:**	406377
Spiked Sample:	1108085-002A						
Units:	mg/Kg						

Parameters	**MDL**	**PQL**	**Sample Conc.**	**Spike Conc.**	**MS % Recovery**	**MSD % Recovery**	**MS/MSD % RPD**	**% Recovery Limits**	**% RPD Limits**	**Lab Qualifier**
Antimony	0.20	5.0	0.100	50	92.8	92.4	0.584	30.7 - 130	30	
Arsenic	0.28	1.7	1.3	50	85.8	84.2	0.837	71 - 121	30	
Barium	1	5.0	3.4	50	-61.2	-27.6	11.3	70.2 - 130	30	S
Beryllium	0.0840	2.0	-0.015	50	98.3	97.2	0.861	73.3 - 115	30	
Cadmium	0.059	1.0	0.034	50	96.8	94.3	2.34	68.7 - 110	30	
Chromium	0.059	5.0	0.42	50	105	100	3.46	76 - 116	30	
Cobalt	0.14	5.0	0.096	50	97.9	95.9	2.34	57.4 - 122	30	
Copper	0.090	5.0	0.46	50	96.8	89.8	5.16	74.8 - 119	30	
Lead	0.13	1.0	0.44	50	81.5	81.3	0.557	67.9 - 118	30	
Molybdenum	0.059	5.0	0.019	50	99.7	98.6	1.48	62.9 - 123	30	
Nickel	0.059	5.0	0.30	50	98.9	95.2	2.99	61.5 - 122	30	
Selenium	0.29	5.0	0.0049	50	87.9	90.9	3.34	62 - 111	30	
Silver	1.0	1.0	0.023	50	102	96.2	5.40	81.1 - 109	30	
Thallium	0.12	5.0	-0.039	50	85.1	85.7	0.679	39.2 - 125	30	
Vanadium	0.12	5.0	0.54	50	103	93.7	6.10	65.8 - 122	30	
Zinc	0.59	5.0	0.35	50	96.4	85.7	8.18	59.9 - 122	30	

Work Order:	1108085	**Prep Method:**	WET/3010B	**Prep Date:**	08/24/11	**Prep Batch:**	3488
Matrix:	**Soil**	**Analytical Method:**	SW6010B	**Analyzed Date:**	08/25/11	**Analytical Batch:**	406420
Spiked Sample:	1108085-015A						
Units:	mg/L						

Parameters	**MDL**	**PQL**	**Sample Conc.**	**Spike Conc.**	**MS % Recovery**	**MSD % Recovery**	**MS/MSD % RPD**	**% Recovery Limits**	**% RPD Limits**	**Lab Qualifier**
Lead (STLC)	0.0500	0.10	0.339	10	87.1	89.6	2.04	75 - 125	20	

Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.

Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.

Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)

Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.

Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)

Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.

Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero

Practical Quantitation Limit (PQL) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.

Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates

Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis

Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.

Units: the unit of measure used to express the reported result - **mg/L** and ***mg/Kg*** (equivalent to PPM - parts per million in **liquid** and ***solid***), **ug/L** and ***ug/Kg*** (equivalent to PPB - parts per billion in **liquid** and ***solid***), **ug/m3**, ***mg.m3***, **ppbv** and ***ppmv*** (all units of measure for reporting concentrations in air), **%** (equivalent to 10000 ppm or 1,000,000 ppb), **ug/Wipe** (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

LABORATORY QUALIFIERS:

B - Indicates when the anlayte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
H- Indicates that the recommended holding time for the analyte or compound has been exceeded
J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
NA - Not Analyzed
N/A - Not Applicable
NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

Torrent
LABORATORY, INC.

Sample Receipt Checklist

Client Name: Northgate Environmental Management Inc.
Project Name: 800 Cedar St. , Oakland, CA
Work Order No.: 1108085

Date and Time Received: 8/11/2011 16:35
Received By: NK
Physically Logged By: NG
Checklist Completed By: NG
Carrier Name: First Courier

Chain of Custody (COC) Information

Chain of custody present?	Yes
Chain of custody signed when relinquished and received?	Yes
Chain of custody agrees with sample labels?	Yes
Custody seals intact on sample bottles?	Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Not Present
Shipping Container/Cooler In Good Condition?	Yes
Samples in proper container/bottle?	Yes
Samples containers intact?	Yes
Sufficient sample volume for indicated test?	Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes			
Container/Temp Blank temperature in compliance?	Yes	Temperature:	5	°C
Water-VOA vials have zero headspace?	No VOA vials submitted			
Water-pH acceptable upon receipt?				

pH Checked by:

pH Adjusted by:

Torrent
LABORATORY, INC.

Login Summary Report

Client ID:	TL5143 Northgate Environmental Management Inc.	**QC Level:**	
Project Name:	800 Cedar St. , Oakland, CA	**TAT Requested:**	5+ day:0
Project # :	1204.18	**Date Received:**	8/11/2011
Report Due Date:	8/26/2011	**Time Received:**	16:35

Comments: On 08/11/2011, 44 samples received @5'C on 5 day TAT.
Per client request via email on 08/19/11 CAM 17 analysis added on samples: 002A,006A.010A,013A,016A,019A,023A,026A,029A,033A,036A,039A and 043A(Previously on Hold). Due 08/26/2011.
Per client request via email on 08/19/11 STLC Pb added on samples: 001A,004A,005A,008A,015A,018A,031A,035A and 042A. Due 08/26/2011.

Work Order # : ***1108085***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1108085-001A	NG-1-1.0	08/11/11 8:50	Soil	02/07/12			EDD S_7471BHG S_6010B(STLC) S_TPHDOSG S_6010BCAM17	

Sample Note: Per client request via email on 08/19/11 CAM 17 analysis added on samples: 002A,006A.010A,013A,016A,019A,023A,026A,029A,033A,036A,039A and 043A(Previously on Hold). Due 08/26/2011.
Per client request via email on 08/19/11 STLC Pb added on samples: 001A,004A,005A,008A,015A,018A,031A,035A and 042A. Due 08/26/2011.

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1108085-002A	NG-1-3.0	08/11/11 8:55	Soil	02/07/12			S_7471BHG S_TPHDOSG S_6010BCAM17	

Sample Note: For all samples requiring TEPH, please analyze for Diesel and Motor Oil with Silica Gel clean up. Cam 17 analysis on hold.

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1108085-003A	NG-1-5.0	08/11/11 9:00	Soil	02/07/12			S_TPHDOSG	
1108085-004A	NG-2-1.0	08/11/11 9:25	Soil	02/07/12			S_6010B(STLC) S_6010BCAM17 S_7471BHG S_TPHDOSG	
1108085-005A	NG-2-1.0 D	08/11/11 9:25	Soil	02/07/12			S_6010B(STLC) S_TPHDOSG S_6010BCAM17 S_7471BHG	

Sample Note: Take sample from the other end of 004A

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1108085-006A	NG-2-3.0	08/11/11 9:30	Soil	02/07/12			S_7471BHG S_6010BCAM17 S_TPHDOSG	

Login Summary Report

Client ID:	TL5143 Northgate Environmental Management Inc.	**QC Level:**	
Project Name:	800 Cedar St. , Oakland, CA	**TAT Requested:**	5+ day:0
Project # :	1204.18	**Date Received:**	8/11/2011
Report Due Date:	8/26/2011	**Time Received:**	16:35

Comments: On 08/11/2011, 44 samples received @5'C on 5 day TAT.
Per client request via email on 08/19/11 CAM 17 analysis added on samples: 002A,006A.010A,013A,016A,019A,023A,026A,029A,033A,036A,039A and 043A(Previously on Hold). Due 08/26/2011.
Per client request via email on 08/19/11 STLC Pb added on samples: 001A,004A,005A,008A,015A,018A,031A,035A and 042A. Due 08/26/2011.

Work Order # : ***1108085***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
Sample Note:	Cam 17 analysis on hold.							
1108085-007A	NG-2-5.0	08/11/11 9:35	Soil	02/07/12			S_TPHDOSG	
1108085-008A	NG-3-1.0	08/11/11 9:40	Soil	02/07/12			S_6010B(STLC) S_7471BHG S_6010BCAM17 S_TPHDOSG	
1108085-009A	NG-3-1.0 D	08/11/11 9:40	Soil	02/07/12			S_TPHDOSG	
1108085-010A	NG-3-3.0	08/11/11 9:45	Soil	02/07/12			S_7471BHG S_TPHDOSG S_6010BCAM17	
Sample Note:	Cam 17 analysis on hold.							
1108085-011A	NG-3-5.0	08/11/11 9:50	Soil	02/07/12			S_TPHDOSG	
1108085-012A	NG-4-1.0	08/11/11 9:55	Soil	02/07/12			S_7471BHG S_6010BCAM17 S_TPHDOSG	
1108085-013A	NG-4-3.0	08/11/11 10:00	Soil	02/07/12			S_7471BHG S_6010BCAM17 S_TPHDOSG	
Sample Note:	Cam 17 analysis on hold.							
1108085-014A	NG-4-5.0	08/11/11 10:05	Soil	02/07/12			S_TPHDOSG	
1108085-015A	NG-5-1.0	08/11/11 10:10	Soil	02/07/12			S_6010B(STLC) S_6010BCAM17 S_TPHDOSG	

Login Summary Report

Client ID:	TL5143	Northgate Environmental Management Inc.	**QC Level:**	
Project Name:	800 Cedar St. , Oakland, CA		**TAT Requested:**	5+ day:0
Project # :	1204.18		**Date Received:**	8/11/2011
Report Due Date:	8/26/2011		**Time Received:**	16:35

Comments: On 08/11/2011, 44 samples received @5'C on 5 day TAT.
Per client request via email on 08/19/11 CAM 17 analysis added on samples: 002A,006A.010A,013A,016A,019A,023A,026A,029A,033A,036A,039A and 043A(Previously on Hold). Due 08/26/2011.
Per client request via email on 08/19/11 STLC Pb added on samples: 001A,004A,005A,008A,015A,018A,031A,035A and 042A. Due 08/26/2011.

Work Order # : ***1108085***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
							S_7471BHG	
1108085-016A	NG-5-3.0	08/11/11 10:15	Soil	02/07/12			S_7471BHG S_TPHDOSG S_6010BCAM17	
1108085-017A	NG-5-5.0	08/11/11 10:20	Soil	02/07/12			S_TPHDOSG	
1108085-018A	NG-6-1.0	08/11/11 10:25	Soil	02/07/12			S_6010B(STLC) S_7471BHG S_8270Full S_6010BCAM17	
1108085-019A	NG-6-3.0	08/11/11 10:30	Soil	02/07/12			S_7471BHG S_6010BCAM17 S_8270Full	
1108085-020A	NG-6-5.0	08/11/11 10:35	Soil	02/07/12			S_8270Full	
1108085-021A	NG-7-1.0	08/11/11 10:40	Soil	02/07/12			S_7471BHG S_8270Full S_6010BCAM17	
1108085-022A	NG-7-1.0 D	08/11/11 10:40	Soil	02/07/12			S_8270Full	
Sample Note:	Take sample from the other end of 021A							
1108085-023A	NG-7-3.0	08/11/11 10:45	Soil	02/07/12			S_7471BHG S_6010BCAM17 S_8270Full	
1108085-024A	NG-7-5.0	08/11/11 10:50	Soil	02/07/12			S_8270Full	
1108085-025A	NG-8-1.0	08/11/11 10:55	Soil	02/07/12			S_7471BHG	

Login Summary Report

Client ID:	TL5143	Northgate Environmental Management Inc.	**QC Level:**	
Project Name:	800 Cedar St. , Oakland, CA		**TAT Requested:**	5+ day:0
Project # :	1204.18		**Date Received:**	8/11/2011
Report Due Date:	8/26/2011		**Time Received:**	16:35

Comments: On 08/11/2011, 44 samples received @5'C on 5 day TAT.
Per client request via email on 08/19/11 CAM 17 analysis added on samples:
002A,006A.010A,013A,016A,019A,023A,026A,029A,033A,036A,039A and 043A(Previously on Hold). Due 08/26/2011.
Per client request via email on 08/19/11 STLC Pb added on samples: 001A,004A,005A,008A,015A,018A,031A,035A and 042A. Due 08/26/2011.

Work Order # : ***1108085***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
							S_6010BCAM17 S_8270Full	
1108085-026A	NG-8-3.0	08/11/11 11:00	Soil	02/07/12				
							S_7471BHG S_6010BCAM17 S_8270Full	
1108085-027A	NG-8-5.0	08/11/11 11:05	Soil	02/07/12				
							S_8270Full	
1108085-028A	NG-9-1.0	08/11/11 11:10	Soil	02/07/12				
							S_7471BHG S_6010BCAM17 S_8270Full	
1108085-029A	NG-9-3.0	08/11/11 11:15	Soil	02/07/12				
							S_7471BHG S_6010BCAM17 S_8270Full	
1108085-030A	NG-9-5.0	08/11/11 11:20	Soil	02/07/12				
							S_8270Full	
1108085-031A	NG-10-1.0	08/11/11 11:25	Soil	02/07/12				
							S_6010B(STLC) S_6010BCAM17 S_8270Full S_7471BHG	
1108085-032A	NG-10-1.0 D	08/11/11 11:25	Soil	02/07/12				
							S_8270Full	
Sample Note:	Take sample from the other end of 031A							
1108085-033A	NG-10-3.0	08/11/11 11:30	Soil	02/07/12				
							S_7471BHG S_6010BCAM17 S_8270Full	
1108085-034A	NG-10-5.0	08/11/11 11:35	Soil	02/07/12				
							S_8270Full	
1108085-035A	NG-11-1.0	08/11/11 11:40	Soil	02/07/12				

Login Summary Report

Client ID:	TL5143 Northgate Environmental Management Inc.	**QC Level:**	
Project Name:	800 Cedar St. , Oakland, CA	**TAT Requested:**	5+ day:0
Project # :	1204.18	**Date Received:**	8/11/2011
Report Due Date:	8/26/2011	**Time Received:**	16:35

Comments: On 08/11/2011, 44 samples received @5'C on 5 day TAT.
Per client request via email on 08/19/11 CAM 17 analysis added on samples:
002A,006A.010A,013A,016A,019A,023A,026A,029A,033A,036A,039A and 043A(Previously on Hold). Due 08/26/2011.
Per client request via email on 08/19/11 STLC Pb added on samples: 001A,004A,005A,008A,015A,018A,031A,035A and 042A. Due 08/26/2011.

Work Order # : ***1108085***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
							S_6010B(STLC) S_8270Full S_7471BHG S_6010BCAM17	
1108085-036A	NG-11-3.0	08/11/11 11:45	Soil	02/07/12			S_7471BHG S_6010BCAM17 S_8270Full	
1108085-037A	NG-11-5.0	08/11/11 11:50	Soil	02/07/12			S_8270Full	
1108085-038A	NG-12-1.0	08/11/11 11:55	Soil	02/07/12			S_7471BHG S_8270Full S_6010BCAM17	
1108085-039A	NG-12-3.0	08/11/11 12:00	Soil	02/07/12			S_7471BHG S_8270Full S_6010BCAM17	
1108085-040A	NG-12-5.0	08/11/11 12:05	Soil	02/07/12			S_8270Full	
1108085-041A	NG-13-1.0	08/11/11 12:10	Soil	02/07/12			S_6010BAs/Pb S_7471BHG S_6010BCAM17 S_8270Full	
1108085-042A	NG-13-1.0 D	08/11/11 12:10	Soil	02/07/12			S_6010B(STLC) S_7471BHG S_6010BCAM17 S_8270Full	
Sample Note:	Take sample from the other end of 041A							
1108085-043A	NG-13-3.0	08/11/11 12:15	Soil	02/07/12			S_7471BHG	

Login Summary Report

Client ID: TL5143 Northgate Environmental Management Inc.

QC Level:

Project Name: 800 Cedar St. , Oakland, CA

TAT Requested: 5+ day:0

Project # : 1204.18

Date Received: 8/11/2011

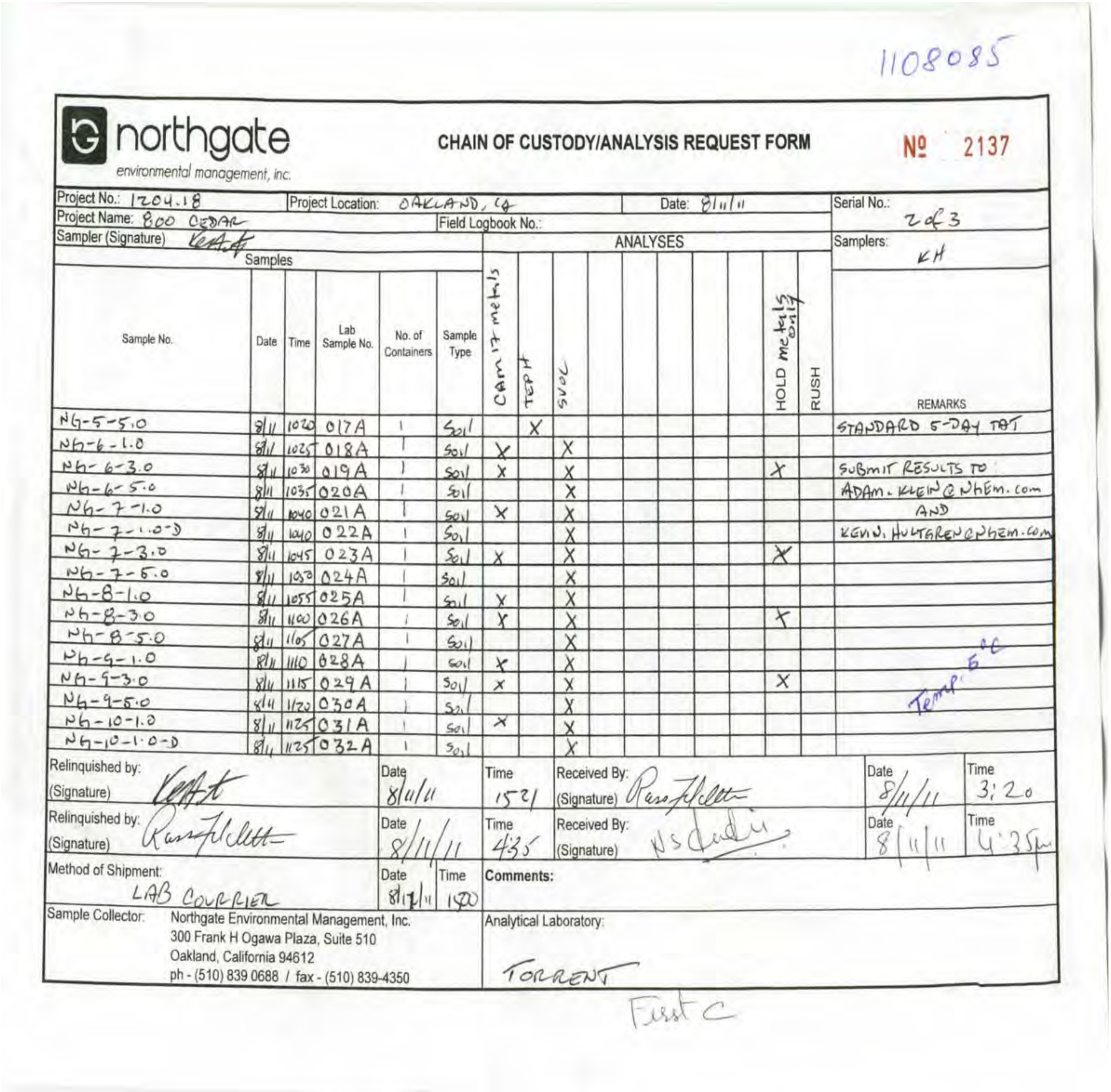
Report Due Date: 8/26/2011

Time Received: 16:35

Comments: On 08/11/2011, 44 samples received @5'C on 5 day TAT.
Per client request via email on 08/19/11 CAM 17 analysis added on samples:
002A,006A.010A,013A,016A,019A,023A,026A,029A,033A,036A,039A and 043A(Previously on Hold). Due 08/26/2011.
Per client request via email on 08/19/11 STLC Pb added on samples: 001A,004A,005A,008A,015A,018A,031A,035A and 042A. Due 08/26/2011.

Work Order # : ***1108085***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1108085-044A	NG-13-5.0	08/11/11 12:20	Soil	02/07/12			S_6010BCAM17 S_8270Full S_8270Full	



1108085

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CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

№ 2137

Project No.: 1204.18
Project Location: OAKLAND, CA
Date: 8/11/11
Serial No.: 2 of 3
Project Name: 800 CEDAR
Field Logbook No.:
Sampler (Signature)
Samplers: KH

Sample No.	Date	Time	Lab Sample No.	No. of Containers	Sample Type	CAM 17 metals	TEPH	SVOC						HOLD metals only	RUSH	REMARKS
NG-5-5.0	8/11	1020	017A	1	Soil		X									STANDARD 5-DAY TAT
NG-6-1.0	8/11	1025	018A	1	Soil	X		X								
NG-6-3.0	8/11	1030	019A	1	Soil	X		X						X		SUBMIT RESULTS TO
NG-6-5.0	8/11	1035	020A	1	Soil			X								ADAM.KLEIN@NHEM.com
NG-7-1.0	8/11	1040	021A	1	Soil	X		X								AND
NG-7-1.0-D	8/11	1040	022A	1	Soil			X								KEVIN.HULTGREN@NHEM.com
NG-7-3.0	8/11	1045	023A	1	Soil	X		X						X		
NG-7-5.0	8/11	1050	024A	1	Soil			X								
NG-8-1.0	8/11	1055	025A	1	Soil	X		X								
NG-8-3.0	8/11	1100	026A	1	Soil	X		X						X		
NG-8-5.0	8/11	1105	027A	1	Soil			X								
NG-9-1.0	8/11	1110	028A	1	Soil	X		X								5 °C
NG-9-3.0	8/11	1115	029A	1	Soil	X		X						X		Temp:
NG-9-5.0	8/11	1120	030A	1	Soil			X								
NG-10-1.0	8/11	1125	031A	1	Soil	X		X								
NG-10-1.0-D	8/11	1125	032A	1	Soil			X								

Relinquished by: (Signature)
Date 8/11/11
Time 1521
Received By: (Signature)
Date 8/11/11
Time 3:20

Relinquished by: (Signature)
Date 8/11/11
Time 4:35
Received By: (Signature)
Date 8/11/11
Time 4:35pm

Method of Shipment: LAB COURIER
Date 8/12/11
Time 1500
Comments:

Sample Collector: Northgate Environmental Management, Inc.
300 Frank H Ogawa Plaza, Suite 510
Oakland, California 94612
ph - (510) 839 0688 / fax - (510) 839-4350

Analytical Laboratory: TORRENT

First C

1108085
~~1108084~~

northgate
environmental management, inc.

CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

№ 2138

Project No.: 1204.18
Project Location: OAKLAND, CA
Date: 8/11/11
Serial No.: 3 of 3
Project Name: 800 CEDAR
Field Logbook No.:
Sampler (Signature)
Samplers: KH

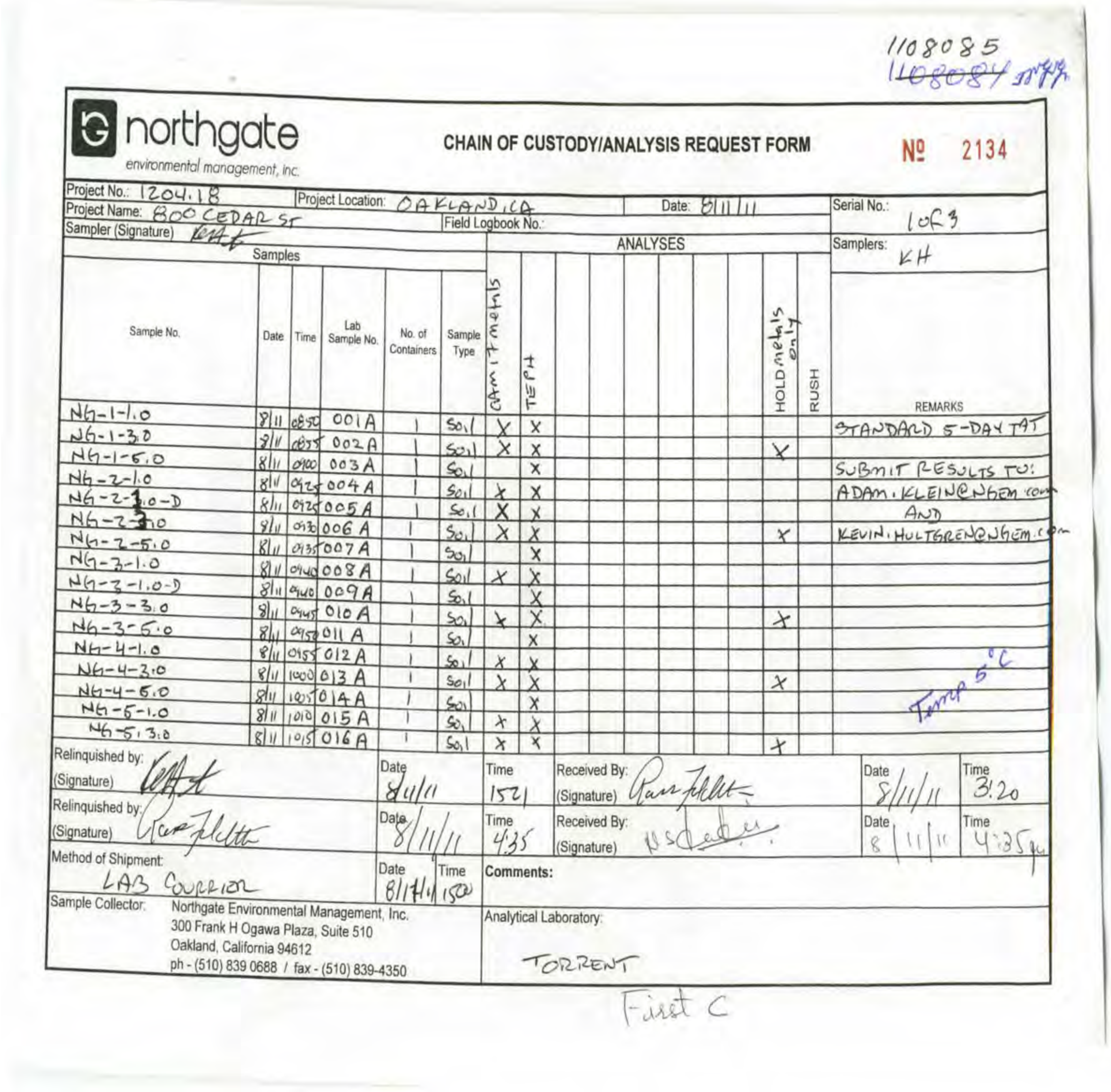
Samples						ANALYSES										
Sample No.	Date	Time	Lab Sample No.	No. of Containers	Sample Type	CAM 17 metals	SVOC							HOLD metals only	RUSH	REMARKS
NG-10-3.0	1130	8/11	033A	1	Soil	X	X							X		STANDARD 5-DAY TAT
NG-10-5.0	1135	8/11	034A	1	Soil		X									
NG-11-1.0	1140	8/11	035A	1	Soil	X	X									SUBMIT RESULTS TO:
NG-11-3.0	1145	8/11	036A	1	Soil	X	X							X		ADAM.KLEIN@NGEM.com
NG-11-5.0	1150	8/11	037A	1	Soil		X									AND
NG-12-1.0	1155	8/11	038A	1	Soil	X	X									KEVIN.HULTGREN@NGEM.com
NG-12-3.0	1200	8/11	039A	1	Soil	X	X							X		
NG-12-5.0	1205	8/11	040A	1	Soil		X									
NG-13-1.0	1210	8/11	041A	1	Soil	X	X									
NG-13-1.0-D	1210	8/11	042A	1	Soil	X	X									
NG-13-3.0	1215	8/11	043A	1	Soil	X	X							X		
NG-13-5.0	1220	8/11	044A	1	Soil		X									Temp. 5°C

Relinquished by: (Signature)	Date 8/11/11	Time 1521	Received By: (Signature) Ron Falletta	Date 8/11/11	Time 3:20
Relinquished by: (Signature) Ron Fallette	Date 8/11/11	Time 4:35	Received By: (Signature)	Date 8/11/11	Time 4:25
Method of Shipment: LAB CORRIER	Date 8/11/11	Time 1500	Comments:		

Sample Collector: Northgate Environmental Management, Inc.
300 Frank H Ogawa Plaza, Suite 510
Oakland, California 94612
ph - (510) 839 0688 / fax - (510) 839-4350

Analytical Laboratory: TORRENT

First C.



1108085
~~1108084~~

northgate
environmental management, inc.

CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

№ 2134

Project No.: 1204.18
Project Location: OAKLAND, CA
Date: 8/11/11
Serial No.: 1 of 3
Project Name: 800 CEDAR ST
Field Logbook No.:
Sampler (Signature)
Samplers: KH

Sample No.	Date	Time	Lab Sample No.	No. of Containers	Sample Type	CAM 17 metals	TEPH							HOLD metals only	RUSH	REMARKS
NG-1-1.0	8/11	0850	001 A	1	Soil	X	X									STANDARD 5-DAY TAT
NG-1-3.0	8/11	0855	002 A	1	Soil	X	X							X		
NG-1-5.0	8/11	0900	003 A	1	Soil		X									SUBMIT RESULTS TO:
NG-2-1.0	8/11	0925	004 A	1	Soil	X	X									ADAM.KLEIN@NGEM.com
NG-2-1.0-D	8/11	0925	005 A	1	Soil	X	X									AND
NG-2-3.0	8/11	0930	006 A	1	Soil	X	X							X		KEVIN.HULTGREN@NGEM.com
NG-2-5.0	8/11	0935	007 A	1	Soil		X									
NG-3-1.0	8/11	0940	008 A	1	Soil	X	X									
NG-3-1.0-D	8/11	0940	009 A	1	Soil		X									
NG-3-3.0	8/11	0945	010 A	1	Soil	X	X							X		
NG-3-5.0	8/11	0950	011 A	1	Soil		X									
NG-4-1.0	8/11	0955	012 A	1	Soil	X	X									
NG-4-3.0	8/11	1000	013 A	1	Soil	X	X							X		Temp 5°C
NG-4-5.0	8/11	1005	014 A	1	Soil		X									
NG-5-1.0	8/11	1010	015 A	1	Soil	X	X									
NG-5.3.0	8/11	1015	016 A	1	Soil	X	X							X		

Relinquished by: (Signature)	Date 8/11/11	Time 1521	Received By: (Signature)	Date 8/11/11	Time 3:20
Relinquished by: (Signature)	Date 8/11/11	Time 4:35	Received By: (Signature)	Date 8/11/11	Time 4:35 pm
Method of Shipment: LAB COURRIER	Date 8/11/11	Time 1500	Comments:		

Sample Collector: Northgate Environmental Management, Inc.
300 Frank H Ogawa Plaza, Suite 510
Oakland, California 94612
ph - (510) 839 0688 / fax - (510) 839-4350

Analytical Laboratory: TORRENT

First C

From: "Kevin Hultgren" <kevin.hultgren@ngem.com>
Subject: RE: Preliminary Results for Project 1204.18/WO1108085
Date: Fri, August 19, 2011 4:14 pm
To: pm@torrentlab.com
Cc: adam.klein@ngem.com

Go ahead and run the STLC/WET test for Lead on the samples listed previously on a standard turn around.
Thanks,
Kevin

-----Original Message-----
From: pm@torrentlab.com [mailto:pm@torrentlab.com]
Sent: Friday, August 19, 2011 3:01 PM
To: Kevin Hultgren
Subject: RE: Preliminary Results for Project 1204.18/WO1108085

Hi Kevin,
Yes, we can add WET test on the requested samples and we will analyze the samples on HOLD for CAM 17.
I will have sales department help you with the pricing.

Thank you!

Kind Regards,
Guergana

On Fri, August 19, 2011 2:11 pm, Kevin Hultgren wrote:
> Is it possible to run a WET test for Lead on 9 of the samples that have
> already been analyzed? The specific samples are:
> NG-1-1.0
> NG-2-1.0
> NG-2-1.0-D
> NG-3-1.0
> NG-5-1.0
> NG-6-1.0
> NG-10-1.0
> NG-11-1.0
> NG-13-1.0-D
> May I get a price for running this analysis?
> We would like to analyze the metals samples that were placed on hold on a
> 5-day turn around
> Please call if you have any questions.
> Thanks,
> Kevin
> 510-529-9861
>
>
> -----Original Message-----
> From: Torrent Laboratory, Inc. [mailto:pm@torrentlab.com]
> Sent: Friday, August 19, 2011 10:36 AM
> To: Kevin Hultgren
> Subject: RE: Preliminary Results for Project 1204.18/WO1108085
>
>
> Hi Kevin,
>
>
>
> Please let me know what TAT would you like on this samples.
>

>
> Thank you and have a nice day!
>
>
> Kind Regards,
> Guergana
>
>
>
>
> Thank you for the report.
>
>
> We would like to have you analyze the metals samples that were placed on
> hold as well.
>
> Please let me know if you have any questions.
>
>
> Regards,
>
>
> Kevin Hultgren
>
>
> 510-529-9861
> On Fri, August 19, 2011 9:48 am, Kevin Hultgren wrote:
>
>>
>
>>
>
>
> Warm regards,
>
>
> Project Management Team
> Torrent Laboratory, Inc.
> 483 Sinclair Frontage Rd
> Milpitas, CA 95035
> PH:(408)263-5258; Nutan x209, Patti x208, Stacy 707-206-0216
> Fax:(408)263-8293
> Email: pm@torrentlab.com
> www.torrentlab.com
>
>
> Visit us at our newly re-developed website!! www.torrentlab.com
>
>
> The contents of this message are confidential and are bound by law from
> disclosure, tampering, or any other use by a third party.
>
> If you are not the intended recipient of this message and its contents,
> please contact us immediately at (408) 263-5258 and delete the message and
> its contents.
>
>
>
>

Warm regards,

Project Management Team
Torrent Laboratory, Inc.

483 Sinclair Frontage Rd
Milpitas, CA 95035
PH:(408)263-5258 Nutan x209, Stacy x204, Patti x208
Fax:(408)263-8293
Email: pm@torrentlab.com
www.torrentlab.com

Phase I Environmental Site Assessment

800 Cedar Street
APN 006-047-001
Oakland, California

December 16, 2011

Prepared For:

City of Oakland
250 Frank H. Ogawa Plaza, 4th Floor
Oakland, California 94612

Under EPA Brownfields Assessment
Grant Number 2B-00T18101-0

Prepared By:

Northgate Environmental Management, Inc.
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Principal

1204.23

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APPENDICES

1.0 SUMMARY

This report presents the results of a Phase I Environmental Site Assessment (ESA) performed by Northgate Environmental Management, Inc. (Northgate) at Assessor's Parcel Number (APN) 006-047-001 in Oakland, Alameda County, California (the Site). The Site consists of an approximate five acre parcel, a portion of which has historically been identified as 800 Cedar Street. The Site is vacant and almost entirely covered by the remnant concrete slab of a former building. The Site is currently owned by the California Department of Transportation (Caltrans). A Site Location Map is shown on Figure 1 and a Site Plan is shown on Figure 2. This Phase I ESA has been funded by the City of Oakland through the USEPA Brownfields assessment grant for West Oakland. The purpose of this Phase I is to assist the property owner in assessing environmental conditions at the Site.

Our review indicates that the Site has historically been utilized for a variety of industrial purposes between 1920 and the present, including auto parts manufacturing, steel and ironworks fabrication, and fireworks manufacturing. 800 Cedar Street is listed on the RCRA-SQG, FINDS, VCP, HAZNET, and ENVIROSTOR databases related to the historic use, storage, and release of hazardous materials on the Site. Two underground storage tanks (USTs), one diesel and one gasoline, were removed from the western side of the Site sometime between 995 and 1997, and a total of 800 cubic yards of soil were excavated and disposed of as part of the UST removals. Soil sampling performed at the Site during the tank removals indicated up to 17,000 parts per million (ppm) of lead and 44 ppm of arsenic in soil in the southwest corner of the former Phoenix Iron Works property, which is now outside the current Site property boundary (currently beneath Frontage Road/I-880). Soil excavation was initiated to remove these elevated metals concentrations, and during the excavation, two solvent-containing USTs (approximately 250 gallons and 10 gallons) and a settling sump were encountered. A total of 3,300 cubic yards of soil were excavated and disposed of as part of this remedial action (IT, 2000). Soil sampling performed in 1999 indicated that shallow soil along the western edge of the Site contains total recoverable petroleum hydrocarbons (TRPH) in excess of 1,000 ppm. This area was previously identified as containing "black-stained sand". The 1999 soil sampling indicated two boring locations with elevated concentrations of semi-volatile organic compounds (SVOCs) in shallow soil samples, and the presence of elevated lead concentrations in shallow soil at multiple locations across the Site. The Department of Toxic Substance Control (DTSC) is listed as the lead agency for oversight. The Site status is listed on the Envirostor database maintained by the DTSC as inactive and requiring evaluation as of September 3, 2010.

Our review did not indicate the presence of off-Site contamination sources that are known to have impacted the subject Site. However, the Site is located in an area of heavy industrial land use, and we could not rule out the possibility that low-level groundwater contamination is present on a regional basis, including beneath the subject Site, related to these off-Site contamination sources.

In Northgate's professional opinion, an appropriate level of inquiry has been made into the previous ownership and uses of the property consistent with good commercial and customary practice in an effort to minimize liability. In summary, our review did not indicate the presence of Recognized Environmental Conditions associated with the Site, except for the following:

- The Site is listed on a number of State, Federal, and local regulatory agency databases related to the historic use, storage, and release of hazardous materials at the Site. Previous environmental testing on the Site has indicated the presence of elevated concentrations of lead and SVOCs in shallow soil at multiple locations across the Site. Additionally, elevated levels of TRPH and "black-stained sand" were reported in the northwest section of the property. The Site status is currently listed as inactive, requiring evaluation, on the Envirostor database maintained by the DTSC.

In addition, our review revealed the following issue of potential environmental concern:

- The Site is located in an area of historic industrial land use, and several sites with known soil and groundwater contamination are present in close proximity to the subject Site. We could not rule out the possibility that migration of contaminants from these off-Site sources may have impacted soil or groundwater quality beneath the Site.

We recommend that additional investigation be performed to:

- Evaluate current soil and groundwater quality conditions at the Site;
- Define the extent of SVOC and petroleum hydrocarbon soil contamination in specific areas of the Site that were identified in previous investigations;
- Further evaluate elevated lead concentrations detected in soil at the Site; and
- Evaluate the potential need for remediation or additional evaluation of risk at the Site.

2.0 INTRODUCTION

This report presents the results of a Phase I ESA performed by Northgate at APN 006-047-001 in the City of Oakland, Alameda County, California. The Site has historically been identified as 800 Cedar Street. However, reconfiguration of Interstate 880 in Oakland has removed Cedar Street at this location. The Site consists of an approximate five acre vacant parcel of land located west of Pine Street between 9th Street and Shorey Street. A Site Location Map is shown on Figure 1 and a Site Plan is shown on Figure 2.

2.1 Purpose

The purpose of this investigation has been to identify and evaluate the presence of Recognized Environmental Conditions at the Site. The term "Recognized Environmental Conditions" means the presence, or likely presence of hazardous substances or petroleum products on the Site under conditions that indicate an existing release, a past release, or a material threat of a release of hazardous materials or petroleum products into structures on the subject Site; or into the ground, groundwater, or surface water of the subject property. The term includes hazardous substances or petroleum products even under conditions in compliance with existing laws. The term is not intended to include de minimus conditions that generally do not present a material risk of harm to public health or the environment, and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Northgate has endeavored to perform the ESA in general conformance with the scope and limitations of the American Society for Testing and Materials (ASTM) E-1527-05, *Standard Practice for Environmental Site Assessments* and the U.S. EPA *All Appropriate Inquiry* guidelines. It is understood that the City of Oakland is assisting the current property owner (Caltrans) with evaluating potential commercial redevelopment options for the Site, although the exact redevelopment use for the Site is not known at this time.

2.2 Detailed Scope of Services

This Phase I ESA included the following services:

- Review of readily available information regarding the history of the subject Site, including historic aerial photographs, maps, previous reports, and other information, and discussions with individuals familiar with the subject Site, if available;
- Review of environmental lien documents obtained for the subject Site;
- Reconnaissance of the subject Site and near vicinity;

- Review of readily available regulatory agency publications and files, and discussions with regulatory officials, as applicable;
- Evaluation of Recognized Environmental Conditions, development of conclusions, and recommendations, as appropriate; and
- Preparation of this report.

2.3 Limitations and Exceptions

2.3.1 Limitations

The purpose of an environmental assessment is to reasonably evaluate the potential for, or actual impact of, past practices on a given site area. In performing an environmental assessment, it is understood that a balance must be struck between a reasonable inquiry into the environmental issues and an exhaustive analysis of each conceivable issue of potential concern. No investigation is thorough enough to absolutely rule out the presence of hazardous materials at a given site. If hazardous conditions have not been identified during the assessment, such a finding should not be construed as a guarantee of the absence of such materials on the Site, but rather as the result of the services performed within the scope, limitations, and cost of the work performed.

Environmental conditions may exist at the subject Site that cannot be identified by visual observation. Where subsurface work was performed, our professional opinions are based in part on interpretation of data from discrete sampling locations that may not represent actual conditions at unsampled locations.

Except where there is express concern of our client, or where specific environmental contaminants have been previously reported by others, naturally occurring toxic substances, potential environmental contaminants inside buildings, or contaminant concentrations that are not of current environmental concern may not be reflected in this document.

Where the scope of services is limited to interview and/or review of readily available reports and literature, any conclusions and/or recommendations are necessarily based largely on information supplied by others, the accuracy or sufficiency of which may not be independently reviewed by Northgate.

Any opinions and/or recommendations presented apply to subject Site conditions existing at the time of performance of services. We are unable to report on, or accurately predict, generally unforeseeable events that may impact the subject Site following performance of services, whether occurring naturally or caused by external forces. Therefore, we cannot assume responsibility for such events or their impact. We also cannot assume responsibility for changes in environmental standards, practices, or regulations.

2.3.2 Exceptions

It should be noted that the time intervals between some historical information sources may exceed five years, due to the availability of such records. However, in our opinion, this does not significantly impact our ability to evaluate historic land use conditions at the Site. There were no other limiting conditions.

2.4 User Reliance

This report has been funded by the City of Oakland through the USEPA Brownfields Assessment Grant for West Oakland. The purpose of the Phase I is to assist the current property owner (Caltrans) in assessing environmental impacts and evaluating potential redevelopment options for the Site. Others may not rely on the information contained in this report without the express written consent of Northgate.

3.0 SITE DESCRIPTION

3.1 Location and Legal Description

The subject Site is identified as APN 006-047-001 in Alameda County, California. The Site is also identified as 800 Cedar Street in the City of Oakland.

3.2 Site and Vicinity General Characteristics

The Site consists of an approximate five acre (600 feet by 400 feet) parcel of land located on the west side of Pine Street, between 9th Street and Shorey Street in Oakland, California. The Site is almost entirely covered by the remnant concrete slab of a former building. The Site is currently used for equipment and supplies storage by Caltrans.

The Site is located in an area of mixed residential and commercial development. The Site is bordered on the north by 9th Street, across which are residences and industrial warehouse buildings. The Site is bordered on the east by Pine Street and on the south by Shorey Street, followed by residences. The Site is bordered along the west by an access ramp for Interstate 880. Figure 1 shows the Site location. Figure 2 shows a current aerial view of the Site overlain by the approximate Site boundary as it existed in the early 1990s, along with historical features identified in previous environmental investigation reports (discussed in Section 5.6 below).

3.3 Geology and Groundwater

According to the U.S. Geologic Survey Topographic Map of the Oakland West Quadrangle, the subject Site is situated at an elevation of approximately 11 feet above sea level. On a regional basis, surface topography slopes down to the southwest. The nearest surface water is the Oakland Inner Harbor and the Oakland Middle Harbor, located approximately ¾-mile to the south of the subject Site.

According to Helley and Graymer (1997), the area of the subject Site is underlain by Merritt Sand, which consists of fine-grained, well sorted, well-drained eolian deposits of Pleistocene and Holecene age. Subsurface materials encountered in borings previously advanced at the Site consist of artificial fill (gravelly sand/clay with brick, glass, and wood debris) to depths of up to 6 feet below the ground surface (bgs), followed by Bay Mud up to 8 feet bgs, and silty/clayey sand up to 13 feet bgs. These materials are in turn, underlain by the Temescal Formation consisting of silty clay with zones of shells and sand, and the Alameda Formation, a mixture of gravel, sand, silt, and clay with occasional shells and organic material, to a total depth of 160 feet bgs.

The investigation performed by Geo/Resource Consultants, Inc. (GRC) in 1992 encountered silty sand and sand to a depth of 27 feet bgs at the Site. Groundwater measured in one of the borings was encountered at a depth of 7.2 feet bgs. Information contained in unpublished engineering reports for properties in the vicinity of the Site indicates that the local groundwater flow direction is predominantly to the southwest.

3.4 Current Use of the Property

The subject Site is currently a vacant parcel of land that is almost entirely covered by the remnant concrete slab of a former building. A portion of the Site is currently used for construction materials storage by Caltrans. Information presented in a 1993 Preliminary Endangered Assessment (PEA; On-Site Technologies, 1993) indicates that the Site was used for a variety of purposes between 1920 and the present, including auto parts manufacturing, steel and ironworks fabrication, and fireworks manufacturing.

3.5 Description of Structures, Roads, Sewage, and Potable Water Sources

The Site is currently a vacant lot. A remnant concrete slab of a former building is present across most of the Site. No other structures are present on the Site at this time. The Site is served by East Bay Municipal Utility District water service and City of Oakland sewer service. According to the Alameda County Public Works Agency, one monitoring well is historically identified at the Site. The record indicates that this 2-inch diameter well was drilled to a depth of 27 feet bgs in June of 1992. The recorded coordinates locate the well on the northwest portion of the Site (north of the well box observed during site reconnaissance and discussed in Section 6.0 below). However, the Public Works Agency could not locate any additional information regarding this well and it is unclear whether this well was properly destroyed.

3.6 Current Uses of Adjoining Properties

The Site is located in an area of mixed residential and commercial development. The Site is bordered on the north by 9th Street, followed by residences and industrial warehouses. The Site is bordered on the east by Pine Street and on the south by Shorey Street, followed by residences. An access ramp for Interstate 880 is located along the western border of the Site.

4.0 USER PROVIDED INFORMATION

4.1 Environmental Liens or Activity and Use Limitations

Northgate reviewed an environmental lien report for APN 006-047-001, provided by Environmental Data Resources (EDR), a regulatory database research firm. As indicated in the report, presented in Appendix A, no environmental liens or activity and use limitations of record were found.

4.2 Valuation Reduction for Environmental Issues

Northgate has not been informed of any known valuation reduction for environmental issues.

4.3 Owner, Property Manager, and Occupant Information

The subject Site is currently owned and managed by Caltrans. The Site is currently used for construction materials storage.

4.4 Specialized Knowledge

The City of Oakland does not have any specialized knowledge about the Site.

4.5 Reason for Performing the Phase I ESA

This Phase I ESA has been funded by the City of Oakland through the USEPA Brownfields Assessment Grant for West Oakland. The purpose of the Phase I is to assist the property owner in assessing environmental conditions at the Site and evaluating potential redevelopment options.

5.0 RECORDS REVIEW

5.1 Standard Environmental Record Sources

To determine if the subject Site has documented environmental concerns, or if other sites with documented environmental concerns exist within the search radii of the subject Site prescribed by the *All Appropriate Inquiry*, Northgate reviewed a summary of regulatory agency databases prepared by EDR. In addition, where appropriate, we reviewed local regulatory agency files for additional specific information regarding sites identified in the EDR report judged to be of possible concern to the subject Site. The EDR report presenting a summary of the agency databases reviewed and a map showing the location of the identified sites, is provided as Appendix B. The results of the database search and follow-up agency file review are summarized below.

5.1.1 Subject Site

The subject Site is listed as **Caltrans** on the RCRA-SQG, FINDS, VCP, HAZNET, and ENVIROSTOR databases, and is listed as **Phoenix 800 Property** on the FINDS database. The listings are related to historical chemical use and storage at the Site and Site investigation and contamination clean-up activities, which are discussed in detail in Section 5.6 below.

5.1.2 Surrounding Area

Federal NPL Site List (NPL, Proposed NPL): One site is listed on the NPL list within a 1-mile radius of the subject Site: **Amco Chemical**, located at 1414 Third Street, is approximately 0.61 miles southeast of the Site. This property was occupied by AMCO Chemical Corporation until December 1989. The site was listed on the National Priorities List on July 1, 2004 and the U.S. Environmental Protection Agency (EPA) has since conducted soil, soil gas, and groundwater investigations on the property. Groundwater flow beneath the site varies from southwest to south seasonally. The groundwater contamination plume has been well defined and is reportedly restricted to the area in the vicinity of the site. Based on our review, this site does not appear to represent a significant potential threat to soil or groundwater quality at the subject Site, given its distance from the subject Site and the defined boundaries of the contaminant plume beneath the site.

National Priority List Deletions (Delisted NPL): No sites are listed within a 1-mile radius of the subject Site.

Federal CERCLIS List (CERCLIS, Federal Facility): Two sites are listed on the CERCLIS list within a 0.5-mile radius of the subject Site: **Gaines Property**, located at 1795 11th Street, is approximately 0.19 miles northeast of the Site, and the **US Army Oakland Army Base**, located at

Bldg-1 Alaska Street, is approximately 0.41 miles northwest of the Site. The **US Army Oakland Army Base** does not appear to represent a significant potential threat to soil or groundwater quality at the subject Site, given its distance (greater than ¼-mile) and topographic location (cross-gradient) from the subject Site.

Gaines Property is a vacant lot previously utilized to store automobiles, drums, pressurized gas containers, and other miscellaneous equipment. Surface soil samples collected around 1997 found lead concentrations of up to 28,000 parts per million (ppm). Stored debris along with 485 cubic yards of contaminated soil were removed from the site and disposed at approved landfills in 2003. Upon completion of remediation activities, the DTSC certified that the property was cleaned up to unrestricted residential standards and deemed that no further action was necessary. Based on the remedial activities completed at the site, it does not appear to represent a significant potential threat to soil or groundwater quality at the subject Site.

CERCLIS NFRAP List (CERC-NFRAP): Three sites are listed within a 0.5-mile radius of the subject Site: **Batavia Property**, located at 1832 9th Street, is approximately 0.06 miles northeast of the Site. **West Recycler Bin Storage**, located at 1405 Wood Street, is approximately 0.39 miles northeast of the Site. **Lot at 530-542 Lewis Street**, approximately 0.41 miles southeast of the Site, is located at 530-542 Lewis Street. With the exception of **Batavia Property**, these sites do not appear to represent a significant threat to soil or groundwater quality at the subject Site given their distance (greater than ¼-mile) and/or topographic location (down-gradient) from the subject Site.

The **Batavia Property** has historically been occupied by office buildings, a printing facility for logos and grain bags, storage of drilling equipment, boats, and vehicles, and the storage of polyethylene resin and polyethylene sheets. One of the two buildings on the property was demolished in April 1998 and the other is presently vacant. A drive-by site inspection performed by the DTSC in 1997 noted drums and containers in poor condition as well as ground staining and chemical odors. However, a follow-up inspection in 1998 did not identify any staining, odors, or drums at the site. Based on the lack of any documented releases or spills, the site received a no further action status from the DTSC on August 25, 1998. Given the status of the site and lack of any documented contamination issues, this site does not appear to represent a significant threat to soil or groundwater quality at the subject Site.

RCRA Corrective Action Report (CORRACTS): No sites are listed within a 1-mile radius of the subject Site

RCRA-permitted Treatment, Storage and Disposal Facilities (RCRA-TSDF): No sites are listed within a 0.5-mile radius of the subject Site.

Federal RCRA Generators List (RCRA-LQG, SQG, CESQG): Six sites are listed as small-quantity generators within a 0.25-mile radius of the subject Site. Based on our review, these sites do not appear to represent a significant potential threat to soil or groundwater quality at the subject

Site given their topographic locations (down-gradient or cross-gradient) in relation to the subject Site and the lack of any documented contamination issues.

Federal Institutional / Engineering Controls Site List (US INST/ENG CONTROLS): No sites are listed within a 0.5-mile radius of the subject Site.

State and Tribal Equivalent NPL (RESPONSE): Eleven sites are listed within a 1-mile radius of the subject Site. With the exception of the sites discussed below, none of the sites appear to represent a significant potential threat to soil or groundwater quality at the subject Site, given their distance (greater than ¼-mile) and topographic location (down-gradient or cross-gradient) in relation to the subject Site. The **Gaines Property**, located at 1795 11th Street, is discussed under the CERCLIS listing above.

Jenkins Auto Wreckers, located at 1778 10th Street, is approximately 0.15 miles east-northeast. This property operated as an auto storage and wrecking yard between 1964 and 1994. Stained and oil-saturated soils were observed during a DTSC site inspection performed in 1996. Shallow soil samples collected during a 2002 Phase II investigation contained elevated levels of petroleum hydrocarbons, polychlorinated biphenyls (PCBs), and heavy metals (AEI, 2002). A groundwater sample collected during the same investigation contained elevated concentrations of benzene and xylenes. An environmental investigation performed by Northgate at a portion of the 10th street property reported elevated levels of petroleum hydrocarbons, metals, and PCBs in shallow soil on the eastern portion of the site (Northgate, 2010). Low to moderate levels of petroleum hydrocarbons as oil and low levels of VOCs were observed in groundwater beneath the site. Based on our review, the contaminants found in shallow soil at this site do not appear to represent a significant threat to soil or groundwater quality at the subject Site. However, we could not rule out the possibility that contaminants reported in groundwater beneath the Jenkins Auto Wreckers could be present on a regional basis, including beneath the subject Site.

State and Tribal Equivalent CERCLIS (ENVIROSTOR): Forty-six sites are listed within a 1-mile radius of the subject Site. With the exception of the sites discussed below, none of the remaining sites appear to represent a significant threat to soil or groundwater quality at the subject Site given their topographic location (cross-gradient or down-gradient) and/or relative distance (greater than ¼-mile) from the subject Site.

Amco Chemical, located at 1414 Third Street, is discussed under the NPL listing above. **Batavia Property**, located at 1832 9th Street, is discussed under the CERC-NFRAP listing above. **Gaines Property**, located at 1795 11th Street, is discussed under the CERCLIS listing above.

State and Tribal Landfill / Solid Waste Disposal Sites List (SWF/LF): No sites are listed within a 0.5-mile radius of the subject Site.

State and Tribal Leaking Storage Tank Sites (LUST/SLIC/Alameda County CS/Indian LUST): Eighteen sites are listed on the LUST database, five sites are listed on the SLIC database, and 15 sites are listed on the Alameda County CS database within a 0.5-mile radius of the subject Site. With the exception of the sites discussed below, none of the remaining sites appear to represent a significant threat to soil or groundwater quality at the subject Site based on their topographic location (cross-gradient or down-gradient) and/or their relative distance (greater than ¼-mile) from the subject Site. However, given the large number of LUST sites in the area, we could not rule out the possibility that groundwater contamination could be present on a regional scale in the area, including beneath the subject Site.

Bonnelli Enterprises, located at 1111 Pine Street, is approximately 0.20 miles northeast of the subject Site. Odorous and discolored soil was observed during the removal of a 500 gallon underground gasoline storage tank at Bonnelli Enterprises in September 1993. The tank pit was over-excavated to remove the contaminated soil and a second tank was discovered in close proximity. Tank #2 appeared to have been closed in place and filled with sand. Groundwater seeping into the excavation pit exhibited a sheen. Limited over-excavation of contaminated soil was conducted in 1993. However, soil removal had to be terminated due to possible impact to a nearby structure and the presence of utility lines. A letter issued by the Alameda County Environmental Health Services indicated that no further action is required based on the remediation efforts that were completed. Based on our review and the topographic location in relation to the subject Site (down-gradient), this property does not appear to represent a significant potential threat to soil or groundwater quality at the subject Site.

Pacific Cannery Lofts, located at 1111-1119 Pine Street, is approximately 0.20 miles northeast of the subject Site. Four USTs (containing gasoline and heating or bunker oil) were removed during previous site remediation and redevelopment activities. Petroleum hydrocarbons, lead, and polycyclic aromatic hydrocarbons (PAHs) were detected in soil, and petroleum hydrocarbon impacted groundwater was present beneath the site. Remediation activities performed at the site between 2006 and 2008 included removal of lead and PAH affected soil and groundwater remediation to reduce the mass of petroleum present beneath the site. Any remaining contaminants were expected to attenuate over time and a No Further Action status was granted by the RWQCB on January 9, 2008 (RWQCB, 2008). Given the documented remedial actions, this site does not appear to represent a significant potential threat to soil or groundwater quality at the subject Site.

14th St Apartments @ Central Station, located at 1801 14th Street, is approximately 0.40 miles northeast of the Site. Several environmental investigations performed on or near the site indicated the presence of petroleum hydrocarbons, metals, and PAHs in soil at the site, at depths ranging from surface soil to 8.5 feet bgs (Amec, 2009). Based on the proposed redevelopment plan for the site, direct contact with surface soil was determined to be the only potential human health risk. In March of 2008, three feet of soil were excavated from all proposed landscape areas and were moved beneath the proposed building footprint. Although soil contamination is present at this site, it does not appear to represent a significant potential threat to soil or groundwater quality at the subject Site due to the documented remedial activities.

<u>State and Tribal Registered Storage Tanks (UST/AST/Indian UST/ FEMA UST)</u>: One site is listed on the AST database within a 0.25-mile radius of the subject Site: **West Oakland Yard**, located at 1851 Fifth Street, is approximately 0.25 miles southwest of the Site and is listed for a 51,050

gallon aboveground storage tank (AST). Given the down-gradient location of this site, it does not appear to represent a significant potential threat to soil or groundwater quality at the subject Site.

State and Tribal Voluntary Cleanup Sites (VCP/Indian VCP): Twelve sites are listed on the VCP database within a 0.5-mile radius of the subject Site: None of the listed sites appear to represent a significant threat to soil or groundwater quality at the subject Site given their topographic location (down-gradient) and/or relative distance (greater than ¼-mile) in relation to the subject Site.

Local Brownfield Lists (US Brownfields): One site is listed within a 0.5-mile radius of the subject Site: **Willow Park**, located at 1386 Willow Street, is approximately 0.4 miles east-northeast of the subject Site. Part of the property was historically used for automobile garages, a multi-tenant residential structure, and the storage of miscellaneous objects and vehicles between 1900 and 1977, at which point it was developed into a recreational park. The property is contaminated with lead due to historical land use activities. A No Further Action status was granted to the site by the DTSC on June 8, 2005 following the completion of remediation activities performed by the City of Oakland in early 2000s. Although the exact scope of remedial work performed was not readily available for review, this site does not appear to represent a significant potential threat to soil or groundwater quality at the subject Site given its closure status.

Local Landfill / Solid Waste Disposal Lists (Debris Region 9, ODI, WMUDS/SWAT, SWERCY Indian ODI): No sites are listed within a 0.5-mile radius of the subject Site.

Local Hazardous Waste / Contaminated Sites (Hist Cal-Sites, SCH, Toxic Pits): Eight sites are listed on the Hist Cal-Sites database within a 1-mile radius of the subject Site. Two sites were listed on the Toxic Pits database within 1-mile of the subject Site. With the exception of the sites discussed below, none of the remaining sites appear to represent a significant threat to soil or groundwater quality at the subject Site given their distance (greater than ¼-mile) and/or topographic location (cross-gradient or down-gradient) from the subject Site.

The **Amco Chemical**, **Gaines Property**, and **Oakland Army Base–Early Transfer** sites are discussed under the NPL, CERCLIS, RESPONSE listings above, respectively.

Local Land Records (LUCIS, DEED): One site is listed on the DEED database within a 0.5-mile radius of the subject Site: **Oakland Army Base**, located at 2475-D West 12th Street, is approximately 0.41 miles northwest of the subject Site. Given the topographic location and relative distance from the subject Site, this site does not appear to represent a significant potential threat to soil or groundwater quality at the subject Site.

Local Registered Storage Tank Lists (CA FID, HIST UST, SWEEPS UST): Five sites are listed on the CA FID UST database, seven sites are listed on the HIST UST database, and eight sites are listed on the SWEEPS UST database within a 0.5-mile radius of the Site. With the exception of the properties discussed below, none of the remaining sites appear to represent a significant threat to soil or groundwater quality at the subject Site given their distance (greater than ¼-mile) and/or topographic location (cross-gradient or down-gradient) from the subject Site.

Phoenix Iron Works, located at 888 Cedar Street, is associated with the subject Site, and is discussed in Section 5.6 below. **Bonnelli Enterprises**, located at 1111 Pine Street, is discussed under the LUST listing above. **Adelphi Aluminum Co.**, is also listed at 111 Pine Street, this listing appears to be associated with the Bonnelli Enterprises property discussed under the LUST listing above.

Globe Metals Co., located at 1820 10th Street, is approximately 0.13 miles northeast of the subject Site. According to the Geotracker website maintained by the RWQCB, a leak was reported at the site in 1994. Lead is noted to be the contaminant of concern. The site is currently listed as open but inactive as of June 2, 2009. Additional records for this site were not readily available. Given that some type of release appears to be documented, we could not rule out the possibility that contaminants from this property could potentially migrate in groundwater to the subject Site.

<u>Other Ascertainable Records Listed by EDR</u>: The EDR report indicates the presence of one site listed on the Department of Defense (DOD) database within a 1-mile radius of the Site: the **Oakland Army Base** is located 0.43 miles northwest of the subject Site. This status of this military site is listed as closed. Given the closure status and the relative distance (greater than ¼-mile) and topographic location (cross-gradient) from the subject Site, the site is not considered a significant potential threat to soil or groundwater quality at the subject Site.

One site is listed on the FUDS database within a 1-mile radius of the Site: the **Army-Navy Distributing Center** is located 0.93 miles northeast of the Site. This property previously included two 10,000-gallon diesel USTs associated with a fueling station, which were utilized until 1962. The property was sold to a private individual in 1982 and was then utilized as a warehouse and truck distribution center by a transportation company. No potential hazards have been identified at this site in relation to previous Department of Defense activities. Given the site's relative distance (greater than ½-mile) and lack of documented releases, it does not appear to represent a significant potential threat to soil or groundwater quality at the subject Site.

One site is listed on the Bond Expenditure Plan (Ca Bond Exp. Plan) database within 1-mile of the Site: **Southern Pacific Transportation Co.**, located at 1707 Wood Street, is approximately 0.55 miles northeast of the Site. This site does not appear to represent a significant potential threat to soil or groundwater quality at the subject Site, given its distance (greater than ½-mile) in relation to the subject Site.

Four sites are listed on the Cortese and 20 sites are listed on the HIST CORTESE databases with a 0.5-mile radius of the Site. With the exception of **Jenkins Auto Wreckers** (discussed under the RESPONSE listing above), Phoenix Iron Works (discussed in Section 5.6 below), **Globe Metals Company** (discussed under the CA FID listing above), and **Bonnelli Enterprises** (discussed under the LUST listing above), none of these sites appear to represent a significant potential threat to soil or groundwater quality at the subject Site given their topographic location (cross-gradient or down-gradient) and/or distance (greater than ¼-mile) in relation to the subject Site.

Seven sites are listed within a 1-mile radius of the Site on the Notify 65 database. Based on our review, none of these properties appear to represent a significant potential threat to soil or groundwater quality at the Site given their distance (greater than ¼-mile) and/or topographic location (down-gradient or cross-gradient) in relation to the subject Site.

Two sites are listed on the EDR Proprietary Historical Auto Stations database within 0.25 miles of the subject Site. **Edo S Automotive**, located at 1807 Shorey Street, is approximately 0.08 miles south of the Site. **Dahl Saml**, located at 1775 7th Street, is approximately 0.17 miles south of the subject Site. Given the relative location (down-gradient) and the lack of any documented issues, these sites do not appear to represent a significant threat to soil or groundwater quality at the subject Site.

Nine sites are listed on the EDR Proprietary Historical Cleaners database within 0.25 miles of the subject Site. Based on our review, none of these sites appear to represent a significant threat to soil or groundwater quality at the subject Site given their topographic location (cross-gradient or down-gradient) in relation to the subject Site.

5.2 Additional Environmental Record Sources

Northgate contacted local regulatory agencies for information regarding the use or storage of hazardous materials at the subject Site. Northgate reviewed files at any agency maintaining a file for the subject Site. The following agencies were contacted for information regarding the use or storage of hazardous materials at the Site:

- City of Oakland Community and Economic Development Agency (CEDA) – Planning and Zoning Division, Building Services;
- City of Oakland Fire Department, Fire Prevention Bureau;
- East Bay Municipal Utility District; and
- Alameda County Department of Environmental Health.

5.2.1 City of Oakland Community and Economic Development Agency (CEDA) Building, Planning and Zoning Divisions

The Planning and Zoning Divisions have no records pertaining to the subject Site. The Building Department records consisted of several permit documents from 1995 related to demolition of the Phoenix Iron Works structures and relocation of houses from 714 Pine Street as well as 1815 and 1817 Shorey Streets to the 800 Cedar Street property. A building permit document from 1990 indicated a proposed new metal warehouse for the 888 Cedar Street address. It is not clear whether any of these modifications occurred since additional records were not readily available. None of the reviewed records indicated use or storage of hazardous materials at the Site.

5.2.2 City of Oakland Fire Department, Fire Prevention Bureau

The Fire Prevention Bureau does not maintain any files for the subject Site (800 Cedar Street).

5.2.3 East Bay Municipal Utility District (EBMUD)

An EBMUD technician stated that the subject Site is served by EBMUD sewer and water service.

5.2.4 Alameda County Department of Environmental Health – Local Oversight Program (LOP)

The LOP maintains numerous records pertaining to historical environmental investigations at the subject Site. Those reports are discussed in detail under section 5.6 below.

5.3 Radon

Information provided by EDR (Appendix B) indicates that indoor air samples collected at 49 sites in Alameda County by the U. S. Environmental Protection Agency (U.S. EPA) had an average radon concentration of 0.776 picocuries per liter (pCi/L) on the first floor level, -0.400 pCi/L on the second floor level, and 1.338 pCi/L at the basement level. None of the samples contained more than 4 pCi/L. According to EDR, Alameda County is designated as Federal Radon Zone 2 (indoor average less than 4 pCi/L but greater than or equal to 2 pCi/L).

The State of California Division of Drinking Water and Environmental Management maintains a database of radon test results indicating that out of 3 samples collected in the zip code 94607, no samples exceeded 4 pCi/L. The California Department of Health Services and the U. S. EPA recommend that some form of mitigation be conducted for houses with indoor air radon concentrations of 4 pCi/L or greater.

5.4 Land Use History

Information on historical land use at the Site and adjacent area was evaluated by reviewing historic aerial photographs, maps, and other documents. A summary of our investigation findings is presented below.

5.4.1 Aerial Photographs

Northgate reviewed historic aerial photographs of the Site for the years 1939, 1946, 1959, 1965, 1975, 1982, 1993, 1998, and 2005 obtained from EDR. A summary of our aerial photograph review is presented below. Copies of select aerial photographs are provided in Appendix C.

Date: 1939	**Scale:** 1”= 555’
Site Description: The subject Site is bisected by a street that extends in an east-west direction across the Site. The northern half of the Site is bisected by an additional road extending to 9th Street on the northern property boundary. The northwestern portion of the Site contains a large structure that appears to be a warehouse or industrial facility. The northeastern corner of the Site contains residential development. The southern portion of the Site consists of a large warehouse or industrial building in the southeastern area and vacant land in the southwestern area with some small structures that may be residential buildings.	
North:	9th Street followed by commercial and industrial buildings and some residential development.
South:	Shorey Street, followed by residential and commercial development then a rail yard.
East:	Pine Street followed by residential development.
West:	Cedar Street followed by vacant land and railroad tracks.

Date: 1946	**Scale:** 1”= 655’
Site Description: The subject Site is covered with a large, industrial structure. The streets previously bisecting the Site and the previous structures on the Site are no longer present.	
North:	9th Street followed by commercial and industrial buildings and some residential development.
South:	Shorey Street, followed by residential and commercial development then a rail yard.
East:	Pine Street followed by residential development.
West:	Cedar Street followed by a commercial development, railroad tracks, and commercial and residential development father west.

Date: 1959	**Scale:** 1”= 555’
Site Description: The subject Site is covered with a large, industrial structure. Parking rows are located along the eastern and western sides of the structure.	
North:	9th Street followed by commercial and industrial buildings and some residential development.
South:	Shorey Street, followed by residential and commercial development then a rail yard.
East:	Pine Street followed by residential development.
West:	Cedar Street followed by several small industrial or commercial buildings, a roadway, railroad tracks, and commercial and residential development father west.

Date: 1965	**Scale: 1”= 333’**
Site Description: The subject Site is covered with a large, industrial structure. A row of parking is located along the eastern side of the structure.	
North:	9th Street followed by commercial and industrial buildings and some residential development.
South:	Shorey Street, followed by residential and commercial development then a rail yard.
East:	Pine Street followed by residential development.
West:	Cedar Street followed by an industrial or commercial building, a roadway, railroad tracks, and commercial and residential development father west.

Date: 1975	**Scale:** 1”= 550’
Site Description: The subject Site is covered with a large, industrial structure.	
North:	9th Street followed by commercial and industrial buildings and some residential development.
South:	Shorey Street, followed by residential and commercial development then a rail yard.
East:	Pine Street followed by residential development.
West:	Cedar Street followed by several industrial or commercial buildings, a roadway, railroad tracks, and commercial and residential development father west.

Date: 1982	**Scale:** 1”= 690’
Site Description: The subject Site is covered with a large, industrial structure.	
North:	9th Street followed by commercial and industrial buildings and some residential development.
South:	Shorey Street, followed by residential and commercial development then a rail yard.
East:	Pine Street followed by residential development.
West:	Cedar Street followed by several industrial or commercial building, a roadway, railroad tracks, and commercial and residential development father west.

Date: 1993	**Scale:** 1”= 604’
Site Description: The subject Site is covered with a large, industrial structure.	
North:	9th Street followed by industrial buildings and some residential development.
South:	Shorey Street, followed by residential and commercial development then a rail yard.
East:	Pine Street followed by residential development.
West:	Cedar Street followed by vacant land, a roadway, railroad tracks, and residential and commercial development farther west.

Date: 1998	**Scale:** 1”= 666’
Site Description: The Site consists of a vacant parcel that is almost entirely covered by the remnant concrete slab of a former building. A small structure is located in the northwest corner of the Site.	
North:	9th Street followed by industrial buildings and some residential development.
South:	Shorey Street, followed by residential and commercial development, Interstate 880, and a rail yard.
East:	Pine Street followed by residential development.
West:	Access road for Interstate 880 followed by Interstate 880, railroad tracks, and residential and commercial development farther west.

Date: 2005	**Scale:** 1”= 604’
Site Description: The Site consists of a vacant parcel that is almost entirely covered by the remnant concrete slab of a former building.	
North:	9th Street followed by industrial buildings and some residential development.
South:	Shorey Street, followed by residential and commercial development, Interstate 880, and a rail yard.
East:	Pine Street followed by residential development.
West:	Access road for Interstate 880 followed by Interstate 880, railroad tracks, and residential and commercial development farther west.

5.4.2 Sanborn Maps

Northgate reviewed Sanborn fire insurance maps for the Site obtained from EDR for the years 1889, 1902, 1912, 1951, 1952, 1957, 1958, 1961, 1967, and 1970. Copies of the Sanborn Maps are provided in Appendix D. Information from the Sanborn maps is summarized below.

1889	Chase Street crosses east-west through the center of the Site and New Street extends in a north to south direction in the center of the northern portion of the Site between Chase Street and 9th Street. The northern portion of the property is occupied by residential development and vacant lots. The southern portion of the Site is mostly vacant, with shed and storage in the central portion of this area.
North:	9th Street followed by vacant lots and various commercial and residential developments.
South:	Division Street, followed by a triangular lot with a small structure, Short Street, and residential development.
East:	Pine Street followed by residential development.
West:	Cedar Street and railroad tracks followed by residential development.

1902	Chase Street crosses east-west through the center of the Site and New Street extends in a north to south direction in the center of the northern portion of the Site between Chase Street and 9th Street. The northern portion of the property is occupied by residential development and vacant lots. The southern portion of the Site is mostly vacant, with some residential structures, a storage area, and a tank in the area.
North:	9th Street followed by Standard Oil Company and various commercial and residential developments.
South:	Division Street, followed by a triangular lot with a small structure, Short Street, and residential development.
East:	Pine Street followed by residential development.
West:	Cedar Street and railroad tracks followed by residential development.

1912	Chase Street crosses east-west through the center of the Site and New Street extends in a north to south direction in the center of the northern portion of the Site between Chase Street and 9th Street. The northwest corner of the property is occupied by California Bedding and Upholstery Company. The northeastern corner of the property is occupied by residential development. The southern portion of the Site is mostly vacant, with some residential structures in the area.
North:	9th Street followed by Standard Oil Company and various commercial and residential developments.
South:	Division Street, followed by a triangular lot with a small structure, Short Street, and residential development.
East:	Pine Street followed by residential development.
West:	Cedar Street and railroad tracks followed by residential development.

1951	The northwestern portion of the Site is occupied by an Erection Shop and Welding company, Independent Iron Works Ltd., steel storage, and a tool room. The southwestern portion of the parcel is occupied by a truck repair facility, a machine shop, an electrical shop, and a warehouse. The eastern portion of the Site is occupied by a sheet metal shop.
North:	9th Street followed by various industrial companies and residential development.
South:	Shorey Street followed by an additional Independent Iron Works Ltd. structure and residential development.
East:	Pine Street followed by residential development.
West:	Cedar Street and spur tracks, followed by railroad tracks, vacant structures.

1952	The northwestern portion of the Site is occupied by an Erection Shop and Welding company, Independent Iron Works Ltd., steel storage, and a tool room. The southwestern portion of the parcel is occupied by a truck repair facility, a machine shop, an electrical shop, and a warehouse. The eastern portion of the Site is occupied by a sheet metal shop.
North:	9th Street followed by various industrial companies and residential development.
South:	Shorey Street followed by an additional Independent Iron Works Ltd. structure and residential development.
East:	Pine Street followed by residential development.
West:	Cedar Street and spur tracks, followed by railroad tracks, vacant structures.

1957	The northwestern portion of the Site is occupied by an Erection Shop and Welding company, Independent Iron Works Ltd., steel storage, and a tool room. The southwestern portion of the parcel is occupied by a truck repair facility, a machine shop, an electrical shop, and a warehouse. The eastern portion of the Site is occupied by a sheet metal shop.
North:	9th Street followed by various industrial companies and residential development.
South:	Shorey Street followed by an additional Independent Iron Works Ltd. structure and residential development.
East:	Pine Street followed by residential development.
West:	Cedar Street and spur tracks, followed by railroad tracks, a structural steel storage yard, sand blasting and spray painting areas, a glass storage building, and a storage structure.

1958	The northwestern portion of the Site is occupied by an Erection Shop and Welding company, Independent Iron Works Ltd., steel storage, and a tool room. The southwestern portion of the parcel is occupied by a truck repair facility, a machine shop, an electrical shop, and a warehouse. The eastern portion of the Site is occupied by a sheet metal shop.
North:	9th Street followed by various industrial companies and residential development.
South:	Shorey Street followed by an additional Independent Iron Works Ltd. structure and residential development.
East:	Pine Street followed by residential development.
West:	Cedar Street and spur tracks, followed by railroad tracks, a structural steel stock yard, sand blasting and spray painting areas, a glass storage building, and a used machinery storage structure.

1961	The northwestern portion of the Site is occupied by Vinnell Steel Company, steel storage, and a tool room. The southwestern portion of the parcel is occupied by a truck repair facility, a machine shop, an electrical shop, and a warehouse. The eastern portion of the Site is occupied by a sheet metal shop.
North:	9th Street followed by various industrial companies and residential development.
South:	Shorey Street followed by an additional Vinnell Steel Company structure and residential development.
East:	Pine Street followed by residential development.
West:	Cedar Street and spur tracks, followed by railroad tracks, a structural steel stock yard, sand blasting and spray painting areas.

1967	The northwestern portion of the Site is occupied by Vinnell Steel Company, steel storage, and a tool room. The southwestern portion of the parcel is occupied by a truck repair facility, a machine shop, an electrical shop, and a warehouse. The eastern portion of the Site is occupied by a sheet metal shop.
North:	9th Street followed by various industrial companies and residential development.
South:	Shorey Street followed by an additional Vinnell Steel Company structure and residential development.
East:	Pine Street followed by residential development.
West:	Cedar Street and spur tracks, followed by railroad tracks, a structural steel stock yard, sand blasting and spray painting areas.

1970	The northwestern portion of the Site is occupied by Phoenix Iron Works, steel storage, and a tool room. The southwestern portion of the parcel is occupied by a truck repair facility, a machine shop, an electrical shop, and a warehouse. The eastern portion of the Site is occupied by a sheet metal shop.
North:	9th Street followed by Irving Subway Grating Company, industrial and residential development.
South:	Shorey Street followed by residential and industrial development.
East:	Pine Street followed by residential development.
West:	Cedar Street and spur tracks, followed by railroad tracks, a structural steel stock yard, sand blasting and spray painting areas.

5.4.3 Topographic Maps

Northgate reviewed historic topographic maps for the Site obtained from EDR for the years 1895, 1915, 1948, 1949, 1959, 1968, 1973, and 1980. Copies of the topographic maps are provided in Appendix E. Information from the topographic maps is summarized below.

Quadrangle: San Francisco	Scale: 1:62500	Series: 15 Minute
1895:	No specific features are shown on the subject Site or adjoining properties. A large rail yard is mapped to the south. A small inlet from the San Francisco Bay is present to the southwest.	
1915:	No specific features are shown on the subject Site or adjoining properties. Multiple rail lines are located in the vicinity of the Site.	
1948: *(1:50000)*	The subject Site and adjoining properties are shown as general urban land use, with no specific features depicted. Several rail lines are shown to the south and west of the Site.	

Quadrangle: Oakland West	Scale: 1:24000	Series: 7.5 Minute
1949:	The Site is almost entirely covered by a large structure. The surrounding area is shown as general urban land use. Several rail lines are located along the southern and western boundaries of the Sites. A Naval reservation is located southwest of the Site and an Army reservation is mapped west of the Site. Numerous new structures are mapped in the vicinity of the rail yard, located south of the Site.	

1959:	No specific features are shown on the subject Site. The Site and surrounding areas are mapped as urban land use. Schools are now mapped to the northeast and east of the Site. The Nimitz Freeway is located to the east. Several small structures are now mapped to the east and south of the Site.
1968:	The Site is once again shown with a large structure covering the Site. Several new structures are located to the north, south, and west of the Site. A roadway is now mapped north of the Site connecting West Grand to Interstate 880.
1973:	The general vicinity of the subject Site appears the same as in the previous map. Several structures have been removed and added south of the property.
1980:	The general vicinity of the subject Site appears the same as in the previous map. Several large structures west of the Site at the Oakland Outer Harbor have been removed from the map.

5.4.4 City Directories

A search of available city directories was performed by EDR at approximate five-year intervals from 1920 through 2006. A summary of the listings for the Site and nearby properties is shown in the table below. The complete city directory summary provided by EDR is presented as Appendix F.

Address	Date	Listing
Site		
800 Cedar Street	1991-1992	Mechanical services, machine shop, and "Young Bill."
Nearby Properties		
1778 10th Street	1967-2006	Auto wrecker
1820 10th Street	1928-1943	Trucking and freight systems companies, a metal company, Baptist church, California Waste Solutions Inc.
2520 - 2630 10th Street	1928-1943	County purchasing agent hall of records and residences.
1752-1798 9th Street	1967-2006	Residences

Address	Date	Listing
1819-1846 9th Street	1933-2006	Auto body and repair shops, environmental drilling service company, trapeze arts company, "Serian Orthdx," "Cap International," a towing company, "Katsulakis John T May ilk Jenny Wren Stores," and machinery and excavator companies.
1754-1796 8th Street	1967-1967	Residences and Alpha Omega Foundation.
1738-1779 Chase Street	1928-2006	Residences, "All State Supply Company," surveyor, car cleaning company, tire and brake services, construction company, auto repair companies, metal polishing plating and body repair shop, steel fabricators, and "Del Sarto Maurice Lab H."
1769 Goss Street	1928-2006	Residences and car cleaner
852-880 McElroy Street	1943-2006	Residences
708-779 Pine	1925-1986	Shoe shine parlor, residences, accountant, a trucking company, and a Baptist church.
800-886 Pine	1925-1991	Residences, an iron works company, a photography business, and an auto salvage and used auto parts company.
903-942 Pine	1925-1991	Residences and "Randomsky Salvage Company."
1001-1009 Pine	1925-1970	Residences and auto wrecker.
751- 790 Pine Avenue	1928-2006	Residences and a manufacturing company.
808-890 Pine Avenue	1928-2006	Residences and "Laborers Union Local 304."
903-944 Pine Avenue	1928-2006	Residences
1009 Pine Avenue	1928	Residence

Address	Date	Listing
822 Pine Court	1950	Residence
886 Pine Lane	1975	Residence
707-799 Pine Street	1920-2006	Residences, Oakland Fire Department Station, "Angeles Fire Equipment Company," a Baptist church, "J&M Barbeque Pit," West Oakland Health Council and West Oakland Health Center.
806-886 Pine Street	1920-2006	Residences, "Bay Area Rock Magazine," iron works companies (Phoenix Iron Works and Independent Iron Works), used auto parts and salvage companies, a steel fabricators, a beauty salon, and a beauty shop.
903-942 Pine Street	1920-2006	Residences, "Randomsky Salvage Company," and "O K Cleaners."
1001-1009 Pine Street	1920-1967	Residences, an auto wrecker, and a carpenter.
1800-1825 Shorey Street	1925-1992	A plastic manufacturing company, an automotive garage, residences, metal and metal design companies, auto wrecking yards, and a health and safety consulting company.
813-875 Wood	1980-1991	Residences and a church.
855 and 872 Wood Court	1975	"Hill GA A" and a church.
808-875 Wood Street	1920-2006	Residences, "Landon Theo J Adeline Towernm Key System," "Nifty Ideas," apartments, "brush manufacturing companies, a metal products company, "Sealright Co. of Cal," a preschool, and a church.

5.5 Interviews

Northgate received a completed owner questionnaire completed by Mr. Chris Wilson of the Caltrans Environmental Division as a representative of the property owner. According to Mr. Wilson's responses, the subject Site and adjoining properties have historically been utilized for industrial activities. Mr. Wilson noted that stained soil, vent/fill pipes, and underground or aboveground storage tanks have previously been observed at the subject Site. Mr. Wilson also noted that environmental site assessments have been performed at the subject Site in the past. Those reports are discussed in detail in Section 5.6 below.

5.6 Previous Reports

A PEA report, prepared by On-Site Technologies in 1993, indicates that the Site was used for a variety of purposes between 1920 and the present, including auto parts manufacturing, steel and ironworks fabrication, and fireworks manufacturing. Table 2.2.1 of the PEA provides a list of the businesses and dates of operation at the Site. Table 2.3.1 of the PEA provides a list of hazardous substances that were historically used at the Site. In general, very little is known about the materials used at the Site, with the exception of the following businesses:

- Cypress Auto Parts - oxygen, acetylene, gasoline and waste oil, operated from an unknown time until the time of the PEA (1993);
- Pine Iron Works - paint, naphtha, paint thinner and waste oil used onsite, operated from an unknown time until 1990; and
- Phoenix Iron Works - two USTs, operation from approximately 1970 until the time of the PEA (1993).

The PEA was prepared for Caltrans, in consultation with DTSC in response to DTSC's determination that PEA reports were required for properties located along the proposed reconstruction alignment for the Highway 880/Cypress Freeway construction following the 1989 Loma Prieta Earthquake. Information in the PEA indicates that in May 1990, the property owner (Phoenix Properties) contracted with BEC, Inc. to perform Phase I and Phase II environmental assessments at the Site. Five soil borings were advanced to depths of 5.5 to 11.5 feet bgs across the Site, and 11 soil samples were collected and submitted for laboratory analysis. Five soil samples analyzed for total petroleum hydrocarbons as gasoline (TPHg), total petroleum hydrocarbons as diesel (TPHd), and benzene, toluene, ethylbenzene, and xylene (BTEX) did not contain these analytes above the laboratory method reporting limits (MRLs). Four of the samples and one additional soil sample analyzed for volatile organic compounds (VOCs) and SVOCs did not contain contaminants above the laboratory MRLs. Five different soils were found to contain low levels of metals, with the exception of one soil sample (PP-6, located in the southwestern corner of the Site) which contained a total lead concentration of 52 milligrams per kilogram (mg/kg), and soluble lead (analyzed using the Waste Extraction Test) of 2.26 milligrams per liter (mg/l).

In June 1992, Caltrans contracted with Georesource Consultants, Inc. to perform a limited field investigation at the Site, related to the Highway 880/Cypress reconstruction. Three borings for soil sample collection were advanced at the Site in the vicinity of the USTs and a hydropunch groundwater sample was also collected from one of these borings. A total of seven soil samples from these borings were analyzed for TPHg, TPHd and total recoverable petroleum hydrocarbons. Five of these samples were below the laboratory MRLs for these analytes. Two of the samples (PP800/H-1 at depths of 1.5 and 4 feet bgs) contained TPHg at concentrations of 10 and 17 mg/kg, and TPHd at concentrations of 1,600 and 2,400 mg/kg. The groundwater sample did not contain TPHg or TPHd above the laboratory MRLs (GRC, 1992).

In 1993, Caltrans contracted with On-Site Technologies to prepare a PEA and perform limited soil and groundwater sampling at the Site. Three soil borings for soil and groundwater sample collection were advanced at the Site to depths of 9 to 11 feet bgs, in the vicinity of the USTs. One soil sample from each boring was analyzed for TPHg and VOCs, two soil samples from each boring were analyzed for SVOCs, and four samples from each boring were analyzed for TPHd. All of these samples were below laboratory MRLs for these analytes. One groundwater sample collected from each boring was analyzed for TPHg, TPHd, VOCs and selected metals (cadmium, chromium, lead, nickel and zinc). The groundwater samples were below laboratory MRLs for TPHg, VOCs, and cadmium. TPHd was measured in the samples at 0.14 to 0.26 mg/l along with low levels of the remaining metals (On-Site Technologies, 1993).

In 1994, Caltrans entered into a Voluntary Cleanup Agreement (VCA) with DTSC for the Cypress Freeway Reconstruction Project and East Bay Municipal Utility District Sewer Line Realignment in Oakland and Emeryville, California. The reconstruction project consisted of 34 separate properties, including the 800 Cedar Street property. The VCA was subsequently amended twice in 1996, and once each in 1997, 1999 and 2002.

Sometime between 1995 and 1997 two USTs were removed from the Site (IT, 2000), although Northgate was not able to obtain reports that identified the exact date of the tank removals. Discolored soil was observed after the diesel UST was removed, and a total of 800 cubic yards of soil were excavated and disposed of as part of the UST removals.

Additional soil sampling performed at the Site during this time indicated up to 17,000 ppm of lead and 44 ppm of arsenic were present in soil samples in the southwest corner of the former Phoenix Iron Works property. Soil excavation was initiated to remove these elevated metals concentrations, and during this excavation, two solvent-containing USTs (approximately 250 gallons and 10 gallons) and a settling sump were encountered. A total of 3,300 cubic yards of soil were excavated and disposed of as part of this remedial action.

In 1999, IT Corporation performed a field investigation at the Site that included drilling 26 soil borings for collection and analysis of soil samples, and collection and analysis of grab groundwater samples from 15 of the borings. Soil borings were arranged in a regular grid pattern across the Site, and most of the borings were advanced to 11.5 feet bgs. A total of 95 soil samples were submitted for chemical analysis for TPHg, TPHd, TRPH, VOCs, SVOCs and 17 metals. Fifteen groundwater samples were analyzed for these same constituents and were also analyzed for total dissolved solids (TDS). Based upon the results of the soil metals analyses, selected samples were also analyzed for soluble metals. Analytical results from these samples indicated the following:

- TPHg and TPHd were not detected above the MRLs in any of the samples. TRPH was detected in 37 of the 95 soil samples, with concentrations ranging from 60 mg/kg to 1,200 mg/kg, although only three of these samples had concentrations in excess of 320 mg/kg.
- VOCs were detected in 11 of the 95 soil samples, with trichloroethene (TCE), tetrachloroethene (PCE) and styrene as the only VOCs that were detected. The maximum VOC concentration was 0.028 mg/kg TCE.
- SVOCs were detected in 2 of the 95 soil samples. The maximum SVOC concentration detected was 13 mg/kg benzo(a)pyrene.
- Antimony, molybdenum, selenium, silver and thallium were not detected above the MRLs in any of the 95 samples. The remaining metals were detected in at least one of the samples.
- Nine soil samples that contained lead at 10 times the Soluble Threshold Limit Concentration (STLC) of 5 mg/l were analyzed for soluble lead using the Waste Extraction Test (WET), and 10 soil samples that contained lead at 20 times the STLC of 5 mg/l were analyzed for soluble lead using the Toxicity Characteristic Leaching Procedure (TCLP). Seven samples analyzed using the WET exceeded the STLC of 5 mg/l and ranged between 6.2 and 35 mg/l. Two soil samples analyzed using the TCLP method exceeded the STLC of 5 mg/l with concentrations of 17 and 60 mg/l. The WET is typically used for characterization of soil for waste disposal according to California

standards, while the TCLP is typically used for characterization of soil for waste disposal according to Federal standards.

- TPHg, TPHd and TRPH were not detected above the MRLs in any of the 15 groundwater samples.
- VOCs were detected in 8 of the 15 groundwater samples, with 8 different VOCs detected, including benzene, toluene and TCE.
- SVOCs were not detected above the MRLs in any of the 15 groundwater samples.
- Antimony, arsenic, cadmium, molybdenum, selenium, silver and thallium were not detected above the MRLs in any of the 15 groundwater samples. The remaining metals were detected in at least one of the samples.
- TDS concentrations for the 15 groundwater samples ranged from 287 mg/l to 1,312 mg/l.

6.0 SITE RECONNAISSANCE

Current Site conditions were observed during a reconnaissance of the Site and near vicinity performed by Northgate on October 10, 2011. Photographs from the reconnaissance are attached to the end of this report.

6.1 Methodology and Limiting Conditions

The Site reconnaissance was performed by traversing the Site by foot. Northgate was not escorted during the reconnaissance. There were no limiting conditions.

6.2 General Site and Vicinity Conditions

The subject Site is located along the western side of Pine Street, between 9th and Shorey Streets, in Oakland, Alameda County, California. The Site consists of an approximate 5-acre parcel most of which is currently a vacant lot covered by the remnant concrete slab from a historic industrial building (Photograph 1). The northern portion of the Site is currently used for construction materials storage. At the time of our Site Reconnaissance, the Site contained numerous large-diameter metal piping as well as a crane (Photographs 2 and 3). Various household waste, paint cans, unmarked 5-gallon buckets, electronic waste, tires, and wood debris were observed throughout the Site (Photographs 4 through 7). The remnant concrete slab is intersected by numerous rail tracks and several vault-type chambers (Photograph 8).

A damaged, 1-inch diameter well was observed in the southwest corner of the Site (Photograph 9) as well as remnants of a second well which were removed from the ground and were observed along the southern Site boundary (Photograph 10).

An auto repair garage located across 9th Street from the Site is currently utilizing the area adjacent to the northern Site boundary for vehicle parking (Photograph 11). Several warehouse buildings utilized for circus and trapeze schools, as well as residences are located north of the Site along 9th Street. A sound barrier wall for Interstate 880 is located along the western Site boundary (Photograph 12). Residences are present to the east and south of the Site, across Pine and Shorey Streets, respectively (Photographs 12 and 13).

7.0 PHASE I ESA CONCLUSIONS AND RECOMMENDATIONS

The Phase I ESA was conducted to identify and evaluate the potential presence of Recognized Environmental Conditions within the Site and near vicinity that may affect on-Site soil and groundwater quality. The Site consists of a vacant five acre parcel almost entirely covered by the remnant concrete slab of a former industrial building. The Site is identified as APN 006-047-001 in Oakland, Alameda County, California, and has historically been identified as 800 Cedar Street.

Our review indicates that the Site has historically been used for a variety of industrial purposes between 1920 and the present, including auto parts manufacturing, steel and ironworks fabrication, and fireworks manufacturing. 800 Cedar Street is listed on the RCRA-SQG, FINDS, VCP, HAZNET, and ENVIROSTOR databases related to historic use, storage, and release of hazardous materials on the Site. Two underground storage tanks (USTs), one diesel and one gasoline, located on the western side of the Site were removed sometime between 995 and 1997, and a total of 800 cubic yards of soil were excavated and disposed of as part of the UST removals. Soil sampling performed at the Site during the tank removals indicated up to 17,000 ppm of lead and 44 ppm of arsenic in soil in the southwest corner of the former Phoenix Iron Works property, which is now outside the current Site property boundary (beneath Frontage Road/I-880). Soil excavation was initiated to remove these contaminants, and during the excavation, two solvent-containing USTs (approximately 250 gallons and 10 gallons) and a settling sump were encountered. A total of 3,300 cubic yards of soil were excavated and disposed of as part of this remedial action (IT, 2000). Soil sampling performed in 1999 indicated that shallow soil along the western edge of the Site contains total recoverable petroleum hydrocarbons (TRPH) in excess of 1,000 ppm. This area was previously identified as containing “black-stained sand”. The 1999 soil sampling indicated two boring locations with elevated SVOC concentrations in shallow soil samples, and the presence of elevated lead concentrations in shallow soil at multiple locations across the Site. DTSC is listed as the lead agency for oversight. The Site status is listed on the Envirostor database maintained by the DTSC as inactive and requiring evaluation as of September 3, 2010.

Our review did not indicate the presence of off-Site contamination sources that are known to have impacted the subject Site. However, the Site is located in an area of heavy industrial land use, and we could not rule out the possibility that low-level groundwater contamination is present on a regional basis, including beneath the subject Site, related to these off-Site contamination sources.

In Northgate’s professional opinion, an appropriate level of inquiry has been made into the previous ownership and uses of the property consistent with good commercial and customary practice in an effort to minimize liability. In summary, our review did not indicate the presence of Recognized Environmental Conditions associated with the Site, except for the following:

- The Site is listed on a number of State, Federal, and local regulatory agency databases related to the historic use, storage, and release of hazardous materials at the Site. Previous environmental testing on the Site indicated the presence of elevated concentrations of lead and SVOCs in multiple locations across the Site. Additionally, elevated levels of TRPH and “black-stained sand” were reported in the northwest section of the property. The Site status is currently listed as inactive, requiring evaluation, on the Envirostor database maintained by the DTSC.

In addition, our review revealed the following issue of potential environmental concern:

- The Site is located in an area of historic industrial land use, and several sites with known soil and groundwater contamination are present in proximity to the subject Site. We could not rule out the possibility that migration of contaminants from these off-Site sources may have impacted soil or groundwater quality beneath the Site.

We recommend additional investigation to:

- Evaluate current soil and groundwater quality conditions at the Site;
- Define the extent of SVOC and petroleum hydrocarbon soil contamination in specific areas of the Site that were identified in previous investigations;
- Further evaluate elevated lead concentrations detected in soil at the Site; and
- Evaluate the potential need for remediation or additional evaluation of risk at the Site.

8.0 REFERENCES

Contacts

City of Oakland Community and Economic Development Agency – *reception*
City of Oakland Fire Department, Fire Prevention Bureau – *Ellen Bolden*
East Bay Municipal Utility District – *phone staff*
Alameda County Department of Environmental Health – *web access*

Publications and Reports

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Geo/Resource Consultants, Inc. (GRC), 1992. *Site Investigation Report – Area 4, Department of Transportation T.O. Number: 04-192201-01, Highway 880, Cypress Reconstruction, Oakland, California.* August 1992.

Helley, E.J., R.W. Graymer, 1997, *Quaternary Geology of Alameda County and Surrounding Areas, California: Derived from the Digital Database Open File 97-97*. USGS Open File 97-97.

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Regional Water Quality Control Board. 2008. *No Further Action, 1111-1199 Pine Street Parcel (aka: PCL Parcel), Wood Street Zoning District, Oakland, Alameda County*. January 9.

Regional Water Quality Control Board, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater,* revised May 2008.

U.S. EPA, *AMCO Superfund Site Update* Factsheet. June 2009.

U.S. Geologic Survey, *Oakland West Quadrangle, California*, 7.5 minute Series (Topographic), 1949, 1959, 1968, 1973, 1980.

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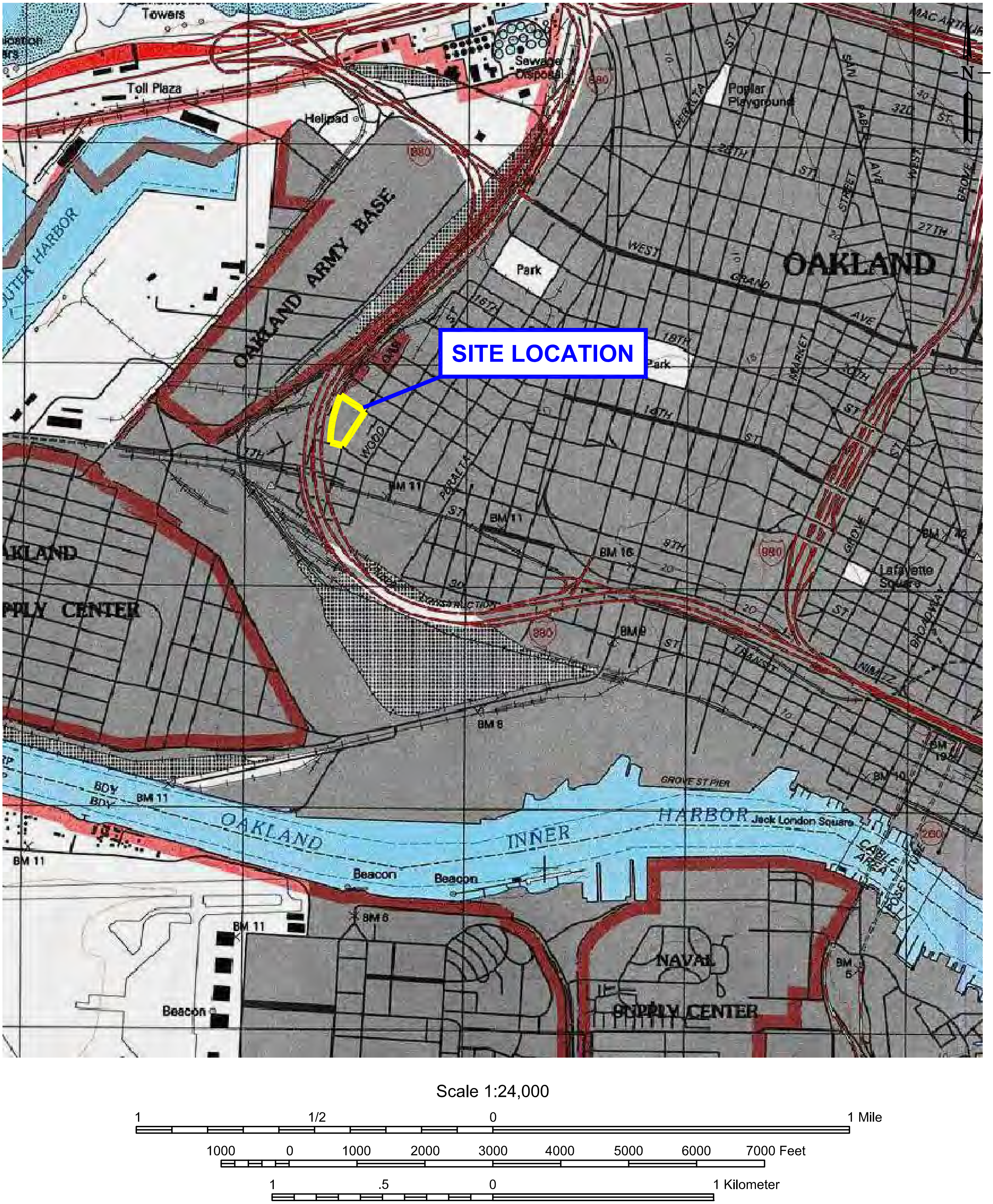
9.0 ENVIRONMENTAL PROFESSIONAL STATEMENT

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312, and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Dennis Laduzinsky, C.E.G., R.E.A.
Principal

Qualifications of the Environmental Professional are provided as Appendix G.

FIGURES



G:\Projects\Temp\1204 City of Oakland\1204.18 800 Cedar\1204.18 Figures\Phase I Rpt\Figure 1 - Site Location.dwg Layout: 8.5x11-P User: oleg Oct 19, 2011 - 2:12pm

Source: National Geographic USGS TOPO! 2000

FIGURE 1
Site Location Map

Phase I Environmental Site Assessment
800 Cedar Street
Oakland, California

northgate
environmental management, inc.

Project No. 1204.23

LEGEND:

◉ Soil boring locations

P-25 △ 1999 Soil borings

▬ ▬ Approximate site boundary

▬ ▬ Site boundary from PEA Report (1993)

0 50 100

Scale (Feet)

N

FIGURE 2
Site Plan

Phase I Environmental Site Assessment
800 Cedar Street
Oakland, California

northgate
environmental management, inc.

Project No. 1204.23

G:\Projects\Temp\1204 City of Oakland\1204.18 800 Cedar\1204.18 Figures\Phase I Rpt\Figure 2 - Site Plan.dwg Layout: Fig2_Sample_Locs User: oleg Oct 19, 2011 - 2:13pm

SITE PHOTOGRAPHS

Photograph 1: View of the subject Site (view to the south).

Photograph 2: Large diameter pipes currently staged across the northern and western portions of the Site.

Photograph 3: Large crane staged on-Site at the time of the reconnaissance.

Photograph 4: Typical household waste and waste paint cans observed throughout the Site.

Photograph 5: Damaged electronics and tire debris observed in the southeast portion of the Site.

Photograph 6: Unlabeled 5-gallon buckets observed along the eastern Site boundary (likely waste paint).

Photograph 7: Stockpiles of wood debris and garbage observed in the northwest corner of the Site.

Photograph 8: Remnant tracks and vaults observed within the concrete slab remaining from the former warehouse facility at the Site.

Photograph 9: A damaged well box with ~1” PVC observed in the ground on the southwest corner of the Site.

Photograph 10: A well box and PVC observed on the ground along the southern Site boundary.

Photograph 11: The area along the northern Site boundary is utilized as parking for an auto repair garage and warehouse facilities present across 9th Street.

Photograph 12: A brick sound barrier wall for Interstate 880 is present along the western Site boundary. View to the south. Former Shorey Street is visible in background followed by commercial/residential structures.

Photograph 13: View to the east. Pine Street followed by residences.

APPENDIX A
ENVIRONMENTAL LIEN SEARCH REPORT

800 Cedar
800 Cedar Street
Oakland, CA 94607

Inquiry Number: 3170104.7
September 22, 2011

The EDR Environmental LienSearch™ Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

The EDR Environmental LienSearch™ Report

The EDR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

The EDR Environmental LienSearch™ Report

TARGET PROPERTY INFORMATION

ADDRESS

800 Cedar Street
800 Cedar
Oakland, CA 94607

RESEARCH SOURCE

Source 1:

Alameda county recorder
Alameda, CA

PROPERTY INFORMATION

Deed 1:

Type of Deed:	Deed
Title is vested in:	California Department of Transportation
Title received from:	Phoenix Properties
Deed Dated	10/10/1997
Deed Recorded:	10/10/1997
Book:	NA
Page:	na
Volume:	na
Instrument:	na
Docket:	NA
Land Record Comments:	see exhibit
Miscellaneous Comments:	na
Legal Description:	see exhibit
Legal Current Owner:	California Department of Transportation
Property Identifiers:	006-0047-001
Comments:	see exhibit

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found ☐ Not Found ☒

Deed Exhibit 1

PLEASE COMPLETE THIS INFORMATION

RECORDING REQUESTED BY:

State of California

WHEN RECORDED MAIL TO:

Dept. of Transportation
P.O. Box 23440
Oakland, CA 94623-0440

DH
8
W

Recorded in Official Records, Alameda County
Patrick O'Connell, Clerk-Recorder
No Fee
97266530 12:08pm 10/10/97
005 20040440 20 12
A47 0 7.00 21.00 6.00 0.00 0.00 0.00 0.00
0.00

THIS SPACE FOR RECORDER'S USE ONLY

Final Order of Condemnation

TITLE OF DOCUMENT

THIS PAGE ADDED TO PROVIDE ADEQUATE SPACE FOR RECORDING INFORMATION
(Govt. Code 27361.6)
(Additional recording fee applies)

273-214
(Rev. 6/94)

97266530

DANIEL C. MURPHY
RICHARD COVERT
ANTONIO R. ANZIANO (State Bar No. 121302)
ARDINE ZAZZERON (State Bar No. 130109)
JANET WONG (State Bar No. 124581)
Attorneys for Plaintiff
STATE OF CALIFORNIA

595 Market Street, Suite 1700
Mail: P.O. Box 7444
San Francisco, CA 94120-7444
Telephone: (415) 982-3130

FILED
ALAMEDA COUNTY
OCT 10 1997
CLERK OF THE SUPERIOR COURT
By
DEPUTY

SUPERIOR COURT OF THE STATE OF CALIFORNIA

FOR THE COUNTY OF ALAMEDA

THE PEOPLE OF THE STATE OF CALIFORNIA, acting by and through the Department of Transportation,

Plaintiff,

v.

PHOENIX PROPERTIES, a California General Partnership, et al.,

Defendants.

No. 731654-0

Parcels 1, 2 and 3

FINAL ORDER OF CONDEMNATION

It appearing to the court that plaintiff has compensated the defendants entitled thereto the sums of money assessed by the Judgments in Condemnation entered in this proceeding; and

It further appearing to the court that plaintiff was authorized to take possession on May 20, 1994.

NOW, THEREFORE, IT IS HEREBY ORDERED, ADJUDGED AND DECREED that the real property situated in the County of Alameda, State of California, and more particularly described as follows, be condemned to plaintiff for State highway purposes, in fee simple absolute, unless a lesser estate is described:

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PARCEL 1 (50127-1):

For freeway purposes, that real property described as PARCEL A and PARCEL B below:

PARCEL A:

Being Lots 16 to 22 inclusive, Block 36, Map of Land on Oakland Point, [Rail-Road Ferry Landing] City of Oakland, Tract 406, filed May 24, 1864, Map Book 5, Page 33, Alameda County Records, described as follows:

COMMENCING at the point of intersection of the northern line of Goss Street with the eastern line of Cedar Street, as said streets are shown on the map herein referred to; thence easterly along said line of Goss Street, 105 feet 7 1/2 inches; thence northerly parallel with said line of Cedar Street, 100 feet 4 1/2 inches; thence westerly parallel with said line of Goss Street 25 feet; thence northerly parallel with said line of Cedar Street 50 feet; thence westerly parallel with said line of Goss Street 80 feet 7 1/2 inches to the eastern line of Cedar Street; thence southerly along said line of Cedar Street 150 feet 4 1/2 inches to the point of commencement.

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PARCEL B:

Portion of Block 521, Boardman's Map of Oakland and Vicinity, filed April 23, 1883, Map Book 17, Page 14, Alameda County Records, described as follows:

Beginning at the southeasterly corner of Shorrey [Short] Streets and Cedar Street; thence easterly along the southerly line of Shorey [Short] Streets 80 feet and 7 1/2 inches; thence at right angles southerly 50 feet and 4 1/2 inches; thence at right angles westerly 80 feet and 7 1/2 inches to the easterly line of Cedar Street; thence at right angles northerly along the 1st named line 50 feet and 4 1/2 inches to the point of beginning.

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PARCEL 2 (50106-1):

For freeway purposes, that real property described as follows:

The land referred to herein is situated in the State of California, County of Alameda, City of Oakland, and is described as follows:

That certain piece of Parcel of land bounded on the northeast by the southwest line of 9th Street, as said street now exists; bounded on the northwest by the southeast line of Cedar Street, as said street now exists; bounded on the southeast by the northwest line of Pine Street, as said street now exists; and bounded on the southwest by the northeast line of Shorey Street, as said street now exists.

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PARCEL 3 (50109-1):

For freeway purposes, that real property described as follows:

Beginning at the intersection of the northeasterly line of Eighth Street with the northwesterly line of Cedar Street, in said City of Oakland; thence North 31° 58' 44" East along said northeasterly line of Cedar Street, 881.82 feet to a point which is 43.50 feet southeasterly measured at right angles from center line of eastward main tract of Southern Pacific Railroad Company, between Oakland and Martinez; thence South 46° 53' 29" West parallel with and distant 50 feet southeasterly measured at right angles from center line of said eastward main tract, 600.00 feet; thence leaving said parallel line South 43° 21' 26" West 155.07 feet; thence South 47° 37' 16" West, 155.77 feet to a point on the northeasterly line of said Eighth Street; thence South 58° 01' 16" East, along said northeasterly line of Eighth Street 227.00 feet to the point of beginning.

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IT IS FURTHER ORDERED, ADJUDGED AND DECREED that a certified copy of this order be recorded in the office of the County Recorder of the County of Alameda, State of California, and thereupon title to said property described above shall vest in plaintiff and all interests of defendants PHOENIX PROPERTIES, a California General Partnership; LNB CORPORATION, SUCCESSOR IN INTEREST TO AM VAL FINANCIAL CORPORATION, as Trustee; COMMUNITY FIRST NATIONAL BANK, SUCCESSOR IN INTEREST TO AMADOR VALLEY SAVINGS AND LOAN ASSOCIATION; DREAM BUILDERS; ABRAMS, MILLIKAN & KENT; CYPRESS AUTO SALVAGE; STEVE HECK; RAMONA DOWNEY; PHOENIX PIANO WORKS; THE PIANO MOVERS; PHOENIX IRON WORKS, INC., a California corporation, sued and served as Doe One; and DUANE CASH, sued and served as Doe Two, in and to said real property shall be terminated.

DATED: 10-10-97

RICHARD A. HODGE
Judge of the Superior Court

The foregoing instrument is a
correct copy of the original
on file in this office.
ATTEST: OCT 10 1997
RONALD G. OVERHOLT
Executive Officer/Clerk of the Superior Court,
State of California, County of Alameda
BY DEPUTY

APPENDIX B
ENVIRONMENTAL DATA RESOURCES, INC.
RADIUS REPORT

800 Cedar
800 Cedar Street
Oakland, CA 94607

Inquiry Number: 3170104.2s
September 20, 2011

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION **PAGE**

GEOCHECK ADDENDUM

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

800 CEDAR STREET
OAKLAND, CA 94607

COORDINATES

Latitude (North):	37.809800 - 37˚ 48' 35.3''
Longitude (West):	122.303300 - 122˚ 18' 11.9''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	561327.9
UTM Y (Meters):	4184735.8
Elevation:	14 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	37122-G3 OAKLAND WEST, CA
Most Recent Revision:	1980

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year:	2005
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
PHOENIX 800 PROPERTY 800 CEDAR STREET OAKLAND, CA 94607	FINDS	N/A
CALTRANS 800 CEDAR ST OAKLAND, CA 94607	RCRA-SQG FINDS VCP HAZNET ENVIROSTOR Status: Inactive - Needs Evaluation	CAR000011692

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR’s search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

Proposed NPL	Proposed National Priority List Sites
NPL LIENS	Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL	National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY	Federal Facility Site Information listing

Federal RCRA CORRACTS facilities list

CORRACTS	Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF	RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG	RCRA - Large Quantity Generators
RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls

Federal ERNS list

ERNS	Emergency Response Notification System

State and tribal landfill and/or solid waste disposal site lists

SWF/LF	Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST	Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

UST	Active UST Facilities

INDIAN UST	Underground Storage Tanks on Indian Land
FEMA UST	Underground Storage Tank Listing

State and tribal voluntary cleanup sites

INDIAN VCP	Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
ODI	Open Dump Inventory
WMUDS/SWAT	Waste Management Unit Database
SWRCY	Recycler Database
HAULERS	Registered Waste Tire Haulers Listing
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL	Clandestine Drug Labs
SCH	School Property Evaluation Program
CDL	Clandestine Drug Labs
US HIST CDL	National Clandestine Laboratory Register

Local Land Records

LIENS 2	CERCLA Lien Information
LUCIS	Land Use Control Information System
LIENS	Environmental Liens Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing

Other Ascertainable Records

RCRA-NonGen	RCRA - Non Generators
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
MINES	Mines Master Index File
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System

EXECUTIVE SUMMARY

MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
RAATS	RCRA Administrative Action Tracking System
WDS	Waste Discharge System
NPDES	NPDES Permits Listing
DRYCLEANERS	Cleaner Facilities
WIP	Well Investigation Program Case List
EMI	Emissions Inventory Data
INDIAN RESERV	Indian Reservations
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
FINANCIAL ASSURANCE	Financial Assurance Information Listing
PCB TRANSFORMER	PCB Transformer Registration Database
PROC	Certified Processors Database
MWMP	Medical Waste Management Program Listing
COAL ASH DOE	Sleam-Electric Plan Operation Data

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants	EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 03/31/2011 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMCO CHEMICAL	***1414 THIRD STREET***	***SE 1/2 - 1 (0.614 mi.)***	***0***	***16***

EXECUTIVE SUMMARY

Federal CERCLIS list

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 02/25/2011 has revealed that there are 2 CERCLIS sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GAINES PROPERTY	***1795 11TH STREET***	***NE 1/8 - 1/4 (0.193 mi.)***	***J29***	***89***
USARMY OAKLAND ARMY BASE	***BLDG-1 ALASKA STREET***	***NW 1/4 - 1/2 (0.406 mi.)***	***X76***	***271***

Federal CERCLIS NFRAP site List

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 02/25/2011 has revealed that there are 3 CERC-NFRAP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BATAVIA PROPERTY	1832 9TH STREET	NE 0 - 1/8 (0.064 mi.)	C5	57

Lower Elevation	Address	Direction / Distance	Map ID	Page
WEST RECYCLER BIN STORAGE	1405 WOOD STREET	NE 1/4 - 1/2 (0.388 mi.)	U70	222
LOT AT 530-542 LEWIS STREET	530-542 LEWIS STREET	SE 1/4 - 1/2 (0.405 mi.)	V71	223

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 06/15/2011 has revealed that there are 6 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MORGAN MARINE INC	***1776 11TH ST INSIDE BLD***	***NE 1/8 - 1/4 (0.204 mi.)***	***L39***	***114***
MORGAN CHEMICAL INC	***1776 11TH ST OUTDOOR ST***	***NE 1/8 - 1/4 (0.204 mi.)***	***L40***	***115***

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MORGAN RESIDENCE	***1771 11TH STREET***	***ENE 1/8 - 1/4 (0.207 mi.)***	***L42***	***119***

Lower Elevation	Address	Direction / Distance	Map ID	Page
OCEAN CONLAINER SYSTEMS	***801 CEDAR ST***	***WSW 0 - 1/8 (0.037 mi.)***	***B3***	***54***
NAUTICAL ENGINEERING, INC	1790 - 11TH STREET	NE 1/8 - 1/4 (0.210 mi.)	J43	121
WEST OAKLAND YARD	***515 BAY STREET***	***SW 1/8 - 1/4 (0.245 mi.)***	***P52***	***188***

State- and tribal - equivalent NPL

RESPONSE: Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

A review of the RESPONSE list, as provided by EDR, and dated 08/09/2011 has revealed that there are 11 RESPONSE sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JENKINS AUTO WRECKERS	***1778 10TH STREET***	***ENE 1/8 - 1/4 (0.146 mi.)***	***G19***	***77***

Lower Elevation	Address	Direction / Distance	Map ID	Page
VACANT AUTO REPAIR	***SHOREY STREET***	***SW 0 - 1/8 (0.059 mi.)***	***B4***	***55***
GAINES PROPERTY	***1795 11TH STREET***	***NE 1/8 - 1/4 (0.193 mi.)***	***J29***	***89***
OAKLAND ARMY BASE-EARLY TRANSF	***700 MURMANSK STREET, SU***	***NW 1/8 - 1/4 (0.211 mi.)***	***M45***	***123***
528 LEWIS STREET	***528 LEWIS STREET***	***SE 1/4 - 1/2 (0.406 mi.)***	***V74***	***230***
OAKLAND ARMY BASE	***2475-D WEST 12TH STREET***	***NW 1/4 - 1/2 (0.406 mi.)***	***X75***	***239***
PORT OF OAKLAND - FORMER OAKLA	***MARITIME STREET AND 14T***	***NW 1/4 - 1/2 (0.469 mi.)***	***82***	***308***
SOUTHERN PACIFIC TRANSPORTATIO	***1707 WOOD ST***	***NE 1/2 - 1 (0.549 mi.)***	***AA92***	***324***
SF BAY AREA RAPID TRANSIT DIST	***349 MANDELA PKWY***	***SE 1/2 - 1 (0.671 mi.)***	***AB102***	***351***
PORT OF OAKLAND, BERTH 25 AND	***2500 7TH STREET***	***W 1/2 - 1 (0.806 mi.)***	***111***	***389***
OAB HEROIC WAR DEAD USAR AKA:	***2400 ENGINEER ROAD***	***N 1/2 - 1 (0.972 mi.)***	***120***	***440***

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control’s (DTSC’s) Site Mitigation and Brownfields Reuse Program’s (SMBRP’s) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 08/09/2011 has revealed that there are 46 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMCO CHEMICAL Status: Active	***1414 THIRD STREET***	***SE 1/2 - 1 (0.614 mi.)***	***0***	***16***

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BATAVIA PROPERTY Status: No Further Action	1832 9TH STREET	NE 0 - 1/8 (0.064 mi.)	C6	58
B & A AUTO DISMANTLERS Status: Certified	***1823 SHOREY STREET***	***S 0 - 1/8 (0.074 mi.)***	***D8***	***59***
OLD OAKLAND FIRE HOUSE 3 Status: Certified	***727 PINE STREET***	***S 0 - 1/8 (0.087 mi.)***	***D10***	***63***
JENKINS AUTO WRECKERS Status: Backlog	***1778 10TH STREET***	***ENE 1/8 - 1/4 (0.146 mi.)***	***G19***	***77***
CHURCH’S FRIED CHICKEN Status: Certified	***1766 7TH***	***S 1/8 - 1/4 (0.171 mi.)***	***I26***	***83***
UNITED STATES POSTAL SERVICE, Status: Certified	***1675 7TH ST***	***SE 1/4 - 1/2 (0.292 mi.)***	***R62***	***208***
WEST OAKLAND BART STATION SITE Status: Refer: Local Agency	1451 7TH STREET	SE 1/2 - 1 (0.544 mi.)	89	321
NEW OAKLAND FIRE STATION #3 Status: Certified	***CENTER AND 14TH STREET***	***E 1/2 - 1 (0.577 mi.)***	***96***	***337***
SMILO CHEMICAL COMPANY Status: Inactive - Needs Evaluation	***500 KIRKHAM STREET***	***ESE 1/2 - 1 (0.755 mi.)***	***106***	***368***
PALM COURT Status: No Further Action	***902 UNION STREET***	***ESE 1/2 - 1 (0.784 mi.)***	***108***	***384***
NABISCO Status: No Further Action	1267 14TH STREET	E 1/2 - 1 (0.803 mi.)	AC109	387
CONDOR FREIGHT Status: No Further Action	***324 UNION ST***	***ESE 1/2 - 1 (0.810 mi.)***	***112***	***409***

Lower Elevation	Address	Direction / Distance	Map ID	Page
VACANT AUTO REPAIR Status: No Further Action	***SHOREY STREET***	***SW 0 - 1/8 (0.059 mi.)***	***B4***	***55***
WILFRED’S AUTO WRECKING Status: Certified	***1834 7TH STREET***	***SSW 1/8 - 1/4 (0.143 mi.)***	***17***	***73***
GAINES PROPERTY Status: Certified	***1795 11TH STREET***	***NE 1/8 - 1/4 (0.193 mi.)***	***J29***	***89***
LIPS PROPELLERS Status: No Further Action	***1899 7TH***	***SW 1/8 - 1/4 (0.194 mi.)***	***K30***	***100***
OAKLAND ARMY BASE-EARLY TRANSF Status: Active	***700 MURMANSK STREET, SU***	***NW 1/8 - 1/4 (0.211 mi.)***	***M45***	***123***
CAL-EAST FOODS Status: Certified	***505 CEDAR STREET***	***S 1/8 - 1/4 (0.234 mi.)***	***O48***	***170***
PHOENIX 524 PROPERTY Status: Inactive - Needs Evaluation	***524 CEDAR STREET***	***SSE 1/8 - 1/4 (0.238 mi.)***	***O49***	***177***
VACANT BUILDING ON 5TH STREET Status: Inactive - Needs Evaluation	***1851 5TH STREET***	***SW 1/8 - 1/4 (0.245 mi.)***	***P51***	***183***
SO. PRESCOTT NEIGHBORHOOD PARK Status: Certified	***3RD STREET***	***S 1/4 - 1/2 (0.291 mi.)***	***60***	***203***
WEST RECYCLER BIN STORAGE Status: Refer: RWQCB	1405 WOOD STREET	NE 1/4 - 1/2 (0.388 mi.)	U69	221

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
WILLOW PARK Status: No Further Action	***1368 WILLOW STREET***	***ENE 1/4 - 1/2 (0.406 mi.)***	***W72***	***224***
528 LEWIS STREET Status: Certified	***528 LEWIS STREET***	***SE 1/4 - 1/2 (0.406 mi.)***	***V74***	***230***
OAKLAND ARMY BASE Status: Active	***2475-D WEST 12TH STREET***	***NW 1/4 - 1/2 (0.406 mi.)***	***X75***	***239***
CYPRESS FREEWAY-3RD STREET SOU Status: Certified	***3RD STREET BETWEEN CENT***	***SSE 1/4 - 1/2 (0.459 mi.)***	***81***	***305***
PORT OF OAKLAND - FORMER OAKLA Status: Certified / Operation & Maintenance	***MARITIME STREET AND 14T***	***NW 1/4 - 1/2 (0.469 mi.)***	***82***	***308***
BASF CORPORATION Status: Refer: RWQCB	1545 WILLOW STREET	ENE 1/4 - 1/2 (0.489 mi.)	Z86	317
SOUTHERN PACIFIC TRANSPORTATIO Status: Refer: RWQCB	***1707 WOOD ST***	***NE 1/2 - 1 (0.549 mi.)***	***AA92***	***324***
1536 THIRD STREET Status: Refer: Other Agency	1536 THIRD STREET	SSE 1/2 - 1 (0.554 mi.)	94	329
RELIANCE UPHOLSTERY SUPPLY Status: Certified	***1614 CAMPBELL STREET***	***ENE 1/2 - 1 (0.564 mi.)***	***95***	***331***
MANNYSERVICES/MCKINNEY GAS Status: Refer: Other Agency	1600 PERALTA	ENE 1/2 - 1 (0.608 mi.)	97	340
A. BERCOVICH 18TH STREET Status: Certified O&M - Land Use Restrictions Only	***1639 18TH STREET***	***ENE 1/2 - 1 (0.665 mi.)***	***99***	***342***
CA SODA CO Status: No Further Action	***355 MANDELA PKWY***	***SE 1/2 - 1 (0.669 mi.)***	***AB101***	***348***
SF BAY AREA RAPID TRANSIT DIST Status: Certified	***349 MANDELA PKWY***	***SE 1/2 - 1 (0.671 mi.)***	***AB102***	***351***
BOBO’S JUNKYARD Status: Certified / Operation & Maintenance	***1401 THIRD STREET***	***SE 1/2 - 1 (0.672 mi.)***	***103***	***357***
ALTA PLATING & CHEMICAL CORP. Status: Inactive - Needs Evaluation	1433 18TH STREET	ENE 1/2 - 1 (0.728 mi.)	104	367
CONTAINER FREIGHT Status: Inactive - Needs Evaluation	***1285 5TH***	***SE 1/2 - 1 (0.758 mi.)***	***107***	***377***
PORT OF OAKLAND, BERTH 25 AND Status: Active	***2500 7TH STREET***	***W 1/2 - 1 (0.806 mi.)***	***111***	***389***
AMTRAK MAINTENANCE FACILITY Status: Certified / Operation & Maintenance	***3RD & UNION STREETS***	***SE 1/2 - 1 (0.835 mi.)***	***113***	***416***
ARMY-NAVY DISTRIBUTING CENTER Status: No Further Action	2233 WOOD STREET	NE 1/2 - 1 (0.859 mi.)	AD114	424
LDS TRUCKING Status: Certified	***2233 WOOD STREET***	***NE 1/2 - 1 (0.861 mi.)***	***AD115***	***425***
SHEREX CHEMICAL COMPANY INC Status: Refer: Local Agency	***1401 MIDDLE HARBOR RD***	***SSE 1/2 - 1 (0.880 mi.)***	***116***	***430***
MANDELA GRAND Status: Inactive - Needs Evaluation	***MANDELA PARKWAY AND WES***	***ENE 1/2 - 1 (0.905 mi.)***	***117***	***436***
OAB HEROIC WAR DEAD USAR AKA: Status: Certified / Operation & Maintenance Status: No Further Action	***2400 ENGINEER ROAD***	***N 1/2 - 1 (0.972 mi.)***	***120***	***440***

EXECUTIVE SUMMARY

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 08/09/2011 has revealed that there are 18 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GOSSWOOD HOUSING ASSOCIAT Status: Completed - Case Closed	***1751 GOSS***	***SSE 1/8 - 1/4 (0.157 mi.)***	***21***	***80***
CHURCH'S FRIED CHICKEN Status: Completed - Case Closed	***1766 7TH***	***S 1/8 - 1/4 (0.171 mi.)***	***I26***	***83***
UNITED STATES POSTAL SERVICE, Status: Open - Site Assessment	***1675 7TH ST***	***SE 1/4 - 1/2 (0.292 mi.)***	***R62***	***208***
RELIABLE HANDI CAR Status: Completed - Case Closed	***1520 7TH***	***SE 1/4 - 1/2 (0.471 mi.)***	***83***	***313***

Lower Elevation	Address	Direction / Distance	Map ID	Page
PHOENIX IRON WORKS Status: Open - Site Assessment	***888 CEDAR***	***NE 0 - 1/8 (0.100 mi.)***	***E11***	***68***
BONNELLI ENTERPRISES Status: Completed - Case Closed	***1111 PINE***	***NE 1/8 - 1/4 (0.198 mi.)***	***J34***	***106***
SOUTHERN PACIFIC TRANSPORTATIO Status: Completed - Case Closed	***1912 7TH***	***WSW 1/8 - 1/4 (0.203 mi.)***	***K38***	***112***
CAL-EAST FOODS Status: Completed - Case Closed	***505 CEDAR STREET***	***S 1/8 - 1/4 (0.234 mi.)***	***O48***	***170***
ALL WEATHER DOOR Status: Open - Site Assessment	1851 5TH ST	SW 1/8 - 1/4 (0.245 mi.)	P50	182
VACANT BUILDING ON 5TH STREET	***1851 5TH STREET***	***SW 1/8 - 1/4 (0.245 mi.)***	***P51***	***183***
SOUTHERN PACIFIC DESERT RAIL Status: Open - Site Assessment	515 BAY ST	SSW 1/8 - 1/4 (0.247 mi.)	Q56	196
SPT CO LOCO FUEL PLANT WD	***UNKNOWN PINE ST FOOT OF***	***SSW 1/4 - 1/2 (0.267 mi.)***	***59***	***202***
TAYLOR ROOF STRUCTURES Status: Completed - Case Closed	***1746 13TH***	***ENE 1/4 - 1/2 (0.354 mi.)***	***S64***	***216***
SOUTHERN PACIFIC TRANS CO Status: Completed - Case Closed	***1399 WOOD***	***NE 1/4 - 1/2 (0.384 mi.)***	***T67***	***219***
PORT OF OAKLAND YUSEN TERMINAL Status: Completed - Case Closed	***1195 MARITIME***	***NW 1/4 - 1/2 (0.452 mi.)***	***Y77***	***294***
UTILITY TRUCK BODIES Status: Completed - Case Closed	***1530 WOOD ST***	***NE 1/4 - 1/2 (0.453 mi.)***	***80***	***303***
BASF CORPORATION Status: Completed - Case Closed	***1545 WILLOW ST***	***ENE 1/4 - 1/2 (0.489 mi.)***	***Z85***	***314***
BASF CORPORATION Status: Completed - Case Closed	1545 WILLOW	ENE 1/4 - 1/2 (0.489 mi.)	Z87	318

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 08/09/2011 has revealed that there are 5 SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USPS - MAIN POST OFFICE ELEVAT Facility Status: Open - Site Assessment	1675 7TH ST	SE 1/4 - 1/2 (0.292 mi.)	R61	207

Lower Elevation	Address	Direction / Distance	Map ID	Page
PACIFIC CANNERY LOFTS (PCL) Facility Status: Completed - Case Closed	1111-1199 PINE STREET	NE 1/8 - 1/4 (0.198 mi.)	J33	106
14TH ST APARTMENTS @ CENTRAL S Facility Status: Open - Remediation	***1801 14TH ST***	***NE 1/4 - 1/2 (0.376 mi.)***	***T65***	***217***
CENTRAL STATION LAND, LLC	1399-1707 WOOD STREET	NE 1/4 - 1/2 (0.384 mi.)	T66	218
CENTRAL STATION VILLAGE Facility Status: Completed - Case Closed	1401-1599 WOOD STREET	NE 1/4 - 1/2 (0.387 mi.)	U68	221

Alameda County CS: A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

A review of the Alameda County CS list, as provided by EDR, and dated 07/21/2011 has revealed that there are 15 Alameda County CS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GOSSWOOD HOUSING ASSOCIAT	***1751 GOSS***	***SSE 1/8 - 1/4 (0.157 mi.)***	***21***	***80***
CHURCHS FRIED CHICKEN / CALTRA	1766 7TH ST	S 1/8 - 1/4 (0.171 mi.)	I27	89
UNITED STATES POSTAL SERVICE,	***1675 7TH ST***	***SE 1/4 - 1/2 (0.292 mi.)***	***R62***	***208***
RELIABLE HANDI CAR	***1520 7TH***	***SE 1/4 - 1/2 (0.471 mi.)***	***83***	***313***

Lower Elevation	Address	Direction / Distance	Map ID	Page
PHOENIX IRON WORKS	***888 CEDAR***	***NE 0 - 1/8 (0.100 mi.)***	***E11***	***68***
BONNELLI ENTERPRISES	***1111 PINE***	***NE 1/8 - 1/4 (0.198 mi.)***	***J34***	***106***
SOUTHERN PACIFIC TRANSPORTATIO	***1912 7TH***	***WSW 1/8 - 1/4 (0.203 mi.)***	***K38***	***112***
CAL-EAST FOODS	***505 CEDAR STREET***	***S 1/8 - 1/4 (0.234 mi.)***	***O48***	***170***
VACANT BUILDING ON 5TH STREET	***1851 5TH STREET***	***SW 1/8 - 1/4 (0.245 mi.)***	***P51***	***183***
S.P. CO. DESERT YARD	***515 BAY ST***	***SSW 1/8 - 1/4 (0.247 mi.)***	***Q58***	***201***
TAYLOR ROOF STRUCTURES	***1746 13TH***	***ENE 1/4 - 1/2 (0.354 mi.)***	***S64***	***216***
SOUTHERN PACIFIC TRANS CO	***1399 WOOD***	***NE 1/4 - 1/2 (0.384 mi.)***	***T67***	***219***
STEVEDORING SERVICES OF AMERIC	***1195 MARITIME ST***	***NW 1/4 - 1/2 (0.452 mi.)***	***Y79***	***298***
UTILITY TRUCK BODIES	***1530 WOOD ST***	***NE 1/4 - 1/2 (0.453 mi.)***	***80***	***303***
BASF CORPORATION	***1545 WILLOW ST***	***ENE 1/4 - 1/2 (0.489 mi.)***	***Z85***	***314***

State and tribal registered storage tank lists

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the State Water Resources Control Board’s Hazardous Substance Storage Container Database.

A review of the AST list, as provided by EDR, and dated 08/01/2009 has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
WEST OAKLAND YARD	1851 FIFTH ST.	SW 1/8 - 1/4 (0.245 mi.)	P53	192

State and tribal voluntary cleanup sites

VCP: Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

A review of the VCP list, as provided by EDR, and dated 08/09/2011 has revealed that there are 12 VCP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
B & A AUTO DISMANTLERS	***1823 SHOREY STREET***	***S 0 - 1/8 (0.074 mi.)***	***D8***	***59***
OLD OAKLAND FIRE HOUSE 3	***727 PINE STREET***	***S 0 - 1/8 (0.087 mi.)***	***D10***	***63***
CHURCH'S FRIED CHICKEN	***1766 7TH***	***S 1/8 - 1/4 (0.171 mi.)***	***I26***	***83***
UNITED STATES POSTAL SERVICE,	***1675 7TH ST***	***SE 1/4 - 1/2 (0.292 mi.)***	***R62***	***208***

Lower Elevation	Address	Direction / Distance	Map ID	Page
WILFRED'S AUTO WRECKING	***1834 7TH STREET***	***SSW 1/8 - 1/4 (0.143 mi.)***	***17***	***73***
LIPS PROPELLERS	***1899 7TH***	***SW 1/8 - 1/4 (0.194 mi.)***	***K30***	***100***
CAL-EAST FOODS	***505 CEDAR STREET***	***S 1/8 - 1/4 (0.234 mi.)***	***O48***	***170***
PHOENIX 524 PROPERTY	***524 CEDAR STREET***	***SSE 1/8 - 1/4 (0.238 mi.)***	***O49***	***177***
VACANT BUILDING ON 5TH STREET	***1851 5TH STREET***	***SW 1/8 - 1/4 (0.245 mi.)***	***P51***	***183***
SO. PRESCOTT NEIGHBORHOOD PARK	***3RD STREET***	***S 1/4 - 1/2 (0.291 mi.)***	***60***	***203***
WILLOW PARK	***1368 WILLOW STREET***	***ENE 1/4 - 1/2 (0.406 mi.)***	***W72***	***224***
CYPRESS FREEWAY-3RD STREET SOU	***3RD STREET BETWEEN CENT***	***SSE 1/4 - 1/2 (0.459 mi.)***	***81***	***305***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properites addressed by Cooperative Agreement Recipients and Brownfields properties addressed by Targeted Brownfields Assessments

A review of the US BROWNFIELDS list, as provided by EDR, and dated 06/27/2011 has revealed that there is 1 US BROWNFIELDS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
WILLOW PARK	1368 WILLOW STREET	ENE 1/4 - 1/2 (0.406 mi.)	W73	227

Local Lists of Hazardous waste / Contaminated Sites

HIST Cal-Sites: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

A review of the HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there are 8 HIST Cal-Sites sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMCO CHEMICAL	***1414 THIRD STREET***	***SE 1/2 - 1 (0.614 mi.)***	***0***	***16***

Lower Elevation	Address	Direction / Distance	Map ID	Page
GAINES PROPERTY	***1795 11TH STREET***	***NE 1/8 - 1/4 (0.193 mi.)***	***J29***	***89***
OAKLAND ARMY BASE-EARLY TRANSF	***700 MURMANSK STREET, SU***	***NW 1/8 - 1/4 (0.211 mi.)***	***M45***	***123***
528 LEWIS STREET	***528 LEWIS STREET***	***SE 1/4 - 1/2 (0.406 mi.)***	***V74***	***230***
OAKLAND ARMY BASE	***2475-D WEST 12TH STREET***	***NW 1/4 - 1/2 (0.406 mi.)***	***X75***	***239***
SF BAY AREA RAPID TRANSIT DIST	***349 MANDELA PKWY***	***SE 1/2 - 1 (0.671 mi.)***	***AB102***	***351***
PORT OF OAKLAND, BERTH 25 AND	***2500 7TH STREET***	***W 1/2 - 1 (0.806 mi.)***	***111***	***389***
OAB HEROIC WAR DEAD USAR AKA:	***2400 ENGINEER ROAD***	***N 1/2 - 1 (0.972 mi.)***	***120***	***440***

Toxic Pits: The Toxic Pits Cleanup Act Sites database identifies sites suspected of containing hazardous substances where cleanup has not yet been completed. The data come from the State Water Resources Control Board.

A review of the Toxic Pits list, as provided by EDR, and dated 07/01/1995 has revealed that there are 2 Toxic Pits sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SP, W.OAKLAND YD.-(OILY WASTE) Closure Date: 04/21/93	1707 WOOD STREET	NE 1/2 - 1 (0.549 mi.)	AA90	323
SP, W.OAKLAND YARD-(WASHWATER) Closure Date: 06/30/92	1707 WOOD STREET	NE 1/2 - 1 (0.549 mi.)	AA91	324

Local Lists of Registered Storage Tanks

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 5 CA FID UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PHOENIX IRON WORKS	***888 CEDAR***	***NE 0 - 1/8 (0.100 mi.)***	***E11***	***68***
GLOBE METALS CO.	***1820 010TH ST***	***NNE 1/8 - 1/4 (0.136 mi.)***	***15***	***72***
BONNELLI ENTERPRISES	***1111 PINE***	***NE 1/8 - 1/4 (0.198 mi.)***	***J34***	***106***
SOUTHERN PACIFIC TRANSPORTAIO	***1912 007TH ST***	***SW 1/8 - 1/4 (0.207 mi.)***	***K41***	***118***
SOUTHERN PACIFIC DESERT Y	***515 BAY***	***SSW 1/8 - 1/4 (0.247 mi.)***	***Q57***	***196***

EXECUTIVE SUMMARY

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 7 HIST UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PHOENIX IRON WKS.	888 CEDAR ST.	NE 0 - 1/8 (0.100 mi.)	E12	71
GLOBE METALS CO.	1820 10TH ST	NE 1/8 - 1/4 (0.126 mi.)	F14	71
ADELPHI ALUMINUM CO.	1111 PINE ST	NE 1/8 - 1/4 (0.198 mi.)	J32	105
SOUTHERN PACIFIC TRANSPORTATIO	1912 7TH AVE	WSW 1/8 - 1/4 (0.203 mi.)	K36	111
ALL-WEATHER ARCH. ALUM. INC.	***1851 5TH ST***	***SW 1/8 - 1/4 (0.245 mi.)***	***P54***	***192***
W.O. RIP TRACK	515 BAY ST	SSW 1/8 - 1/4 (0.247 mi.)	Q55	195
S.P. CO. DESERT YARD	***515 BAY ST***	***SSW 1/8 - 1/4 (0.247 mi.)***	***Q58***	***201***

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 8 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GOSSWOOD HOUSING ASSOCIAT	***1751 GOSS***	***SSE 1/8 - 1/4 (0.157 mi.)***	***21***	***80***

Lower Elevation	Address	Direction / Distance	Map ID	Page
PHOENIX IRON WORKS	***888 CEDAR***	***NE 0 - 1/8 (0.100 mi.)***	***E11***	***68***
GLOBE METALS CO.	***1820 010TH ST***	***NNE 1/8 - 1/4 (0.136 mi.)***	***15***	***72***
BONNELLI ENTERPRISES	***1111 PINE***	***NE 1/8 - 1/4 (0.198 mi.)***	***J34***	***106***
SOUTHERN PACIFIC TRANSPORTAIO	***1912 007TH ST***	***SW 1/8 - 1/4 (0.207 mi.)***	***K41***	***118***
CAL-EAST FOODS	***505 CEDAR STREET***	***S 1/8 - 1/4 (0.234 mi.)***	***O48***	***170***
SOUTHERN PACIFIC DESERT Y	***515 BAY***	***SSW 1/8 - 1/4 (0.247 mi.)***	***Q57***	***196***
S.P. CO. DESERT YARD	***515 BAY ST***	***SSW 1/8 - 1/4 (0.247 mi.)***	***Q58***	***201***

Local Land Records

DEED: The use of recorded land use restrictions is one of the methods the DTSC uses to protect the public from unsafe exposures to hazardous substances and wastes .

A review of the DEED list, as provided by EDR, and dated 06/13/2011 has revealed that there is 1 DEED site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
OAKLAND ARMY BASE	***2475-D WEST 12TH STREET***	***NW 1/4 - 1/2 (0.406 mi.)***	***X75***	***239***

Other Ascertainable Records

DOD: Consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OAKLAND ARMY BASE (CLOSED)		NW 1/4 - 1/2 (0.433 mi.)	0	15

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 12/31/2009 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ARMY-NAVY DISTRIBUTING CENTER		NE 1/2 - 1 (0.932 mi.)	119	439

CA BOND EXP. PLAN: Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

A review of the CA BOND EXP. PLAN list, as provided by EDR, and dated 01/01/1989 has revealed that there is 1 CA BOND EXP. PLAN site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SOUTHERN PACIFIC TRANSPORTATIO	1707 WOOD STREET	NE 1/2 - 1 (0.549 mi.)	AA93	329

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

A review of the Cortese list, as provided by EDR, and dated 07/01/2011 has revealed that there are 4 Cortese sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JENKINS AUTO WRECKERS	1778 10TH STREET	ENE 1/8 - 1/4 (0.146 mi.)	G18	77

Lower Elevation	Address	Direction / Distance	Map ID	Page
OAKLAND GATEWAY DEVELOPMENT AR	700 MURMANSK STREET, SU	NW 1/8 - 1/4 (0.211 mi.)	M44	122
OAKLAND ARMY BASE	***2475-D WEST 12TH STREET***	***NW 1/4 - 1/2 (0.406 mi.)***	***X75***	***239***
PORT OF OAKLAND - FORMER OAKLA	***MARITIME STREET AND 14T***	***NW 1/4 - 1/2 (0.469 mi.)***	***82***	***308***

EXECUTIVE SUMMARY

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES].

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 20 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
PEP BOYS	1818 SHOREY	S 0 - 1/8 (0.072 mi.)	D7	59
GOSSWOOD HOUSING ASSOCIAT	***1751 GOSS***	***SSE 1/8 - 1/4 (0.157 mi.)***	***21***	***80***
CHURCH'S FRIED CHICKEN	***1766 7TH***	***S 1/8 - 1/4 (0.171 mi.)***	***I26***	***83***
UNITED STATES POSTAL SERVICE,	***1675 7TH ST***	***SE 1/4 - 1/2 (0.292 mi.)***	***R62***	***208***
RELIABLE HANDI CAR	***1520 7TH***	***SE 1/4 - 1/2 (0.471 mi.)***	***83***	***313***

Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
PHOENIX IRON WORKS	***888 CEDAR***	***NE 0 - 1/8 (0.100 mi.)***	***E11***	***68***
GLOBE METALS COMPANY	182010TH	NE 1/8 - 1/4 (0.125 mi.)	F13	71
LIPS PROPELLERS	***1899 7TH***	***SW 1/8 - 1/4 (0.194 mi.)***	***K30***	***100***
BONNELLI ENTERPRISES	***1111 PINE***	***NE 1/8 - 1/4 (0.198 mi.)***	***J34***	***106***
SOUTHERN PACIFIC TRANS CO	1912 7TH	WSW 1/8 - 1/4 (0.203 mi.)	K37	112
CAL-EAST FOODS	***505 CEDAR STREET***	***S 1/8 - 1/4 (0.234 mi.)***	***O48***	***170***
PHOENIX 524 PROPERTY	***524 CEDAR STREET***	***SSE 1/8 - 1/4 (0.238 mi.)***	***O49***	***177***
VACANT BUILDING ON 5TH STREET	***1851 5TH STREET***	***SW 1/8 - 1/4 (0.245 mi.)***	***P51***	***183***
SOUTHERN PACIFIC DESERT Y	***515 BAY***	***SSW 1/8 - 1/4 (0.247 mi.)***	***Q57***	***196***
SPT CO LOCO FUEL PLANT WD	***UNKNOWN PINE ST FOOT OF***	***SSW 1/4 - 1/2 (0.267 mi.)***	***59***	***202***
TAYLOR ROOF STRUCTURES	***1746 13TH***	***ENE 1/4 - 1/2 (0.354 mi.)***	***S64***	***216***
SOUTHERN PACIFIC TRANS CO	***1399 WOOD***	***NE 1/4 - 1/2 (0.384 mi.)***	***T67***	***219***
STEVEDORING SVCS OF AMERI	***1195 MARITIME***	***NW 1/4 - 1/2 (0.452 mi.)***	***Y78***	***296***
UTILITY TRUCK BODIES	***1530 WOOD ST***	***NE 1/4 - 1/2 (0.453 mi.)***	***80***	***303***
BASF CORPORATION	1545 WILLOW	ENE 1/4 - 1/2 (0.489 mi.)	Z84	314

Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the Notify 65 list, as provided by EDR, and dated 10/21/1993 has revealed that there are 7 Notify 65 sites within approximately 1 mile of the target property.

Equal/Higher Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
NABISCO BRANDS, INC.	1267 14TH STREET	E 1/2 - 1 (0.803 mi.)	AC110	388

Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
TAYLOR ROOF STRUCTURES	1769 13TH STREET	ENE 1/4 - 1/2 (0.345 mi.)	S63	216
FORMER PAKER WAREHOUSE	***801 MARITIME***	***W 1/2 - 1 (0.501 mi.)***	***88***	***319***
SEA-LAND SERVICE, INC.	***1425 MARITIME STREET***	***N 1/2 - 1 (0.634 mi.)***	***98***	***341***
MARINE TERMINAL	1195 MARITIME	WNW 1/2 - 1 (0.669 mi.)	100	348
BUILDING 331 EAST	7 MERRITIME	NNE 1/2 - 1 (0.729 mi.)	105	368
C-103 YARD	2700 7TH STEET	W 1/2 - 1 (0.906 mi.)	118	439

EXECUTIVE SUMMARY

EDR PROPRIETARY RECORDS

EDR Proprietary Records

EDR Historical Auto Stations: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

A review of the EDR Historical Auto Stations list, as provided by EDR, has revealed that there are 2 EDR Historical Auto Stations sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EDO S AUTOMOTIVE	1807 SHOREY ST	S 0 - 1/8 (0.075 mi.)	D9	63
DAHL SAML	1775 7TH ST	S 1/8 - 1/4 (0.169 mi.)	I25	82

EDR Historical Cleaners: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

A review of the EDR Historical Cleaners list, as provided by EDR, has revealed that there are 9 EDR Historical Cleaners sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SUNLIGHT CLEANERS	801 WOOD ST	SSE 1/8 - 1/4 (0.139 mi.)	16	73
MIYAKE TAKITARO	1796 7TH ST	S 1/8 - 1/4 (0.147 mi.)	H20	79
RAMSAY GRANT	1777 7TH ST	S 1/8 - 1/4 (0.169 mi.)	I24	82
RITCHEY GUS	1753 7TH ST	S 1/8 - 1/4 (0.177 mi.)	I28	89
LOUSTALET M A MRS	1735 10TH ST	E 1/8 - 1/4 (0.196 mi.)	31	105
HOSHISAKI S	1725 7TH ST	SSE 1/8 - 1/4 (0.224 mi.)	N46	170
KONDO SEKI	1726 7TH ST	SSE 1/8 - 1/4 (0.227 mi.)	N47	170

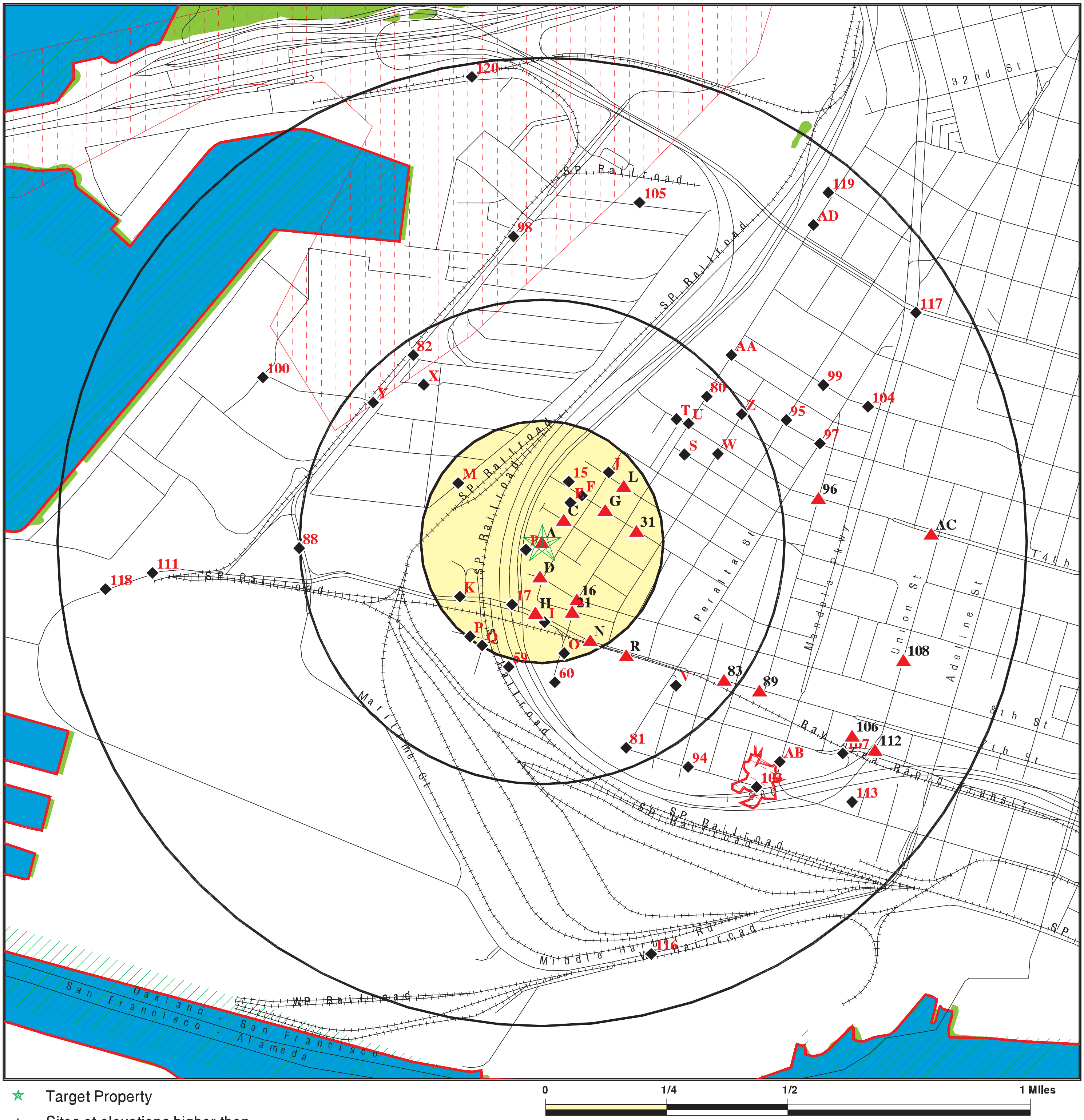
Lower Elevation	Address	Direction / Distance	Map ID	Page
L AND E CLEANERS	1791 7TH ST	S 1/8 - 1/4 (0.165 mi.)	H22	82
SAPATA LEONIDES	1787 7TH ST	S 1/8 - 1/4 (0.166 mi.)	I23	82

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 38 records.

Site Name	Database(s)
PHOENIX 766 PROPERTY	HIST CORTESE, VCP, ENVIROSTOR
SOUTHERN PACIFIC	HIST CORTESE, LUST, CA FID UST, Alameda County CS, SWEEPS UST
OAKLAND CITY OF PARKING S	HIST CORTESE
SOUTHERN PACIFIC RAILYARD	HIST CORTESE
BART MAINTENANCE FACILITY	HIST CORTESE
VACANT LOT	HIST CORTESE
SOUTHERN PACIFIC TRANSPORT COMPANY	HIST CORTESE, LUST
CALTRANS EAST BAY SERVICE ROAD TEN	Alameda County CS
UNION PACIFIC RAILROAD/SPT CO LOCO	Alameda County CS
CITY OF OAKLAND POLICE STATION	Alameda County CS
CALTRANS CYPRESS PROJECT	Alameda County CS
BAYPORTE VILLAGE (ACORN II APARTME	Alameda County CS
BNSF WOOD STREET YARD	HIST Cal-Sites, DEED, RESPONSE, ENVIROSTOR
IKEA (FORMER BARBARY COAST)	HIST Cal-Sites, Cortese, DEED, EMI
EBMUD POLLUTION CONTRL PLANT	LUST, CHMIRS
FOSTER’S PLATING	CERCLIS
EMERYVILLE MARKETPLACE	CERC-NFRAP
CAPITOL REF CO	CERC-NFRAP
PG&E GAS PLANT OAKLAND 601 2	CERC-NFRAP
EAST BAY MUNICIPAL UTILITY DISTRIC	SWF/LF
GREYHOUND LINE INC	LUST
OAKLAND OEDE CITY OF	LUST, SLIC
SOUTHERN PACIFIC RAILYARD	LUST
P*I*E NATIONWIDE, INC.	HIST UST
RYDER/PIE NATIONWIDE, INC.	HIST UST
JUDSON STEEL CORPORATION	HIST UST
STEAM PLANT, W.O. DIESEL SHOP	HIST UST
OAKLAND TERMINAL	AST
DEPARTMENT OF TRANSPORTATION	RCRA-SQG, HAZNET
CALTRANS DIST 4 OAKLAND TOUCHDOWN	RCRA-LQG
5TH AND CEDAR	ERNS
7TH AND CEDAR STS	ERNS
OAKLAND TERMINAL RAILWAY PROPERTY	SLIC
UNION PACIFIC RAILROAD - 5TH AND U	SLIC
UNION PACIFIC RAILROAD/SPT CO LOCO	SLIC
BAY BRIDGE TOLL PLAZA	SLIC
OAKLAND CITY OF	SLIC
ST ALBANS SENIOR CENTER	ENVIROSTOR

OVERVIEW MAP - 3170104.2s



★ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

♟ Manufactured Gas Plants

▨ National Priority List Sites

▨ Dept. Defense Sites

▨ Indian Reservations BIA

╱ County Boundary

╱ Oil & Gas pipelines from USGS

▨ 100-year flood zone

▨ 500-year flood zone

🟩 National Wetland Inventory

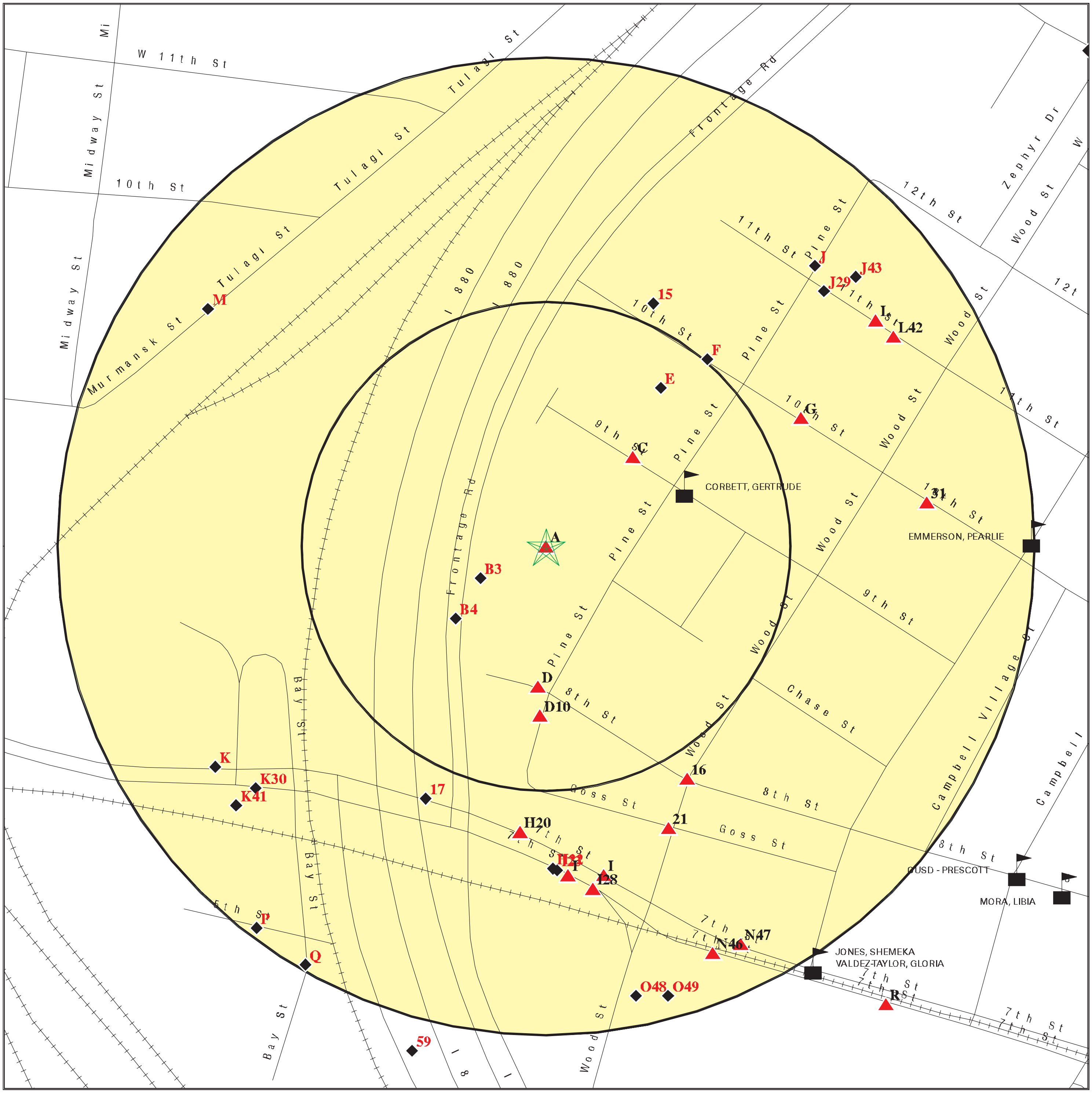
▦ Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 800 Cedar
ADDRESS: 800 Cedar Street
Oakland CA 94607
LAT/LONG: 37.8098 / 122.3033

CLIENT: Northgate Env. Management Inc.
CONTACT: Anya Starovoytov
INQUIRY #: 3170104.2s
DATE: September 20, 2011 6:04 pm

DETAIL MAP - 3170104.2s



0 1/16 1/8 1/4 Miles

☆ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

♟ Manufactured Gas Plants

⚑ Sensitive Receptors

▨ National Priority List Sites

▨ Dept. Defense Sites

▨ Indian Reservations BIA

Oil & Gas pipelines from USGS

▨ 100-year flood zone

▨ 500-year flood zone

▦ Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	800 Cedar	CLIENT:	Northgate Env. Management Inc.
ADDRESS:	800 Cedar Street Oakland CA 94607	CONTACT:	Anya Starovoytov
		INQUIRY #:	3170104.2s
LAT/LONG:	37.8098 / 122.3033	DATE:	September 20, 2011 6:05 pm

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL		1.000	0	0	0	1	NR	1
Proposed NPL		1.000	0	0	0	0	NR	0
NPL LIENS		TP	NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL		1.000	0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS		0.500	0	1	1	NR	NR	2
FEDERAL FACILITY		1.000	0	0	0	0	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP		0.500	1	0	2	NR	NR	3
Federal RCRA CORRACTS facilities list								
CORRACTS		1.000	0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF		0.500	0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG		0.250	0	0	NR	NR	NR	0
RCRA-SQG	X	0.250	1	5	NR	NR	NR	6
RCRA-CESQG		0.250	0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
Federal ERNS list								
ERNS		TP	NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE		1.000	1	3	3	4	NR	11
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	X	1.000	4	9	9	24	NR	46
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF		0.500	0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST		0.500	1	8	9	NR	NR	18
SLIC		0.500	0	1	4	NR	NR	5

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Alameda County CS		0.500	1	7	7	NR	NR	15
INDIAN LUST		0.500	0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST		0.250	0	0	NR	NR	NR	0
AST		0.250	0	1	NR	NR	NR	1
INDIAN UST		0.250	0	0	NR	NR	NR	0
FEMA UST		0.250	0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	X	0.500	2	6	4	NR	NR	12
INDIAN VCP		0.500	0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS		0.500	0	0	1	NR	NR	1
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
HAULERS		TP	NR	NR	NR	NR	NR	0
INDIAN ODI		0.500	0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL		TP	NR	NR	NR	NR	NR	0
HIST Cal-Sites		1.000	0	2	2	4	NR	8
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	2	NR	2
CDL		TP	NR	NR	NR	NR	NR	0
US HIST CDL		TP	NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA FID UST		0.250	1	4	NR	NR	NR	5
HIST UST		0.250	1	6	NR	NR	NR	7
SWEEPS UST		0.250	1	7	NR	NR	NR	8
Local Land Records								
LIENS 2		TP	NR	NR	NR	NR	NR	0
LUCIS		0.500	0	0	0	NR	NR	0
LIENS		TP	NR	NR	NR	NR	NR	0
DEED		0.500	0	0	1	NR	NR	1
Records of Emergency Release Reports								
HMIRS		TP	NR	NR	NR	NR	NR	0
CHMIRS		TP	NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LDS		TP	NR	NR	NR	NR	NR	0
MCS		TP	NR	NR	NR	NR	NR	0

Other Ascertainable Records

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
RCRA-NonGen		0.250	0	0	NR	NR	NR	0
DOT OPS		TP	NR	NR	NR	NR	NR	0
DOD		1.000	0	0	1	0	NR	1
FUDS		1.000	0	0	0	1	NR	1
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
HIST FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
FINDS	X	TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
CA BOND EXP. PLAN		1.000	0	0	0	1	NR	1
WDS		TP	NR	NR	NR	NR	NR	0
NPDES		TP	NR	NR	NR	NR	NR	0
Cortese		0.500	0	2	2	NR	NR	4
HIST CORTESE		0.500	2	10	8	NR	NR	20
Notify 65		1.000	0	0	1	6	NR	7
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
HAZNET	X	TP	NR	NR	NR	NR	NR	0
EMI		TP	NR	NR	NR	NR	NR	0
INDIAN RESERV		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0
HWP		1.000	0	0	0	0	NR	0
HWT		0.250	0	0	NR	NR	NR	0
COAL ASH EPA		0.500	0	0	0	NR	NR	0
FINANCIAL ASSURANCE		TP	NR	NR	NR	NR	NR	0
PCB TRANSFORMER		TP	NR	NR	NR	NR	NR	0
PROC		0.500	0	0	0	NR	NR	0
MWMP		0.250	0	0	NR	NR	NR	0
COAL ASH DOE		TP	NR	NR	NR	NR	NR	0

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		0.250	1	1	NR	NR	NR	2
EDR Historical Cleaners		0.250	0	9	NR	NR	NR	9

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **Target** **Property**	**PHOENIX 800 PROPERTY** **800 CEDAR STREET** **OAKLAND, CA 94607**	**FINDS**	**1010726461** **N/A**

Site 1 of 2 in cluster A

Actual:
14 ft.

FINDS:

Registry ID: 110033611517

Environmental Interest/Information System
California Department of Toxic Substances Control EnviroStor System (DTSC-EnviroStor) is an online search and Geographic Information System (GIS) tool for identifying sites that have known contamination or sites for which there may be reasons to investigate further. The EnviroStor database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites.

A2 **Target** **Property**	**CALTRANS** **800 CEDAR ST** **OAKLAND, CA 94607**	**RCRA-SQG** **FINDS** **VCP** **HAZNET** **ENVIROSTOR**	**1001111632** **CAR000011692**

Site 2 of 2 in cluster A

Actual:
14 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	CALTRANS
Facility address:	800 CEDAR ST OAKLAND, CA 94607
EPA ID:	CAR000011692
Mailing address:	P O BOX 23360 OAKLAND, CA 946230660
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	CALTRANS
Owner/operator address:	P O BOX 23360 OAKLAND, CA 94623
Owner/operator country:	Not reported
Owner/operator telephone:	(510) 286-5651
Legal status:	State
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

CALTRANS (Continued) **1001111632**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002911608

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

VCP:
Facility ID: 01330037
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 5.51
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: JACINTO SOTO
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 200350
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Inactive - Needs Evaluation
Status Date: 09/03/2010
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.8097029817399 / -122.303367589819
APN: 6-47-1
Past Use: MANUFACTURING - METAL, MANUFACTURING - OTHER
Potential COC: 30024

CALTRANS (Continued) **1001111632**

Confirmed COC: 30024
Potential Description: SOIL
Alias Name: CALTRANS 880/CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: INDEPENDENT IRON WORKS
Alias Type: Alternate Name
Alias Name: PHOENIX PROPERTIES
Alias Type: Alternate Name
Alias Name: 6-47-1
Alias Type: APN
Alias Name: 110033611517
Alias Type: EPA (FRS #)
Alias Name: 200350
Alias Type: Project Code (Site Code)
Alias Name: 01330037
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/07/1999
Comments: Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 01/13/1998
Comments: Approved Removal Action report excavating 104 cubic yards of contaminated soil.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 10/02/1995
Comments: Approved RAW covering hotspot soil removal and building demolition.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/02/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 10/28/1992
Comments: Approval of Site Investigation Report - Area 4. Soils at the site were found to be contaminated with elevated levels of TPH-d.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 08/15/2002
Comments: Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

CALTRANS (Continued) **1001111632**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Removal Action Completion Report
Future Due Date: 2012
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2013
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2012
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: CEQA - Initial Study/ Environmental Impact Report
Schedule Due Date: 12/28/2011
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Removal Action Workplan
Schedule Due Date: 12/28/2011
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Public Notice
Schedule Due Date: 10/31/2011
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Operations and Maintenance Plan
Schedule Due Date: 2/23/2012
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Fact Sheets
Schedule Due Date: 10/29/2011
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Investigation Report
Schedule Due Date: 7/14/2011
Schedule Revised Date: Not reported

HAZNET:
Year: 2000
Gepaid: CAC001479328

CALTRANS (Continued) **1001111632**

Contact: DEPT OF TRANSPORTATION
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 111 GRAND AVE 14TH FL
Mailing City,St,Zip: OAKLAND, CA 946230000
Gen County: 1
TSD EPA ID: CAD008302903
TSD County: Los Angeles
Waste Category: Contaminated soil from site clean-up
Disposal Method: H01
Tons: 1.7500
Facility County: 1

Year: 1996
Gepaid: CAP600929029
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: Not reported
Mailing City,St,Zip: 000000000
Gen County: 0
TSD EPA ID: CAD980675276
TSD County: Kern
Waste Category: Contaminated soil from site clean-up
Disposal Method: T01
Tons: 3436.1706
Facility County: 0

Year: 1996
Gepaid: CAP600929029
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: Not reported
Mailing City,St,Zip: 000000000
Gen County: 0
TSD EPA ID: CAD980675276
TSD County: Kern
Waste Category: Contaminated soil from site clean-up
Disposal Method: ***
Tons: 30.3408
Facility County: 0

Year: 1995
Gepaid: CAC001029656
Contact: CALTRANS
Telephone: 5102865651
Mailing Name: Not reported
Mailing Address: PO BOX 23660
Mailing City,St,Zip: OAKLAND, CA 946230660
Gen County: 1
TSD EPA ID: CAT000646117
TSD County: Kings
Waste Category: Empty containers less than 30 gallons
Disposal Method: D80
Tons: 8.4280
Facility County: 1

CALTRANS (Continued) **1001111632**

Year: 1995
Gepaid: CAP600929029
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: Not reported
Mailing City,St,Zip: 000000000
Gen County: 0
TSD EPA ID: CAD083166728
TSD County: Stanislaus
Waste Category: Unspecified oil-containing waste
Disposal Method: R01
Tons: 2.2768
Facility County: 0

Click this hyperlink while viewing on your computer to access
10 additional CA_HAZNET: record(s) in the EDR Site Report.

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 5.51
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: JACINTO SOTO
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 01330037
Site Code: 200350
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program
Status: Inactive - Needs Evaluation
Status Date: 09/03/2010
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8097029817399
Longitude: -122.303367589819
APN: 6-47-1
Past Use: MANUFACTURING - METAL, MANUFACTURING - OTHER
Potential COC: 30024
Confirmed COC: 30024
Potential Description: SOIL
Alias Name: CALTRANS 880/CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: INDEPENDENT IRON WORKS
Alias Type: Alternate Name
Alias Name: PHOENIX PROPERTIES
Alias Type: Alternate Name
Alias Name: 6-47-1
Alias Type: APN
Alias Name: 110033611517
Alias Type: EPA (FRS #)
Alias Name: 200350
Alias Type: Project Code (Site Code)

CALTRANS (Continued) **1001111632**

Alias Name: 01330037
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/07/1999
Comments: Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

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Completed Sub Area Name: Not reported
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Completed Date: 01/13/1998
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Completed Date: 10/02/1995
Comments: Approved RAW covering hotspot soil removal and building demolition.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/02/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 10/28/1992
Comments: Approval of Site Investigation Report - Area 4. Soils at the site were found to be contaminated with elevated levels of TPH-d.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 08/15/2002
Comments: Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Removal Action Completion Report

CALTRANS (Continued) **1001111632**

Future Due Date: 2012
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2013
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2012
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: CEQA - Initial Study/ Environmental Impact Report
Schedule Due Date: 12/28/2011
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Removal Action Workplan
Schedule Due Date: 12/28/2011
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Public Notice
Schedule Due Date: 10/31/2011
Schedule Revised Date: Not reported
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Schedule Sub Area Name: Not reported
Schedule Document Type: Operations and Maintenance Plan
Schedule Due Date: 2/23/2012
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Schedule Sub Area Name: Not reported
Schedule Document Type: Fact Sheets
Schedule Due Date: 10/29/2011
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Investigation Report
Schedule Due Date: 7/14/2011
Schedule Revised Date: Not reported

DOD **Region** **NW** **1/4-1/2** **2288 ft.**	**OAKLAND ARMY BASE (CLOSED)** **OAKLAND ARMY BASE (CLOSED (County), CA**	**DOD**	**CUSA136080** **N/A**

DOD:
Feature 1: Army DOD
Feature 2: Not reported
Feature 3: Not reported
URL: Not reported
Name 1: Oakland Army Base (Closed)
Name 2: Not reported
Name 3: Not reported
State: CA
DOD Site: Yes
Tile name: CAALAMEDA

NPL Region SE 1/2-1 3243 ft.	**AMCO CHEMICAL 1414 THIRD STREET OAKLAND, CA 94607**	**NPL CERCLIS HIST Cal-Sites Cortese ENVIROSTOR**	**1001115054 CA0001576081**

NPL:

EPA ID:	CA0001576081
EPA Region:	09
Federal:	N
Final Date:	2003-09-29 00:00:00

Category Details:

NPL Status:	Currently on the Final NPL
Category Description:	Surface Water Adjacent To Site-Wetland-Unknown
Category Value:	U

Site Details:

Site Name:	AMCO CHEMICAL
Site Status:	Final
Site Zip:	94607
Site City:	OAKLAND
Site State:	CA
Federal Site:	No
Site County:	ALAMEDA
EPA Region:	09
Date Proposed:	04/30/03
Date Deleted:	Not reported
Date Finalized:	09/29/03

Substance Details:

NPL Status:	Currently on the Final NPL
Substance ID:	Not reported
Substance:	Not reported
CAS #:	Not reported
Pathway:	Not reported
Scoring:	Not reported
NPL Status:	Currently on the Final NPL
Substance ID:	A054
Substance:	TRICHLOROBENZENE, 1,2,4-
CAS #:	120-82-1
Pathway:	NO PATHWAY INDICATED
Scoring:	1
NPL Status:	Currently on the Final NPL
Substance ID:	C266
Substance:	ETHYL CHLORIDE
CAS #:	75-00-3
Pathway:	NO PATHWAY INDICATED
Scoring:	1
NPL Status:	Currently on the Final NPL
Substance ID:	C324
Substance:	CIS-1,2-DICHLOROETHYLENE
CAS #:	156-59-2
Pathway:	NO PATHWAY INDICATED
Scoring:	1

AMCO CHEMICAL (Continued) **1001115054**

NPL Status: Currently on the Final NPL
Substance ID: C424
Substance: TRIMETHYLBENZENE, 1,2,4-
CAS #: 95-63-6
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: C537
Substance: TRIMETHYLBENZENE, 1,3,5-
CAS #: 108-67-8
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: C616
Substance: TRICHLOROBENZENE, 1,2,3-
CAS #: 87-61-6
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U037
Substance: CHLOROBENZENE
CAS #: 108-90-7
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U043
Substance: VINYL CHLORIDE
CAS #: 75-01-4
Pathway: AIR PATHWAY
Scoring: 4

NPL Status: Currently on the Final NPL
Substance ID: U070
Substance: DICHLOROBENZENE, 1,2-
CAS #: 95-50-1
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U071
Substance: DICHLOROBENZENE, 1,3-
CAS #: 541-73-1
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U072
Substance: DICHLOROBENZENE, 1,4-
CAS #: 106-46-7
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL

AMCO CHEMICAL (Continued) **1001115054**

Substance ID:	U076
Substance:	DICHLOROETHANE, 1,1-
CAS #:	75-34-3
Pathway:	NO PATHWAY INDICATED
Scoring:	1
NPL Status:	Currently on the Final NPL
Substance ID:	U077
Substance:	DICHLOROETHANE, 1,2-
CAS #:	107-06-2
Pathway:	NO PATHWAY INDICATED
Scoring:	1
NPL Status:	Currently on the Final NPL
Substance ID:	U080
Substance:	METHYLENE CHLORIDE
CAS #:	75-09-2
Pathway:	AIR PATHWAY
Scoring:	2
NPL Status:	Currently on the Final NPL
Substance ID:	U161
Substance:	METHYL ISOBUTYL KETONE
CAS #:	108-10-1
Pathway:	NO PATHWAY INDICATED
Scoring:	1
NPL Status:	Currently on the Final NPL
Substance ID:	U165
Substance:	NAPHTHALENE
CAS #:	91-20-3
Pathway:	NO PATHWAY INDICATED
Scoring:	1
NPL Status:	Currently on the Final NPL
Substance ID:	U210
Substance:	TETRACHLOROETHENE
CAS #:	127-18-4
Pathway:	AIR PATHWAY
Scoring:	2
NPL Status:	Currently on the Final NPL
Substance ID:	U226
Substance:	TRICHLOROETHANE, 1,1,1-
CAS #:	71-55-6
Pathway:	AIR PATHWAY
Scoring:	2
NPL Status:	Currently on the Final NPL
Substance ID:	U228
Substance:	TRICHLOROETHYLENE (TCE)
CAS #:	79-01-6
Pathway:	AIR PATHWAY
Scoring:	2
NPL Status:	Currently on the Final NPL
Substance ID:	Z003

AMCO CHEMICAL (Continued) **1001115054**

Substance:	BUTYLBENZENE,SEC-
CAS #:	135-98-8
Pathway:	NO PATHWAY INDICATED
Scoring:	1
NPL Status:	Currently on the Final NPL
Substance ID:	Z009
Substance:	ISOPROPYLBENZENE
CAS #:	98-82-8
Pathway:	NO PATHWAY INDICATED
Scoring:	1
NPL Status:	Currently on the Final NPL
Substance ID:	Z010
Substance:	ISOPROPYLTOLUENE,P-
CAS #:	25155-15-1
Pathway:	NO PATHWAY INDICATED
Scoring:	1
NPL Status:	Currently on the Final NPL
Substance ID:	Z014
Substance:	PROPYLBENZENE,N-
CAS #:	103-65-1
Pathway:	NO PATHWAY INDICATED
Scoring:	1

Summary Details:

Conditions at Proposal April 30, 2003): The AMCO Chemical site AMCO) is part of a 0.83-acre property at 1414 Third Street in a mixed residential and light industrial area of Oakland, California. The property is bordered on the north by a vacant lot, on the west by residences, on the east by Nelson Mandela Parkway, and on the south by Third Street. A recently constructed elevated portion of the Interstate-880 I-880) freeway is located immediately across Third Street from the property.The property at 1401 Third Street) was historically occupied by Bobo s Junkyard. From the 1960s to 1989, the AMCO site was occupied by AMCO Chemical Company. AMCO operated a chemical distribution facility that included a warehouse, railroadspur, above-ground tanks, underground tanks, and drums used to transfer and store raw materials. In July 1988, the Oakland Fire Department observed leaking/rotting drums on the property. A subsequent emergency response investigation by AlamedaCounty and the U.S. Coast Guard revealed greater than 100 full and empty 5- and 55-gallon weathered drums in an open area behind AMCO Chemical s main building. Stenciled labels on the drums indicated that the contents included acetone; 1,1,1-trichloroethane 1,1,1-TCA); methyl ethyl ketone; and dry-cleaning solvent. From 1989 to November 1998, DC Metals operated a scrap metal yard on the site. Cable Moore, Inc., currently uses the site for cable storage. Structures remaining on site include an office building, warehouse, and two small storage buildings. In June 1995, a construction crew noted odors at the intersection of Third Street and Nelson Mandela Parkway, while excavating a trench needed to relocate an underground electrical line in preparation for a freeway project. Subsequent subsurface investigation by California Department of Transportation Caltrans), DC Metals, and EPA revealed the presence of volatile organic compounds VOCs) including vinyl chloride in soil, soilgas, and shallow ground water at the AMCO site, beneath Third Street, and at the 1401 Third Street property former Bobo s Junkyard). On December 5, 1996, the EPA Emergency Response Office initiated a removal action at the AMCO site that involved the construction of a ground water and soil vapor extraction

AMCO CHEMICAL (Continued) **1001115054**

SVE) treatment system. The EPA treatment system collection trench was excavated from December 5 through December 20, 1996. By December 23, 1996, the trench had been lined with a silt curtain, filled with gravel, and covered with a tarp. Cement was poured to permanently cover the trench on January 8, 1997. The treatment system operated from January 1997 through July 1998 and extracted approximately 7,000 pounds of VOCs, approximately 40 pounds of which were vinyl chloride. Operation of the system ceased in July 1998, due to community concern over the potential for a release of dioxins from the thermal oxidation unit. On December 5 and 14, 1996, during construction of the treatment system collection trench, the EPA On-Scene Coordinator observed shimmering vapors emanating from the open trench. SUMMA tm) canister sampling indicated the presence of vinyl chloride; methylene chloride; 1,1,1-trichloroethane TCA); and trichloroethene TCE) in the immediate area of the trench. In addition, one SUMMA canister sample collected from in front of a residence adjacent to the site contained TCE. The EPA conducted several sampling events on and adjacentto the AMCO site between 1997 and 2000. VOCs continued to be detected in soil, soil gas, and ground water on site. In September 1999, SUMMA canister samples were collected from the crawl spaces of three residences located adjacent to the site. Vinyl chloride was detected in the three crawl spaces at 0.02 to 0.045 parts per billion by volume ppbv). There are 626 people living within a quarter of a mile of the source. There are also approximately three workers on site. Status September 2003):EPA is considering various alternatives for this site. The description of the site release) is based on information available at the time the site was evaluated with the HRS. The description may change as additional information is gathered on the sources and extent of contamination. See 56 FR 5600, February 11, 1991, or subsequent FR notices. For more information about the ha ardous substances identified in this narrative summary, including general information regarding the effects of exposure to these substances on human health, please see the Agency for Toxic Substances and Disease Registry ATSDR) ToxFAQs. ATSDR ToxFAQs can be found on the Internet at http://www.atsdr.cdc.gov/toxfaq.html or by telephone at 1-888-42-ATSDR or 1-888-422-8737.

Site Status Details:

NPL Status:	Proposed
Proposed Date:	04/30/2003
Final Date:	Not reported
Deleted Date:	Not reported

Narratives Details:

NPL Name:	AMCO CHEMICAL
City:	OAKLAND
State:	CA

CERCLIS:

Site ID:	0905334
EPA ID:	CA0001576081
Facility County:	ALAMEDA
Short Name:	AMCO CHEMICAL
Congressional District:	08
IFMS ID:	09DJ
SMSA Number:	7360
USGC Hydro Unit:	18050004
Federal Facility:	Not a Federal Facility
DMNSN Number:	Not reported

AMCO CHEMICAL (Continued) **1001115054**

Site Orphan Flag: N
RCRA ID: Not reported
USGS Quadrangle: Not reported
Site Init By Prog: Not reported
NFRAP Flag: Not reported
Parent ID: Not reported
RST Code: Not reported
EPA Region: 09
Classification: Other
Site Settings Code: Not reported
NPL Status: Currently on the Final NPL
DMNSN Unit Code: Not reported
RBRAC Code: Not reported
RResp Fed Agency Code: Not reported
Non NPL Status: Not reported
Non NPL Status Date: Not reported
Site Fips Code: 06001
CC Concurrence Date: Not reported
CC Concurrence FY: Not reported
Alias EPA ID: Not reported
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):
Contact ID: 9271184.00000
Contact Name: Karen Jurist
Contact Tel: (415) 972-3219
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 9270048.00000
Contact Name: Jeff Inglis
Contact Tel: (415) 972-3095
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 13002167.00000
Contact Name: Carl Brickner
Contact Tel: (415) 972-3814
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 9000056.00000
Contact Name: Rosemarie Caraway
Contact Tel: (415) 972-3158
Contact Title: Remedial Project Manager (RPM)
Contact Email: Not reported

Contact ID: 9270438.00000
Contact Name: Dawn Richmond
Contact Tel: (415) 972-3097
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

CERCLIS Site Alias Name(s):
Alias ID: 101
Alias Name: D C METALS

AMCO CHEMICAL (Continued) **1001115054**

Alias Address: 1414 THIRD STREET
OAKLAND, CA 94607
Alias ID: 102
Alias Name: AMCO CHEMICAL
Alias Address: 1414 THIRD STREET
OAKLAND, CA 94607
Alias ID: 101
Alias Comments: THIS SITE LISTED IN CERCLIS AS D C METALS UNTIL 6/20/01. SITE NAME CHANGED TO AMCO CHEMICALS AT RACHEL LOFTIN'S REQUEST.
Site Description: Site listed as D C Metals in CERCLIS until 6/20/01. Site name changed to AMCO Chemical at Rachel Loftin's request.

CERCLIS Assessment History:

Action Code: 001
Action: DISCOVERY
Date Started: Not reported
Date Completed: 10/17/1996
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: ADMINISTRATIVE RECORDS
Date Started: 01/27/1997
Date Completed: 01/27/1997
Priority Level: Admin Record Compiled for a Removal Event
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: INFORMATION REPOSITORY ESTABLISHED
Date Started: Not reported
Date Completed: 01/27/1997
Priority Level: Not reported
Operable Unit: OPERABLE UNIT 001
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: REMOVAL
Date Started: 12/02/1996
Date Completed: 07/31/1998
Priority Level: Cleaned up
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary

AMCO CHEMICAL (Continued) **1001115054**

Urgency Indicator: Time Critical
Action Anomaly: Not reported

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Action Code:	001
Action:	COMBINED PRELIMINARY ASSESSMENT/SITE INSPECTION
Date Started:	10/17/1996
Date Completed:	10/11/2001
Priority Level:	Higher priority for further assessment
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

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Action Code:	001
Action:	COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started:	03/07/2002
Date Completed:	Not reported
Priority Level:	Not reported
Operable Unit:	OPERABLE UNIT 001
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

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AMCO CHEMICAL (Continued) **1001115054**

Action Code: 001
Action: PROPOSAL TO NATIONAL PRIORITIES LIST
Date Started: Not reported
Date Completed: 04/30/2003
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: Public Notice Published
Date Started: Not reported
Date Completed: 04/30/2003
Priority Level: Not reported
Operable Unit: OPERABLE UNIT 001
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: ISSUE REQUEST LETTERS (104E)
Date Started: Not reported
Date Completed: 09/05/2003
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: NON-NATIONAL PRIORITIES LIST POTENTIALLY RESPONSIBLE PARTY SEARCH
Date Started: 10/02/1996
Date Completed: 09/26/2003
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

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Action Code: 001
Action: FINAL LISTING ON NATIONAL PRIORITIES LIST
Date Started: Not reported
Date Completed: 09/29/2003
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported

AMCO CHEMICAL (Continued) **1001115054**

Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: TECHNICAL ASSISTANCE GRANT
Date Started: 03/31/2004
Date Completed: Not reported
Priority Level: Not reported
Operable Unit: OPERABLE UNIT 001
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

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Action Code: 001
Action: HEALTH ASSESSMENT

AMCO CHEMICAL (Continued) **1001115054**

Date Started:	07/03/2003
Date Completed:	09/22/2005
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	State, Fund Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	002
Action:	REMOVAL
Date Started:	07/23/2007
Date Completed:	09/19/2007
Priority Level:	Cleaned up
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Approved
Urgency Indicator:	Time Critical
Action Anomaly:	Not reported

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Action Code:	003
Action:	REMOVAL
Date Started:	10/26/2009
Date Completed:	11/30/2009
Priority Level:	Cleaned up
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Primary
Urgency Indicator:	Time Critical
Action Anomaly:	Not reported

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Federal Register Details:

Fed Register Date:	09/29/2003
Fed Register Volume:	68
Page Number:	55875
Fed Register Date:	04/30/2003
Fed Register Volume:	68
Page Number:	23094

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918 additional US CERCLIS Financial: record(s) in the EDR Site Report.

HISTORICAL CAL-SITES:

Facility ID:	01390001
Region:	2
Region Name:	BERKELEY
Branch:	NC
Branch Name:	NORTH COAST
File Name:	DC METALS
State Senate District:	05012002
Status:	AWP - ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency:	EPA
Lead Agency:	ENVIRONMENTAL PROTECTION AGENCY
Facility Type:	NPJF
Type Name:	NPL SITE, JOINT STATE/FEDERAL-FUNDED
NPL:	Listed
SIC Code:	39
SIC Name:	MISCELLANEOUS MANUFACTURING INDUSTRIES
Access:	Controlled

AMCO CHEMICAL (Continued) **1001115054**

Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Confirmed
Staff Member Responsible for Site: LNAKASHI
Supervisor Responsible for Site: Not reported
Region Water Control Board: SF
Region Water Control Board Name: SAN FRANCISCO BAY
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 16
State Senate District Code: 09
Facility ID: 01390001
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 04261996
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01390001
Activity: ENFFU
Activity Name: ENFORCEMENT FOLLOW UP, AG OR DA REFERRAL, ETC.
AWP Code: SFACT
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 01171997
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported

AMCO CHEMICAL (Continued) **1001115054**

Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Alternate Address: 1414 THIRD STREET
Alternate City,St,Zip: OAKLAND, CA 94607
Background Info: The site was occupied by AMCO Chemical Corp. until December 1989. DTSC inspected the site on August 4, 1988. An order to Fence and Post the site was issued on August 8, 1988. On February 24, 1989 a Report of Violation was issued to correct violations related to leakage of hazardous waste from piping and containers; storage of hazardous waste in deteriorated or otherwise corroded conditions; and unlabeled waste containers. Soil and groundwater located outside of the site boundary were sampled by Caltrans and Southern Pacific Railroad. Elevated levels of VOC's (vinyl chloride,1,1-DCE,PCE,1,1,1-TCA, 1,2-DCE), acetone, toluene and xylene have been found in soil and/or groundwater.
Comments Date: 04261996
Comments: DTSC issued an I or SE Order and RAO to the previous and current
Comments Date: 04261996
Comments: owner, and operator.
Comments Date: 04302003
Comments: US EPA proposed to list site on the National Priotrities List
Comments Date: 04302003
Comments: (NPL). US EPA implemented a removal action in 1997 to address
Comments Date: 04302003
Comments: high concentrations of vinyl chloride at or near the AMCO site.
Comments Date: 04302003
Comments: A groundwater extraction and treatment system and a soil vapor
Comments Date: 04302003
Comments: extraction system were installed to address the vinyl chloride
Comments Date: 04302003
Comments: and other contaminants found in shallow groundwater and soils.
Comments Date: 04302003
Comments: Operation of this system ceased in July 1998 due to community
Comments Date: 04302003
Comments: concerns. US EPA conducted several sampling events on and
Comments Date: 04302003
Comments: adjacent to the site between 1997 and 2002. VOCs continued to
Comments Date: 04302003
Comments: be detected in soil, soil gas and groundwater on the site.
Comments Date: 09292003
Comments: US EPA formally listed site on NPL. In August 2004, US EPA
Comments Date: 09292003
Comments: approved the Remedial Investigation Sampling and Analysis Plan.
Comments Date: 09292003
Comments: Investigation activities began in September 2004.
ID Name: EPA IDENTIFICATION NUMBER
ID Value: CAD009142324
ID Name: CALSTARS CODE
ID Value: 200687
Alternate Name: D.C. METALS, INC.DC METALSAMCO CHEMICALAMOCO CHEMICAL
Special Programs Code: Not reported
Special Programs Name: Not reported

AMCO CHEMICAL (Continued) **1001115054**

Cortese:
Region: CORTESE
Envirostor Id: 1390001
Site/Facility Type: FEDERAL SUPERFUND - LISTED
Cleanup Status: ACTIVE
Status Date: 5/1/2002
Site Code: 200687
Latitude: 37.8028387474033
Longitude: -122.294878140158
EPA Id: Not reported
Owner: Not reported
Enf Type: Not reported
Effective Date: Not reported
Order No: Not reported
Region: Not reported
WDID: Not reported
Swat R: Not reported
Waste Discharger System Num: Not reported
Solid Waste Id Num: Not reported
Waste Management Unit Name: Not reported
Agency Name: Not reported

ENVIROSTOR:
Site Type: Federal Superfund
Site Type Detailed: State Response or NPL
Acres: 0.83
NPL: YES
Regulatory Agencies: SMBRP, US EPA, CITY OF OAKLAND
Lead Agency: US EPA
Program Manager: LYNN NAKASHIMA
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Facility ID: 01390001
Site Code: 200687
Assembly: 16
Senate: 09
Special Program: EPA - Multi-Site Cooperative Agreement
Status: Active
Status Date: 05/01/2002
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Joint State/Federal-Funded
Latitude: 37.8028387474033
Longitude: -122.294878140158
APN: 004007301002
Past Use: TRANSFER STATION
Potential COC: 30022, 30024, 30027, 30028
Confirmed COC: 30022,30024,30027,30028
Potential Description: OTH, SOIL, SV, IA
Alias Name: AMOCO CHEMICAL
Alias Type: Alternate Name
Alias Name: D.C. METALS, INC.
Alias Type: Alternate Name
Alias Name: DC METALS
Alias Type: Alternate Name
Alias Name: 004007301002

AMCO CHEMICAL (Continued) **1001115054**

Alias Type:	APN
Alias Name:	CAD009142324
Alias Type:	EPA Identification Number
Alias Name:	110002635462
Alias Type:	EPA (FRS #)
Alias Name:	T0600102206
Alias Type:	GeoTracker Global ID
Alias Name:	200687
Alias Type:	Project Code (Site Code)
Alias Name:	01390001
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	06/15/2009
Comments:	Fact Sheet issued by U.S. EPA
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	05/01/2009
Comments:	US EPA issued fact sheet seeking interest in establishing a Community Advisory Group
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	08/04/2011
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	01/01/1997
Comments:	US EPA implemented a removal action in 1997 to address high concentrations of vinyl chloride at or near the AMCO site. A groundwater extraction and treatment system and a soil vapor extraction system were installed to address the vinyl chloride and other contaminants found in shallow groundwater and soils. Operation of this system ceased in July 1998 due to community concerns. US EPA conducted several sampling events on and adjacent to the site between 1997 and 2002.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	04/26/1996
Comments:	DTSC issued an I or SE Order and RAO to the previous and current owner, and operator.
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Record of Decision
Future Due Date:	2014
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported

AMCO CHEMICAL (Continued) **1001115054**

Future Document Type:	Feasibility Study Report
Future Due Date:	2013
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Proposed Plan
Future Due Date:	2013
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Remedial Investigation Report
Schedule Due Date:	3/30/2012
Schedule Revised Date:	Not reported

B3	**OCEAN CONLAINER SYSTEMS**	**RCRA-SQG**	**1000150327**
WSW	**801 CEDAR ST**	**FINDS**	**CAD982338030**
< 1/8	**OAKLAND, CA 94607**		
0.037 mi.			
198 ft.	**Site 1 of 2 in cluster B**		

Relative:
Lower

Actual:
13 ft.

RCRA-SQG:

Date form received by agency:	12/08/1987
Facility name:	OCEAN CONLAINER SYSTEMS
Facility address:	801 CEDAR ST OAKLAND, CA 94607
EPA ID:	CAD982338030
Contact:	ENVIRONMENTAL MANAGER
Contact address:	801 CEDAR ST OAKLAND, CA 94507
Contact country:	US
Contact telephone:	(415) 451-6562
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	FORBES TUAN
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported

OCEAN CONLAINER SYSTEMS (Continued) **1000150327**

Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110008276365

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

B4 **VACANT AUTO REPAIR** **RESPONSE** **S102008264**
SW **SHOREY STREET** **ENVIROSTOR** **N/A**
< 1/8 **OAKLAND, CA 94607**
0.059 mi.
313 ft. **Site 2 of 2 in cluster B**

Relative:
Lower

Actual:
13 ft.

RESPONSE:
Facility ID: 01750020
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: Not reported
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: Not reported
Supervisor: Denise Tsuji
Division Branch: Cleanup Berkeley
Site Code: 200470
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 16
Senate: 09
Special Program Status: Not reported
Status: No Further Action

VACANT AUTO REPAIR (Continued) **S102008264**

Status Date: 02/03/1994
Restricted Use: NO
Funding: Responsible Party
Latitude: 37.8088
Longitude: -122.3038
APN: NONE SPECIFIED
Past Use: NONE
Potential COC: NONE SPECIFIED,31000
Confirmed COC: NONE SPECIFIED
Potential Description: NMA
Alias Name: 110033613221
Alias Type: EPA (FRS #)
Alias Name: 200470
Alias Type: Project Code (Site Code)
Alias Name: 01750020
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: Not reported
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Denise Tsuji
Division Branch: Cleanup Berkeley
Facility ID: 01750020
Site Code: 200470
Assembly: 16
Senate: 09
Special Program: Not reported
Status: No Further Action
Status Date: 02/03/1994
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8088
Longitude: -122.3038
APN: NONE SPECIFIED

VACANT AUTO REPAIR (Continued) **S102008264**

Past Use:	NONE
Potential COC:	NONE SPECIFIED,31000
Confirmed COC:	NONE SPECIFIED
Potential Description:	NMA
Alias Name:	110033613221
Alias Type:	EPA (FRS #)
Alias Name:	200470
Alias Type:	Project Code (Site Code)
Alias Name:	01750020
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

C5
NE
< 1/8
0.064 mi.
336 ft.

BATAVIA PROPERTY
1832 9TH STREET
OAKLAND, CA

CERC-NFRAP **1003880072**
CA0002059400

Site 1 of 2 in cluster C

Relative:
Equal

Actual:
14 ft.

CERC-NFRAP:

Site ID:	0905364
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID:	13052565.00000
Person ID:	9271184.00000
Contact Sequence ID:	13058639.00000
Person ID:	9270048.00000
Contact Sequence ID:	13089361.00000
Person ID:	13002167.00000
Contact Sequence ID:	13175476.00000
Person ID:	9270438.00000

CERCLIS-NFRAP Site Alias Name(s):

Alias Name:	MOLINA PROPERTY
Alias Address:	Not reported Not reported

BATAVIA PROPERTY (Continued) **1003880072**

CERCLIS-NFRAP Assessment History:

Action:	DISCOVERY
Date Started:	Not reported
Date Completed:	09/25/1997
Priority Level:	Not reported
Action:	ARCHIVE SITE
Date Started:	Not reported
Date Completed:	02/09/1999
Priority Level:	Not reported
Action:	PRELIMINARY ASSESSMENT
Date Started:	10/20/1997
Date Completed:	02/09/1999
Priority Level:	NFRAP-Site does not qualify for the NPL based on existing information

---

C6 **BATAVIA PROPERTY** **ENVIROSTOR** **S102860821**
NE **1832 9TH STREET** **N/A**
< 1/8 **OAKLAND, CA 94607**
0.064 mi.
336 ft. **Site 2 of 2 in cluster C**

Relative:
Equal

Actual:
14 ft.

ENVIROSTOR:

Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	4.5
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Facility ID:	01990021
Site Code:	201020
Assembly:	16
Senate:	09
Special Program:	EPA - PASI
Status:	No Further Action
Status Date:	08/25/1998
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.8105555555556
Longitude:	-122.302222222222
APN:	NONE SPECIFIED
Past Use:	OFFICE BUILDING, TRANSPORTATION - WAREHOUSING
Potential COC:	NONE SPECIFIED,31000
Confirmed COC:	31000-NO
Potential Description:	NMA
Alias Name:	201020
Alias Type:	Project Code (Site Code)
Alias Name:	01990021
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report

BATAVIA PROPERTY (Continued) **S102860821**

Completed Date:	08/31/1998
Comments:	Completed PEA.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	06/27/1997
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

D7
South
< 1/8
0.072 mi.
380 ft.

PEP BOYS
1818 SHOREY
OAKLAND, CA 94607

HIST CORTESE **S105025313**
N/A

Site 1 of 4 in cluster D

Relative:
Equal

Actual:
14 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	3157

D8
South
< 1/8
0.074 mi.
388 ft.

B & A AUTO DISMANTLERS
1823 SHOREY STREET
OAKLAND, CA 94607

VCP **S102008243**
ENVIROSTOR **N/A**

Site 2 of 4 in cluster D

Relative:
Equal

Actual:
14 ft.

VCP:

Facility ID:	01500106
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0.04
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	LYNN NAKASHIMA
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Site Code:	200473
Assembly:	16
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified
Status Date:	01/08/1997

B & A AUTO DISMANTLERS (Continued) **S102008243**

Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.8086897384466 / -122.304215734298
APN: 6-45-3
Past Use: JUNKYARD
Potential COC: 10097, 30013, 3002502
Confirmed COC: 30013,10097,3002502
Potential Description: SOIL
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: 6-45-3
Alias Type: APN
Alias Name: 110033617049
Alias Type: EPA (FRS #)
Alias Name: 200473
Alias Type: Project Code (Site Code)
Alias Name: 01500106
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 08/09/1996
Comments: Completed Remedial Action. As part of the Cypress construction project, the entire site was excavated to a depth of 15 to 20 feet as part of the construction of the 7th Street undercrossing. All contaminated soil was removed and the underlying groundwater was dewatered. No further remedial work was required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 11/16/1995
Comments: Approved Design.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: Approved RAP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: Completed RIFS.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/04/1993
Comments: Completed Site Screening. Earlier site investigations indicated surface soil contamination. Another investigation was conducted in October 1992 in conjunction with CalTrans activities and revealed presence of the following contaminants in soil: Total Revocerable Petroleum Hydorcarbons (TRPH) as high as 6,350 ppm; and lead as high as 161 ppm. Groundwater samples also showed TRPH as high as 2.6 ppm.

B & A AUTO DISMANTLERS (Continued) **S102008243**

Surface soil staining was also noted during sampling activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 01/08/1997
Comments: Certified Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: Signed VCA.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 0.04
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: LYNN NAKASHIMA
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Facility ID: 01500106
Site Code: 200473
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program
Status: Certified
Status Date: 01/08/1997
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8086897384466
Longitude: -122.304215734298
APN: 6-45-3
Past Use: JUNKYARD
Potential COC: 10097, 30013, 3002502
Confirmed COC: 30013,10097,3002502
Potential Description: SOIL
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: 6-45-3
Alias Type: APN
Alias Name: 110033617049
Alias Type: EPA (FRS #)

B & A AUTO DISMANTLERS (Continued) **S102008243**

Alias Name: 200473
Alias Type: Project Code (Site Code)
Alias Name: 01500106
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 08/09/1996
Comments: Completed Remedial Action. As part of the Cypress construction project, the entire site was excavated to a depth of 15 to 20 feet as part of the construction of the 7th Street undercrossing. All contaminated soil was removed and the underlying groundwater was dewatered. No further remedial work was required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 11/16/1995
Comments: Approved Design.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: Approved RAP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: Completed RIFS.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/04/1993
Comments: Completed Site Screening. Earlier site investigations indicated surface soil contamination. Another investigation was conducted in October 1992 in conjunction with CalTrans activities and revealed presence of the following contaminants in soil: Total Revocerable Petroleum Hydorcarbons (TRPH) as high as 6,350 ppm; and lead as high as 161 ppm. Groundwater samples also showed TRPH as high as 2.6 ppm. Surface soil staining was also noted during sampling activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 01/08/1997
Comments: Certified Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: Signed VCA.

B & A AUTO DISMANTLERS (Continued) **S102008243**

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

D9
South
< 1/8
0.075 mi.
396 ft.

EDO S AUTOMOTIVE
1807 SHOREY ST
OAKLAND, CA

EDR Historical Auto Stations **1009011132**
N/A

Site 3 of 4 in cluster D

Relative:
Equal

Actual:
14 ft.

EDR Historical Auto Stations:

Name:	EDO S AUTOMOTIVE
Year:	1967
Type:	AUTOMOBILE REPAIRING

D10
South
< 1/8
0.087 mi.
457 ft.

OLD OAKLAND FIRE HOUSE 3
727 PINE STREET
OAKLAND, CA 94607

VCP
HAZNET
ENVIROSTOR

S103670589
N/A

Site 4 of 4 in cluster D

Relative:
Equal

Actual:
14 ft.

VCP:

Facility ID:	01920064
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0.3
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	JACINTO SOTO
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Site Code:	200458
Assembly:	16
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified
Status Date:	06/30/2006
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.8078778257312 / -122.303906384317
APN:	6-45-26
Past Use:	FUEL - VEHICLE STORAGE/ REFUELING
Potential COC:	30024
Confirmed COC:	30024
Potential Description:	SOIL
Alias Name:	CYPRESS FREEWAY/FIRE STATION #3
Alias Type:	Alternate Name

OLD OAKLAND FIRE HOUSE 3 (Continued) **S103670589**

Alias Name:	CYPRESS FREEWAY/OLD FIRE STATION #3
Alias Type:	Alternate Name
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	6-45-26
Alias Type:	APN
Alias Name:	110033612473
Alias Type:	EPA (FRS #)
Alias Name:	200458
Alias Type:	Project Code (Site Code)
Alias Name:	01920064
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Plan
Completed Date:	08/14/1995
Comments:	Approved RAP required removal of underground tank under oversight of Alameda County.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/30/2006
Comments:	Submittal of the Underground Storage Tank Removal Report on June 4, 2006.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	07/03/1995
Comments:	Approval of Fact Sheet to inform the community of the availibity of the FS/RAP for review.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation / Feasibility Study
Completed Date:	07/03/1995
Comments:	RIFS approved. Site investigation activities, performed prior to the 5/10/1994 VCA, were reported in the Site Investigation Report Area 1 dated August 1992. The RI/FS was approved on July 3, 1995 when the Remedial Action Plan Was approved.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	07/03/1995
Comments:	Public Notice approval to notify the community of the FS/RAP availibity for review.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	08/15/2002
Comments:	Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

OLD OAKLAND FIRE HOUSE 3 (Continued) **S103670589**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	01/07/1999
Comments:	Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/30/2006
Comments:	Certification completed. Implementation report documenting tank removal has been submitted, reviewed and confirms that cleanup was done in accordance with RAP requirements.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

HAZNET:

Year:	1995
Gepaid:	CAC001105040
Contact:	CAL TRANS
Telephone:	5102865647
Mailing Name:	Not reported
Mailing Address:	PO BOX 23660
Mailing City,St,Zip:	OAKLAND, CA 946230660
Gen County:	1
TSD EPA ID:	UTC093012201
TSD County:	99
Waste Category:	Contaminated soil from site clean-up
Disposal Method:	D80
Tons:	.0000
Facility County:	1

ENVIROSTOR:

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	0.3

OLD OAKLAND FIRE HOUSE 3 (Continued) **S103670589**

NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	JACINTO SOTO
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Facility ID:	01920064
Site Code:	200458
Assembly:	16
Senate:	09
Special Program:	Voluntary Cleanup Program
Status:	Certified
Status Date:	06/30/2006
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.8078778257312
Longitude:	-122.303906384317
APN:	6-45-26
Past Use:	FUEL - VEHICLE STORAGE/ REFUELING
Potential COC:	30024
Confirmed COC:	30024
Potential Description:	SOIL
Alias Name:	CYPRESS FREEWAY/FIRE STATION #3
Alias Type:	Alternate Name
Alias Name:	CYPRESS FREEWAY/OLD FIRE STATION #3
Alias Type:	Alternate Name
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	6-45-26
Alias Type:	APN
Alias Name:	110033612473
Alias Type:	EPA (FRS #)
Alias Name:	200458
Alias Type:	Project Code (Site Code)
Alias Name:	01920064
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Plan
Completed Date:	08/14/1995
Comments:	Approved RAP required removal of underground tank under oversight of Alameda County.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/30/2006
Comments:	Submittal of the Underground Storage Tank Removal Report on June 4, 2006.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	07/03/1995
Comments:	Approval of Fact Sheet to inform the community of the availibity of

OLD OAKLAND FIRE HOUSE 3 (Continued) **S103670589**

the FS/RAP for review.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation / Feasibility Study
Completed Date:	07/03/1995
Comments:	RIFS approved. Site investigation activities, performed prior to the 5/10/1994 VCA, were reported in the Site Investigation Report Area 1 dated August 1992. The RI/FS was approved on July 3, 1995 when the Remedial Action Plan Was approved.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	07/03/1995
Comments:	Public Notice approval to notify the community of the FS/RAP availibity for review.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	08/15/2002
Comments:	Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	01/07/1999
Comments:	Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/30/2006
Comments:	Certification completed. Implementation report documenting tank removal has been submitted, reviewed and confirms that cleanup was done in accordance with RAP requirements.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported

OLD OAKLAND FIRE HOUSE 3 (Continued) **S103670589**

Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

E11
NE
< 1/8
0.100 mi.
528 ft.

PHOENIX IRON WORKS
888 CEDAR
OAKLAND, CA 94607

Site 1 of 2 in cluster E

HIST CORTESE
LUST
CA FID UST
Alameda County CS
SWEEPS UST

S101624385
N/A

Relative:
Lower

Actual:
13 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-2420

LUST:
Region: STATE
Global Id: T0600102229
Latitude: 37.8079530450688
Longitude: -122.304010391235
Case Type: LUST Cleanup Site
Status: Open - Site Assessment
Status Date: 10/28/2010
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Case Worker: Not reported
Local Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number: 01-2420
LOC Case Number: RO0000417
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Acetone, Other Solvent or Non-Petroleum Hydrocarbon, Diesel, Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0600102229
Contact Type: Local Agency Caseworker
Contact Name: BARBARA COOK
Organization Name: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Address: 700 HEINZ ST.
City: BERKELEY
Email: Not reported
Phone Number: Not reported

Global Id: T0600102229
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0600102229

PHOENIX IRON WORKS (Continued) **S101624385**

Action Type: REMEDIATION
Date: 1950-01-01 00:00:00
Action: Excavate and Dispose

Global Id: T0600102229
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Discovery

Global Id: T0600102229
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

Global Id: T0600102229
Action Type: ENFORCEMENT
Date: 2008-07-03 00:00:00
Action: Technical Correspondence / Assistance / Other - #20080703

Global Id: T0600102229
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Stopped

LUST REG 2:
Region: 2
Facility Id: 01-2420
Facility Status: Preliminary site assessment workplan submitted
Case Number: 612
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 7/11/1995
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: 1/2/1965
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CA FID UST:
Facility ID: 01002778
Regulated By: UTNKA
Regulated ID: 00059789
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4154659900
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: OAKLAND 94607
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported

PHOENIX IRON WORKS (Continued) **S101624385**

NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

Alameda County CS:

Status:	Pollution Characterization
Record Id:	RO0000417
PE:	5602
Status:	Leak being confirmed
Record Id:	RO0000417
PE:	5602
Status:	Case Transferred
Record Id:	RO0000417
PE:	5602

SWEEPS UST:

Status:	A
Comp Number:	59789
Number:	9
Board Of Equalization:	44-000599
Ref Date:	07-01-85
Act Date:	Not reported
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	1
Swrcb Tank Id:	01-000-059789-000001
Actv Date:	07-01-85
Capacity:	500
Tank Use:	M.V. FUEL
Stg:	P
Content:	LEADED
Number Of Tanks:	2
Status:	A
Comp Number:	59789
Number:	9
Board Of Equalization:	44-000599
Ref Date:	07-01-85
Act Date:	Not reported
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	2
Swrcb Tank Id:	01-000-059789-000002
Actv Date:	07-01-85
Capacity:	1000
Tank Use:	M.V. FUEL
Stg:	P
Content:	DIESEL
Number Of Tanks:	Not reported

E12 **PHOENIX IRON WKS.** **HIST UST** **U001599209**
NE **888 CEDAR ST.** **N/A**
< 1/8 **OAKLAND, CA 94607**
0.100 mi.
528 ft. **Site 2 of 2 in cluster E**

Relative:
Lower

Actual:
13 ft.

HIST UST:

Region:	STATE
Facility ID:	00000059789
Facility Type:	Other
Other Type:	FOUNDRY
Total Tanks:	0002
Contact Name:	W. RUSSELL
Telephone:	4154659900
Owner Name:	PHOENIX PROPERTIES
Owner Address:	888 CEDAR ST.
Owner City,St,Zip:	OAKLAND, CA 94607
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Tank Construction:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Tank Construction:	Not reported
Leak Detection:	None

F13 **GLOBE METALS COMPANY** **HIST CORTESE** **S105025323**
NE **182010TH** **N/A**
1/8-1/4 **OAKLAND, CA 94607**
0.125 mi.
662 ft. **Site 1 of 2 in cluster F**

Relative:
Lower

Actual:
13 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1918

F14 **GLOBE METALS CO.** **HIST UST** **1000162180**
NE **1820 10TH ST** **N/A**
1/8-1/4 **OAKLAND, CA 94607**
0.126 mi.
667 ft. **Site 2 of 2 in cluster F**

Relative:
Lower

Actual:
13 ft.

HIST UST:

Region:	STATE
Facility ID:	00000001004
Facility Type:	Other

GLOBE METALS CO. (Continued) **1000162180**

Other Type:	ALUMINUM RECYCLING
Total Tanks:	0001
Contact Name:	LUIGI FERRI
Telephone:	4154442776
Owner Name:	GLOBE METALS CO.
Owner Address:	1820 TENTH STREET
Owner City,St,Zip:	OAKLAND, CA 94607

Tank Num:	001
Container Num:	1
Year Installed:	1963
Tank Capacity:	00000560
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Tank Construction:	Not reported
Leak Detection:	Stock Inventor

15
NNE
1/8-1/4
0.136 mi.
716 ft.

GLOBE METALS CO.
1820 010TH ST
OAKLAND, CA 94607

CA FID UST **1000590094**
SWEEPS UST **N/A**

Relative:
Lower

Actual:
13 ft.

CA FID UST:

Facility ID:	01002075
Regulated By:	UTNKI
Regulated ID:	00001004
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4154442776
Mail To:	Not reported
Mailing Address:	P O BOX
Mailing Address 2:	Not reported
Mailing City,St,Zip:	OAKLAND 94607
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

SWEEPS UST:

Status:	Not reported
Comp Number:	1004
Number:	Not reported
Board Of Equalization:	Not reported
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-001004-000001
Actv Date:	Not reported
Capacity:	560
Tank Use:	M.V. FUEL
Stg:	PRODUCT

GLOBE METALS CO. (Continued) **1000590094**

Content: REG UNLEADED
Number Of Tanks: 1

16
SSE
1/8-1/4
0.139 mi.
733 ft.

SUNLIGHT CLEANERS
801 WOOD ST
OAKLAND, CA

EDR Historical Cleaners **1009139854**
N/A

Relative:
Higher

Actual:
15 ft.

EDR Historical Cleaners:
Name: SUNLIGHT CLEANERS
Year: 1967
Type: CLEANERS AND DYERS

17
SSW
1/8-1/4
0.143 mi.
756 ft.

WILFRED’S AUTO WRECKING
1834 7TH STREET
OAKLAND, CA 94607

VCP **S102860807**
ENVIROSTOR **N/A**

Relative:
Lower

Actual:
13 ft.

VCP:
Facility ID: 01500105
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 0.05
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: LYNN NAKASHIMA
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Site Code: 200356
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified
Status Date: 10/17/1997
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.8077434205394 / -122.304592359478
APN: 6-45-33
Past Use: VEHICLE MAINTENANCE
Potential COC: 10097, 30013, 3002502, 30407
Confirmed COC: 30407,30013,10097,3002502
Potential Description: SOIL
Alias Name: CYPRESS FREEWAY/ WILFRED’S AUTO WRECKING
Alias Type: Alternate Name
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: 6-45-33
Alias Type: APN
Alias Name: 110033620151
Alias Type: EPA (FRS #)
Alias Name: 200356

WILFRED'S AUTO WRECKING (Continued) **S102860807**

Alias Type:	Project Code (Site Code)
Alias Name:	01500105
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	08/22/1997
Comments:	Completed Remedial Action. Approximately 1,946 cubic yards of soil were excavated from 3 to 6 feet below ground surface.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	11/22/1995
Comments:	Approved Design.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Plan
Completed Date:	08/14/1995
Comments:	Approved RAP.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation / Feasibility Study
Completed Date:	07/03/1995
Comments:	Completed RIFS.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	05/04/1993
Comments:	Completed Site Screening. The site is a currently operating wrecking yard and is fully occupied by abandoned cars, parts, and debris. Earlier site investigation indicated surface soil contamination. Subsequent field investigation conducted in October 1992 in conjunction with CalTrans activities revealed the presence of total recoverable petroleum hydrocarbons (TPRH) as high as 138,000 ppm. Approximate volume of contaminated soil is 950 cubic yards. Additional site characterization is necessary.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	10/17/1997
Comments:	Certified Site. Remediation goals were met for all contaminants. After remediation activities were completed, the site was further excavated by Caltrans to a minimum of 15 feet for the construction of the 7th Street undercrossing.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	Signed VCA.

WILFRED'S AUTO WRECKING (Continued) **S102860807**

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 0.05
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: LYNN NAKASHIMA
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Facility ID: 01500105
Site Code: 200356
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program
Status: Certified
Status Date: 10/17/1997
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8077434205394
Longitude: -122.304592359478
APN: 6-45-33
Past Use: VEHICLE MAINTENANCE
Potential COC: 10097, 30013, 3002502, 30407
Confirmed COC: 30407,30013,10097,3002502
Potential Description: SOIL
Alias Name: CYPRESS FREEWAY/ WILFRED'S AUTO WRECKING
Alias Type: Alternate Name
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: 6-45-33
Alias Type: APN
Alias Name: 110033620151
Alias Type: EPA (FRS #)
Alias Name: 200356
Alias Type: Project Code (Site Code)
Alias Name: 01500105
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 08/22/1997
Comments: Completed Remedial Action. Approximately 1,946 cubic yards of soil were excavated from 3 to 6 feet below ground surface.

WILFRED'S AUTO WRECKING (Continued) **S102860807**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	11/22/1995
Comments:	Approved Design.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Plan
Completed Date:	08/14/1995
Comments:	Approved RAP.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation / Feasibility Study
Completed Date:	07/03/1995
Comments:	Completed RIFS.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	05/04/1993
Comments:	Completed Site Screening. The site is a currently operating wrecking yard and is fully occupied by abandoned cars, parts, and debris. Earlier site investigation indicated surface soil contamination. Subsequent field investigation conducted in October 1992 in conjunction with CalTrans activities revealed the presence of total recoverable petroleum hydrocarbons (TPRH) as high as 138,000 ppm. Approximate volume of contaminated soil is 950 cubic yards. Additional site characterization is necessary.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	10/17/1997
Comments:	Certified Site. Remediation goals were met for all contaminants. After remediation activities were completed, the site was further excavated by Caltrans to a minimum of 15 feet for the construction of the 7th Street undercrossing.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	Signed VCA.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

G18
ENE
1/8-1/4
0.146 mi.
771 ft.

JENKINS AUTO WRECKERS
1778 10TH STREET
OAKLAND, CA 94607

Site 1 of 2 in cluster G

Cortese **S109851011**
N/A

Relative:
Equal

Actual:
14 ft.

Cortese:

Region:	CORTESE
Envirostor Id:	1750025
Site/Facility Type:	STATE RESPONSE
Cleanup Status:	BACKLOG
Status Date:	6/22/2010
Site Code:	200869
Latitude:	37.8109328588317
Longitude:	-122.300700026272
EPA Id:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Effective Date:	Not reported
Order No:	Not reported
Region:	Not reported
WDID:	Not reported
Swat R:	Not reported
Waste Discharger System Num:	Not reported
Solid Waste Id Num:	Not reported
Waste Management Unit Name:	Not reported
Agency Name:	Not reported

G19
ENE
1/8-1/4
0.146 mi.
771 ft.

JENKINS AUTO WRECKERS
1778 10TH STREET
OAKLAND, CA 94607

Site 2 of 2 in cluster G

RESPONSE **S102860812**
ENVIROSTOR **N/A**

Relative:
Equal

Actual:
14 ft.

RESPONSE:

Facility ID:	01750025
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	0.5
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	TOM PRICE
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	200869
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	16
Senate:	09
Special Program Status:	EPA - PASI
Status:	Backlog
Status Date:	06/22/2010
Restricted Use:	NO
Funding:	Not reported
Latitude:	37.8109328588317
Longitude:	-122.300700026272
APN:	6-31-39, 6-31-40, 6-31-41, 6-31-42, 6-31-43, 6-31-44
Past Use:	JUNKYARD
Potential COC:	31001

JENKINS AUTO WRECKERS (Continued) **S102860812**

Confirmed COC: 31001-NO
Potential Description: SOIL
Alias Name: 6-31-39
Alias Type: APN
Alias Name: 6-31-40
Alias Type: APN
Alias Name: 6-31-41
Alias Type: APN
Alias Name: 6-31-42
Alias Type: APN
Alias Name: 6-31-43
Alias Type: APN
Alias Name: 6-31-44
Alias Type: APN
Alias Name: 200869
Alias Type: Project Code (Site Code)
Alias Name: 01750025
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: PA/SI Site Screening
Completed Date: 06/12/2009
Comments: A release of waste oil to surface soils occurred. Oil-saturated soil and oil and grease-stained soils have been observed at the site since 1996. Lead concentrations in the stockpiled soil are also elevated. DTSC is assigned to follow up.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 0.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: TOM PRICE
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 01750025
Site Code: 200869
Assembly: 16
Senate: 09
Special Program: EPA - PASI
Status: Backlog
Status Date: 06/22/2010
Restricted Use: NO

JENKINS AUTO WRECKERS (Continued) **S102860812**

Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.8109328588317
Longitude:	-122.300700026272
APN:	6-31-39, 6-31-40, 6-31-41, 6-31-42, 6-31-43, 6-31-44
Past Use:	JUNKYARD
Potential COC:	31001
Confirmed COC:	31001-NO
Potential Description:	SOIL
Alias Name:	6-31-39
Alias Type:	APN
Alias Name:	6-31-40
Alias Type:	APN
Alias Name:	6-31-41
Alias Type:	APN
Alias Name:	6-31-42
Alias Type:	APN
Alias Name:	6-31-43
Alias Type:	APN
Alias Name:	6-31-44
Alias Type:	APN
Alias Name:	200869
Alias Type:	Project Code (Site Code)
Alias Name:	01750025
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	PA/SI Site Screening
Completed Date:	06/12/2009
Comments:	A release of waste oil to surface soils occurred. Oil-saturated soil and oil and grease-stained soils have been observed at the site since 1996. Lead concentrations in the stockpiled soil are also elevated. DTSC is assigned to follow up.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

H20 **MIYAKE TAKITARO** **EDR Historical Cleaners** **1009140845**
South **1796 7TH ST** **N/A**
1/8-1/4 **OAKLAND, CA**
0.147 mi.
775 ft. **Site 1 of 2 in cluster H**

Relative:
Equal

Actual:
14 ft.

EDR Historical Cleaners:

Name:	MIYAKE TAKITARO
Year:	1933
Type:	CLOTHES PRESSERS AND CLEANERS

21
SSE
1/8-1/4
0.157 mi.
828 ft.

GOSSWOOD HOUSING ASSOCIAT
1751 GOSS
OAKLAND, CA 94607

HIST CORTESE
LUST
Alameda County CS
SWEEPS UST

S103890797
N/A

Relative:
Equal

Actual:
14 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-0944

LUST:

Region:	STATE
Global Id:	T0600100869
Latitude:	37.807965
Longitude:	-122.301524
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	08/11/1993
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	EC
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-0944
LOC Case Number:	RO0000795
File Location:	Stored electronically as an E-file
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0600100869
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0600100869
Contact Type:	Local Agency Caseworker
Contact Name:	EVA CHU
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	Not reported
Phone Number:	5105676762

LUST:

Global Id:	T0600100869
Action Type:	ENFORCEMENT
Date:	1992-06-08 00:00:00
Action:	* Historical Enforcement - #UNK

Global Id:	T0600100869
Action Type:	REMEDIATION

GOSSWOOD HOUSING ASSOCIAT (Continued) **S103890797**

Date: 1950-01-01 00:00:00
Action: Excavate and Dispose

Global Id: T0600100869
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: 01-0944
Facility Status: Case Closed
Case Number: 4180
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 6/8/1992
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: 1/15/1993
Preliminary Site Assesment Began: 10/27/1992
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Case Closed
Record Id: RO0000795
PE: 5602

SWEEPS UST:
Status: Not reported
Comp Number: 13837
Number: Not reported
Board Of Equalization: Not reported
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-013837-000001
Actv Date: Not reported
Capacity: 1000
Tank Use: PETROLEUM
Stg: PRODUCT
Content: UNKNOWN GASO
Number Of Tanks: 1

H22 **L AND E CLEANERS** **EDR Historical Cleaners** **1009140598**
South **1791 7TH ST** **N/A**
1/8-1/4 **OAKLAND, CA**
0.165 mi.
870 ft. **Site 2 of 2 in cluster H**

Relative:
Lower

Actual:
13 ft.

EDR Historical Cleaners:

Name:	L & E CLEANERS
Year:	1967
Type:	CLEANERS AND DYERS
Name:	L AND E CLEANERS
Year:	1967
Type:	DRY CLEANERS AND DYERS

I23 **SAPATA LEONIDES** **EDR Historical Cleaners** **1009140195**
South **1787 7TH ST** **N/A**
1/8-1/4 **OAKLAND, CA**
0.166 mi.
876 ft. **Site 1 of 6 in cluster I**

Relative:
Lower

Actual:
13 ft.

EDR Historical Cleaners:

Name:	SAPATA LEONIDES
Year:	1925
Type:	CLEANERS DYERS AND PRESSERS

I24 **RAMSAY GRANT** **EDR Historical Cleaners** **1009139774**
South **1777 7TH ST** **N/A**
1/8-1/4 **OAKLAND, CA**
0.169 mi.
890 ft. **Site 2 of 6 in cluster I**

Relative:
Equal

Actual:
14 ft.

EDR Historical Cleaners:

Name:	RAMSAY GRANT
Year:	1925
Type:	CLEANERS DYERS AND PRESSERS

I25 **DAHL SAML** **EDR Historical Auto Stations** **1009013438**
South **1775 7TH ST** **N/A**
1/8-1/4 **OAKLAND, CA**
0.169 mi.
893 ft. **Site 3 of 6 in cluster I**

Relative:
Equal

Actual:
14 ft.

EDR Historical Auto Stations:

Name:	DAHL SAML
Year:	1925
Type:	AUTOMOBILE REPAIRERS

I26	**CHURCH'S FRIED CHICKEN**	**HIST CORTESE**	**S102008249**
South	**1766 7TH**	**LUST**	**N/A**
1/8-1/4	**OAKLAND, CA 94607**	**VCP**	
0.171 mi.		**ENVIROSTOR**	
900 ft.	**Site 4 of 6 in cluster I**		

Relative:
Equal

Actual:
14 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	CALSI
Reg Id:	01540002

LUST:

Region:	STATE
Global Id:	T06019710161
Latitude:	37.807469
Longitude:	-122.302587
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	11/04/2010
Lead Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Case Worker:	Not reported
Local Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number:	NA
LOC Case Number:	RO0002843
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel, Gasoline
Site History:	Completed - Case Closed 8/25/2004 per DTSC's letter agreeing with CalTrans recommendation for No Further Action. see Site Docs Shaw letter 9/15/2009 has DTSC 8/25/2004 agreement letter attached.

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T06019710161
Contact Type:	Local Agency Caseworker
Contact Name:	STEVEN PLUNKETT
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	Not reported
Phone Number:	5103831767

LUST:

Global Id:	T06019710161
Action Type:	ENFORCEMENT
Date:	2008-07-03 00:00:00
Action:	Technical Correspondence / Assistance / Other - #20080703
Global Id:	T06019710161
Action Type:	REMEDIATION
Date:	1950-01-01 00:00:00
Action:	Excavate and Dispose
Global Id:	T06019710161
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Discovery

CHURCH’S FRIED CHICKEN (Continued) **S102008249**

Global Id: T06019710161
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

Global Id: T06019710161
Action Type: ENFORCEMENT
Date: 2009-07-27 00:00:00
Action: Staff Letter

Global Id: T06019710161
Action Type: ENFORCEMENT
Date: 2009-07-24 00:00:00
Action: Notice of Violation

Global Id: T06019710161
Action Type: RESPONSE
Date: 2009-08-10 00:00:00
Action: Electronic Reporting Submittal Due

VCP:
Facility ID: 01540002
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 0.3
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: JACINTO SOTO
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Site Code: 200353
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified
Status Date: 12/27/2005
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.8072688360468 / -122.302619665919
APN: 6-37-18
Past Use: RETAIL - SERVICE STATION
Potential COC: 30001, 30003, 30013, 30025, 3002502, 30272, 30407, 30550, 30593
Confirmed COC: 30550,30025,30272,30407,30001,30003,30013,3002502,30593
Potential Description: SOIL
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: 6-37-18
Alias Type: APN
Alias Name: 110033620534
Alias Type: EPA (FRS #)
Alias Name: T06019710161
Alias Type: GeoTracker Global ID
Alias Name: 200353

CHURCH'S FRIED CHICKEN (Continued) **S102008249**

Alias Type: Project Code (Site Code)
Alias Name: 01540002
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 12/27/2005
Comments: RA Certification approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 01/19/1996
Comments: DES approved for soil removal and groundwater monitoring network.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: RAP required hotspot soil removed and groundwater monitored.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 12/07/1994
Comments: Approval of Remedial Action Options Report, dated December 27, 1994.The purpose of this investigation was to address the DTSC concerns regarding the November 1993 PEA which include: (1) confirmation of the removal of 5 underground storage tanks and associated piping; (2) assessment of the presence of contaminants in the soils in the area of the former waste oil tank; and (3) assessment of contaminants in the ground water beneath the site. Additional soil and groundwater samples confirmed similar levels and types of contaminants.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 11/22/1993
Comments: Aproval of PEA, dated May 1993. Soil and groundwater contamination found.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: RIFS approved. Site investigation activities, performed prior to the 5/10/1994 VCA, were reported in the Site Investigation Report Area 2 dated August 1992. The RI/FS was approved on July 3, 1995 when the Remedial Action Plan Was approved for public review.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 08/02/2001
Comments: The removal action consisted of excavation and off-site disposal of

CHURCH'S FRIED CHICKEN (Continued) **S102008249**

approximately 2,480 cubic yards of soil contaminated with petroleum hydrocarbons (as gasoline, diesel and total hydrocarbons),benzene, toluene, ethyl benzene, xylenes, lead, nickel and arsenic. The soil was excavated down to 10 feet below ground surface where groundwater was encountered and excavation was stopped.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	08/25/2004
Comments:	Submittal of Soil Investigation Report.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	08/15/2002
Comments:	Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	01/07/1999
Comments:	Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	0.3
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	JACINTO SOTO
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley

CHURCH'S FRIED CHICKEN (Continued) **S102008249**

Facility ID: 01540002
Site Code: 200353
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program
Status: Certified
Status Date: 12/27/2005
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8072688360468
Longitude: -122.302619665919
APN: 6-37-18
Past Use: RETAIL - SERVICE STATION
Potential COC: 30001, 30003, 30013, 30025, 3002502, 30272, 30407, 30550, 30593
Confirmed COC: 30550,30025,30272,30407,30001,30003,30013,3002502,30593
Potential Description: SOIL
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: 6-37-18
Alias Type: APN
Alias Name: 110033620534
Alias Type: EPA (FRS #)
Alias Name: T06019710161
Alias Type: GeoTracker Global ID
Alias Name: 200353
Alias Type: Project Code (Site Code)
Alias Name: 01540002
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 12/27/2005
Comments: RA Certification approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 01/19/1996
Comments: DES approved for soil removal and groundwater monitoring network.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: RAP required hotspot soil removed and groundwater monitored.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 12/07/1994
Comments: Approval of Remedial Action Options Report, dated December 27, 1994.The purpose of this investigation was to address the DTSC concerns regarding the November 1993 PEA which include: (1) confirmation of the removal of 5 underground storage tanks and associated piping; (2) assessment of the presence of contaminants in

CHURCH'S FRIED CHICKEN (Continued) **S102008249**

the soils in the area of the former waste oil tank; and (3) assessment of contaminants in the ground water beneath the site. Additional soil and groundwater samples confirmed similar levels and types of contaminants.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	11/22/1993
Comments:	Aproval of PEA, dated May 1993. Soil and groundwater contamination found.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation / Feasibility Study
Completed Date:	07/03/1995
Comments:	RIFS approved. Site investigation activities, performed prior to the 5/10/1994 VCA, were reported in the Site Investigation Report Area 2 dated August 1992. The RI/FS was approved on July 3, 1995 when the Remedial Action Plan Was approved for public review.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	08/02/2001
Comments:	The removal action consisted of excavation and off-site disposal of approximately 2,480 cubic yards of soil contaminated with petroleum hydrocarbons (as gasoline, diesel and total hydrocarbons),benzene, toluene, ethyl benzene, xylenes, lead, nickel and arsenic. The soil was excavated down to 10 feet below ground surface where groundwater was encountered and excavation was stopped.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	08/25/2004
Comments:	Submittal of Soil Investigation Report.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	08/15/2002
Comments:	Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.
Completed Area Name:	PROJECT WIDE

CHURCH'S FRIED CHICKEN (Continued) **S102008249**

Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	01/07/1999
Comments:	Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

I27
South
1/8-1/4
0.171 mi.
900 ft.

CHURCHS FRIED CHICKEN / CALTRANS CYPRESS AREA 2
1766 7TH ST
OAKLAND, CA 94607

Site 5 of 6 in cluster I

Alameda County CS

S106661100
N/A

Relative:
Equal

Actual:
14 ft.

Alameda County CS:

Status:	Leak being confirmed
Record Id:	RO0002843
PE:	5602

Status:	Case Transferred
Record Id:	RO0002843
PE:	5602

I28
South
1/8-1/4
0.177 mi.
933 ft.

RITCHEY GUS
1753 7TH ST
OAKLAND, CA

Site 6 of 6 in cluster I

EDR Historical Cleaners

1009140194
N/A

Relative:
Equal

Actual:
14 ft.

EDR Historical Cleaners:

Name:	RITCHEY GUS
Year:	1925
Type:	CLEANERS DYERS AND PRESSERS

J29
NE
1/8-1/4
0.193 mi.
1017 ft.

GAINES PROPERTY
1795 11TH STREET
OAKLAND, CA 94607

Site 1 of 5 in cluster J

CERCLIS
FINDS
HIST Cal-Sites
RESPONSE
HAZNET
ENVIROSTOR

1001212406
CA0002059426

Relative:
Lower

Actual:
13 ft.

CERCLIS:

Site ID:	0905367
EPA ID:	CA0002059426
Facility County:	ALAMEDA
Short Name:	GAINES PROPERTY
Congressional District:	Not reported

GAINES PROPERTY (Continued) **1001212406**

IFMS ID: Not reported
SMSA Number: Not reported
USGC Hydro Unit: Not reported
Federal Facility: Not a Federal Facility
DMNSN Number: Not reported
Site Orphan Flag: Not reported
RCRA ID: Not reported
USGS Quadrangle: Not reported
Site Init By Prog: S
NFRAP Flag: Not reported
Parent ID: Not reported
RST Code: Not reported
EPA Region: 09
Classification: Not reported
Site Settings Code: Not reported
NPL Status: Not on the NPL
DMNSN Unit Code: Not reported
RBRAC Code: Not reported
RResp Fed Agency Code: Not reported
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information
Non NPL Status Date: 20070323
Site Fips Code: 06001
CC Concurrence Date: Not reported
CC Concurrence FY: Not reported
Alias EPA ID: Not reported
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):
Contact ID: 9271184.00000
Contact Name: Karen Jurist
Contact Tel: (415) 972-3219
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 9270048.00000
Contact Name: Jeff Inglis
Contact Tel: (415) 972-3095
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 13002167.00000
Contact Name: Carl Brickner
Contact Tel: (415) 972-3814
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 9270438.00000
Contact Name: Dawn Richmond
Contact Tel: (415) 972-3097
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Alias Comments: Not reported
Site Description: Not reported

CERCLIS Assessment History:

GAINES PROPERTY (Continued) **1001212406**

Action Code:	001
Action:	DISCOVERY
Date Started:	Not reported
Date Completed:	09/25/1997
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	State, Fund Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	001
Action:	PRELIMINARY ASSESSMENT
Date Started:	04/17/2002
Date Completed:	01/29/2003
Priority Level:	Higher priority for further assessment
Operable Unit:	SITEWIDE
Primary Responsibility:	State, Fund Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	001
Action:	OTHER CLEANUP ACTIVITY
Date Started:	Not reported
Date Completed:	03/23/2007
Priority Level:	NFRAP-Site does not qualify for the NPL based on existing information
Operable Unit:	SITEWIDE
Primary Responsibility:	State, Fund Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

FINDS:

Registry ID: 110009266757

Environmental Interest/Information System

California Department of Toxic Substances Control EnviroStor System (DTSC-EnviroStor) is an online search and Geographic Information System (GIS) tool for identifying sites that have known contamination or sites for which there may be reasons to investigate further. The EnviroStor database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites.

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

GAINES PROPERTY (Continued) **1001212406**

HISTORICAL CAL-SITES:

Facility ID: 01750030
Region: 2
Region Name: BERKELEY
Branch: NC
Branch Name: NORTH COAST
File Name: Not reported
State Senate District: 09192003
Status: CERT - CERTIFIED AS HAVING BEEN REMEDIED SATISFACTORILY UNDER DTSC OVERSIGHT
Status Name: CERTIFIED
Lead Agency: DTSC
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type: STATE
Type Name: STATE FUNDED SITE
NPL: Not Listed
SIC Code: 75
SIC Name: AUTO REPAIR, SERVICES & PARKING
Access: Not reported
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Unknown
Staff Member Responsible for Site: KHILF
Supervisor Responsible for Site: Not reported
Region Water Control Board: SF
Region Water Control Board Name: SAN FRANCISCO BAY
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 16
State Senate District Code: 09
Facility ID: 01750030
Activity: PEA
Activity Name: PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 08311998
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: CERT
Definition of Status: CERTIFIED
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0

GAINES PROPERTY (Continued) **1001212406**

Facility ID: 01750030
Activity: RAW
Activity Name: REMOVAL ACTION WORKPLAN
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 02092003
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: CERT
Definition of Status: CERTIFIED
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01750030
Activity: RA
Activity Name: REMOVAL ACTION
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 09192003
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: CERT
Definition of Status: CERTIFIED
Liquids Removed (Gals): 485
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: N
Activity Comments: IN ADDITION TO SOIL REMOVAL, 9 COMPRESSED GAS CYLINDERS AND DRUMS CONTAINING ZINC DUST AND PAINT DEBRIS WERE REMOVED AND DISPOSED AT ANAPPROVED LANDFILL.
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01750030
Activity: CERT
Activity Name: CERTIFICATION
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported

GAINES PROPERTY (Continued) **1001212406**

Comments Date: 09192003
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: CERT
Definition of Status: CERTIFIED
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01750030
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: I&SE
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 07292002
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: CERT
Definition of Status: CERTIFIED
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01750030
Activity: FDNC
Activity Name: FINAL DETERMINATION OF NON-COMPLIANCE
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 09202002
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: CERT
Definition of Status: CERTIFIED
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported

GAINES PROPERTY (Continued) **1001212406**

Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Alternate Address: 1795 11TH STREET
Alternate City,St,Zip: OAKLAND, CA 94607
Background Info: The Gaines Site is a vacant lot located in a mixed residential/commercial/industrial neighborhood. It has been used to store automobiles, drums, pressurized gas containers and other miscellaneous equipment. Surface samples collected found lead as high as 28,000 parts per million (ppm). No volatile or semivolatile organic compounds were detected at significant levels.
Comments Date: 02092003
Comments: A Removal Action Workplan was approved in February 2003 which
Comments Date: 02092003
Comments: required the removal of all soil containing metals above
Comments Date: 02092003
Comments: residential standards.
Comments Date: 06271997
Comments: Site Screening prepared under the US EPA Grant indicates that
Comments Date: 06271997
Comments: further assessment of this Site is needed.
Comments Date: 08012002
Comments: DTSC issued an Imminent and Substantial Endangerment Order to
Comments Date: 08012002
Comments: property owner.
Comments Date: 08311998
Comments: DTSC concluded that further assessment was needed and recommended
Comments Date: 08311998
Comments: that a site inspection be conducted by the City of Oakland.
Comments Date: 09192003
Comments: In June and July 2003, DTSC’s remediation contractor conducted a
Comments Date: 09192003
Comments: Removal Action which consisted of excavation, consolidation and
Comments Date: 09192003
Comments: offsite disposal of 485 cubic yards of lead-contaminated soil
Comments Date: 09192003
Comments: and debris to a Class I landfill. In September 2003, DTSC
Comments Date: 09192003
Comments: approved the Completion Report for the Removal Action. DTSC
Comments Date: 09192003
Comments: certified that the property has been cleaned to unrestricted
Comments Date: 09192003
Comments: residential standards.
Comments Date: 09202002
Comments: DTSC determined the property owner to be in non-compliance with
Comments Date: 09202002
Comments: the order.
Comments Date: 11182001
Comments: DTSC staff conducted sampling at the property. Lead was found in
Comments Date: 11182001
Comments: surface soils at concentrations as high as 28,000 milligrams/

GAINES PROPERTY (Continued) **1001212406**

Comments Date: 11182001
Comments: kilogram (ppm).
ID Name: CALSTARS CODE
ID Value: 201021
Alternate Name: GAINES PROPERTY
Special Programs Code: Not reported
Special Programs Name: Not reported

RESPONSE:
Facility ID: 01750030
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: 0.11
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: KATHARINE HILF
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 201021
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 16
Senate: 09
Special Program Status: Not reported
Status: Certified
Status Date: 09/19/2003
Restricted Use: NO
Funding: Orphan Funds
Latitude: 37.811510723446
Longitude: -122.300713505779
APN: 6-31-15
Past Use: JUNKYARD, RECYCLING - SCRAP METAL
Potential COC: 30013
Confirmed COC: 30013
Potential Description: SOIL
Alias Name: 6-31-15
Alias Type: APN
Alias Name: 110009266757
Alias Type: EPA (FRS #)
Alias Name: 201021
Alias Type: Project Code (Site Code)
Alias Name: 01750030
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 09/19/2003
Comments: In June and July 2003, DTSC's remediation contractor conducted a Removal Action which consisted of excavation, consolidation and offsite disposal of 485 cubic yards of lead-contaminated soil and debris to a Class I landfill.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

GAINES PROPERTY (Continued) **1001212406**

Completed Document Type:	Removal Action Workplan
Completed Date:	02/09/2003
Comments:	A Removal Action Workplan was approved in February 2003 which required the removal of all soil containing metals above residential standards.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment/Site Inspection Report (PA/SI)
Completed Date:	08/31/1998
Comments:	Lead was found in surface soils at concentrations as high as 28,000 parts per million (ppm). DTSC concluded that further assessment was needed and recommended that a site inspection be conducted by the City of Oakland.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	11/15/2002
Comments:	Fact Sheet for Draft RAW
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	11/15/2002
Comments:	Public Notice for Draft RAW
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Final Determination of Non-Compliance
Completed Date:	09/20/2002
Comments:	DTSC determined the property owner to be in non-compliance with the order.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	07/29/2002
Comments:	I&SE Determination and Order and Remedial Action Order which required the removal of lead-contaminated soil.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	09/19/2003
Comments:	DTSC certified that the property has been cleaned up to unrestricted residential standards.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

GAINES PROPERTY (Continued) **1001212406**

HAZNET:
Year: 2003
Gepaid: CAC002561281
Contact: MIKE TRAINOR
Telephone: 2095782219
Mailing Name: Not reported
Mailing Address: PO BOX 3928
Mailing City,St,Zip: MODESTO, CA 953523928
Gen County: Alameda
TSD EPA ID: CAD028409019
TSD County: Alameda
Waste Category: Off-specification, aged or surplus organics
Disposal Method: H01
Tons: 0.3
Facility County: 1

ENVIROSTOR:
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 0.11
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: KATHARINE HILF
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 01750030
Site Code: 201021
Assembly: 16
Senate: 09
Special Program: Not reported
Status: Certified
Status Date: 09/19/2003
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Orphan Funds
Latitude: 37.811510723446
Longitude: -122.300713505779
APN: 6-31-15
Past Use: JUNKYARD, RECYCLING - SCRAP METAL
Potential COC: 30013
Confirmed COC: 30013
Potential Description: SOIL
Alias Name: 6-31-15
Alias Type: APN
Alias Name: 110009266757
Alias Type: EPA (FRS #)
Alias Name: 201021
Alias Type: Project Code (Site Code)
Alias Name: 01750030
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 09/19/2003

GAINES PROPERTY (Continued) **1001212406**

Comments: In June and July 2003, DTSC's remediation contractor conducted a Removal Action which consisted of excavation, consolidation and offsite disposal of 485 cubic yards of lead-contaminated soil and debris to a Class I landfill.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 02/09/2003
Comments: A Removal Action Workplan was approved in February 2003 which required the removal of all soil containing metals above residential standards.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment/Site Inspection Report (PA/SI)
Completed Date: 08/31/1998
Comments: Lead was found in surface soils at concentrations as high as 28,000 parts per million (ppm). DTSC concluded that further assessment was needed and recommended that a site inspection be conducted by the City of Oakland.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 11/15/2002
Comments: Fact Sheet for Draft RAW

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 11/15/2002
Comments: Public Notice for Draft RAW

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Final Determination of Non-Compliance
Completed Date: 09/20/2002
Comments: DTSC determined the property owner to be in non-compliance with the order.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 07/29/2002
Comments: I&SE Determination and Order and Remedial Action Order which required the removal of lead-contaminated soil.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 09/19/2003
Comments: DTSC certified that the property has been cleaned up to unrestricted residential standards.

Future Area Name: Not reported
Future Sub Area Name: Not reported

GAINES PROPERTY (Continued) **1001212406**

Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

K30
SW
1/8-1/4
0.194 mi.
1023 ft.

LIPS PROPELLERS
1899 7TH
OAKLAND, CA 94607

Site 1 of 5 in cluster K

HIST CORTESE
VCP
HAZNET
ENVIROSTOR

S100938943
N/A

Relative:
Lower

Actual:
13 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	CALSI
Reg Id:	01350121

VCP:

Facility ID:	01350121
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	3.8
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	LYNN NAKASHIMA
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Site Code:	200352
Assembly:	16
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	No Further Action
Status Date:	01/07/2003
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.80744515467 / -122.305895210203
APN:	6-55-1
Past Use:	MANUFACTURING - OTHER
Potential COC:	10097, 10199, 30013
Confirmed COC:	10199,30013,10097
Potential Description:	SOIL
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	LIPS PROPELLERS
Alias Type:	Alternate Name
Alias Name:	6-55-1
Alias Type:	APN
Alias Name:	110033607746
Alias Type:	EPA (FRS #)
Alias Name:	200352
Alias Type:	Project Code (Site Code)

LIPS PROPELLERS (Continued) **S100938943**

Alias Name: 01350121
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: Approved RAP requiring removal of contamination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/21/1995
Comments: Approved PEA to define extent of contamination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: Approved RIFS noted presence of contamination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 10/26/1992
Comments: Site screening noted presence of two sumps. Soil and groundwater samples detected TPH, lead and copper above remediation goals.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/07/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 08/15/2002
Comments: Signed VCA amendment for time only. Amendment to the May 10, 1994 VCA

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: Signed VCA with Caltrans for Cypress Reconstruction. This property is part of the project.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LIPS PROPELLERS (Continued) **S100938943**

HAZNET:

Year:	1994
Gepaid:	CAL000038482
Contact:	GREGORY COLE
Telephone:	5104518219
Mailing Name:	Not reported
Mailing Address:	1899 SEVENTH ST
Mailing City,St,Zip:	OAKLAND, CA 946070000
Gen County:	1
TSD EPA ID:	CAD009452657
TSD County:	San Mateo
Waste Category:	Aqueous solution with total organic residues 10 percent or more
Disposal Method:	R01
Tons:	.2293
Facility County:	1

Year:	1994
Gepaid:	CAL000038482
Contact:	GREGORY COLE
Telephone:	5104518219
Mailing Name:	Not reported
Mailing Address:	1899 SEVENTH ST
Mailing City,St,Zip:	OAKLAND, CA 946070000
Gen County:	1
TSD EPA ID:	CAD009452657
TSD County:	San Mateo
Waste Category:	Aqueous solution with total organic residues 10 percent or more
Disposal Method:	Not reported
Tons:	.4587
Facility County:	1

Year:	1994
Gepaid:	CAL000038482
Contact:	GREGORY COLE
Telephone:	5104518219
Mailing Name:	Not reported
Mailing Address:	1899 SEVENTH ST
Mailing City,St,Zip:	OAKLAND, CA 946070000
Gen County:	1
TSD EPA ID:	CAD980887418
TSD County:	1
Waste Category:	Waste oil and mixed oil
Disposal Method:	R01
Tons:	.6880
Facility County:	1

Year:	1994
Gepaid:	CAL000038482
Contact:	GREGORY COLE
Telephone:	5104518219
Mailing Name:	Not reported
Mailing Address:	1899 SEVENTH ST
Mailing City,St,Zip:	OAKLAND, CA 946070000
Gen County:	1
TSD EPA ID:	CAT080031628
TSD County:	Kern
Waste Category:	Waste oil and mixed oil

LIPS PROPELLERS (Continued) **S100938943**

Disposal Method: R01
Tons: .0834
Facility County: 1

Year: 1993
Gepaid: CAL000038482
Contact: GREGORY COLE
Telephone: 5104518219
Mailing Name: Not reported
Mailing Address: 1899 SEVENTH ST
Mailing City,St,Zip: OAKLAND, CA 946070000
Gen County: 1
TSD EPA ID: CAD009452657
TSD County: San Mateo
Waste Category: Aqueous solution with total organic residues 10 percent or more
Disposal Method: D99
Tons: 1.3759
Facility County: 1

Click this hyperlink while viewing on your computer to access
1 additional CA_HAZNET: record(s) in the EDR Site Report.

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 3.8
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: LYNN NAKASHIMA
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Facility ID: 01350121
Site Code: 200352
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program
Status: No Further Action
Status Date: 01/07/2003
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.80744515467
Longitude: -122.305895210203
APN: 6-55-1
Past Use: MANUFACTURING - OTHER
Potential COC: 10097, 10199, 30013
Confirmed COC: 10199,30013,10097
Potential Description: SOIL
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: LIPS PROPELLERS
Alias Type: Alternate Name
Alias Name: 6-55-1
Alias Type: APN
Alias Name: 110033607746
Alias Type: EPA (FRS #)

LIPS PROPELLERS (Continued) **S100938943**

Alias Name: 200352
Alias Type: Project Code (Site Code)
Alias Name: 01350121
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: Approved RAP requiring removal of contamination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/21/1995
Comments: Approved PEA to define extent of contamination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: Approved RIFS noted presence of contamination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 10/26/1992
Comments: Site screening noted presence of two sumps. Soil and groundwater samples detected TPH, lead and copper above remediation goals.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/07/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 08/15/2002
Comments: Signed VCA amendment for time only. Amendment to the May 10, 1994 VCA

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: Signed VCA with Caltrans for Cypress Reconstruction. This property is part of the project.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported

LIPS PROPELLERS (Continued) **S100938943**

Schedule Revised Date: Not reported

31
East
1/8-1/4
0.196 mi.
1035 ft.

LOUSTALET M A MRS
1735 10TH ST
OAKLAND, CA

EDR Historical Cleaners **1009139881**
N/A

Relative:
Higher

Actual:
16 ft.

EDR Historical Cleaners:

Name: LOUSTALET PIERRE
Year: 1928
Type: LAUNDRIES

Name: LAUSTALET J
Year: 1933
Type: LAUNDRIES-HAND

Name: LOUSTALET M A MRS
Year: 1943
Type: LAUNDRIES-HAND

J32
NE
1/8-1/4
0.198 mi.
1048 ft.

ADELPHI ALUMINUM CO.
1111 PINE ST
OAKLAND, CA 94607

Site 2 of 5 in cluster J

HIST UST **U001599144**
N/A

Relative:
Lower

Actual:
13 ft.

HIST UST:

Region: STATE
Facility ID: 00000006111
Facility Type: Other
Other Type: MFG
Total Tanks: 0002
Contact Name: Not reported
Telephone: 4158393222
Owner Name: ADELPHI ALUMINUM CO.
Owner Address: 1111 PINE ST.
Owner City,St,Zip: OAKLAND, CA 94607

Tank Num: 001
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: Not reported
Leak Detection: None

Tank Num: 002
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00000500
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: None

J33
NE
1/8-1/4
0.198 mi.
1048 ft.

PACIFIC CANNERY LOFTS (PCL)
1111-1199 PINE STREET
OAKLAND, CA

Site 3 of 5 in cluster J

SLIC

S108991963
N/A

Relative:
Lower

Actual:
13 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	01/01/2008
Global Id:	SL0600111446
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.812502
Longitude:	-122.300289
Case Type:	Cleanup Program Site
Case Worker:	MEJ
Local Agency:	Not reported
RB Case Number:	01S0556
File Location:	Regional Board
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Heating Oil / Fuel Oil
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

J34
NE
1/8-1/4
0.198 mi.
1048 ft.

BONNELLI ENTERPRISES
1111 PINE
OAKLAND, CA 94607

Site 4 of 5 in cluster J

HIST CORTESE
LUST
CA FID UST
Alameda County CS
SWEEPS UST
CHMIRS
HAZNET

S101580345
N/A

Relative:
Lower

Actual:
13 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1824

LUST:

Region:	STATE
Global Id:	T0600101690
Latitude:	37.811863
Longitude:	-122.3008182
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	05/13/1998
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	PE
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-1824
LOC Case Number:	RO0000789
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

BONNELLI ENTERPRISES (Continued) **S101580345**

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0600101690
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0600101690
Contact Type: Local Agency Caseworker
Contact Name: PAMELA EVANS
Organization Name: ALAMEDA COUNTY LOP
Address: 1131 HARBOR BAY PARKWAY
City: ALAMEDA
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600101690
Action Type: REMEDIATION
Date: 1950-01-01 00:00:00
Action: Excavate and Dispose

Global Id: T0600101690
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: 01-1824
Facility Status: Case Closed
Case Number: 247
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: Tank
Date Leak Confirmed: 9/22/1993
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CA FID UST:
Facility ID: 01002541
Regulated By: UTNKA
Regulated ID: 00006111
Cortese Code: Not reported

BONNELLI ENTERPRISES (Continued) **S101580345**

SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 1111 PINE ST
Mailing Address 2: Not reported
Mailing City,St,Zip: OAKLAND 94607
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

Alameda County CS:
Status: Case Closed
Record Id: RO0000789
PE: 5602

SWEEPS UST:
Status: Not reported
Comp Number: 6111
Number: Not reported
Board Of Equalization: 44-000088
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-006111-000001
Actv Date: Not reported
Capacity: 1000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: LEADED
Number Of Tanks: 2

Status: Not reported
Comp Number: 6111
Number: Not reported
Board Of Equalization: 44-000088
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-006111-000002
Actv Date: Not reported
Capacity: 500
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

CHMIRS:
OES Incident Number: 5561

BONNELLI ENTERPRISES (Continued) **S101580345**

OES notification: Not reported
OES Date: 12/7/1994
OES Time: 09:18:57 AM
Incident Date: Not reported
Date Completed: Not reported
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
Special Studies 1: Not reported
Special Studies 2: Not reported
Special Studies 3: Not reported
Special Studies 4: Not reported
Special Studies 5: Not reported
Special Studies 6: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA/DOT/PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Comments: Not reported
Facility Telephone: Not reported
Waterway Involved: YES
Waterway: Not reported
Spill Site: Not reported
Cleanup By: Not reported
Containment: Not reported
What Happened: Not reported
Type: CHEMICAL
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 1994
Agency: oakland fd
Incident Date: 12/07/94 0851
Admin Agency: Not reported
Amount: 1 qt to .5 gallons
Contained: NO
Site Type: RD
E Date: Not reported
Substance: muriatic acid
Quantity Released: Not reported
BBLS: Not reported

BONNELLI ENTERPRISES (Continued) **S101580345**

Cups:	Not reported
CUFT:	Not reported
Gallons:	Not reported
Grams:	Not reported
Pounds:	Not reported
Liters:	Not reported
Ounces:	Not reported
Pints:	Not reported
Quarts:	Not reported
Sheen:	Not reported
Tons:	Not reported
Unknown:	Not reported
Evacuations:	NO
Number of Injuries:	NO
Number of Fatalities:	NO
Description:	spilled onto street. noticed by opd.

HAZNET:

Year:	2002
Gepaid:	CAC002555152
Contact:	BARBARA ALIMADADIAN/RESTEC CON
Telephone:	5107321996
Mailing Name:	Not reported
Mailing Address:	1136 AMADOR
Mailing City,St,Zip:	BERKELEY, CA 947070000
Gen County:	Alameda
TSD EPA ID:	Not reported
TSD County:	99
Waste Category:	Polychlorinated biphenyls and material containing PCBs
Disposal Method:	D80
Tons:	0.17
Facility County:	Not reported

Year:	2002
Gepaid:	CAC002555152
Contact:	BARBARA ALIMADADIAN/RESTEC CON
Telephone:	5107321996
Mailing Name:	Not reported
Mailing Address:	1136 AMADOR
Mailing City,St,Zip:	BERKELEY, CA 947070000
Gen County:	Alameda
TSD EPA ID:	Not reported
TSD County:	Alameda
Waste Category:	Asbestos containing waste
Disposal Method:	D80
Tons:	0.84
Facility County:	Not reported

L35
NE
1/8-1/4
0.201 mi.
1064 ft.

MARITIME ADMINISTRATION
1776 11TH STREET
OAKLAND, CA 94601

Site 1 of 4 in cluster L

MANIFEST
1009219036
N/A

Relative:
Equal

Actual:
14 ft.

NY MANIFEST:
EPA ID: CAP982452716
Country: USA
Mailing Name: MARITIME ADMINISTRATION
Mailing Contact: MARITIME ADMINISTRATION
Mailing Address: 211 MAIN STREET ROOM 1112
Mailing Address 2: Not reported
Mailing City: SAN FRANCISCO
Mailing State: CA
Mailing Zip: 94105
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 415-744-2560

Document ID: NYB4716603
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: 10222PNY
Trans2 State ID: Not reported
Generator Ship Date: 920811
Trans1 Recv Date: 920811
Trans2 Recv Date: Not reported
TSD Site Recv Date: 920901
Part A Recv Date: Not reported
Part B Recv Date: 920915
Generator EPA ID: CAP982452716
Trans1 EPA ID: NYD980769947
Trans2 EPA ID: Not reported
TSDF ID: NYD000632372
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00044
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Year: 92

K36
WSW
1/8-1/4
0.203 mi.
1074 ft.

SOUTHERN PACIFIC TRANSPORTATIO
1912 7TH AVE
OAKLAND, CA 94607

Site 2 of 5 in cluster K

HIST UST
U001599224
N/A

Relative:
Lower

Actual:
13 ft.

HIST UST:
Region: STATE
Facility ID: 00000024515
Facility Type: Other
Other Type: RAILYARD
Total Tanks: 0003
Contact Name: C. SHELTON
Telephone: 4158917728
Owner Name: SOUTHERN PACIFIC TRANSPORTATIO
Owner Address: 1 MARKET PLAZA

SOUTHERN PACIFIC TRANSPORTATIO (Continued) **U001599224**

Owner City,St,Zip:	SAN FRANCISCO, CA 94105
Tank Num:	001
Container Num:	#1
Year Installed:	1979
Tank Capacity:	00002500
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Tank Construction:	3/8" inches
Leak Detection:	Pressure Test
Tank Num:	002
Container Num:	#2
Year Installed:	1978
Tank Capacity:	00003000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Tank Construction:	3/8" inches
Leak Detection:	Pressure Test
Tank Num:	003
Container Num:	#3
Year Installed:	1980
Tank Capacity:	00002500
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Tank Construction:	3/8" inches
Leak Detection:	Pressure Test

K37
WSW
1/8-1/4
0.203 mi.
1074 ft.

SOUTHERN PACIFIC TRANS CO
1912 7TH
OAKLAND, CA 94607

HIST CORTESE **S104539362**
N/A

Site 3 of 5 in cluster K

Relative:
Lower

Actual:
13 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1401

K38
WSW
1/8-1/4
0.203 mi.
1074 ft.

SOUTHERN PACIFIC TRANSPORTATION COMPANY
1912 7TH
OAKLAND, CA 94607

LUST **S105870950**
Alameda County CS **N/A**

Site 4 of 5 in cluster K

Relative:
Lower

Actual:
13 ft.

LUST:

Region:	STATE
Global Id:	T0600101295
Latitude:	37.8081661
Longitude:	-122.3067691
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	05/14/1997
Lead Agency:	ALAMEDA COUNTY LOP

SOUTHERN PACIFIC TRANSPORTATION COMPANY (Continued) **S105870950**

Case Worker: AL
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: 01-1401
LOC Case Number: RO0001127
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0600101295
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0600101295
Contact Type: Local Agency Caseworker
Contact Name: AMY LEECH
Organization Name: ALAMEDA COUNTY LOP
Address: 1131 HARBOR BAY PARKWAY
City: ALAMEDA
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600101295
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: 01-1401
Facility Status: Case Closed
Case Number: 3681
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 5/28/1992
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Case Closed

SOUTHERN PACIFIC TRANSPORTATION COMPANY (Continued) **S105870950**

Record Id: RO0001127
PE: 5602

L39 **NE** **1/8-1/4** **0.204 mi.** **1079 ft.**	**MORGAN MARINE INC** **1776 11TH ST INSIDE BLDG** **OAKLAND, CA 94607** **Site 2 of 4 in cluster L**	**RCRA-SQG** **FINDS**	**1000345679** **CAD099955387**

Relative:
Equal

Actual:
14 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	MORGAN MARINE INC
Facility address:	1776 11TH ST INSIDE BLDG OAKLAND, CA 94607
EPA ID:	CAD099955387
Mailing address:	1776 ELEVEN ST OAKLAND, CA 94607
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	THOMAS & ROSEMARY MORGAN
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No

MORGAN MARINE INC (Continued) **1000345679**

Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 08/01/1990
Facility name: MORGAN MARINE INC
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002666204

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

L40
NE
1/8-1/4
0.204 mi.
1079 ft.

MORGAN CHEMICAL INC
1776 11TH ST OUTDOOR STRG YARD
OAKLAND, CA 94607

Site 3 of 4 in cluster L

RCRA-SQG
FINDS
HAZNET

1000232678
CAD982413163

Relative:
Equal

Actual:
14 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: MORGAN CHEMICAL INC
Facility address: 1776 11TH ST OUTDOOR STRG YARD
OAKLAND, CA 94607
EPA ID: CAD982413163
Mailing address: 1776 ELEVEN STREET
OAKLAND, CA 94607
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

MORGAN CHEMICAL INC (Continued) **1000232678**

hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: ROSEMARY & THOMAS MORGAN
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 08/10/1990
Facility name: MORGAN CHEMICAL INC
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002807730

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA

MORGAN CHEMICAL INC (Continued) **1000232678**

program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:
Year: 1994
Gepaid: CAD982413163
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 1776 11TH STREET
Mailing City,St,Zip: OAKLAND, CA 946070000
Gen County: 1
TSD EPA ID: CAT080010101
TSD County: San Diego
Waste Category: Adhesives
Disposal Method: H01
Tons: .4587
Facility County: 1

Year: 1993
Gepaid: CAD982413163
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 1776 11TH STREET
Mailing City,St,Zip: OAKLAND, CA 946070000
Gen County: 1
TSD EPA ID: CAT080010101
TSD County: San Diego
Waste Category: Laboratory waste chemicals
Disposal Method: Not reported
Tons: .0011
Facility County: 1

Year: 1993
Gepaid: CAD982413163
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 1776 11TH STREET
Mailing City,St,Zip: OAKLAND, CA 946070000
Gen County: 1
TSD EPA ID: CAT080010101
TSD County: San Diego
Waste Category: Unspecified solvent mixture
Disposal Method: H01
Tons: .4170
Facility County: 1

Year: 1993
Gepaid: CAD982413163
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 1776 11TH STREET
Mailing City,St,Zip: OAKLAND, CA 946070000

MORGAN CHEMICAL INC (Continued) **1000232678**

Gen County: 1
TSD EPA ID: CAD000088252
TSD County: Los Angeles
Waste Category: Unspecified solvent mixture
Disposal Method: H01
Tons: .2293
Facility County: 1

Year: 1993
Gepaid: CAD982413163
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 1776 11TH STREET
Mailing City,St,Zip: OAKLAND, CA 946070000
Gen County: 1
TSD EPA ID: CAT080010101
TSD County: San Diego
Waste Category: Adhesives
Disposal Method: Not reported
Tons: .7297
Facility County: 1

Click this hyperlink while viewing on your computer to access
5 additional CA_HAZNET: record(s) in the EDR Site Report.

K41 **SOUTHERN PACIFIC TRANSPORTAIO** **CA FID UST** **S101624395**
SW **1912 007TH ST** **SWEEPS UST** **N/A**
1/8-1/4 **OAKLAND, CA 94607**
0.207 mi.
1092 ft. **Site 5 of 5 in cluster K**

Relative:
Lower

Actual:
13 ft.

CA FID UST:
Facility ID: 01002156
Regulated By: UTNKI
Regulated ID: 00024515
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4158917728
Mail To: Not reported
Mailing Address: 1912 007TH ST
Mailing Address 2: Not reported
Mailing City,St,Zip: OAKLAND 94607
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

SWEEPS UST:
Status: Not reported
Comp Number: 24515
Number: Not reported
Board Of Equalization: 44-000293
Ref Date: Not reported

SOUTHERN PACIFIC TRANSPORTAIO (Continued) **S101624395**

Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-024515-000001
Actv Date: Not reported
Capacity: 2500
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: LEADED
Number Of Tanks: 3

Status: Not reported
Comp Number: 24515
Number: Not reported
Board Of Equalization: 44-000293
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-024515-000002
Actv Date: Not reported
Capacity: 3000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 24515
Number: Not reported
Board Of Equalization: 44-000293
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-024515-000003
Actv Date: Not reported
Capacity: 2500
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

L42 **MORGAN RESIDENCE** **RCRA-SQG** **1006930269**
ENE **1771 11TH STREET** **HAZNET** **CAR000147827**
1/8-1/4 **OAKLAND, CA 94607**
0.207 mi.
1095 ft. **Site 4 of 4 in cluster L**

Relative:
Equal

Actual:
14 ft.

RCRA-SQG:
Date form received by agency: 09/04/2003
Facility name: MORGAN RESIDENCE
Facility address: 1771 11TH STREET
OAKLAND, CA 94607
EPA ID: CAR000147827

MORGAN RESIDENCE (Continued) **1006930269**

Mailing address:	1233 21ST STREET OAKLAND, CA 94607
Contact:	TOM H MORGAN
Contact address:	1233 21ST STREET OAKLAND, CA 94607
Contact country:	US
Contact telephone:	510-267-0134
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	TOM MORGAN
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/28/1986
Owner/Op end date:	Not reported

Owner/operator name:	TOM MORGAN
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/28/1986
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Hazardous Waste Summary:

Waste code:	D008

MORGAN RESIDENCE (Continued) **1006930269**

Waste name: LEAD

Violation Status: No violations found

HAZNET:
Year: 2004
Gepaid: CAR000147827
Contact: MORGAN RESIDENCE
Telephone: Not reported
Mailing Name: Not reported
Mailing Address: 1233 21ST STREET
Mailing City,St,Zip: OAKLAND, CA 946070000
Gen County: Alameda
TSD EPA ID: CAT080033681
TSD County: Los Angeles
Waste Category: Other inorganic solid waste
Disposal Method: D80
Tons: 0.2
Facility County: Not reported

J43 **NAUTICAL ENGINEERING, INC** **RCRA-SQG** **1010313100**
NE **1790 - 11TH STREET** **CAL000124582**
1/8-1/4 **OAKLAND, CA 94607**
0.210 mi.
1107 ft. **Site 5 of 5 in cluster J**

Relative:
Lower

Actual:
13 ft.

RCRA-SQG:
Date form received by agency: 02/03/2006
Facility name: NAUTICAL ENGINEERING, INC
Facility address: 1790 - 11TH STREET
OAKLAND, CA 94607
EPA ID: CAL000124582
Contact: MARILYN A DRUMMOND
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (510) 839-0902
Contact email: MARILYN@NAUTICALENGINEERING.COM
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NAUTICAL ENGINEERING
Owner/operator address: 1790 - 11TH STREET
OAKLAND, CA 94607
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/02/1994
Owner/Op end date: Not reported

Owner/operator name: NAUTICAL ENGINEERING, INC

NAUTICAL ENGINEERING, INC (Continued) **1010313100**

Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/02/1994
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	02/03/2006
Facility name:	NAUTICAL ENGINEERING, INC
Classification:	Large Quantity Generator

Hazardous Waste Summary:

Waste code:	D001
Waste name:	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Waste code:	D008
Waste name:	LEAD
Violation Status:	No violations found

M44
NW
1/8-1/4
0.211 mi.
1116 ft.

OAKLAND GATEWAY DEVELOPMENT AREA
700 MURMANSK STREET, SUITE 3
OAKLAND, CA 94607

Cortese **S107736946**
N/A

Site 1 of 2 in cluster M

Relative:
Lower

Actual:
11 ft.

Cortese:

Region:	CORTESE
Envirostor Id:	1970016
Site/Facility Type:	STATE RESPONSE
Cleanup Status:	ACTIVE

OAKLAND GATEWAY DEVELOPMENT AREA (Continued) **S107736946**

Status Date:	7/14/2004
Site Code:	201537
Latitude:	37.810333
Longitude:	-122.312048
EPA Id:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Effective Date:	Not reported
Order No:	Not reported
Region:	Not reported
WDID:	Not reported
Swat R:	Not reported
Waste Discharger System Num:	Not reported
Solid Waste Id Num:	Not reported
Waste Management Unit Name:	Not reported
Agency Name:	Not reported

M45
NW
1/8-1/4
0.211 mi.
1116 ft.

OAKLAND ARMY BASE-EARLY TRANSFER
700 MURMANSK STREET, SUITE 3
OAKLAND, CA 94607

HIST Cal-Sites
RESPONSE
ENVIROSTOR

S106568695
N/A

Site 2 of 2 in cluster M

Relative:
Lower

Actual:
11 ft.

HISTORICAL CAL-SITES:

Facility ID:	01970016
Region:	2
Region Name:	BERKELEY
Branch:	NO
Branch Name:	OMF-NORTHERN CALIF
File Name:	OAKLAND GATEWAY DEVELOPMENT AREA
State Senate District:	07142004
Status:	AWP - ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency:	DTSC
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type:	CLOSE
Type Name:	CLOSED MILITARY BASE
NPL:	Not Listed
SIC Code:	97
SIC Name:	NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Access:	Not reported
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Confirmed
Staff Member Responsible for Site:	HWONG
Supervisor Responsible for Site:	Not reported
Region Water Control Board:	Not reported
Region Water Control Board Name:	Not reported
Lat/Long Direction:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Lat/Long Description:	Not reported
State Assembly District Code:	16
State Senate District Code:	09
Facility ID:	01970016
Activity:	RMDL
Activity Name:	REMEDIAL ACTION (RAP REQUIRED)

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

AWP Code: RMP
Proposed Budget: 0
AWP Completion Date: 06302013
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: DES
Activity Name: DESIGN
AWP Code: RMP
Proposed Budget: 0
AWP Completion Date: 06302013
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: RMDL
Activity Name: REMEDIAL ACTION (RAP REQUIRED)
AWP Code: US11A
Proposed Budget: 0
AWP Completion Date: 06302007
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: RMDL
Activity Name: REMEDIAL ACTION (RAP REQUIRED)
AWP Code: B99GW
Proposed Budget: 0
AWP Completion Date: 06302007
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: RMDL
Activity Name: REMEDIAL ACTION (RAP REQUIRED)
AWP Code: B808
Proposed Budget: 0
AWP Completion Date: 06302007
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: RMDL
Activity Name: REMEDIAL ACTION (RAP REQUIRED)
AWP Code: B99SO
Proposed Budget: 0
AWP Completion Date: 06302007
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: DES
Activity Name: DESIGN
AWP Code: B807
Proposed Budget: 0
AWP Completion Date: 06302006
Revised Due Date: Not reported
Comments Date: 06062005
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: DES
Activity Name: DESIGN
AWP Code: B808
Proposed Budget: 0
AWP Completion Date: 06302006

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: DES
Activity Name: DESIGN
AWP Code: B991
Proposed Budget: 0
AWP Completion Date: 08152005
Revised Due Date: 08152005
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: DES
Activity Name: DESIGN
AWP Code: B99SO
Proposed Budget: 0
AWP Completion Date: 09302006
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: DES
Activity Name: DESIGN
AWP Code: B1
Proposed Budget: 0
AWP Completion Date: 06302005
Revised Due Date: Not reported
Comments Date: 03302005
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: CERT
Activity Name: CERTIFICATION
AWP Code: BSWD
Proposed Budget: 0
AWP Completion Date: 06302014
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Alternate Address: 700 MURMANSK STREET, SUITE 3
Alternate City,St,Zip: OAKLAND, CA 94607
Background Info: ase which wil be redeveloped by the City of Oakland with a variet
y of commercial and industrial uses as part of the Gateway Develo
pment Area. Also, close to 185 acres (plus roughly 56 acres of s
ubmerged lands) will be developed by the Port of Oakland for mari
time, rail and other port activities as part of the Port Developm
ent Area. No residential uses will be allowed on the former Oakl
and Army Base property under the Amended Reuse Plan. The Amended
Reuse Plan, draft RAP, and draft RMP are analyzed in the former
Oakland Army Base Area Redevelopment Environmental Impact Report
pursuant to the California Environmental Quality Act. The Army h
as been conducting site environmental investigations and selected
remedial actions since 1989. DTSC is the primary agency oversee
ing the investigation and cleanup of the former Oakland Army Base
, and the Regional Water Qulaity Control Board, San Francisico Ba
y Region regulates the removal and closure of petroleum fuel tank
s. The Army's remedial activities have included removal of above
ground petroleum storage tanks (ASTs) and underground petroleum s
torage tanks (USTs), excavation of contaminated soil and removed
petroleum hydrocarbons from monitoring wells at former tank locat
ions, excavation of pesticide-containing soil from the off-site w
etlands area, and replacement of many transformers and electrical
equipment containing polychlorinated biphenyls (PCBs).
On August 6, 2003, Governor Davis approved Early Transfer of the
former Oakland Army Base to the City of Oakland. The U.S. Army r
equested that the State of California approve the deferral of rem
ediation of hazardous substance contamination and approve the tra
nsfer of the 363.5 acre base to the Oakland Base Reuse Author- it
y and the City of Oakland acting by and through the Oakland Redev
elopment Agency via an Economic Development Conveyance process.
The City of Oakland will begin remediation of hazardous substance
s in soil and groundwater as required in the Remedial Action Play
(RAP). The early transfer advances economic development for Oak
land and the region by integrating redevelopment with remediation
. The RAP identifies preferred alternatives at seven sites which
have been fully investigated and characterized for release of haz
ardous substances and for which remediation would proceed upon fi
nal approval of the RAP. The Risk Management Plan (RMP), which is
an appendix to the RAP, addresses all other areas of known or po
tential contamination, which may not yet have been fully investig
ated or characterized. The RMP specifies health protective measur
es that must be follwed during and after redevelopment at these l
ocations. The RMP includes protocols for conducting inspections,
performing routine sampling, maintaining institutional and engine
ering controls, elevating RMP location to RAP sites as appropriat
e, and fulfilling reporting obligations. The former Oakland Arm
y Base comprises of approximately 425 acres. Much of the base pr
operty was originally tidal flats or shallow open water. During
the first half of 1900s, the area was filled to create the land s
ubsequently acquired by the Army 1941. The former Oakland Army B
ase served as a major Army cargo port and warehousing facility fr
om 1941 until it was closed under the Base Realignment and Closur
e program on September 30, 1999. Army activities supported the f
ormer Oakland Army Base's primary military mission as a distribut
ion center and included maintaining and fueling railroad locomoti
ve engines and trucks that transported cargo, draining fluids fro

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

	m vehicles for overseas shipment, and repairing and servicing veh icles equipment, and base facilities. The Amended Draft final Reu se Plan for the Oakland Army Base, Dated July 23, 2001 (Amended R euse Plan), incoudes about 189 acres of the former Oakland Army B
Comments Date:	03302005
Comments:	DTSC accepted the PDIM.
Comments Date:	04272005
Comments:	DTSC approved the PDIM for Bldg 99 Soil.
Comments Date:	06062005
Comments:	DTSC approved the PDIM for Bldg 991.
ID Name:	CALSTARS CODE
ID Value:	201537
Alternate Name:	EDC AreaFORMER OAKLAND ARMY BASEOakland Gateway Development AreaOakland Army Base-Economic Development COakland Army Base-Early Transfer
Special Programs Code:	Not reported
Special Programs Name:	Not reported

AWP:

AWP Facility ID:	01970016
Region Code:	2
Region:	BERKELEY
SMBR Branch Code:	NO
SMBR Branch Unit:	OMF-NORTHERN CALIF
Site Name.:	OAKLAND GATEWAY DEVELOPMENT AREA
Current Status Date:	07142004
Current Status:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency Code:	DTSC
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type:	Closed military facility
Awp Site Type:	CLOSED MILITARY BASE
NPL:	Not Listed
Tier Of AWP Site:	Not reported
Source Of Funding:	Not reported
Responsible Staff Member:	HWONG
Supervisor Responsible:	Not reported
SIC Code:	97
Facility SIC:	NATIONAL SECURITY/INTERNATIONAL AFFAIRS
RWQCB Code:	Not reported
RWQCB Associated With Site:	Not reported
Site Access Controlled:	Not reported
Site Listed HWS List:	Not reported
Hazard Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Confirmed
# Of Contamination Sources:	0
Lat/Long:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Description Of Entity:	Not reported
State Assembly Distt Code:	16
State Senate District:	09

RESPONSE:

Facility ID:	01970016
Site Type:	State Response
Site Type Detail:	Closed Base

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Acres:	363.5
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	HENRY WONG
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	201537
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	16
Senate:	09
Special Program Status:	Not reported
Status:	Active
Status Date:	07/14/2004
Restricted Use:	NO
Funding:	BRAC 95
Latitude:	37.810333
Longitude:	-122.312048
APN:	NONE SPECIFIED
Past Use:	FOUNDRY, ILLEGAL DUMPING, LANDFILL - HAZARDOUS WASTE, MANUFACTURED GAS PLANT, OIL FIELD, UNKNOWN, BATTERY STORAGE, DEGREASING FACILITY, DISTRIBUTOR - CHEMICAL, DRY CLEANING, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, FUEL - VEHICLE STORAGE/ REFUELING, FUEL HYDRANT PUMPING STATIONS, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, ILLEGAL DUMPING, MACHINE SHOP, OIL/WATER SEPARATORS, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, RAIL ROAD MAINTENANCE SHOP, RECYCLING - DRUM, RECYCLING - OTHER, RECYCLING - SCRAP METAL, RECYCLING - USED OIL , SHIPYARD - TERMINAL, VEHICLE MAINTENANCE, TRANSFER STATION, MACHINE SHOP, OIL/WATER SEPARATORS, UNDERGROUND STORAGE TANKS, TRANSPORTATION - WAREHOUSING, FUEL - VEHICLE STORAGE/ REFUELING, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, ILLEGAL DUMPING, UNKNOWN, TRANSPORTATION - WAREHOUSING
Potential COC:	30000, 30009, 30013, 30018, 30019, 30024, 30025, 3002502, 30001, 30003, 30004, 30006, 30007, 30008, 30010, 30013, 30024, 30025, 3002502, 30026, 30027, 30028, 30001, 30013, 30018, 30024, 30025, 3002502, 30026, 30027, 30028, 30003, 30016, 30024, 30025, 3002502, 30272, 30550, 30593, 30027, 30028, 30195, 30196
Confirmed COC:	30000,30019,30024,30025,3002502,30018,30013,30009,, ,30001,30003,30004,30006,30007,30008,30010,30013,30024,30025,30026,30027,30028,3002502,, ,30001,30024,30025,30026,3002502,30018,30027,30028,30013,, ,30003,30016,30272,30593,30024,30025,30550,3002502,, ,30027,30028,30195,30196
Potential Description:	OTH, SOIL, OTH, SED, SOIL, OTH, SOIL, SV, IA, OTH, SV, IA, OTH, SV
Alias Name:	EDC Area
Alias Type:	Alternate Name
Alias Name:	FORMER OAKLAND ARMY BASE
Alias Type:	Alternate Name
Alias Name:	Oakland Army Base-Early Transfer
Alias Type:	Alternate Name
Alias Name:	Oakland Army Base-Economic Development Conveyance Area
Alias Type:	Alternate Name
Alias Name:	Oakland Gateway Development Area
Alias Type:	Alternate Name
Alias Name:	01970006

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Alias Type: Former Project ID
Alias Name: 110033612366
Alias Type: EPA (FRS #)
Alias Name: 201537
Alias Type: Project Code (Site Code)
Alias Name: 01970006
Alias Type: Envirostor ID Number
Alias Name: 01970016
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: RMP Locations 11, 75, 86, 93, 105, 106, 108,
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 04/05/2010
Comments: On April 5, 2010, DTSC determined that all appropriate removal/remedial actions had been completed and that all acceptable engineering practices were implemented; however, the site requires ongoing operation and maintenance and monitoring efforts. On August 8, 2003, the City of Oakland and DTSC executed and recorded the Covenant to Restrict Use of Property, Environmental Restriction for the Oakland Gateway Development Area, which includes RMP Locations 11, 75, 86, 93, 105, 106, 108, and 109. The City of Oakland implemented the institutional control remedy by recording the Covenant with the Alameda County Assessor s Office. The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, the first five-year statutory review is due for RMP Locations 11, 75, 86, 93, 105, 106, 108, and 109 by November 2010.

Completed Area Name: Package E-1
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/24/2010
Comments: On June 24, 2010, DTSC issued the Remedial Action Certification for the Package E-1 Area. On June 14, 2010, DTSC approved the Completion Report and concluded that the Port (a) had adequately investigated the site, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required remedies for the Package E-1 Area in accordance with the RAP and RMP.

Completed Area Name: Package B
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/29/2010
Comments: On June 29, 2010, DTSC issued the Remedial Action Certification for the Package B Area. On June 29, 2010, DTSC approved the Completion Report and concluded that the Port (a) had adequately investigated the site, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required remedies for the Package B Area in accordance with the RAP and RMP.

Completed Area Name: USTs 11/12/13 & 11A/12A/13A
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/24/2010
Comments: On June 24, 2010, DTSC issued the Remedial Action Certification for

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

the USTs 11/12/13 and 11A/12A/13A RAP Site. One June 24, 2010, DTSC approved the Completion Report and concluded that the Port of Oakland (a) had investigated the site adequately, (b) had implemented the required remedial action, (c) had monitored the groundwater for four quarters, and (d) had demonstrated achievement of the remedial action objectives at the USTs 11/12/13 and 11A/12A/13A RAP Site in accordance with the RAP, RMP, and RDIP.

Completed Area Name:	Bldg 99 GW
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/25/2009
Comments:	On 6/25/09, DTSC completed the Remedial Action Certification for the Building 99 Groundwater Remedial Action Plan (RAP) Site (also known as the VOCs in Groundwater near Building 99 RAP Site). In 2005, the Port of Oakland installed five wells and monitored the groundwater for four quarters. Soil data from the new well locations do not show VOC concentrations above normal reporting limits. Groundwater data from the monitoring events confirm that the VOC concentrations are below the remediation goals. The cumulative excess cancer risk less than 1.0E-05 and non-cancer hazard index less than 1 for potential industrial/commercial human receptors.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	04/20/2010
Comments:	On March 22, 2010 DTSC, City of Oakland, and Port of Oakland inspected the Oakland Gateway Development Area. DTSC found site activities consistent with the land use covenant.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	08/11/2008
Comments:	The Port of Oakland and City of Oakland are requesting five years extension for the following RAP Sites:

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	08/12/2008
Comments:	DTSC issued a letter identifying that the trigger date for a statutory five-year review was the mobilization date of Building 1 remedy implementation (i.e., November 28, 2005). Therefore, DTSC should review and approve the first statutory five-year review report on or before November 28, 2010. The letter specifies that the first Draft Five-Year Review Report is due in May 2010.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction Monitoring Report
Completed Date:	01/28/2009
Comments:	The City of Oakland and the Port of Oakland provided their Annual Certification letters for the Gateway Development Area (GDA) and the Port Development Area (PDA), respectively on 1/13/09 and 1/22/09. These letters certify compliance with the environmental restrictions

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of the Oakland Gateway Development Area (OGDA) as required by the Covenant to Restrict Use of Property, Environmental Restriction Section 4.01(e). DTSC has reviewed and concurred with the Annual Certification letters.

Completed Area Name:	Bldg 807
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	10/19/2009
Comments:	DTSC approved the Remedial Design and Implementation Plan for VOCs in Groundwater at Eastern End of Building 807 RAP Site on 10/19/09. The overall remedial action sequence is as follows: 1.

Completed Area Name:	Bldg 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	05/26/2006
Comments:	DTSC approved the Plan Modification Request Number 1 for Section 2.8 of the Soil Treatment Process Plan for the Building 1 Area. DTSC concurs that the City of Oakland may use pH indicator test strips in the field for the pre-treatment samples from Organic Residue.

Completed Area Name:	Bldg 99 GW
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	03/30/2005
Comments:	DTSC approved the Pre-Design Investigation Memorandum on 3/30/05 for the Building 99 Groundwater Remedial Action Plan Site.

Completed Area Name:	Bldg 99 Soil
Completed Sub Area Name:	Not reported
Completed Document Type:	* Remedial Action Completion or Implementation
Completed Date:	07/16/2007
Comments:	On 7/16/07, DTSC approved the Completion Report for the Building 99 Soil Remedial Action Plan (RAP) Site, and four adjacent Risk Management Plan (RMP) Locations listed below: Potential Lead-Based Paint Impacted Soils outside of Building 99 (NAD83 Northing and Easting Coordinates: 2125825, 6039940), Hydraulic Lift Cylinders inside Building 99 (NAD83 Northing and Easting Coordinates: 2125712, 6039884), Former Oily-Water Separator (OWS-4) outside the Southeastern Corner of Building 99 (NAD83 Northing and Easting Coordinates: 2125570, 6039966), and Decommissioned Washrack (Facility 98) outside the Southeastern Corner of Building 99 (NAD83 Northing and Easting Coordinates: 2125642, 6039973). The Port of Oakland completed further investigation to show that the residual soils contain chemical of concerns meeting the remediation goals at the Building 99 Soil RAP Site and four adjacent RMP Locations.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Newsletter
Completed Date:	04/15/2005
Comments:	The Community Update presents the cleanup status of the portion of the former Oakland Army Base, now known as the Former Oakland Army Base Economic Development Conveyance Area. The update also transmits a survey to solicit community inputs regarding the cleanup project.

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Completed Area Name: Bldg 1
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/14/2006
Comments: DTSC concluded that there was no need for a formal draft final document.

Completed Area Name: Bldg 1
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 08/01/2008
Comments: DTSC confirmed that the City has responded and revised the Health and Safety Plan appropriately. DTSC s 7/29/08 letter serves as agency concurrence on the subject document.

Completed Area Name: Bldg 99 GW
Completed Sub Area Name: Not reported
Completed Document Type: * Remedial Action Completion or Implementation
Completed Date: 07/16/2007
Comments: On 7/16/07, DTSC approved the Completion Report, VOCs in Groundwater near Building 99 RAP Site. In 2005, the Port of Oakland installed five wells and monitored the groundwater for four quarters. Soil data from the new well locations do not show VOC concentrations above normal reporting limits. Groundwater data from the monitoring events confirm that the VOC concentrations are below the remediation goals. The cumulative excess cancer risk less than 1.0E-05 and non-cancer hazard index less than 1 for potential industrial/commercial human receptors.

Completed Area Name: Bldg 807
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 10/24/2005
Comments: On 10/24/05, DTSC approved the Pre-Design Investigation Memorandum (PDIM) dated September 19, 2005 for volatile organic compounds in groundwater in the vicinity of Buildings 807, 808, and 823 at the Former Oakland Army Base Economic Development Conveyance Area. The PDIM proposes additional investigates to aid the Remedial Design and Implementation Plan preparation.

Completed Area Name: Bldg 1
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 02/14/2006
Comments: DTSC approved the Remedial Design and Implementation Plan which proposes detailed cleanup actions at the Former Oil Reclaiming Plant/Building 1 Area. The City of Oakland will remediate soils and sludge contaminated with organic chemicals, neutralize corrosive soils, stabilize lead in soils, and dispose all wastes at permitted land disposal facilities.

Completed Area Name: USTs 11/12/13 & 11A/12A/13A
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/24/2010
Comments: On June 24, DTSC approved the June 2010 Completion Report for USTs 11/12/13 and 11A/12A/13A RAP Site and concluded that the Port of

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Oakland (a) had investigated the site adequately, (b) had implemented the required remedial action, (c) had monitored the groundwater for four quarters, and (d) had demonstrated achievement of the remedial action objectives at the USTs 11/12/13 and 11A/12A/13A RAP Site in accordance with the RAP, RMP, and RDIP.

Completed Area Name:	Bldg 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	05/12/2009
Comments:	On May 12, 2009, DTSC concluded that the City of Oakland has implemented the remedy pursuant to the Remedial Action Plan (RAP) and Remedial Design Implementation Plan (RDIP) at the Building 1 RAP Site and has demonstrated achievement of the remedial action objectives. Approximately 11,642 tons of treated Building 1 remediation waste was disposed of as non-RCRA hazardous waste at the Kettleman Hills Landfill. Approximately 578 tons of overburden soil, that was deemed unsuitable for on-site reuse, was disposed of as non-hazardous daily cover at the Altamont Facility. Approximately 10,000 gallons of wastewater, which included decontamination water and water from utility demolition was discharged to the City of Oakland sewer system in accordance with the East Bay Municipal Utility District Wastewater Discharge Permit and City of Oakland Building Inspection Sewer Permit. No excavation dewatering was conducted. Approximately 1 ton of sediment removed from the decontamination tank during cleaning was sampled and analyzed, and subsequently disposed of as non-hazardous daily cover at the Altamont Facility.
Completed Area Name:	USTs 11/12/13 & 11A/12A/13A
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	08/23/2007
Comments:	DTSC approved the Remedial Design and Implementation Plan for USTs 11/12/13 and 11A/12A/13A RAP Site (RDIP) dated August 2007. The RDIP describes the remedial activities at the USTs 11/12/13 AND 11A/12A/13A RAP Site. The Remedy includes re-excavating the backfill of the former USTs 11/12/13 excavation to one to two feet below the groundwater table (approximately 30 x 37 x 8 depth), pumping out groundwater that accumulates in the excavation, collecting confirmation soil samples on the sidewalls and floor, introducing oxygen release compound to the bottom of the excavation, backfilling excavation, and conducting quarterly groundwater monitoring at the site for at least one year.
Completed Area Name:	Bldg 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	11/21/2003
Comments:	DTSC approved the Pre-Design Investigation Memorandum on 11/21/03 for the Building 1 Area. The memorandum describes a focused, pre-design investigation to obtain additional visual descriptions of encountered soil and waste layers, soil physical parameter data, and limited chemical data that will be useful for finalizing design decisions and to provide information to bidding remediation contractors.
Completed Area Name:	RMP Location - Building 99 Debris Area
Completed Sub Area Name:	Not reported

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Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 02/14/2006
Comments: DTSC approved the Report on Phase I Investigation and Work Plan for Phase II Investigation of Debris Area near Building 99 on February 14, 2006. The Phase I Report summarizes findings on two test pits. The Phase II Work Plan proposes investigation to define the lateral and vertical extent of contamination at the Debris Area.

Completed Area Name: Bldg 1
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/22/2006
Comments: DTSC approved the Plan Modification Request Number 4 for a modification to the Soil Treatment Process Plan to include the use of the Caterpillar 330 excavator (as described in the plan Section 2.2), Front Loader (as described in the plan Section 2.2), and/or a Caterpillar D5 Dozer to mix the reagent with the Building 1 waste.

Completed Area Name: Bldg 808 and 823
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/08/2009
Comments: DTSC concludes that the City of Oakland (a) has implemented the selected remedy pursuant to the Remedial Action Plan and Pre-Design Investigation Memorandum and (b) has demonstrated achievement of the remedial action objectives for the Buildings 808 and 823 RAP Site. DTSC hereby approves the Completion Report. DTSC will change the status of the Buildings 808 and 823 RAP Site on its EnviroStor database to Certified with Ongoing Operation and Maintenance.

Completed Area Name: Bldg 99 Soil
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 04/27/2005
Comments: DTSC approved the Pre-Design Investigation Memorandum on 4/27/05 for the Building 99 Soil Remedial Action Plan Site. The memorandum is a sampling plan for additional soil investigation at the Building 99 area to supplement existing data.

Completed Area Name: Bldg 991
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 06/06/2005
Comments: DTSC approved the Pre-Design Investigation Memorandum on 6/6/05 for the Building 991 Remedial Action Plan Site.

Completed Area Name: RMP Locations
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 08/19/2008
Comments: DTSC reviewed sampling proposals for the Risk Management Plan (RMP) Locations at Packages E-1 and E-2 emailed on 3/16/07. Package E-1 contains RMP Locations 71, 72, 73, 79, 81, and 92. Package E-2 contains RMP Location 90. DTSC provided verbal comments on the sampling strategy during the 7/3/07 Environmental Technical Team Meeting (meeting minutes #37). DTSC forwarded a concurrence to the Port of Oakland stating that the Packages E-1 and E-2 sampling

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proposals are consistent with the RMP (i.e., Appendix E of the 9/27/02 DTSC-approved Remedial Action Plan). The RMP itself is already a Remedial Design for all RMP Locations.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Workplan
Completed Date: 08/12/2008
Comments: DTSC concurs with the well destruction proposal for the following 40 groundwater monitoring wells: BB-3, EMW1, EMW2, EMW3, ICFMW216, ITMW237, ITMW238, ITMW239, ITMW241, ITMW242, ITMW245, ITMW246, ITMW247, ITMW248, ITMW251, K738BM01, K738DW01, K99BM01 or B99BM01, K99DW01 or B99DW01, K99DW02 or B99DW02, OBMW01, OBMW02, SMW-21, SMW-48, SMW-53, SMW-55, SMW-56, SMW-65, SMW-66, SMW-69, SMW-70, SMW-71, SMW-72, SMW-73, SMW-74, SMW-75, SMW-88, SMW-89, SMW-90, and SMW-92. DTSC requests the City of Oakland to destroy the wells in accordance with the procedures outlined in Appendix B, Section 2.6 of the DTSC-approved Quality Assurance Program Plan dated April 8, 2005.

Completed Area Name: USTs 11/12/13 & 11A/12A/13A
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Constructed: Operating Properly & Successfully
Completed Date: 04/22/2010
Comments: On 4/22/10, DTSC approved the Technical Report for Implementation of Remedial Action at UST 11/12/13 and 11A/12A/13A RAP Site (Technical Report) dated April 2010. The Port of Oakland commenced remediation in August 2007 and completed field activities in October 2007. The Technical Report documents the cleanup activities pursuant to the DTSC-approved Remedial Design and Implementation Plan dated August 23, 2007.

Completed Area Name: Bldg 1
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 11/25/2008
Comments: On 11/25/08, DTSC approves the revised Operations and Maintenance Plan, Former ORP/Building 1 Area Remediation Project, Former Oakland Army Base Economic Development Conveyance Area (O&M Plan). The O&M Plan proposes (a) groundwater monitoring at the Building 1 Remedial Action Plan Site and (b) compliance reporting pursuant to the 8/8/03 Covenant to Restrict Use of Property, Environmental Restriction. The City of Oakland has satisfactorily responded to DTSC s 5/12/08 comments and revised the O&M Plan accordingly.

Completed Area Name: RMP Location - Building 99 Debris Area
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 12/12/2007
Comments: The investigation work plan presents a general approach to performing exploratory investigation activities and collecting soil samples to further define the extent of the debris containing layer and fill data gaps from prior investigations. The plan addresses the Building 99 Debris Area as a Risk Management Plan Location to be remediated in accordance with the DTSC-approved 2002 Final Remedial Action Plan / Risk Management Plan.

Completed Area Name: RMP Location - Building 99 Debris Area

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Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Design - Preliminary/Intermediate
Completed Date:	01/19/2011
Comments:	The Phase II Report concludes that further investigation and remediation are necessary, both within and outside of the EDC Area. The Port of Oakland and City of Oakland own separate portions of off-site areas potentially contaminated with hazardous substances from the Debris Area. DTSC has requested the Port and City to provide a schedule for subsequent investigation and remediation for the Debris Area within the EDC Area and adjacent off-site areas.

Completed Area Name:	RMP Location - Building 99 Debris Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Design - Preliminary/Intermediate
Completed Date:	04/13/2011
Comments:	The Investigation Report confirms the presence of contamination within the EDC Area. This contamination is likely impacting off-site areas west of the Debris Area.

Completed Area Name:	RMP Locations 3, 4, 5, and 6
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	04/29/2009
Comments:	The City of Oakland (a) has adequately investigated Risk Management Plan (RMP) Locations 3, 4, 5, and 6, (b) has demonstrated achievement of the remedial action objectives, and (c) has implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name:	Package E-1
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/14/2010
Comments:	On June 14, 2010, DTSC approved the June 2010 Completion Report for the Package E-1 Area. Based on the information presented in the Completion Report, DTSC concluded that the Port of Oakland (a) had adequately investigated the site, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required remedies for the Package E-1 Area in accordance with the Remedial Action Plan and Risk Management Plan.

Completed Area Name:	Package E-2
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/29/2010
Comments:	On June 29, 2010, DTSC approved the Completion Report and concluded that the Port (a) had adequately investigated the site, (b) had demonstrated achievement of remedial action objectives, and (c) had implemented the required remedies for the Package E-2 Area in accordance with the RAP and RMP.

Completed Area Name:	RMP Location 96
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	02/09/2011
Comments:	On February 9, 2011, DTSC issued the Remedial Action Certification for Risk Management Plan (RMP) Location 96. On February 2, 2011, DTSC approved the Request for Completion and concluded that the City of

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Oakland (a) had documented the removal of impacted-soil from RMP Location 96, (d) had presented investigation results to demonstrate the achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the project site including RMP Location 96.

Completed Area Name: RMP Locations 27, 28, and 89
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/07/2011
Comments: On 6/1/2011, DTSC issued a Remedial Action Certification for RMP Locations 27, 28, and 89 attesting that the Port of Oakland (a) had adequately investigated RMP Locations 27, 28, and 89, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name: RMP Locations 7, 22, and 29
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 03/17/2011
Comments: On March 17, 2011, DTSC issued the Remedial Action Certification for Risk Management Plan (RMP) Locations 7, 22, and 29. On March 15, 2011, DTSC approved the Request for Completion and concluded that the City of Oakland (a) had adequately investigated RMP Locations 7, 22, and 29, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name: RMP Locations 48-51, 83, 115, 116, 119, and 1
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/01/2011
Comments: On 6/1/2011, DTSC issued a Remedial Action Certification for RMP Locations 48, 49, 50, 51, 83, 115, 116, 119, and 120 attesting that the Port of Oakland (a) had adequately investigated RMP Locations 48, 49, 50, 51, 83, 115, 116, 119, and 120, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name: RMP Locations 23, 24, 25, 87, 88, 113, 114, a
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 07/19/2010
Comments: On July 19, 2010, DTSC determined that all appropriate removal/remedial actions had been completed and that all acceptable engineering practices were implemented; however, the site requires ongoing operation and maintenance and monitoring efforts. On August 8, 2003, the City of Oakland and DTSC executed and recorded the Covenant to Restrict Use of Property, Environmental Restriction for the Oakland Gateway Development Area, which includes RMP Locations 23, 24, 25, 87, 88, 113, 114, and 123. The City of Oakland implemented the institutional control remedy by recording the Covenant with the Alameda County Assessor s Office. The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render

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the property not suitable for unrestricted use, the first five-year statutory review is due for RMP Locations 23, 24, 25, 87, 88, 113, 114, and 123 by November 2010.

Completed Area Name: Bldg 808 and 823
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/18/2009
Comments: On October 24, 2005, DTSC approved the Pre-Design Investigation Memorandum (PDIM) for additional four quarters of groundwater monitoring to better define the plume boundary and to aid preparation of the remedial design document. Vinyl chloride is the only COC for the Buildings 808 and 823 RAP Site. The maximum detected concentration of vinyl chloride in groundwater from four recent quarterly monitoring events was 26 g/L, which is below the remediation goal of 32 g/L. All other VOCs were below the respective remediation goals. On March 20, 2009, DTSC issued the Risk Management Plan Modification letter specifying new language for RMP, Section 6.2 regarding vapor intrusion mitigation measures. This RMP Modification requires additional evaluation and consultation with DTSC if new buildings were to be constructed at the Buildings 808 and 823 RAP Site and vicinity areas. The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, five-year statutory reviews are required for the Buildings 808 and 823 RAP Site. The trigger date for a statutory five-year review was the mobilization date of first remedy implementation for the Oakland Gateway Development Area project (i.e., Building 1 RAP Site on November 28, 2005). Therefore, DTSC should review and approve the first statutory five-year review report on or before November 28, 2010. As a result, DTSC shall receive the first Draft Five-Year Review Report in May 2010.

Completed Area Name: Bldg 1
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/18/2009
Comments: On February 14, 2006, DTSC approved the Remedial Design and Implementation Plan (RDIP) for the Building 1 RAP Site. The RDIP detailed cleanup procedures for contaminated soil and treatment for the Building 1 remediation waste. The City of Oakland commenced site preparatory activities on November 28, 2005, excavated soils and treated hazardous wastes on-site in 2006, and completed site restoration in early 2007. The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, five-year statutory reviews are required for this site. The trigger date for a statutory five-year review was the mobilization date of the Building 1 remedy implementation, November 28, 2005. Therefore, DTSC should review and approve the first statutory five-year review report on or before November 28, 2010. As a result, DTSC shall receive the first Draft Five-Year Review Report in May 2010.

Completed Area Name: RMP Locations 8, 10, 19/107, and 97
Completed Sub Area Name: Not reported
Completed Document Type: Certification

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Completed Date: 06/28/2011
Comments: On 6/28/2011, DTSC issued a Remedial Action Certification for RMP Locations 8, 10, 19, 97, and 107 attesting that the City of Oakland (a) had adequately investigated RMP Locations 8, 10, 19, 97, and 107, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name: Package D-1/C-1
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/14/2011
Comments: On 6/14/2011, DTSC issued a Remedial Action Certification for the Package D-1/C-1 Area attesting that the Port of Oakland (a) had adequately investigated and remediated the Package D-1/C-1 Area, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject areas.

Completed Area Name: RMP Locations 3, 4, 5, and 6
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/29/2010
Comments: On April 29, 2009, DTSC determined that all appropriate removal/remedial actions had been completed and that all acceptable engineering practices were implemented; however, the site requires ongoing operation and maintenance and monitoring efforts. On August 8, 2003, the City of Oakland and DTSC executed and recorded the Covenant to Restrict Use of Property, Environmental Restriction for the Oakland Gateway Development Area, which includes RMP Locations 3, 4, 5, and 6. The City of Oakland implemented the institutional control remedy by recording the Covenant with the Alameda County Assessor s Office. The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, the first five-year statutory review is due for RMP Locations 3, 4, 5, and 6 by November 2010.

Completed Area Name: RMP Locations 20, 99, and 100
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/29/2010
Comments: On March 4, 2008, DTSC determined that all appropriate removal/remedial actions had been completed and that all acceptable engineering practices were implemented; however, the site requires ongoing operation and maintenance and monitoring efforts. On August 8, 2003, the City of Oakland and DTSC executed and recorded the Covenant to Restrict Use of Property, Environmental Restriction for the Oakland Gateway Development Area, which includes RMP Locations 20, 99, and 100. The City of Oakland implemented the institutional control remedy by recording the Covenant with the Alameda County Assessor s Office. The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, the first five-year statutory review is due for RMP Locations 20, 99, and 100 by November 2010.

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Completed Area Name: Package E-2
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/29/2010
Comments: On June 29, 2010, DTSC issued the Remedial Action Certification for the Package E-2 Area. On June 29, 2010, DTSC approved the Completion Report and concluded that the Port (a) had adequately investigated the site, (b) had demonstrated achievement of remedial action objectives, and (c) had implemented the required remedies for the Package E-2 Area in accordance with the RAP and RMP.

Completed Area Name: Bldg 99 Soil
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/25/2009
Comments: On 6/25/09, DTSC completed the Remedial Action Certification for the Building 99 Soil Remedial Action Plan (RAP) Site, and four adjacent Risk Management Plan (RMP) Locations listed below: Potential Lead-Based Paint Impacted Soils outside of Building 99 (NAD83 Northing and Easting Coordinates: 2125825, 6039940), Hydraulic Lift Cylinders inside Building 99 (NAD83 Northing and Easting Coordinates: 2125712, 6039884), Former Oily-Water Separator (OWS-4) outside the Southeastern Corner of Building 99 (NAD83 Northing and Easting Coordinates: 2125570, 6039966), and Decommissioned Washrack (Facility 98) outside the Southeastern Corner of Building 99 (NAD83 Northing and Easting Coordinates: 2125642, 6039973). The Port of Oakland completed further investigation to show that the residual soils contain chemical of concerns meeting the remediation goals at the Building 99 Soil RAP Site and four adjacent RMP Locations.

Completed Area Name: Bldg 807
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Constructed: Operating Properly & Successfully
Completed Date: 10/14/2010
Comments: On 10/14/10, DTSC approved the Remedial Action Implementation Report for the Building 807 RAP Site. DTSC concurred that the Port of Oakland had successfully constructed the remedy which included injecting Hydrogen Releasing Compound at 76 locations at the Building 807 RAP Site. The Port of Oakland will begin groundwater monitoring program as scheduled.

Completed Area Name: RMP Locations 7, 22, and 29
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 03/15/2011
Comments: DTSC approved the Request for Completion and concluded that the City of Oakland (a) had adequately investigated RMP Locations 7, 22, and 29, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name: Bldg 991
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 01/26/2011
Comments: DTSC approved the Tech Memo proposing the soil remediation goals for dieldrin, endrin, and lindane to be 0.13, 0.021, and 0.10 mg/kg,

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respectively, for the Building 991 RAP Site only.

Completed Area Name: Package D-1/C-1
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/14/2011
Comments: DTSC approved the Completion Report and concluded that the Port of Oakland (a) had adequately investigated and remediated the Package D-1/C-1 Area, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject areas.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence - Received
Completed Date: 10/27/2010
Comments: On 10/27/10, DTSC approved the waiver request allowing the City of Oakland s sub-lessee, Anka Behavioral, to use the interior of Building 821 as an emergency winter shelter for homeless individuals from November 1, 2010 through April 30, 2011.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence - Received
Completed Date: 04/21/2009
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence - Received
Completed Date: 10/10/2008
Comments: On 10/10/2008, DTSC approved the City of Oakland s request allowing Anka Behavioral to use the interior of Building 821 as an emergency winter shelter for homeless individuals from November 1, 2008 through April 30, 2009.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence - Received
Completed Date: 10/31/2006
Comments: On 10/31/06, DTSC approved the Interim Land Use Waiver request allowing Operation Dignity to use the interior of Building 821 as an emergency winter shelter for homeless individuals from November 2006 through April 2007, and from November 2007 through April 2008.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence - Received
Completed Date: 03/27/2007
Comments: On 3/27/07, DTSC approved an Interim Land Use Waiver request allowing CEDA to use the Building 821 Lot as a winter encampment area as specified in CEDA s February 8, 2007 request letter. This Interim Land Use Waiver allows CEDA to operate the Building 821 Lot from April through August 2007. The wavier does not apply to any date not specified. This Interim Land Use Waiver expires on August 31, 2007.

Completed Area Name: Sites With No Operable Unit

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Completed Sub Area Name: Not reported
Completed Document Type: Correspondence - Received
Completed Date: 07/11/2007
Comments: On 7/11/07, DTSC approved an extension request allowing CEDA to use the Building 821 Lot from September 1, 2007 through April 30, 2008.

Completed Area Name: RMP Location 96
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 02/02/2011
Comments: On February 2, 2011, DTSC approved the Request for Completion and concluded that the City of Oakland (a) had documented the removal of impacted-soil from RMP Location 96, (d) had presented investigation results to demonstrate the achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the project site including RMP Location 96.

Completed Area Name: Bldg 807
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/15/2010
Comments: DTSC acknowledged the receipt of the September 2010 Quarterly Groundwater Monitoring Data Report. Formal regulatory review on the data report is not necessary at this time. A completion report with data interpretation is forth coming at an appropriate time.

Completed Area Name: Package B
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/29/2010
Comments: On 6/29/10, DTSC approved the Completion Report for the Package B Area and concluded that the Port of Oakland (a) had adequately investigated the site, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required remedies for the Package B Area in accordance with the RAP and RMP.

Completed Area Name: RMP Locations 11, 75, 86, 93, 105, 106, 108,
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 10/20/2009
Comments: Based on the information presented in the Completion Request, DTSC concludes that environmental data do not suggest evidence of contamination. DTSC hereby concurs that the City of Oakland (a) has adequately investigated RMP Locations 11, 75, 86, 93, 105, 106, 108, and 109, (b) has demonstrated achievement of the remedial action objectives, and (c) has implemented the required institutional control remedy for the subject RMP Locations. DTSC requested the City of Oakland to collect a grab groundwater sample at RMP Location 107 (UST-19) to fill a data gap. The City of Oakland has agreed to collect additional groundwater data at RMP Location 107 and defer the completion request for this location.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 04/20/2010
Comments: On March 22, 2010 DTSC, City of Oakland, and Port of Oakland

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

inspected the Oakland Gateway Development Area. DTSC found site activities consistent with the land use covenant.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 03/01/2011
Comments: DTSC reviewed the Annual Certification letters for the Oakland Gateway Development Area covering the Gateway Development Area (GDA) and Port Development Area (PDA), dated 2/4/11 and 1/6/11, respectively. DTSC has no comment.

Completed Area Name: Bldg 1
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 10/22/2009
Comments: The City of Oakland conducted quarterly monitoring events in August 2008, November 2008, February 2009, and May 2009 at five monitoring wells B1MW001 through B1MW005. The results of four quarters of groundwater monitoring at the Building 1 Area indicate that the groundwater monitoring objectives have been met. No volatile COCs are present in groundwater at concentrations above remediation goals, and no significant increases in concentrations of metals or other non-volatile COCs are occurring. Based on the information presented in the July 24, 2009 Report, DTSC concurs with the City of Oakland s request to terminate groundwater monitoring at the Building 1 Area.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 11/16/2009
Comments: DTSC has received the Port of Oakland s September 23, 2009 letter proposing Risk Management Plan (RMP) implementation protocols for storm drains and sanitary sewers (SD/SS). The September 27, 2002 DTSC-approved RMP includes SD/SS within the RMP Implementation Area. However, the RMP does not address implementation for "SD/SS without suspected or known contamination." DTSC issued a letter on 11/16/09 clarifying Section 2.2.2.7 of the RMP and specifying implementation protocols for "SD/SS without suspected or known contamination."

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Workplan
Completed Date: 05/11/2010
Comments: On 5/11/10, DTSC completed initial review of a draft section from the draft Five-Year Review Report regarding remediation goals (RGs) for lead and total petroleum hydrocarbons (TPHs) at the Oakland Gateway Development Area (aka: Former OARB - EDC Area). DTSC agrees with the lead RG but disagrees with the TPH RGs.

Completed Area Name: RMP Locations 20, 99, and 100
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 03/04/2008
Comments: Based on the information presented in the 4/10/07 letter report, DTSC concluded that environmental data do not suggest potential of contamination. On 3/4/08, DTSC concurred that the City of Oakland (a)

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

has adequately investigated RMP Locations 20, 99, and 100, (b) has demonstrated achievement of the remedial action objectives, and (c) has implemented the required remedies for the subject RMP Locations. In addition, DTSC agreed with decommission of well ITMW241 associated with RMP Location 20.

Completed Area Name:	RMP Locations 23, 24, 25, 87, 88, 113, 114, a
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	07/19/2010
Comments:	On July 19, 2010, DTSC approved the City of Oakland s Completion Request and concluded that the City of Oakland (a) had investigated RMP Locations 23, 24, 25, 87, 88, 113, 114, and 123 adequately, (b) had removed 842 cubic yards of impacted-soil from RMP Locations 23, 113, and 123, (c) had demonstrated achievement of the remedial action objectives, and (d) had implemented the required institutional control remedy for the subject RMP Locations. DTSC also approved the identification of RMP Location 159 to be addressed during future site redevelopment.

Completed Area Name:	RMP Locations 8, 10, 19/107, and 97
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Design - Preliminary/Intermediate
Completed Date:	07/15/2010
Comments:	DTSC reviewed the Site Health and Safety Plan and concurred that the City of Oakland may proceed with field investigation at RMP Locations 8, 10, 19, 97, and 107 as schedule pursuant to the DTSC-approved Risk Management Plan.

Completed Area Name:	RMP Locations 27, 28, and 89
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Design - Preliminary/Intermediate
Completed Date:	02/02/2011
Comments:	DTSC concurred with the sampling proposal for RMP Locations 27, 28, and 89.

Completed Area Name:	RMP Locations 48-51, 83, 115, 116, 119, and 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/01/2011
Comments:	DTSC approved the Completion Report and concluded that the Port of Oakland (a) had adequately investigated RMP Locations 48, 49, 50, 51, 83, 115, 116, 119, and 120, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name:	RMP Locations 8, 10, 19/107, and 97
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/28/2011
Comments:	DTSC approved the Completion Request and concluded that the City of Oakland (a) had adequately investigated RMP Locations 8, 10, 19, 97, and 107, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name:	Outfalls 8 through 11

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Completed Sub Area Name: Not reported
Completed Document Type: Ecological Risk Assessment Report
Completed Date: 01/26/2011
Comments: Instead of re-reviewing the 2002/2003 documents, DTSC believes that a supplemental marine sediment investigation and new risk evaluation are necessary. Depending on the results, DTSC may require a feasibility study and Remedial Action Plan Amendment to select the final remedy for Outfalls 8 through 11.

Completed Area Name: Bldg 807
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/26/2011
Comments: DTSC acknowledged the receipt of the December 2010 Quarterly Groundwater Monitoring Data Report. Formal regulatory review on the data report is not necessary at this time. A completion report with data interpretation is forth coming at an appropriate time.

Completed Area Name: RMP Locations 15, 91, and 98
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Implementation Workplan
Completed Date: 05/09/2011
Comments: The City will incorporate DTSC's recommendations as provided in DTSC 4/19/11 comment memorandum.

Completed Area Name: RMP Locations 27, 28, and 89
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/07/2011
Comments: DTSC approved the Completion Report and concluded that the Port of Oakland (a) had adequately investigated RMP Locations 27, 28, and 89, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name: RMP Locations 43, 125, 128, and 160
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 07/26/2011
Comments: DTSC approved the Port's proposal to investigate RMP Locations 43, 125, 128, and 160 as specified.

Completed Area Name: RMP Locations 1 and 2
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 08/02/2011
Comments: DTSC has reviewed EKI's 7/20/11 sampling approach at location K02S107 and agrees with the proposal.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 12/10/2008
Comments: DTSC's Environmental Chemistry Lab recommends 50 to 100 gm of samples to be extracted (by rinsing with appropriate solvents), followed by methods 6010, 8270, 1664, 8081, 8141, 8028 etc.) for COC mentioned.

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Future Area Name: Basewide
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2015
Future Area Name: Bldg 991
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Completion Report
Future Due Date: 2012
Future Area Name: Bldg 807
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Completion Report
Future Due Date: 2013
Future Area Name: RMP Locations
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Completion Report
Future Due Date: 2014
Future Area Name: RMP Locations 43, 125, 128, and 160
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2012
Future Area Name: RMP Locations
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2014
Future Area Name: Bldg 807
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2013
Future Area Name: Bldg 991
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2012
Future Area Name: Basewide
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2015
Future Area Name: Basewide
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2020
Schedule Area Name: Package A
Schedule Sub Area Name: Not reported
Schedule Document Type: Certification
Schedule Due Date: 11/30/2011
Schedule Revised Date: Not reported
Schedule Area Name: RMP Locations in the Central Motor Pool Area
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Action Completion Report
Schedule Due Date: 2/28/2012
Schedule Revised Date: Not reported
Schedule Area Name: Package A
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Action Completion Report
Schedule Due Date: 10/30/2011
Schedule Revised Date: Not reported
Schedule Area Name: Categorical RMP Location 147 Geotechnical Borings
Schedule Sub Area Name: Not reported

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Schedule Document Type: Remedial Action Completion Report
Schedule Due Date: 6/30/2012
Schedule Revised Date: Not reported
Schedule Area Name: RMP Locations 43, 125, 128, and 160
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Action Completion Report
Schedule Due Date: 4/30/2012
Schedule Revised Date: Not reported
Schedule Area Name: Bldg 991
Schedule Sub Area Name: Not reported
Schedule Document Type: Design/Implementation Workplan
Schedule Due Date: 11/30/2011
Schedule Revised Date: Not reported
Schedule Area Name: RMP Locations in the Central Motor Pool Area
Schedule Sub Area Name: Not reported
Schedule Document Type: Certification
Schedule Due Date: 3/30/2012
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: 5 Year Review Reports
Schedule Due Date: 11/30/2011
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: State Response
Site Type Detailed: Closed Base
Acres: 363.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: HENRY WONG
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 01970016
Site Code: 201537
Assembly: 16
Senate: 09
Special Program: Not reported
Status: Active
Status Date: 07/14/2004
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: BRAC 95
Latitude: 37.810333
Longitude: -122.312048
APN: NONE SPECIFIED
Past Use: FOUNDRY, ILLEGAL DUMPING, LANDFILL - HAZARDOUS WASTE, MANUFACTURED GAS PLANT, OIL FIELD, UNKNOWN, BATTERY STORAGE, DEGREASING FACILITY, DISTRIBUTOR - CHEMICAL, DRY CLEANING, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, FUEL - VEHICLE STORAGE/ REFUELING, FUEL HYDRANT PUMPING STATIONS, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, ILLEGAL DUMPING, MACHINE SHOP, OIL/WATER SEPARATORS, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, RAIL ROAD MAINTENANCE SHOP, RECYCLING - DRUM, RECYCLING - OTHER, RECYCLING - SCRAP METAL, RECYCLING - USED OIL , SHIPYARD - TERMINAL, VEHICLE MAINTENANCE, TRANSFER STATION, MACHINE SHOP, OIL/WATER SEPARATORS,

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

UNDERGROUND STORAGE TANKS, TRANSPORTATION - WAREHOUSING, FUEL - VEHICLE STORAGE/ REFUELING, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, ILLEGAL DUMPING, UNKNOWN, TRANSPORTATION - WAREHOUSING

Potential COC: 30000, 30009, 30013, 30018, 30019, 30024, 30025, 3002502, 30001, 30003, 30004, 30006, 30007, 30008, 30010, 30013, 30024, 30025, 3002502, 30026, 30027, 30028, 30001, 30013, 30018, 30024, 30025, 3002502, 30026, 30027, 30028, 30003, 30016, 30024, 30025, 3002502, 30272, 30550, 30593, 30027, 30028, 30195, 30196

Confirmed COC: 30000,30019,30024,30025,3002502,30018,30013,30009,,
,30001,30003,30004,30006,30007,30008,30010,30013,30024,30025,30026,
30027,30028,3002502,,
,30001,30024,30025,30026,3002502,30018,30027,30028,30013,,
,30003,30016,30272,30593,30024,30025,30550,3002502,,
,30027,30028,30195,30196

Potential Description: OTH, SOIL, OTH, SED, SOIL, OTH, SOIL, SV, IA, OTH, SV, IA, OTH, SV

Alias Name: EDC Area
Alias Type: Alternate Name
Alias Name: FORMER OAKLAND ARMY BASE
Alias Type: Alternate Name
Alias Name: Oakland Army Base-Early Transfer
Alias Type: Alternate Name
Alias Name: Oakland Army Base-Economic Development Conveyance Area
Alias Type: Alternate Name
Alias Name: Oakland Gateway Development Area
Alias Type: Alternate Name
Alias Name: 01970006
Alias Type: Former Project ID
Alias Name: 110033612366
Alias Type: EPA (FRS #)
Alias Name: 201537
Alias Type: Project Code (Site Code)
Alias Name: 01970006
Alias Type: Envirostor ID Number
Alias Name: 01970016
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: RMP Locations 11, 75, 86, 93, 105, 106, 108,
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 04/05/2010
Comments: On April 5, 2010, DTSC determined that all appropriate removal/remedial actions had been completed and that all acceptable engineering practices were implemented; however, the site requires ongoing operation and maintenance and monitoring efforts. On August 8, 2003, the City of Oakland and DTSC executed and recorded the Covenant to Restrict Use of Property, Environmental Restriction for the Oakland Gateway Development Area, which includes RMP Locations 11, 75, 86, 93, 105, 106, 108, and 109. The City of Oakland implemented the institutional control remedy by recording the Covenant with the Alameda County Assessor s Office. The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, the first five-year statutory review is due for RMP Locations 11, 75, 86, 93, 105, 106, 108, and 109 by November 2010.

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Completed Area Name:	Package E-1
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/24/2010
Comments:	On June 24, 2010, DTSC issued the Remedial Action Certification for the Package E-1 Area. On June 14, 2010, DTSC approved the Completion Report and concluded that the Port (a) had adequately investigated the site, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required remedies for the Package E-1 Area in accordance with the RAP and RMP.

Completed Area Name:	Package B
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/29/2010
Comments:	On June 29, 2010, DTSC issued the Remedial Action Certification for the Package B Area. On June 29, 2010, DTSC approved the Completion Report and concluded that the Port (a) had adequately investigated the site, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required remedies for the Package B Area in accordance with the RAP and RMP.

Completed Area Name:	USTs 11/12/13 & 11A/12A/13A
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/24/2010
Comments:	On June 24, 2010, DTSC issued the Remedial Action Certification for the USTs 11/12/13 and 11A/12A/13A RAP Site. One June 24, 2010, DTSC approved the Completion Report and concluded that the Port of Oakland (a) had investigated the site adequately, (b) had implemented the required remedial action, (c) had monitored the groundwater for four quarters, and (d) had demonstrated achievement of the remedial action objectives at the USTs 11/12/13 and 11A/12A/13A RAP Site in accordance with the RAP, RMP, and RDIP.

Completed Area Name:	Bldg 99 GW
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/25/2009
Comments:	On 6/25/09, DTSC completed the Remedial Action Certification for the Building 99 Groundwater Remedial Action Plan (RAP) Site (also known as the VOCs in Groundwater near Building 99 RAP Site). In 2005, the Port of Oakland installed five wells and monitored the groundwater for four quarters. Soil data from the new well locations do not show VOC concentrations above normal reporting limits. Groundwater data from the monitoring events confirm that the VOC concentrations are below the remediation goals. The cumulative excess cancer risk less than 1.0E-05 and non-cancer hazard index less than 1 for potential industrial/commercial human receptors.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	04/20/2010
Comments:	On March 22, 2010 DTSC, City of Oakland, and Port of Oakland inspected the Oakland Gateway Development Area. DTSC found site activities consistent with the land use covenant.

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	08/11/2008
Comments:	The Port of Oakland and City of Oakland are requesting five years extension for the following RAP Sites:
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	08/12/2008
Comments:	DTSC issued a letter identifying that the trigger date for a statutory five-year review was the mobilization date of Building 1 remedy implementation (i.e., November 28, 2005). Therefore, DTSC should review and approve the first statutory five-year review report on or before November 28, 2010. The letter specifies that the first Draft Five-Year Review Report is due in May 2010.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction Monitoring Report
Completed Date:	01/28/2009
Comments:	The City of Oakland and the Port of Oakland provided their Annual Certification letters for the Gateway Development Area (GDA) and the Port Development Area (PDA), respectively on 1/13/09 and 1/22/09. These letters certify compliance with the environmental restrictions of the Oakland Gateway Development Area (OGDA) as required by the Covenant to Restrict Use of Property, Environmental Restriction Section 4.01(e). DTSC has reviewed and concurred with the Annual Certification letters.
Completed Area Name:	Bldg 807
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	10/19/2009
Comments:	DTSC approved the Remedial Design and Implementation Plan for VOCs in Groundwater at Eastern End of Building 807 RAP Site on 10/19/09. The overall remedial action sequence is as follows: 1.
Completed Area Name:	Bldg 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	05/26/2006
Comments:	DTSC approved the Plan Modification Request Number 1 for Section 2.8 of the Soil Treatment Process Plan for the Building 1 Area. DTSC concurs that the City of Oakland may use pH indicator test strips in the field for the pre-treatment samples from Organic Residue.
Completed Area Name:	Bldg 99 GW
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	03/30/2005
Comments:	DTSC approved the Pre-Design Investigation Memorandum on 3/30/05 for the Building 99 Groundwater Remedial Action Plan Site.
Completed Area Name:	Bldg 99 Soil
Completed Sub Area Name:	Not reported

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Completed Document Type: * Remedial Action Completion or Implementation
Completed Date: 07/16/2007
Comments: On 7/16/07, DTSC approved the Completion Report for the Building 99 Soil Remedial Action Plan (RAP) Site, and four adjacent Risk Management Plan (RMP) Locations listed below: Potential Lead-Based Paint Impacted Soils outside of Building 99 (NAD83 Northing and Easting Coordinates: 2125825, 6039940), Hydraulic Lift Cylinders inside Building 99 (NAD83 Northing and Easting Coordinates: 2125712, 6039884), Former Oily-Water Separator (OWS-4) outside the Southeastern Corner of Building 99 (NAD83 Northing and Easting Coordinates: 2125570, 6039966), and Decommissioned Washrack (Facility 98) outside the Southeastern Corner of Building 99 (NAD83 Northing and Easting Coordinates: 2125642, 6039973). The Port of Oakland completed further investigation to show that the residual soils contain chemical of concerns meeting the remediation goals at the Building 99 Soil RAP Site and four adjacent RMP Locations.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Newsletter
Completed Date: 04/15/2005
Comments: The Community Update presents the cleanup status of the portion of the former Oakland Army Base, now known as the Former Oakland Army Base Economic Development Conveyance Area. The update also transmits a survey to solicit community inputs regarding the cleanup project.

Completed Area Name: Bldg 1
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/14/2006
Comments: DTSC concluded that there was no need for a formal draft final document.

Completed Area Name: Bldg 1
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 08/01/2008
Comments: DTSC confirmed that the City has responded and revised the Health and Safety Plan appropriately. DTSC s 7/29/08 letter serves as agency concurrence on the subject document.

Completed Area Name: Bldg 99 GW
Completed Sub Area Name: Not reported
Completed Document Type: * Remedial Action Completion or Implementation
Completed Date: 07/16/2007
Comments: On 7/16/07, DTSC approved the Completion Report, VOCs in Groundwater near Building 99 RAP Site. In 2005, the Port of Oakland installed five wells and monitored the groundwater for four quarters. Soil data from the new well locations do not show VOC concentrations above normal reporting limits. Groundwater data from the monitoring events confirm that the VOC concentrations are below the remediation goals. The cumulative excess cancer risk less than 1.0E-05 and non-cancer hazard index less than 1 for potential industrial/commercial human receptors.

Completed Area Name: Bldg 807
Completed Sub Area Name: Not reported

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Completed Document Type:	Design/Implementation Workplan
Completed Date:	10/24/2005
Comments:	On 10/24/05, DTSC approved the Pre-Design Investigation Memorandum (PDIM) dated September 19, 2005 for volatile organic compounds in groundwater in the vicinity of Buildings 807, 808, and 823 at the Former Oakland Army Base Economic Development Conveyance Area. The PDIM proposes additional investigates to aid the Remedial Design and Implementation Plan preparation.

Completed Area Name:	Bldg 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	02/14/2006
Comments:	DTSC approved the Remedial Design and Implementation Plan which proposes detailed cleanup actions at the Former Oil Reclaiming Plant/Building 1 Area. The City of Oakland will remediate soils and sludge contaminated with organic chemicals, neutralize corrosive soils, stabilize lead in soils, and dispose all wastes at permitted land disposal facilities.

Completed Area Name:	USTs 11/12/13 & 11A/12A/13A
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/24/2010
Comments:	On June 24, DTSC approved the June 2010 Completion Report for USTs 11/12/13 and 11A/12A/13A RAP Site and concluded that the Port of Oakland (a) had investigated the site adequately, (b) had implemented the required remedial action, (c) had monitored the groundwater for four quarters, and (d) had demonstrated achievement of the remedial action objectives at the USTs 11/12/13 and 11A/12A/13A RAP Site in accordance with the RAP, RMP, and RDIP.

Completed Area Name:	Bldg 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	05/12/2009
Comments:	On May 12, 2009, DTSC concluded that the City of Oakland has implemented the remedy pursuant to the Remedial Action Plan (RAP) and Remedial Design Implementation Plan (RDIP) at the Building 1 RAP Site and has demonstrated achievement of the remedial action objectives. Approximately 11,642 tons of treated Building 1 remediation waste was disposed of as non-RCRA hazardous waste at the Kettleman Hills Landfill. Approximately 578 tons of overburden soil, that was deemed unsuitable for on-site reuse, was disposed of as non-hazardous daily cover at the Altamont Facility. Approximately 10,000 gallons of wastewater, which included decontamination water and water from utility demolition was discharged to the City of Oakland sewer system in accordance with the East Bay Municipal Utility District Wastewater Discharge Permit and City of Oakland Building Inspection Sewer Permit. No excavation dewatering was conducted. Approximately 1 ton of sediment removed from the decontamination tank during cleaning was sampled and analyzed, and subsequently disposed of as non-hazardous daily cover at the Altamont Facility.

Completed Area Name:	USTs 11/12/13 & 11A/12A/13A
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Completed Date: 08/23/2007
Comments: DTSC approved the Remedial Design and Implementation Plan for USTs 11/12/13 and 11A/12A/13A RAP Site (RDIP) dated August 2007. The RDIP describes the remedial activities at the USTs 11/12/13 AND 11A/12A/13A RAP Site. The Remedy includes re-excavating the backfill of the former USTs 11/12/13 excavation to one to two feet below the groundwater table (approximately 30 x 37 x 8 depth), pumping out groundwater that accumulates in the excavation, collecting confirmation soil samples on the sidewalls and floor, introducing oxygen release compound to the bottom of the excavation, backfilling excavation, and conducting quarterly groundwater monitoring at the site for at least one year.

Completed Area Name: Bldg 1
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 11/21/2003
Comments: DTSC approved the Pre-Design Investigation Memorandum on 11/21/03 for the Building 1 Area. The memorandum describes a focused, pre-design investigation to obtain additional visual descriptions of encountered soil and waste layers, soil physical parameter data, and limited chemical data that will be useful for finalizing design decisions and to provide information to bidding remediation contractors.

Completed Area Name: RMP Location - Building 99 Debris Area
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 02/14/2006
Comments: DTSC approved the Report on Phase I Investigation and Work Plan for Phase II Investigation of Debris Area near Building 99 on February 14, 2006. The Phase I Report summarizes findings on two test pits. The Phase II Work Plan proposes investigation to define the lateral and vertical extent of contamination at the Debris Area.

Completed Area Name: Bldg 1
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/22/2006
Comments: DTSC approved the Plan Modification Request Number 4 for a modification to the Soil Treatment Process Plan to include the use of the Caterpillar 330 excavator (as described in the plan Section 2.2), Front Loader (as described in the plan Section 2.2), and/or a Caterpillar D5 Dozer to mix the reagent with the Building 1 waste.

Completed Area Name: Bldg 808 and 823
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/08/2009
Comments: DTSC concludes that the City of Oakland (a) has implemented the selected remedy pursuant to the Remedial Action Plan and Pre-Design Investigation Memorandum and (b) has demonstrated achievement of the remedial action objectives for the Buildings 808 and 823 RAP Site. DTSC hereby approves the Completion Report. DTSC will change the status of the Buildings 808 and 823 RAP Site on its EnviroStor database to Certified with Ongoing Operation and Maintenance.

Completed Area Name: Bldg 99 Soil

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Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	04/27/2005
Comments:	DTSC approved the Pre-Design Investigation Memorandum on 4/27/05 for the Building 99 Soil Remedial Action Plan Site. The memorandum is a sampling plan for additional soil investigation at the Building 99 area to supplement existing data.
Completed Area Name:	Bldg 991
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	06/06/2005
Comments:	DTSC approved the Pre-Design Investigation Memorandum on 6/6/05 for the Building 991 Remedial Action Plan Site.
Completed Area Name:	RMP Locations
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	08/19/2008
Comments:	DTSC reviewed sampling proposals for the Risk Management Plan (RMP) Locations at Packages E-1 and E-2 emailed on 3/16/07. Package E-1 contains RMP Locations 71, 72, 73, 79, 81, and 92. Package E-2 contains RMP Location 90. DTSC provided verbal comments on the sampling strategy during the 7/3/07 Environmental Technical Team Meeting (meeting minutes #37). DTSC forwarded a concurrence to the Port of Oakland stating that the Packages E-1 and E-2 sampling proposals are consistent with the RMP (i.e., Appendix E of the 9/27/02 DTSC-approved Remedial Action Plan). The RMP itself is already a Remedial Design for all RMP Locations.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Well Decommissioning Workplan
Completed Date:	08/12/2008
Comments:	DTSC concurs with the well destruction proposal for the following 40 groundwater monitoring wells: BB-3, EMW1, EMW2, EMW3, ICFMW216, ITMW237, ITMW238, ITMW239, ITMW241, ITMW242, ITMW245, ITMW246, ITMW247, ITMW248, ITMW251, K738BM01, K738DW01, K99BM01 or B99BM01, K99DW01 or B99DW01, K99DW02 or B99DW02, OBMW01, OBMW02, SMW-21, SMW-48, SMW-53, SMW-55, SMW-56, SMW-65, SMW-66, SMW-69, SMW-70, SMW-71, SMW-72, SMW-73, SMW-74, SMW-75, SMW-88, SMW-89, SMW-90, and SMW-92. DTSC requests the City of Oakland to destroy the wells in accordance with the procedures outlined in Appendix B, Section 2.6 of the DTSC-approved Quality Assurance Program Plan dated April 8, 2005.
Completed Area Name:	USTs 11/12/13 & 11A/12A/13A
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedy Constructed: Operating Properly & Successfully
Completed Date:	04/22/2010
Comments:	On 4/22/10, DTSC approved the Technical Report for Implementation of Remedial Action at UST 11/12/13 and 11A/12A/13A RAP Site (Technical Report) dated April 2010. The Port of Oakland commenced remediation in August 2007 and completed field activities in October 2007. The Technical Report documents the cleanup activities pursuant to the DTSC-approved Remedial Design and Implementation Plan dated August 23, 2007.

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Completed Area Name:	Bldg 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Plan
Completed Date:	11/25/2008
Comments:	On 11/25/08, DTSC approves the revised Operations and Maintenance Plan, Former ORP/Building 1 Area Remediation Project, Former Oakland Army Base Economic Development Conveyance Area (O&M Plan). The O&M Plan proposes (a) groundwater monitoring at the Building 1 Remedial Action Plan Site and (b) compliance reporting pursuant to the 8/8/03 Covenant to Restrict Use of Property, Environmental Restriction. The City of Oakland has satisfactorily responded to DTSC s 5/12/08 comments and revised the O&M Plan accordingly.

Completed Area Name:	RMP Location - Building 99 Debris Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Design - Preliminary/Intermediate
Completed Date:	12/12/2007
Comments:	The investigation work plan presents a general approach to performing exploratory investigation activities and collecting soil samples to further define the extent of the debris containing layer and fill data gaps from prior investigations. The plan addresses the Building 99 Debris Area as a Risk Management Plan Location to be remediated in accordance with the DTSC-approved 2002 Final Remedial Action Plan / Risk Management Plan.

Completed Area Name:	RMP Location - Building 99 Debris Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Design - Preliminary/Intermediate
Completed Date:	01/19/2011
Comments:	The Phase II Report concludes that further investigation and remediation are necessary, both within and outside of the EDC Area. The Port of Oakland and City of Oakland own separate portions of off-site areas potentially contaminated with hazardous substances from the Debris Area. DTSC has requested the Port and City to provide a schedule for subsequent investigation and remediation for the Debris Area within the EDC Area and adjacent off-site areas.

Completed Area Name:	RMP Location - Building 99 Debris Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Design - Preliminary/Intermediate
Completed Date:	04/13/2011
Comments:	The Investigation Report confirms the presence of contamination within the EDC Area. This contamination is likely impacting off-site areas west of the Debris Area.

Completed Area Name:	RMP Locations 3, 4, 5, and 6
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	04/29/2009
Comments:	The City of Oakland (a) has adequately investigated Risk Management Plan (RMP) Locations 3, 4, 5, and 6, (b) has demonstrated achievement of the remedial action objectives, and (c) has implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name:	Package E-1
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report

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Completed Date:	06/14/2010
Comments:	On June 14, 2010, DTSC approved the June 2010 Completion Report for the Package E-1 Area. Based on the information presented in the Completion Report, DTSC concluded that the Port of Oakland (a) had adequately investigated the site, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required remedies for the Package E-1 Area in accordance with the Remedial Action Plan and Risk Management Plan.
Completed Area Name:	Package E-2
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/29/2010
Comments:	On June 29, 2010, DTSC approved the Completion Report and concluded that the Port (a) had adequately investigated the site, (b) had demonstrated achievement of remedial action objectives, and (c) had implemented the required remedies for the Package E-2 Area in accordance with the RAP and RMP.
Completed Area Name:	RMP Location 96
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	02/09/2011
Comments:	On February 9, 2011, DTSC issued the Remedial Action Certification for Risk Management Plan (RMP) Location 96. On February 2, 2011, DTSC approved the Request for Completion and concluded that the City of Oakland (a) had documented the removal of impacted-soil from RMP Location 96, (d) had presented investigation results to demonstrate the achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the project site including RMP Location 96.
Completed Area Name:	RMP Locations 27, 28, and 89
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/07/2011
Comments:	On 6/1/2011, DTSC issued a Remedial Action Certification for RMP Locations 27, 28, and 89 attesting that the Port of Oakland (a) had adequately investigated RMP Locations 27, 28, and 89, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.
Completed Area Name:	RMP Locations 7, 22, and 29
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	03/17/2011
Comments:	On March 17, 2011, DTSC issued the Remedial Action Certification for Risk Management Plan (RMP) Locations 7, 22, and 29. On March 15, 2011, DTSC approved the Request for Completion and concluded that the City of Oakland (a) had adequately investigated RMP Locations 7, 22, and 29, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.
Completed Area Name:	RMP Locations 48-51, 83, 115, 116, 119, and 1
Completed Sub Area Name:	Not reported

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Completed Document Type: Certification
Completed Date: 06/01/2011
Comments: On 6/1/2011, DTSC issued a Remedial Action Certification for RMP Locations 48, 49, 50, 51, 83, 115, 116, 119, and 120 attesting that the Port of Oakland (a) had adequately investigated RMP Locations 48, 49, 50, 51, 83, 115, 116, 119, and 120, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name: RMP Locations 23, 24, 25, 87, 88, 113, 114, a
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 07/19/2010
Comments: On July 19, 2010, DTSC determined that all appropriate removal/remedial actions had been completed and that all acceptable engineering practices were implemented; however, the site requires ongoing operation and maintenance and monitoring efforts. On August 8, 2003, the City of Oakland and DTSC executed and recorded the Covenant to Restrict Use of Property, Environmental Restriction for the Oakland Gateway Development Area, which includes RMP Locations 23, 24, 25, 87, 88, 113, 114, and 123. The City of Oakland implemented the institutional control remedy by recording the Covenant with the Alameda County Assessor s Office. The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, the first five-year statutory review is due for RMP Locations 23, 24, 25, 87, 88, 113, 114, and 123 by November 2010.

Completed Area Name: Bldg 808 and 823
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/18/2009
Comments: On October 24, 2005, DTSC approved the Pre-Design Investigation Memorandum (PDIM) for additional four quarters of groundwater monitoring to better define the plume boundary and to aid preparation of the remedial design document. Vinyl chloride is the only COC for the Buildings 808 and 823 RAP Site. The maximum detected concentration of vinyl chloride in groundwater from four recent quarterly monitoring events was 26 g/L, which is below the remediation goal of 32 g/L. All other VOCs were below the respective remediation goals. On March 20, 2009, DTSC issued the Risk Management Plan Modification letter specifying new language for RMP, Section 6.2 regarding vapor intrusion mitigation measures. This RMP Modification requires additional evaluation and consultation with DTSC if new buildings were to be constructed at the Buildings 808 and 823 RAP Site and vicinity areas. The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, five-year statutory reviews are required for the Buildings 808 and 823 RAP Site. The trigger date for a statutory five-year review was the mobilization date of first remedy implementation for the Oakland Gateway Development Area project (i.e., Building 1 RAP Site on November 28, 2005). Therefore, DTSC should review and approve the first statutory five-year review report on or before November 28, 2010. As a result, DTSC shall receive the

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first Draft Five-Year Review Report in May 2010.

Completed Area Name: Bldg 1
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/18/2009
Comments: On February 14, 2006, DTSC approved the Remedial Design and Implementation Plan (RDIP) for the Building 1 RAP Site. The RDIP detailed cleanup procedures for contaminated soil and treatment for the Building 1 remediation waste. The City of Oakland commenced site preparatory activities on November 28, 2005, excavated soils and treated hazardous wastes on-site in 2006, and completed site restoration in early 2007. The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, five-year statutory reviews are required for this site. The trigger date for a statutory five-year review was the mobilization date of the Building 1 remedy implementation, November 28, 2005. Therefore, DTSC should review and approve the first statutory five-year review report on or before November 28, 2010. As a result, DTSC shall receive the first Draft Five-Year Review Report in May 2010.

Completed Area Name: RMP Locations 8, 10, 19/107, and 97
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/28/2011
Comments: On 6/28/2011, DTSC issued a Remedial Action Certification for RMP Locations 8, 10, 19, 97, and 107 attesting that the City of Oakland (a) had adequately investigated RMP Locations 8, 10, 19, 97, and 107, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name: Package D-1/C-1
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/14/2011
Comments: On 6/14/2011, DTSC issued a Remedial Action Certification for the Package D-1/C-1 Area attesting that the Port of Oakland (a) had adequately investigated and remediated the Package D-1/C-1 Area, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject areas.

Completed Area Name: RMP Locations 3, 4, 5, and 6
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/29/2010
Comments: On April 29, 2009, DTSC determined that all appropriate removal/remedial actions had been completed and that all acceptable engineering practices were implemented; however, the site requires ongoing operation and maintenance and monitoring efforts. On August 8, 2003, the City of Oakland and DTSC executed and recorded the Covenant to Restrict Use of Property, Environmental Restriction for the Oakland Gateway Development Area, which includes RMP Locations 3, 4, 5, and 6. The City of Oakland implemented the institutional

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control remedy by recording the Covenant with the Alameda County Assessor s Office. The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, the first five-year statutory review is due for RMP Locations 3, 4, 5, and 6 by November 2010.

Completed Area Name:	RMP Locations 20, 99, and 100
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/29/2010
Comments:	On March 4, 2008, DTSC determined that all appropriate removal/remedial actions had been completed and that all acceptable engineering practices were implemented; however, the site requires ongoing operation and maintenance and monitoring efforts. On August 8, 2003, the City of Oakland and DTSC executed and recorded the Covenant to Restrict Use of Property, Environmental Restriction for the Oakland Gateway Development Area, which includes RMP Locations 20, 99, and 100. The City of Oakland implemented the institutional control remedy by recording the Covenant with the Alameda County Assessor s Office. The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, the first five-year statutory review is due for RMP Locations 20, 99, and 100 by November 2010.

Completed Area Name:	Package E-2
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/29/2010
Comments:	On June 29, 2010, DTSC issued the Remedial Action Certification for the Package E-2 Area. On June 29, 2010, DTSC approved the Completion Report and concluded that the Port (a) had adequately investigated the site, (b) had demonstrated achievement of remedial action objectives, and (c) had implemented the required remedies for the Package E-2 Area in accordance with the RAP and RMP.

Completed Area Name:	Bldg 99 Soil
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/25/2009
Comments:	On 6/25/09, DTSC completed the Remedial Action Certification for the Building 99 Soil Remedial Action Plan (RAP) Site, and four adjacent Risk Management Plan (RMP) Locations listed below: Potential Lead-Based Paint Impacted Soils outside of Building 99 (NAD83 Northing and Easting Coordinates: 2125825, 6039940), Hydraulic Lift Cylinders inside Building 99 (NAD83 Northing and Easting Coordinates: 2125712, 6039884), Former Oily-Water Separator (OWS-4) outside the Southeastern Corner of Building 99 (NAD83 Northing and Easting Coordinates: 2125570, 6039966), and Decommissioned Washrack (Facility 98) outside the Southeastern Corner of Building 99 (NAD83 Northing and Easting Coordinates: 2125642, 6039973). The Port of Oakland completed further investigation to show that the residual soils contain chemical of concerns meeting the remediation goals at the Building 99 Soil RAP Site and four adjacent RMP Locations.

Completed Area Name:	Bldg 807

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Completed Sub Area Name: Not reported
Completed Document Type: Remedy Constructed: Operating Properly & Successfully
Completed Date: 10/14/2010
Comments: On 10/14/10, DTSC approved the Remedial Action Implementation Report for the Building 807 RAP Site. DTSC concurred that the Port of Oakland had successfully constructed the remedy which included injecting Hydrogen Releasing Compound at 76 locations at the Building 807 RAP Site. The Port of Oakland will begin groundwater monitoring program as scheduled.

Completed Area Name: RMP Locations 7, 22, and 29
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 03/15/2011
Comments: DTSC approved the Request for Completion and concluded that the City of Oakland (a) had adequately investigated RMP Locations 7, 22, and 29, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name: Bldg 991
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 01/26/2011
Comments: DTSC approved the Tech Memo proposing the soil remediation goals for dieldrin, endrin, and lindane to be 0.13, 0.021, and 0.10 mg/kg, respectively, for the Building 991 RAP Site only.

Completed Area Name: Package D-1/C-1
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/14/2011
Comments: DTSC approved the Completion Report and concluded that the Port of Oakland (a) had adequately investigated and remediated the Package D-1/C-1 Area, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject areas.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence - Received
Completed Date: 10/27/2010
Comments: On 10/27/10, DTSC approved the waiver request allowing the City of Oakland s sub-lessee, Anka Behavioral, to use the interior of Building 821 as an emergency winter shelter for homeless individuals from November 1, 2010 through April 30, 2011.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence - Received
Completed Date: 04/21/2009
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence - Received
Completed Date: 10/10/2008

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Comments:	On 10/10/2008, DTSC approved the City of Oakland s request allowing Anka Behavioral to use the interior of Building 821 as an emergency winter shelter for homeless individuals from November 1, 2008 through April 30, 2009.
Completed Area Name:	Sites With No Operable Unit
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence - Received
Completed Date:	10/31/2006
Comments:	On 10/31/06, DTSC approved the Interim Land Use Waiver request allowing Operation Dignity to use the interior of Building 821 as an emergency winter shelter for homeless individuals from November 2006 through April 2007, and from November 2007 through April 2008.
Completed Area Name:	Sites With No Operable Unit
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence - Received
Completed Date:	03/27/2007
Comments:	On 3/27/07, DTSC approved an Interim Land Use Waiver request allowing CEDA to use the Building 821 Lot as a winter encampment area as specified in CEDA s February 8, 2007 request letter. This Interim Land Use Waiver allows CEDA to operate the Building 821 Lot from April through August 2007. The wavier does not apply to any date not specified. This Interim Land Use Waiver expires on August 31, 2007.
Completed Area Name:	Sites With No Operable Unit
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence - Received
Completed Date:	07/11/2007
Comments:	On 7/11/07, DTSC approved an extension request allowing CEDA to use the Building 821 Lot from September 1, 2007 through April 30, 2008.
Completed Area Name:	RMP Location 96
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	02/02/2011
Comments:	On February 2, 2011, DTSC approved the Request for Completion and concluded that the City of Oakland (a) had documented the removal of impacted-soil from RMP Location 96, (d) had presented investigation results to demonstrate the achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the project site including RMP Location 96.
Completed Area Name:	Bldg 807
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	11/15/2010
Comments:	DTSC acknowledged the receipt of the September 2010 Quarterly Groundwater Monitoring Data Report. Formal regulatory review on the data report is not necessary at this time. A completion report with data interpretation is forth coming at an appropriate time.
Completed Area Name:	Package B
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/29/2010
Comments:	On 6/29/10, DTSC approved the Completion Report for the Package B

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Area and concluded that the Port of Oakland (a) had adequately investigated the site, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required remedies for the Package B Area in accordance with the RAP and RMP.

Completed Area Name: RMP Locations 11, 75, 86, 93, 105, 106, 108,
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 10/20/2009
Comments: Based on the information presented in the Completion Request, DTSC concludes that environmental data do not suggest evidence of contamination. DTSC hereby concurs that the City of Oakland (a) has adequately investigated RMP Locations 11, 75, 86, 93, 105, 106, 108, and 109, (b) has demonstrated achievement of the remedial action objectives, and (c) has implemented the required institutional control remedy for the subject RMP Locations. DTSC requested the City of Oakland to collect a grab groundwater sample at RMP Location 107 (UST-19) to fill a data gap. The City of Oakland has agreed to collect additional groundwater data at RMP Location 107 and defer the completion request for this location.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 04/20/2010
Comments: On March 22, 2010 DTSC, City of Oakland, and Port of Oakland inspected the Oakland Gateway Development Area. DTSC found site activities consistent with the land use covenant.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 03/01/2011
Comments: DTSC reviewed the Annual Certification letters for the Oakland Gateway Development Area covering the Gateway Development Area (GDA) and Port Development Area (PDA), dated 2/4/11 and 1/6/11, respectively. DTSC has no comment.

Completed Area Name: Bldg 1
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 10/22/2009
Comments: The City of Oakland conducted quarterly monitoring events in August 2008, November 2008, February 2009, and May 2009 at five monitoring wells B1MW001 through B1MW005. The results of four quarters of groundwater monitoring at the Building 1 Area indicate that the groundwater monitoring objectives have been met. No volatile COCs are present in groundwater at concentrations above remediation goals, and no significant increases in concentrations of metals or other non-volatile COCs are occurring. Based on the information presented in the July 24, 2009 Report, DTSC concurs with the City of Oakland s request to terminate groundwater monitoring at the Building 1 Area.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 11/16/2009

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Comments: DTSC has received the Port of Oakland s September 23, 2009 letter proposing Risk Management Plan (RMP) implementation protocols for storm drains and sanitary sewers (SD/SS). The September 27, 2002 DTSC-approved RMP includes SD/SS within the RMP Implementation Area. However, the RMP does not address implementation for "SD/SS without suspected or known contamination." DTSC issued a letter on 11/16/09 clarifying Section 2.2.2.7 of the RMP and specifying implementation protocols for "SD/SS without suspected or known contamination."

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Workplan
Completed Date: 05/11/2010
Comments: On 5/11/10, DTSC completed initial review of a draft section from the draft Five-Year Review Report regarding remediation goals (RGs) for lead and total petroleum hydrocarbons (TPHs) at the Oakland Gateway Development Area (aka: Former OARB - EDC Area). DTSC agrees with the lead RG but disagrees with the TPH RGs.

Completed Area Name: RMP Locations 20, 99, and 100
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 03/04/2008
Comments: Based on the information presented in the 4/10/07 letter report, DTSC concluded that environmental data do not suggest potential of contamination. On 3/4/08, DTSC concurred that the City of Oakland (a) has adequately investigated RMP Locations 20, 99, and 100, (b) has demonstrated achievement of the remedial action objectives, and (c) has implemented the required remedies for the subject RMP Locations. In addition, DTSC agreed with decommission of well ITMW241 associated with RMP Location 20.

Completed Area Name: RMP Locations 23, 24, 25, 87, 88, 113, 114, a
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 07/19/2010
Comments: On July 19, 2010, DTSC approved the City of Oakland s Completion Request and concluded that the City of Oakland (a) had investigated RMP Locations 23, 24, 25, 87, 88, 113, 114, and 123 adequately, (b) had removed 842 cubic yards of impacted-soil from RMP Locations 23, 113, and 123, (c) had demonstrated achievement of the remedial action objectives, and (d) had implemented the required institutional control remedy for the subject RMP Locations. DTSC also approved the identification of RMP Location 159 to be addressed during future site redevelopment.

Completed Area Name: RMP Locations 8, 10, 19/107, and 97
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 07/15/2010
Comments: DTSC reviewed the Site Health and Safety Plan and concurred that the City of Oakland may proceed with field investigation at RMP Locations 8, 10, 19, 97, and 107 as schedule pursuant to the DTSC-approved Risk Management Plan.

Completed Area Name: RMP Locations 27, 28, and 89
Completed Sub Area Name: Not reported

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Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 02/02/2011
Comments: DTSC concurred with the sampling proposal for RMP Locations 27, 28, and 89.

Completed Area Name: RMP Locations 48-51, 83, 115, 116, 119, and 1
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/01/2011
Comments: DTSC approved the Completion Report and concluded that the Port of Oakland (a) had adequately investigated RMP Locations 48, 49, 50, 51, 83, 115, 116, 119, and 120, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name: RMP Locations 8, 10, 19/107, and 97
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/28/2011
Comments: DTSC approved the Completion Request and concluded that the City of Oakland (a) had adequately investigated RMP Locations 8, 10, 19, 97, and 107, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name: Outfalls 8 through 11
Completed Sub Area Name: Not reported
Completed Document Type: Ecological Risk Assessment Report
Completed Date: 01/26/2011
Comments: Instead of re-reviewing the 2002/2003 documents, DTSC believes that a supplemental marine sediment investigation and new risk evaluation are necessary. Depending on the results, DTSC may require a feasibility study and Remedial Action Plan Amendment to select the final remedy for Outfalls 8 through 11.

Completed Area Name: Bldg 807
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/26/2011
Comments: DTSC acknowledged the receipt of the December 2010 Quarterly Groundwater Monitoring Data Report. Formal regulatory review on the data report is not necessary at this time. A completion report with data interpretation is forth coming at an appropriate time.

Completed Area Name: RMP Locations 15, 91, and 98
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Implementation Workplan
Completed Date: 05/09/2011
Comments: The City will incorporate DTSC’s recommendations as provided in DTSC 4/19/11 comment memorandum.

Completed Area Name: RMP Locations 27, 28, and 89
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/07/2011
Comments: DTSC approved the Completion Report and concluded that the Port of Oakland (a) had adequately investigated RMP Locations 27, 28, and 89,

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

(b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name:	RMP Locations 43, 125, 128, and 160
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Design - Preliminary/Intermediate
Completed Date:	07/26/2011
Comments:	DTSC approved the Port’s proposal to investigate RMP Locations 43, 125, 128, and 160 as specified.

Completed Area Name:	RMP Locations 1 and 2
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Design - Preliminary/Intermediate
Completed Date:	08/02/2011
Comments:	DTSC has reviewed EKI’s 7/20/11 sampling approach at location K02S107 and agrees with the proposal.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	12/10/2008
Comments:	DTSC’s Environmental Chemistry Lab recommends 50 to 100 gm of samples to be extracted (by rinsing with appropriate solvents), followed by methods 6010, 8270, 1664, 8081, 8141, 8028 etc.) for COC mentioned.

Future Area Name:	Basewide
Future Sub Area Name:	Not reported
Future Document Type:	5 Year Review Reports
Future Due Date:	2015
Future Area Name:	Bldg 991
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Completion Report
Future Due Date:	2012
Future Area Name:	Bldg 807
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Completion Report
Future Due Date:	2013
Future Area Name:	RMP Locations
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Completion Report
Future Due Date:	2014
Future Area Name:	RMP Locations 43, 125, 128, and 160
Future Sub Area Name:	Not reported
Future Document Type:	Certification
Future Due Date:	2012
Future Area Name:	RMP Locations
Future Sub Area Name:	Not reported
Future Document Type:	Certification
Future Due Date:	2014
Future Area Name:	Bldg 807
Future Sub Area Name:	Not reported
Future Document Type:	Certification
Future Due Date:	2013
Future Area Name:	Bldg 991
Future Sub Area Name:	Not reported
Future Document Type:	Certification

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Future Due Date: 2012
Future Area Name: Basewide
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2015
Future Area Name: Basewide
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2020
Schedule Area Name: Package A
Schedule Sub Area Name: Not reported
Schedule Document Type: Certification
Schedule Due Date: 11/30/2011
Schedule Revised Date: Not reported
Schedule Area Name: RMP Locations in the Central Motor Pool Area
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Action Completion Report
Schedule Due Date: 2/28/2012
Schedule Revised Date: Not reported
Schedule Area Name: Package A
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Action Completion Report
Schedule Due Date: 10/30/2011
Schedule Revised Date: Not reported
Schedule Area Name: Categorical RMP Location 147 Geotechnical Borings
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Action Completion Report
Schedule Due Date: 6/30/2012
Schedule Revised Date: Not reported
Schedule Area Name: RMP Locations 43, 125, 128, and 160
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Action Completion Report
Schedule Due Date: 4/30/2012
Schedule Revised Date: Not reported
Schedule Area Name: Bldg 991
Schedule Sub Area Name: Not reported
Schedule Document Type: Design/Implementation Workplan
Schedule Due Date: 11/30/2011
Schedule Revised Date: Not reported
Schedule Area Name: RMP Locations in the Central Motor Pool Area
Schedule Sub Area Name: Not reported
Schedule Document Type: Certification
Schedule Due Date: 3/30/2012
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: 5 Year Review Reports
Schedule Due Date: 11/30/2011
Schedule Revised Date: Not reported

N46 **SSE** **1/8-1/4** **0.224 mi.** **1185 ft.**	**HOSHISAKI S** **1725 7TH ST** **OAKLAND, CA** **Site 1 of 2 in cluster N**	**EDR Historical Cleaners**	**1009142886** **N/A**

Relative:
Equal

Actual:
14 ft.

EDR Historical Cleaners:
Name: HOSHISAKI G S
Year: 1925
Type: CLEANERS DYERS AND PRESSERS

Name: HOSHISAKI S
Year: 1933
Type: CLOTHES PRESSERS AND CLEANERS

N47 **SSE** **1/8-1/4** **0.227 mi.** **1196 ft.**	**KONDO SEKI** **1726 7TH ST** **OAKLAND, CA** **Site 2 of 2 in cluster N**	**EDR Historical Cleaners**	**1009140938** **N/A**

Relative:
Equal

Actual:
14 ft.

EDR Historical Cleaners:
Name: KANO I
Year: 1928
Type: LAUNDRIES-ORIENTAL

Name: KONDO SEKI
Year: 1933
Type: LAUNDRIES-HAND

O48 **South** **1/8-1/4** **0.234 mi.** **1237 ft.**	**CAL-EAST FOODS** **505 CEDAR STREET** **OAKLAND, CA 94607** **Site 1 of 2 in cluster O**	**HIST CORTESE** **LUST** **Alameda County CS** **SWEEPS UST** **VCP** **ENVIROSTOR**	**S100931451** **N/A**

Relative:
Lower

Actual:
13 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: CALSI
Reg Id: 01510024

Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0214

LUST:
Region: STATE
Global Id: T0600100200
Latitude: 37.872849
Longitude: -122.304109
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 06/30/2006
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Case Worker: MP

CAL-EAST FOODS (Continued) **S100931451**

Local Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number: 01-0214
LOC Case Number: Not reported
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0600100200
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

Global Id: T0600100200
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Discovery

Global Id: T0600100200
Action Type: REMEDIATION
Date: 1950-01-01 00:00:00
Action: Excavate and Dispose

Global Id: T0600100200
Action Type: RESPONSE
Date: 2009-08-10 00:00:00
Action: Electronic Reporting Submittal Due

Global Id: T0600100200
Action Type: ENFORCEMENT
Date: 2009-07-24 00:00:00
Action: Notice of Violation - #20090724

Global Id: T0600100200
Action Type: ENFORCEMENT
Date: 2009-07-28 00:00:00
Action: Staff Letter - #20090728

Global Id: T0600100200
Action Type: ENFORCEMENT
Date: 2008-07-03 00:00:00
Action: Staff Letter - #20080703

LUST REG 2:
Region: 2
Facility Id: 01-0214
Facility Status: Leak being confirmed
Case Number: 3971
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: Tank
Date Leak Confirmed: 10/6/1995
Oversight Program: LUST

CAL-EAST FOODS (Continued) **S100931451**

Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

Alameda County CS:

Status:	Pollution Characterization
Record Id:	RO0000306
PE:	5602

Status:	Case Transferred
Record Id:	RO0000306
PE:	5602

Status:	Leak being confirmed
Record Id:	RO0000306
PE:	5602

Status:	Post remedial action monitoring
Record Id:	RO0000306
PE:	5602

Status:	Preliminary site assessment underway
Record Id:	RO0000306
PE:	5602

SWEEPS UST:

Status:	Not reported
Comp Number:	4923
Number:	Not reported
Board Of Equalization:	Not reported
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-004923-000001
Actv Date:	Not reported
Capacity:	2500
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	1

VCP:

Facility ID:	01510024
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	.75
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, ALAMEDA COUNTY
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program

CAL-EAST FOODS (Continued) **S100931451**

Project Manager:	JACINTO SOTO
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Site Code:	200457
Assembly:	16
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified
Status Date:	06/30/2006
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.8072222222222 / -122.304166666667
APN:	6-55-2
Past Use:	TRANSPORTATION - WAREHOUSING
Potential COC:	30025
Confirmed COC:	30025
Potential Description:	SOIL
Alias Name:	CYPRESS FREEWAY/CAL-EAST FOODS
Alias Type:	Alternate Name
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	6-55-2
Alias Type:	APN
Alias Name:	110033617307
Alias Type:	EPA (FRS #)
Alias Name:	200457
Alias Type:	Project Code (Site Code)
Alias Name:	01510024
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	06/30/2006
Comments:	Copy of the Tank Removal Report was submitted on 6/4/2006.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	07/03/1995
Comments:	Approval Fact Sheet for the FS/RAP I-80 Cypress Replacement Project to inform the community about the availibity of the FS/RAP for I-80 Cypress Replacement Project.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	07/03/1995
Comments:	Public Notice to inform the community about the availibity of the FS/RAP for I-80 Cypress Replacement Project.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Plan
Completed Date:	08/14/1995
Comments:	The FS/RAP acknowledges that the UST has been removed and the monitoring wells have been installed. The RAW requires that CalTrans

CAL-EAST FOODS (Continued) **S100931451**

conduct groundwater monitoring at the site. CalTrans has submitted the groundwater data to the Oakland Fire Department and is awaiting a decision regarding future actions, if any, at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 08/15/2002
Comments: Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed with CalTrans. This project is part of the Cypress Reconstruction Project. By entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/30/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 01/07/1999
Comments: Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: .75
NPL: NO
Regulatory Agencies: SMBRP, ALAMEDA COUNTY
Lead Agency: SMBRP

CAL-EAST FOODS (Continued) **S100931451**

Program Manager:	JACINTO SOTO
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Facility ID:	01510024
Site Code:	200457
Assembly:	16
Senate:	09
Special Program:	Voluntary Cleanup Program
Status:	Certified
Status Date:	06/30/2006
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.8072222222222
Longitude:	-122.304166666667
APN:	6-55-2
Past Use:	TRANSPORTATION - WAREHOUSING
Potential COC:	30025
Confirmed COC:	30025
Potential Description:	SOIL
Alias Name:	CYPRESS FREEWAY/CAL-EAST FOODS
Alias Type:	Alternate Name
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	6-55-2
Alias Type:	APN
Alias Name:	110033617307
Alias Type:	EPA (FRS #)
Alias Name:	200457
Alias Type:	Project Code (Site Code)
Alias Name:	01510024
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	06/30/2006
Comments:	Copy of the Tank Removal Report was submitted on 6/4/2006.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	07/03/1995
Comments:	Approval Fact Sheet for the FS/RAP I-80 Cypress Replacement Project to inform the community about the availibity of the FS/RAP for I-80 Cypress Replacement Project.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	07/03/1995
Comments:	Public Notice to inform the community about the availibity of the FS/RAP for I-80 Cypress Replacement Project.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Plan

CAL-EAST FOODS (Continued) **S100931451**

Completed Date:	08/14/1995
Comments:	The FS/RAP acknowledges that the UST has been removed and the monitoring wells have been installed. The RAW requires that CalTrans conduct groundwater monitoring at the site. CalTrans has submitted the groundwater data to the Oakland Fire Department and is awaiting a decision regarding future actions, if any, at the site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation / Feasibility Study
Completed Date:	07/03/1995
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	08/15/2002
Comments:	Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	VCA signed with CalTrans. This project is part of the Cypress Reconstruction Project. By entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/30/2006
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	01/07/1999
Comments:	Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

O49 **SSE** **1/8-1/4** **0.238 mi.** **1257 ft.**	**PHOENIX 524 PROPERTY** **524 CEDAR STREET** **OAKLAND, CA 94607** **Site 2 of 2 in cluster O**	**HIST CORTESE** **VCP** **ENVIROSTOR**	**S102008192** **N/A**

Relative:
Lower

Actual:
13 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	CALSI
Reg Id:	01330038

VCP:

Facility ID:	01330038
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	2.32
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	JACINTO SOTO
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	200348
Assembly:	16
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Inactive - Needs Evaluation
Status Date:	09/03/2010
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.8102581304632 / -122.304271057059
APN:	6-51-1
Past Use:	RETAIL - SERVICE STATION
Potential COC:	30001, 30013, 30108, 30407
Confirmed COC:	30108,30407,30001,30013
Potential Description:	OTH, SOIL
Alias Name:	CALTRANS 880/CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	INDEPENDENT IRON WORKS
Alias Type:	Alternate Name
Alias Name:	PHOENIX PROPERTIES
Alias Type:	Alternate Name
Alias Name:	6-51-1
Alias Type:	APN
Alias Name:	110033611492
Alias Type:	EPA (FRS #)
Alias Name:	200348
Alias Type:	Project Code (Site Code)
Alias Name:	01330038
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	01/07/1999

PHOENIX 524 PROPERTY (Continued) **S102008192**

Comments: Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 05/02/1997
Comments: Approved report documenting excavation and disposed off-site about 6,370 tons of soil. Monitoring wells must be installed to determine if the underlying groundwater has been impacted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 04/01/1996
Comments: Approved Design.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: Approved RAP requiring hotspot soil removal , groundwater monitoring and deed restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: Completed RIFS. Soil investigation detected elevated levels of cadmium, nickel, arsenic, thallium, and petroleum hydrocarbons. Site investigation activities, performed prior to the 5/10/1994 VCA, were reported in the Site Investigation Report Area 4 dated August 1992. The RI/FS was approved on July 3, 1995 when the Remedial Action Plan Was approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/02/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 08/15/2002
Comments: Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required

PHOENIX 524 PROPERTY (Continued) **S102008192**

on a site by site evaluation.

Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Removal Action Workplan
Future Due Date:	2013
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Operations and Maintenance Plan
Future Due Date:	2014
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Completion Report
Future Due Date:	2014
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Investigation Report
Future Due Date:	2013
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Certification
Future Due Date:	2014
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Land Use Restriction
Future Due Date:	2014
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	2.32
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	JACINTO SOTO
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	01330038
Site Code:	200348
Assembly:	16
Senate:	09
Special Program:	Voluntary Cleanup Program
Status:	Inactive - Needs Evaluation
Status Date:	09/03/2010
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.8102581304632
Longitude:	-122.304271057059
APN:	6-51-1
Past Use:	RETAIL - SERVICE STATION
Potential COC:	30001, 30013, 30108, 30407

PHOENIX 524 PROPERTY (Continued) **S102008192**

Confirmed COC: 30108,30407,30001,30013
Potential Description: OTH, SOIL
Alias Name: CALTRANS 880/CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: INDEPENDENT IRON WORKS
Alias Type: Alternate Name
Alias Name: PHOENIX PROPERTIES
Alias Type: Alternate Name
Alias Name: 6-51-1
Alias Type: APN
Alias Name: 110033611492
Alias Type: EPA (FRS #)
Alias Name: 200348
Alias Type: Project Code (Site Code)
Alias Name: 01330038
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/07/1999
Comments: Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 05/02/1997
Comments: Approved report documenting excavation and disposed off-site about 6,370 tons of soil. Monitoring wells must be installed to determine if the underlying groundwater has been impacted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 04/01/1996
Comments: Approved Design.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: Approved RAP requiring hotspot soil removal , groundwater monitoring and deed restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: Completed RIFS. Soil investigation detected elevated levels of cadmium, nickel, arsenic, thallium, and petroleum hydrocarbons. Site investigation activities, performed prior to the 5/10/1994 VCA, were reported in the Site Investigation Report Area 4 dated August 1992. The RI/FS was approved on July 3, 1995 when the Remedial Action Plan Was approved.

Completed Area Name: PROJECT WIDE

PHOENIX 524 PROPERTY (Continued) **S102008192**

Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	05/02/1994
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	08/15/2002
Comments:	Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Removal Action Workplan
Future Due Date:	2013
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Operations and Maintenance Plan
Future Due Date:	2014
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Completion Report
Future Due Date:	2014
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Investigation Report
Future Due Date:	2013
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Certification
Future Due Date:	2014
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Land Use Restriction
Future Due Date:	2014
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

P50
SW
1/8-1/4
0.245 mi.
1294 ft.

ALL WEATHER DOOR
1851 5TH ST
OAKLAND, CA 94607

Site 1 of 5 in cluster P

LUST **S110071396**
N/A

Relative:
Lower

Actual:
12 ft.

LUST:
Region: STATE
Global Id: T0600101584
Latitude: 37.80715
Longitude: -122.304878
Case Type: LUST Cleanup Site
Status: Open - Site Assessment
Status Date: 07/29/2010
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Case Worker: MP
Local Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number: 01-1713
LOC Case Number: RO0000192
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0600101584
Action Type: ENFORCEMENT
Date: 2008-05-29 00:00:00
Action: Staff Letter - #20080529

Global Id: T0600101584
Action Type: RESPONSE
Date: 2009-08-10 00:00:00
Action: Electronic Reporting Submittal Due

Global Id: T0600101584
Action Type: ENFORCEMENT
Date: 2009-07-24 00:00:00
Action: Notice of Violation - #20090724

Global Id: T0600101584
Action Type: ENFORCEMENT
Date: 2009-07-24 00:00:00
Action: Staff Letter - #20090724

Global Id: T0600101584
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Discovery

Global Id: T0600101584
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

Global Id: T0600101584
Action Type: RESPONSE
Date: 2008-07-28 00:00:00

ALL WEATHER DOOR (Continued) **S110071396**

Action: Soil and Water Investigation Workplan

Global Id: T0600101584
Action Type: ENFORCEMENT
Date: 2008-07-03 00:00:00
Action: Staff Letter - #20080703

P51 **SW** **1/8-1/4** **0.245 mi.** **1294 ft.**	**VACANT BUILDING ON 5TH STREET** **1851 5TH STREET** **OAKLAND, CA 94607** **Site 2 of 5 in cluster P**	**HIST CORTESE** **LUST** **Alameda County CS** **VCP** **ENVIROSTOR**	**S102423862** **N/A**

Relative:
Lower

Actual:
12 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1713

LUST REG 2:
Region: 2
Facility Id: 01-1713
Facility Status: Preliminary site assessment underway
Case Number: 3795
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: Tank
Date Leak Confirmed: 3/25/1992
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 1/2/1965
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Case Transferred
Record Id: RO0000192
PE: 5602

Status: Leak being confirmed
Record Id: RO0000192
PE: 5602

Status: Preliminary site assessment underway
Record Id: RO0000192
PE: 5602

VCP:
Facility ID: 01990013
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1.11

VACANT BUILDING ON 5TH STREET (Continued) **S102423862**

National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	JACINTO SOTO
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	200469
Assembly:	16
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Inactive - Needs Evaluation
Status Date:	09/03/2010
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.8068151615033 / -122.306491293177
APN:	006-0055-004-00
Past Use:	RETAIL - SERVICE STATION
Potential COC:	30025, 3002502
Confirmed COC:	30025,3002502
Potential Description:	SOIL
Alias Name:	ALL WEATHER ARCHITECTURAL ALUMINUM, INC
Alias Type:	Alternate Name
Alias Name:	CYPREES FREEWAY/VACANT BUILDING
Alias Type:	Alternate Name
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	VACANT BUILDING
Alias Type:	Alternate Name
Alias Name:	006-0055-004-00
Alias Type:	APN
Alias Name:	110033613230
Alias Type:	EPA (FRS #)
Alias Name:	T0600101584
Alias Type:	GeoTracker Global ID
Alias Name:	200469
Alias Type:	Project Code (Site Code)
Alias Name:	01990013
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation / Feasibility Study
Completed Date:	07/03/1995
Comments:	Two underground storage tanks (1,800-gallon fuel oil and 10,000-gallon gasoline) were removed in 1988. Gasoline and petroleum related compounds were detected in either the soil or groundwater. Sampling done in 1992 still detected petroleum related contamination.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Plan
Completed Date:	08/14/1995
Comments:	Recommended that a concrete trench and surrounding soil containing petroleum hydrocarbons be excavated and removed from the site.

Completed Area Name:	PROJECT WIDE

VACANT BUILDING ON 5TH STREET (Continued) **S102423862**

Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 08/14/1995
Comments: The PEA recommended that a concrete trench and surrounding soil containing petroleum hydrocarbons be excavated and removed from the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 08/15/2002
Comments: Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/07/1999
Comments: Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedial Investigation Report
Future Due Date: 2012
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2013
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2013
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 1.11
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP

VACANT BUILDING ON 5TH STREET (Continued) **S102423862**

Program Manager: JACINTO SOTO
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 01990013
Site Code: 200469
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program
Status: Inactive - Needs Evaluation
Status Date: 09/03/2010
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8068151615033
Longitude: -122.306491293177
APN: 006-0055-004-00
Past Use: RETAIL - SERVICE STATION
Potential COC: 30025, 3002502
Confirmed COC: 30025,3002502
Potential Description: SOIL
Alias Name: ALL WEATHER ARCHITECTURAL ALUMINUM, INC
Alias Type: Alternate Name
Alias Name: CYPREES FREEWAY/VACANT BUILDING
Alias Type: Alternate Name
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: VACANT BUILDING
Alias Type: Alternate Name
Alias Name: 006-0055-004-00
Alias Type: APN
Alias Name: 110033613230
Alias Type: EPA (FRS #)
Alias Name: T0600101584
Alias Type: GeoTracker Global ID
Alias Name: 200469
Alias Type: Project Code (Site Code)
Alias Name: 01990013
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: Two underground storage tanks (1,800-gallon fuel oil and 10,000-gallon gasoline) were removed in 1988. Gasoline and petroleum related compounds were detected in either the soil or groundwater. Sampling done in 1992 still detected petroleum related contamination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: Recommended that a concrete trench and surrounding soil containing petroleum hydrocarbons be excavated and removed from the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

VACANT BUILDING ON 5TH STREET (Continued) **S102423862**

Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 08/14/1995
Comments: The PEA recommended that a concrete trench and surrounding soil containing petroleum hydrocarbons be excavated and removed from the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 08/15/2002
Comments: Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/07/1999
Comments: Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedial Investigation Report
Future Due Date: 2012
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2013
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2013
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Map ID / Direction / Distance / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
P52	**WEST OAKLAND YARD**	**RCRA-SQG**	**1000409161**
SW	**515 BAY STREET**	**HAZNET**	**CAD000628198**
1/8-1/4	**OAKLAND, CA 94607**	**FINANCIAL ASSURANCE**	
0.245 mi.			
1294 ft.	**Site 3 of 5 in cluster P**		

Relative:
Lower

Actual:
12 ft.

RCRA-SQG:
Date form received by agency: 07/15/2005
Facility name: WEST OAKLAND YARD
Facility address: 1851 5TH STREET
UNIT B
OAKLAND, CA 94607
EPA ID: CAD000628198
Contact: JAMES E DIEL
Contact address: 1851 5TH STREET UNIT B
OAKLAND, CA 94607
Contact country: US
Contact telephone: 916-789-5184
Contact email: JEDIEL@UP.COM
EPA Region: 09
Land type: Private
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: UNION PACIFIC RAILROAD
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 08/01/1996
Owner/Op end date: Not reported

Owner/operator name: UNION PACIFIC RAILROAD
Owner/operator address: 1400 DOUGLAS STREET ROOM 1030
OMAHA, NE 68179
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 08/01/1996
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No

WEST OAKLAND YARD (Continued) **1000409161**

Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	09/01/1996
Facility name:	WEST OAKLAND YARD
Site name:	SOUTHERN PACIFIC TRANSPORTATION CO
Classification:	Large Quantity Generator

Date form received by agency:	03/15/1994
Facility name:	WEST OAKLAND YARD
Site name:	SOUTHERN PACIFIC TRANS CO, OAKLAND FAC
Classification:	Large Quantity Generator

Date form received by agency:	08/25/1992
Facility name:	WEST OAKLAND YARD
Site name:	SOUTHERN PACIFIC OAKLAND
Classification:	Large Quantity Generator

Date form received by agency:	06/28/1990
Facility name:	WEST OAKLAND YARD
Site name:	SOUTHERN PACIFIC TRANSPORTATION C
Classification:	Large Quantity Generator

Date form received by agency:	08/18/1980
Facility name:	WEST OAKLAND YARD
Site name:	SOUTHERN PACIFIC TRANSPORTATION CO
Classification:	Large Quantity Generator

Hazardous Waste Summary:

Waste code:	D001
Waste name:	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Facility Has Received Notices of Violations:

Regulation violated:	Not reported
Area of violation:	Generators - General
Date violation determined:	04/12/1985
Date achieved compliance:	04/27/1985
Violation lead agency:	EPA
Enforcement action:	Not reported
Enforcement action date:	Not reported
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	Not reported
Proposed penalty amount:	0

WEST OAKLAND YARD (Continued) **1000409161**

Final penalty amount:	0
Paid penalty amount:	0

Evaluation Action Summary:

Evaluation date:	09/10/1992
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State Contractor/Grantee
Evaluation date:	06/19/1992
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State Contractor/Grantee
Evaluation date:	04/12/1985
Evaluation:	NON-FINANCIAL RECORD REVIEW
Area of violation:	Generators - General
Date achieved compliance:	04/27/1985
Evaluation lead agency:	EPA

HAZNET:

Year:	2008
Gepaid:	CAD000628198
Contact:	JAMES THOMAS
Telephone:	916789558
Mailing Name:	Not reported
Mailing Address:	9451 ATKINSON ST
Mailing City,St,Zip:	ROSEVILLE, CA 957479711
Gen County:	Alameda
TSD EPA ID:	NVD982510711
TSD County:	Not reported
Waste Category:	Waste oil and mixed oil
Disposal Method:	FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE
Tons:	52.136
Facility County:	Alameda
Year:	2008
Gepaid:	CAD000628198
Contact:	JAMES THOMAS
Telephone:	916789558
Mailing Name:	Not reported
Mailing Address:	9451 ATKINSON ST
Mailing City,St,Zip:	ROSEVILLE, CA 957479711
Gen County:	Alameda
TSD EPA ID:	NVD982510711
TSD County:	Not reported
Waste Category:	Waste oil and mixed oil
Disposal Method:	Not reported
Tons:	20.14
Facility County:	Alameda
Year:	2007
Gepaid:	CAD000628198
Contact:	JAMES E DIEL
Telephone:	9167895184

WEST OAKLAND YARD (Continued) **1000409161**

Mailing Name:	Not reported
Mailing Address:	1851 5TH STREET UNIT B
Mailing City,St,Zip:	OAKLAND, CA 946070000
Gen County:	Alameda
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Waste oil and mixed oil
Disposal Method:	OTHER RECOVERY OF RECLAMATION FOR REUSE INCLUDING ACID REGENERATION, ORGANICS RECOVERY ECT
Tons:	23.56
Facility County:	Alameda

Year:	2006
Gepaid:	CAD000628198
Contact:	JAMES E DIEL
Telephone:	9167895184
Mailing Name:	Not reported
Mailing Address:	1851 5TH STREET UNIT B
Mailing City,St,Zip:	OAKLAND, CA 946070000
Gen County:	Alameda
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Waste oil and mixed oil
Disposal Method:	H03
Tons:	20.85
Facility County:	1

Year:	2005
Gepaid:	CAD000628198
Contact:	JAMES E DIEL
Telephone:	9167895184
Mailing Name:	Not reported
Mailing Address:	1851 5TH STREET UNIT B
Mailing City,St,Zip:	OAKLAND, CA 946070000
Gen County:	Alameda
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Waste oil and mixed oil
Disposal Method:	Not reported
Tons:	47.95
Facility County:	Not reported

Click this hyperlink while viewing on your computer to access
1 additional CA_HAZNET: record(s) in the EDR Site Report.

FINANCIAL ASSURANCE:

EPA ID Number:	CAD000628198
Closure Mechanism:	FT
Closure Amount:	54,767
Post Clousure Mechanism:	Not reported
Post Clousure Amount:	Not reported
Corrective Action Mechanism:	Not reported
Corrective Action Amount:	Not reported
Sudden Mecahanism Type:	Not reported
Sudden Mecahanism Amount:	Not reported
Non Sudden Mecahanism Type:	Not reported
Non Sudden Mecahanism Amount:	Not reported

P53
SW
1/8-1/4
0.245 mi.
1294 ft.

WEST OAKLAND YARD
1851 FIFTH ST.
OAKLAND, CA

Site 4 of 5 in cluster P

AST
A100346217
N/A

Relative:
Lower

Actual:
12 ft.

AST:
Owner: UNION PACIFIC RAILROAD
Total Gallons: 51,050
Certified Unified Program Agencies: Oakland

P54
SW
1/8-1/4
0.245 mi.
1294 ft.

ALL-WEATHER ARCH. ALUM. INC.
1851 5TH ST
OAKLAND, CA 94608

Site 5 of 5 in cluster P

HIST UST
CHMIRS
U001599252
N/A

Relative:
Lower

Actual:
12 ft.

HIST UST:
Region: STATE
Facility ID: 00000068557
Facility Type: Other
Other Type: MFG. PLANT
Total Tanks: 0002
Contact Name: HOWARD SODERBERG
Telephone: 4158325042
Owner Name: PORTER TRUST (LANCE PORTER)
Owner Address: 909 ALDRIDGE ROAD
Owner City,St,Zip: VACAVILLE, CA 95688

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: WASTE
Type of Fuel: 1
Tank Construction: Unkown inches
Leak Detection: Visual, Stock Inventor, Pressure Test

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Visual, Stock Inventor, Pressure Test

CHMIRS:
OES Incident Number: 99-4779
OES notification: 11/10/199910:25:00 AM
OES Date: Not reported
OES Time: Not reported
Incident Date: Not reported
Date Completed: Not reported
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported

ALL-WEATHER ARCH. ALUM. INC. (Continued) **U001599252**

Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
Special Studies 1: Not reported
Special Studies 2: Not reported
Special Studies 3: Not reported
Special Studies 4: Not reported
Special Studies 5: Not reported
Special Studies 6: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA/DOT/PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Comments: Not reported
Facility Telephone: Not reported
Waterway Involved: No
Waterway: Not reported
Spill Site: Not reported
Cleanup By: Contractor
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 1999
Agency: UPRR
Incident Date: 11/10/199912:00:00 AM
Admin Agency: City of Oakland Fire Department
Amount: Not reported
Contained: Yes
Site Type: Rail Road
E Date: Not reported
Substance: Diesel Fuel
Quantity Released: Not reported
BBLS: 0
Cups: 0
CUFT: 0
Gallons: 800
Grams: 0
Pounds: 0
Liters: 0
Ounces: 0
Pints: 0
Quarts: 0
Sheen: 0

ALL-WEATHER ARCH. ALUM. INC. (Continued) **U001599252**

Tons:	0
Unknown:	0
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
Description:	Fuel storage pump blew fitting, allowing substance to flow out.
OES Incident Number:	98-2494
OES notification:	5/29/199809:10:08 AM
OES Date:	Not reported
OES Time:	Not reported
Incident Date:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
Special Studies 1:	Not reported
Special Studies 2:	Not reported
Special Studies 3:	Not reported
Special Studies 4:	Not reported
Special Studies 5:	Not reported
Special Studies 6:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA/DOT/PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Comments:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1998
Agency:	UPRR
Incident Date:	5/29/199812:00:00 AM

ALL-WEATHER ARCH. ALUM. INC. (Continued) **U001599252**

Admin Agency: City of Oakland Fire Department
Amount: Not reported
Contained: Yes
Site Type: Treatment/Sewage Facility
E Date: Not reported
Substance: Diesel fuel/oil
Quantity Released: Not reported
BBLS: 0
Cups: 0
CUFT: 0
Gallons: 400
Grams: 0
Pounds: 0
Liters: 0
Ounces: 0
Pints: 0
Quarts: 0
Sheen: 0
Tons: 0
Unknown: 0
Evacuations: 0
Number of Injuries: 0
Number of Fatalities: 0
Description: Waste water treatment plant, separator pump came loose from its' mount allowing substance to escape

---

Q55
SSW
1/8-1/4
0.247 mi.
1304 ft.

W.O. RIP TRACK
515 BAY ST
OAKLAND, CA 94607

HIST UST **U001599234**
N/A

Site 1 of 4 in cluster Q

Relative:
Lower

Actual:
12 ft.

HIST UST:
Region: STATE
Facility ID: 00000024512
Facility Type: Other
Other Type: RAILYARD
Total Tanks: 0001
Contact Name: BAGLEY
Telephone: 4158917628
Owner Name: SOUTHERN PACIFIC TRANSPORTATIO
Owner Address: ONE MARKET PLAZA
Owner City,St,Zip: SAN FRANCISCO, CA 94105

Tank Num: 001
Container Num: 1
Year Installed: 1976
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: 1/4" inches
Leak Detection: Pressure Test

Q56
SSW
1/8-1/4
0.247 mi.
1304 ft.

SOUTHERN PACIFIC DESERT RAIL
515 BAY ST
OAKLAND, CA 94609

Site 2 of 4 in cluster Q

LUST
S109283952
N/A

Relative:
Lower

Actual:
12 ft.

LUST:
Region: STATE
Global Id: T0600101306
Latitude: 37.807644
Longitude: -122.305773
Case Type: LUST Cleanup Site
Status: Open - Site Assessment
Status Date: 07/29/2010
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Case Worker: Not reported
Local Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number: 01-1414
LOC Case Number: RO0003030
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0600101306
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Discovery

Global Id: T0600101306
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Stopped

Global Id: T0600101306
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

Q57
SSW
1/8-1/4
0.247 mi.
1304 ft.

SOUTHERN PACIFIC DESERT Y
515 BAY
OAKLAND, CA

Site 3 of 4 in cluster Q

WDS
HIST CORTESE
CA FID UST
SWEEPS UST
CHMIRS

S101624391
N/A

Relative:
Lower

Actual:
12 ft.

CA WDS:
Facility ID: San Francisco Bay 01I004572
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7

SOUTHERN PACIFIC DESERT Y (Continued) **S101624391**

	are assigned by the Regional Board
Subregion:	2
Facility Telephone:	5038836518
Facility Contact:	WILLIAMS E L
Agency Name:	UNION PACIFIC RAILROAD CO
Agency Address:	1600 Vernon St
Agency City,St,Zip:	Roseville 956783951
Agency Contact:	CHRISTMAS CHRISTINE
Agency Telephone:	6196696712
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1414

CA FID UST:

Facility ID:	01001526
Regulated By:	UTNKI
Regulated ID:	00024512
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4158917628
Mail To:	Not reported
Mailing Address:	15 BAY ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	OAKLAND 94607
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported

SOUTHERN PACIFIC DESERT Y (Continued) **S101624391**

Status:	Inactive

Facility ID:	01001526
Regulated By:	UTNKI
Regulated ID:	00024518
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4158917628
Mail To:	Not reported
Mailing Address:	515 BAY ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	OAKLAND 94607
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

SWEEPS UST:

Status:	Not reported
Comp Number:	24512
Number:	Not reported
Board Of Equalization:	44-000292
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-024512-000001
Actv Date:	Not reported
Capacity:	2000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	LEADED
Number Of Tanks:	1

CHMIRS:

OES Incident Number:	011485
OES notification:	Not reported
OES Date:	12/26/1995
OES Time:	12:35:46 AM
Incident Date:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
Special Studies 1:	Not reported
Special Studies 2:	Not reported
Special Studies 3:	Not reported

SOUTHERN PACIFIC DESERT Y (Continued) **S101624391**

Special Studies 4: Not reported
Special Studies 5: Not reported
Special Studies 6: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA/DOT/PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Comments: Not reported
Facility Telephone: Not reported
Waterway Involved: YES
Waterway: Not reported
Spill Site: Not reported
Cleanup By: Not reported
Containment: Not reported
What Happened: Not reported
Type: PETROLEUM
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 1995
Agency: southern pacific
Incident Date: 0010/12-26-95
Admin Agency: Not reported
Amount: 50-100 gallons
Contained: Not reported
Site Type: R/R
E Date: Not reported
Substance: diesel
Quantity Released: Not reported
BBLS: Not reported
Cups: Not reported
CUFT: Not reported
Gallons: Not reported
Grams: Not reported
Pounds: Not reported
Liters: Not reported
Ounces: Not reported
Pints: Not reported
Quarts: Not reported
Sheen: Not reported
Tons: Not reported
Unknown: Not reported
Evacuations: NO
Number of Injuries: NO
Number of Fatalities: NO
Description: while private contractor was refueling a locomotivethere was runoff

SOUTHERN PACIFIC DESERT Y (Continued) **S101624391**

of substance. unknown if fuel entered drain.

OES Incident Number: 97-3781
OES notification: 9/25/199701:03:08 PM
OES Date: Not reported
OES Time: Not reported
Incident Date: Not reported
Date Completed: Not reported
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
Special Studies 1: Not reported
Special Studies 2: Not reported
Special Studies 3: Not reported
Special Studies 4: Not reported
Special Studies 5: Not reported
Special Studies 6: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA/DOT/PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Comments: Not reported
Facility Telephone: Not reported
Waterway Involved: No
Waterway: Not reported
Spill Site: Not reported
Cleanup By: Reporting Party
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 1997
Agency: UP Railroad
Incident Date: 9/25/199712:00:00 AM
Admin Agency: City of Oakland Fire Department
Amount: Not reported
Contained: Yes
Site Type: Rail Road
E Date: Not reported

SOUTHERN PACIFIC DESERT Y (Continued) **S101624391**

Substance:	Sodium Bisulfite
Quantity Released:	Not reported
BBLS:	0
Cups:	0
CUFT:	0
Gallons:	1
Grams:	0
Pounds:	0
Liters:	0
Ounces:	0
Pints:	0
Quarts:	0
Sheen:	0
Tons:	0
Unknown:	0
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
Description:	Ruptured safety vent disk allowed substance to be released. Disk has been repaired

---

Q58 **S.P. CO. DESERT YARD** **NPDES** **U001599216**
SSW **515 BAY ST** **Alameda County CS** **N/A**
1/8-1/4 **OAKLAND, CA 94607** **HIST UST**
0.247 mi. **SWEEPS UST**
1304 ft. **Site 4 of 4 in cluster Q**

Relative:
Lower

Actual:
12 ft.

NPDES:

Npdes Number:	CAS00001
Facility Status:	Active
Agency Id:	N/A
Region:	2
Regulatory Measure Id:	Not Available
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not Available
WDID:	2 01I004572
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	N/A
Effective Date Of Regulatory Measure:	4/8/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Union Pacific Railroad
Discharge Address:	9451 Atkinson St Ste100
Discharge City:	Roseville
Discharge State:	Ca
Discharge Zip:	96747

Alameda County CS:

Status:	Leak being confirmed
Record Id:	RO0003030
PE:	5602
Status:	Case Transferred
Record Id:	RO0003030
PE:	5602

S.P. CO. DESERT YARD (Continued) **U001599216**

HIST UST:
Region: STATE
Facility ID: 00000024518
Facility Type: Other
Other Type: RAILYARD
Total Tanks: 0001
Contact Name: BAGLEY
Telephone: 4158917628
Owner Name: SOUTHERN PACIFIC TRANSPORTATIO
Owner Address: 1 MARKET STREET 1 MARKET PLAZA
Owner City,St,Zip: SAN FRANCISCO, CA 94105

Tank Num: 001
Container Num: 1
Year Installed: 1980
Tank Capacity: 00002500
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: 1/4" inches
Leak Detection: Pressure Test

SWEEPS UST:
Status: Not reported
Comp Number: 24518
Number: Not reported
Board Of Equalization: 44-000295
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-024518-000001
Actv Date: Not reported
Capacity: 2500
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: LEADED
Number Of Tanks: 1

59	**SPT CO LOCO FUEL PLANT WD**	**HIST CORTESE**	**S103472392**
SSW	**UNKNOWN PINE ST FOOT OF**	**LUST**	**N/A**
1/4-1/2	**OAKLAND, CA 94607**		
0.267 mi.			
1410 ft.			

Relative:
Lower

Actual:
12 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-2426

LUST REG 2:
Region: 2
Facility Id: 01-2426
Facility Status: Preliminary site assessment underway
Case Number: 5354

SPT CO LOCO FUEL PLANT WD (Continued) **S103472392**

How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 1/28/1998
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 1/2/1965
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

60
South
1/4-1/2
0.291 mi.
1536 ft.

SO. PRESCOTT NEIGHBORHOOD PARK
3RD STREET
OAKLAND, CA 94607

VCP
ENVIROSTOR

S102564431
N/A

Relative:
Lower

Actual:
12 ft.

VCP:
Facility ID: 01990019
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 4.3
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP, US EPA, CITY OF OAKLAND
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: LYNN NAKASHIMA
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Site Code: 200485
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified
Status Date: 05/25/2001
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.803 / -122.2982
APN: 0000039300100, 0000039300201, 0000039300202, 0000039300301, 0000039300302, 0000039300401, 0000039300402
Past Use: JUNKYARD
Potential COC: 30013
Confirmed COC: 30013
Potential Description: SOIL
Alias Name: CYPRESS FREEWAY/SO. PRESCOTT PARK
Alias Type: Alternate Name
Alias Name: SMITH’S WRECKING YARD, BOBO’S JUNKYARD
Alias Type: Alternate Name
Alias Name: SOUTHERN PACIFIC
Alias Type: Alternate Name
Alias Name: 0000039300100
Alias Type: APN
Alias Name: 0000039300201
Alias Type: APN
Alias Name: 0000039300202
Alias Type: APN

SO. PRESCOTT NEIGHBORHOOD PARK (Continued) **S102564431**

Alias Name: 0000039300301
Alias Type: APN
Alias Name: 0000039300302
Alias Type: APN
Alias Name: 0000039300401
Alias Type: APN
Alias Name: 0000039300402
Alias Type: APN
Alias Name: 110033615817
Alias Type: EPA (FRS #)
Alias Name: 200485
Alias Type: Project Code (Site Code)
Alias Name: 01990019
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 01/03/1994
Comments: .

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 05/24/2001
Comments: Approximately 17,000 cubic yards of soil were excavated and disposed off-site. In addition, two unknown underground tanks were found and removed. The property was remediated to residential standards.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 08/02/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 03/20/1998
Comments: Approved RAP which consisted of excavation and backfill of all areas exceeding cleanup goals. The RAP further required a minimum of 3 feet of clean fill over the entire site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 06/19/1995
Comments: Report describes the soil and groundwater results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Responsible Agency Review
Completed Date: 03/20/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

SO. PRESCOTT NEIGHBORHOOD PARK (Continued) **S102564431**

Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	05/25/2001
Comments:	Certified Site.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	01/07/1999
Comments:	Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	4.3
NPL:	NO
Regulatory Agencies:	SMBRP, US EPA, CITY OF OAKLAND
Lead Agency:	SMBRP
Program Manager:	LYNN NAKASHIMA
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Facility ID:	01990019
Site Code:	200485
Assembly:	16
Senate:	09
Special Program:	Voluntary Cleanup Program
Status:	Certified
Status Date:	05/25/2001
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.803
Longitude:	-122.2982
APN:	0000039300100, 0000039300201, 0000039300202, 0000039300301, 0000039300302, 0000039300401, 0000039300402
Past Use:	JUNKYARD

SO. PRESCOTT NEIGHBORHOOD PARK (Continued) **S102564431**

Potential COC:	30013
Confirmed COC:	30013
Potential Description:	SOIL
Alias Name:	CYPRESS FREEWAY/SO. PRESCOTT PARK
Alias Type:	Alternate Name
Alias Name:	SMITH’S WRECKING YARD, BOBO’S JUNKYARD
Alias Type:	Alternate Name
Alias Name:	SOUTHERN PACIFIC
Alias Type:	Alternate Name
Alias Name:	0000039300100
Alias Type:	APN
Alias Name:	0000039300201
Alias Type:	APN
Alias Name:	0000039300202
Alias Type:	APN
Alias Name:	0000039300301
Alias Type:	APN
Alias Name:	0000039300302
Alias Type:	APN
Alias Name:	0000039300401
Alias Type:	APN
Alias Name:	0000039300402
Alias Type:	APN
Alias Name:	110033615817
Alias Type:	EPA (FRS #)
Alias Name:	200485
Alias Type:	Project Code (Site Code)
Alias Name:	01990019
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	01/03/1994
Comments:	.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	05/24/2001
Comments:	Approximately 17,000 cubic yards of soil were excavated and disposed off-site. In addition, two unknown underground tanks were found and removed. The property was remediated to residential standards.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	08/02/1999
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Plan
Completed Date:	03/20/1998
Comments:	Approved RAP which consisted of excavation and backfill of all areas exceeding cleanup goals. The RAP further required a minimum of 3 feet of clean fill over the entire site.

SO. PRESCOTT NEIGHBORHOOD PARK (Continued) **S102564431**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 06/19/1995
Comments: Report describes the soil and groundwater results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Responsible Agency Review
Completed Date: 03/20/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 05/25/2001
Comments: Certified Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/07/1999
Comments: Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

R61 **USPS - MAIN POST OFFICE ELEVATOR** **SLIC** **S110041806**
SE **1675 7TH ST** **N/A**
1/4-1/2 **OAKLAND, CA 94607**
0.292 mi.
1540 ft. **Site 1 of 2 in cluster R**

Relative:
Equal

Actual:
14 ft.

SLIC:
Region: STATE
Facility Status: **Open - Site Assessment**
Status Date: 10/23/2009
Global Id: T10000001615
Lead Agency: ALAMEDA COUNTY LOP

USPS - MAIN POST OFFICE ELEVATOR (Continued) **S110041806**

Lead Agency Case Number:	RO0003012
Latitude:	37.8061899056257
Longitude:	-122.301435470581
Case Type:	Cleanup Program Site
Case Worker:	BJJ
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	Not reported
File Location:	Local Agency Warehouse
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

R62
SE
1/4-1/2
0.292 mi.
1540 ft.

Relative:
Equal

Actual:
14 ft.

UNITED STATES POSTAL SERVICE, OAKLAND P&DC
1675 7TH ST
OAKLAND, CA 94615

Site 2 of 2 in cluster R

NPDES
WDS
HIST CORTESE
LUST
Alameda County CS
VCP
HAZNET
ENVIROSTOR

S100947861
N/A

NPDES:

Npdes Number:	CAS00001
Facility Status:	Active
Agency Id:	N/A
Region:	2
Regulatory Measure Id:	Not Available
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not Available
WDID:	2 01I006115
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	N/A
Effective Date Of Regulatory Measure:	4/21/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	US Postal Service
Discharge Address:	2070 N Broadway Rd
Discharge City:	Walnut Creek
Discharge State:	Ca
Discharge Zip:	94596

CA WDS:

Facility ID:	San Francisco Bay 01I006115
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	2

UNITED STATES POSTAL SERVICE, OAKLAND P&DC (Continued) **S100947861**

Facility Telephone: 5108748462
Facility Contact: VMF MANAGER
Agency Name: US POSTAL SER
Agency Address: 1675 7th St
Agency City,St,Zip: Oakland 946150002
Agency Contact: VMF MANAGER
Agency Telephone: 8002758777
Agency Type: ?
SIC Code: 0
SIC Code 2: Not reported
Primary Waste: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0487

LUST:
Region: STATE
Global Id: T0600100443
Latitude: 37.8051387832371
Longitude: -122.301650047302
Case Type: LUST Cleanup Site
Status: Open - Site Assessment
Status Date: 10/08/1999
Lead Agency: ALAMEDA COUNTY LOP
Case Worker: BJJ
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: 01-0487
LOC Case Number: RO0000016
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: In November 1991, one 5,000-gallon gasoline UST, two 10,000-gallon diesel USTs, one 750-gallon waste-oil UST, dispensers, and associated piping were removed from the site and replaced with two diesel USTs

UNITED STATES POSTAL SERVICE, OAKLAND P&DC (Continued) **S100947861**

and one aboveground WOT. Elevated petroleum hydrocarbons were reported in soil collected from the excavation sidewalls. In June 1992, one 10,000-gallon diesel UST was removed. Groundwater contained 72,000 |g/L TPHd. Monitoring wells were installed in 1994. Free product was observed in MW-4 in the June 2002 monitoring event. Free product bailing and adsorbent socks were deployed. Groundwater monitoring discontinued in 2003.

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0600100443
Contact Type: Local Agency Caseworker
Contact Name: BARBARA JAKUB
Organization Name: ALAMEDA COUNTY LOP
Address: 1131 HARBOR BAY PARKWAY
City: ALAMEDA
Email: Not reported
Phone Number: 5106391287

Global Id: T0600100443
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0600100443
Action Type: ENFORCEMENT
Date: 2009-07-24 00:00:00
Action: Notice of Violation - #20090724

Global Id: T0600100443
Action Type: RESPONSE
Date: 2011-09-22 00:00:00
Action: Soil and Water Investigation Workplan

Global Id: T0600100443
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Discovery

Global Id: T0600100443
Action Type: REMEDIATION
Date: 1950-01-01 00:00:00
Action: Excavate and Dispose

Global Id: T0600100443
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Stopped

Global Id: T0600100443
Action Type: ENFORCEMENT

UNITED STATES POSTAL SERVICE, OAKLAND P&DC (Continued) **S100947861**

Date: 2009-07-24 00:00:00
Action: Staff Letter - #20090724

Global Id: T0600100443
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

Global Id: T0600100443
Action Type: ENFORCEMENT
Date: 2011-07-22 00:00:00
Action: Staff Letter - #20110722

LUST REG 2:
Region: 2
Facility Id: 01-0487
Facility Status: Preliminary site assessment underway
Case Number: 3775
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 3/23/1992
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 1/2/1965
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Pollution Characterization
Record Id: RO0003012
PE: 5502

Status: Leak being confirmed
Record Id: RO0003012
PE: 5502

Status: Pollution Characterization
Record Id: RO0000016
PE: 5602

VCP:
Facility ID: 01430001
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 2.5
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: LYNN NAKASHIMA
Supervisor: Barbara Cook

UNITED STATES POSTAL SERVICE, OAKLAND P&DC (Continued) **S100947861**

Division Branch:	Cleanup Berkeley
Site Code:	200497
Assembly:	16
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified
Status Date:	02/01/1995
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.8051842313168 / -122.300729830637
APN:	NONE SPECIFIED
Past Use:	UNKNOWN
Potential COC:	30013
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	CYPRESS FREEWAY/POST OFFICE PARKING STRU
Alias Type:	Alternate Name
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	110033612375
Alias Type:	EPA (FRS #)
Alias Name:	200497
Alias Type:	Project Code (Site Code)
Alias Name:	01430001
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	02/01/1995
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	09/02/1994
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	02/01/1995
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	VCA signed
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Voluntary Cleanup Agreement Completion
Completed Date:	02/01/1995
Comments:	Not reported
Future Area Name:	Not reported

UNITED STATES POSTAL SERVICE, OAKLAND P&DC (Continued) **S100947861**

Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

HAZNET:

Year:	2010
Gepaid:	CAL000274555
Contact:	RICHARD BLANCAS
Telephone:	5108748282
Mailing Name:	Not reported
Mailing Address:	1675 7TH ST
Mailing City,St,Zip:	OAKLAND, CA 946150002
Gen County:	Not reported
TSD EPA ID:	TXD077603371
TSD County:	Not reported
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE
Tons:	0.075
Facility County:	Alameda

Year:	2010
Gepaid:	CAL000274555
Contact:	RICHARD BLANCAS
Telephone:	5108748282
Mailing Name:	Not reported
Mailing Address:	1675 7TH ST
Mailing City,St,Zip:	OAKLAND, CA 946150002
Gen County:	Not reported
TSD EPA ID:	TXD077603371
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE
Tons:	0.05
Facility County:	Alameda

Year:	2010
Gepaid:	CAL000274555
Contact:	RICHARD BLANCAS
Telephone:	5108748282
Mailing Name:	Not reported
Mailing Address:	1675 7TH ST
Mailing City,St,Zip:	OAKLAND, CA 946150002
Gen County:	Not reported
TSD EPA ID:	TXD077603371
TSD County:	Not reported
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE
Tons:	0.05
Facility County:	Alameda

Year:	2010
Gepaid:	CAL000274555

UNITED STATES POSTAL SERVICE, OAKLAND P&DC (Continued) **S100947861**

Contact: RICHARD BLANCAS
Telephone: 5108748282
Mailing Name: Not reported
Mailing Address: 1675 7TH ST
Mailing City,St,Zip: OAKLAND, CA 946150002
Gen County: Not reported
TSD EPA ID: TXD077603371
TSD County: Not reported
Waste Category: Off-specification, aged or surplus organics
Disposal Method: FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE
Tons: 0.125
Facility County: Alameda

Year: 2010
Gepaid: CAL000274555
Contact: RICHARD BLANCAS
Telephone: 5108748282
Mailing Name: Not reported
Mailing Address: 1675 7TH ST
Mailing City,St,Zip: OAKLAND, CA 946150002
Gen County: Not reported
TSD EPA ID: TXD077603371
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons: 0.025
Facility County: Alameda

Click this hyperlink while viewing on your computer to access
59 additional CA_HAZNET: record(s) in the EDR Site Report.

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 2.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: LYNN NAKASHIMA
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Facility ID: 01430001
Site Code: 200497
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program
Status: Certified
Status Date: 02/01/1995
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8051842313168
Longitude: -122.300729830637
APN: NONE SPECIFIED
Past Use: UNKNOWN
Potential COC: 30013

UNITED STATES POSTAL SERVICE, OAKLAND P&DC (Continued) **S100947861**

Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: CYPRESS FREEWAY/POST OFFICE PARKING STRU
Alias Type: Alternate Name
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: 110033612375
Alias Type: EPA (FRS #)
Alias Name: 200497
Alias Type: Project Code (Site Code)
Alias Name: 01430001
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/01/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 09/02/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 02/01/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Voluntary Cleanup Agreement Completion
Completed Date: 02/01/1995
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

S63
ENE
1/4-1/2
0.345 mi.
1820 ft.

TAYLOR ROOF STRUCTURES
1769 13TH STREET
OAKLAND, CA 92626

Site 1 of 2 in cluster S

Notify 65

S100226628
N/A

Relative:
Lower

Actual:
13 ft.

Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 92626

S64
ENE
1/4-1/2
0.354 mi.
1871 ft.

TAYLOR ROOF STRUCTURES
1746 13TH
OAKLAND, CA 94607

Site 2 of 2 in cluster S

HIST CORTESE
LUST
Alameda County CS

S102438454
N/A

Relative:
Lower

Actual:
13 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1449

LUST:
Region: STATE
Global Id: T0600101338
Latitude: 37.792141
Longitude: -122.2439638
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 12/07/1995
Lead Agency: ALAMEDA COUNTY LOP
Case Worker: EC
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: 01-1449
LOC Case Number: RO0001156
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0600101338
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0600101338
Contact Type: Local Agency Caseworker
Contact Name: EVA CHU
Organization Name: ALAMEDA COUNTY LOP

TAYLOR ROOF STRUCTURES (Continued) **S102438454**

Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	Not reported
Phone Number:	5105676762

LUST:

Global Id:	T0600101338
Action Type:	ENFORCEMENT
Date:	1990-02-13 00:00:00
Action:	* Historical Enforcement - #UNK
Global Id:	T0600101338
Action Type:	REMEDIATION
Date:	1950-01-01 00:00:00
Action:	Excavate and Treat
Global Id:	T0600101338
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Reported

LUST REG 2:

Region:	2
Facility Id:	01-1449
Facility Status:	Case Closed
Case Number:	3742
How Discovered:	Tank Closure
Leak Cause:	Structure Failure
Leak Source:	Tank
Date Leak Confirmed:	3/9/1992
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	4/29/1990
Preliminary Site Assesment Began:	4/9/1991
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

Alameda County CS:

Status:	Case Closed
Record Id:	RO0001156
PE:	5602

T65 **NE** **1/4-1/2** **0.376 mi.** **1984 ft.**	**14TH ST APARTMENTS @ CENTRAL STATION** **1801 14TH ST** **OAKLAND, CA 94607** **Site 1 of 3 in cluster T**	**NPDES** **SLIC**	**S109521309** **N/A**

Relative:
Lower

Actual:
12 ft.

NPDES:

Npdes Number:	CAS000002
Facility Status:	Terminated
Agency Id:	N/A
Region:	2
Regulatory Measure Id:	Not Available

14TH ST APARTMENTS @ CENTRAL STATION (Continued) **S109521309**

Order No: Not reported
Regulatory Measure Type: Enrollee
Place Id: Not Available
WDID: 2 01C347629
Program Type: Construction
Adoption Date Of Regulatory Measure: N/A
Effective Date Of Regulatory Measure: 6/27/2007 3:25:00 PM
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: 11/16/2009
Discharge Name: 14th St Associates
Discharge Address: 345 Spear St Ste 700
Discharge City: San Francisco
Discharge State: Ca
Discharge Zip: 94105

SLIC:
Region: STATE
Facility Status: **Open - Remediation**
Status Date: 05/11/2009
Global Id: SL0600197637
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.813291
Longitude: -122.297837
Case Type: Cleanup Program Site
Case Worker: MEJ
Local Agency: Not reported
RB Case Number: 01S0556
File Location: Regional Board
Potential Media Affected: Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern: * PAHs/PNAs, Lead, Arsenic
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

T66 **CENTRAL STATION LAND, LLC** **SLIC** **S106235290**
NE **1399-1707 WOOD STREET** **N/A**
1/4-1/2 **OAKLAND, CA**
0.384 mi.
2027 ft. **Site 2 of 3 in cluster T**

Relative:
Lower

Actual:
12 ft.

SLIC:
Region: 2
Facility ID: SLT2O195298
Facility Status: Leak being confirmed
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

T67	**SOUTHERN PACIFIC TRANS CO**	**HIST CORTESE**	**1000597178**
NE	**1399 WOOD**	**LUST**	**N/A**
1/4-1/2	**OAKLAND, CA 94607**	**Alameda County CS**	
0.384 mi.			
2027 ft.	**Site 3 of 3 in cluster T**		

Relative:
Lower

Actual:
12 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1408

LUST:
Region: STATE
Global Id: T0600101301
Latitude: 37.813433
Longitude: -122.296859
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 04/13/2009
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker: CCM
Local Agency: Not reported
RB Case Number: 01S0556
LOC Case Number: RO0000476
File Location: Local Agency
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0600101301
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0600101301
Action Type: ENFORCEMENT
Date: 2009-04-13 00:00:00
Action: Closure/No Further Action Letter

Global Id: T0600101301
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Discovery

Global Id: T0600101301
Action Type: REMEDIATION
Date: 1950-01-01 00:00:00
Action: Excavate and Dispose

Global Id: T0600101301

SOUTHERN PACIFIC TRANS CO (Continued) **1000597178**

Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Reported
Global Id:	T0600101301
Action Type:	ENFORCEMENT
Date:	2008-07-03 00:00:00
Action:	Technical Correspondence / Assistance / Other - #20080703

LUST REG 2:

Region:	2
Facility Id:	01-1408
Facility Status:	Pollution Characterization
Case Number:	3824
How Discovered:	Tank Closure
Leak Cause:	Structure Failure
Leak Source:	Tank
Date Leak Confirmed:	3/27/1992
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	3/18/1998
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

Alameda County CS:

Status:	Leak being confirmed
Record Id:	RO0000476
PE:	5602
Status:	Case Transferred
Record Id:	RO0000476
PE:	5602
Status:	Preliminary site assessment workplan submitted
Record Id:	RO0000476
PE:	5602
Status:	Preliminary site assessment underway
Record Id:	RO0000476
PE:	5602
Status:	Post remedial action monitoring
Record Id:	RO0000476
PE:	5602

U68
NE
1/4-1/2
0.387 mi.
2042 ft.

CENTRAL STATION VILLAGE
1401-1599 WOOD STREET
OAKLAND, CA

Site 1 of 3 in cluster U

SLIC

S109117943
N/A

Relative:
Lower

Actual:
12 ft.

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 12/28/2009
Global Id: SL0600180308
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.814622
Longitude: -122.29676
Case Type: Cleanup Program Site
Case Worker: MEJ
Local Agency: Not reported
RB Case Number: 01S0556
File Location: Regional Board
Potential Media Affected: Soil
Potential Contaminants of Concern: Lead, Other Petroleum, * Pesticide/Herbicides, * SEMIVOLATILE ORGANICS
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

U69
NE
1/4-1/2
0.388 mi.
2051 ft.

WEST RECYCLER BIN STORAGE
1405 WOOD STREET
OAKLAND, CA 94607

Site 2 of 3 in cluster U

ENVIROSTOR

S102860820
N/A

Relative:
Lower

Actual:
12 ft.

ENVIROSTOR:
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 1
NPL: NO
Regulatory Agencies: RWQCB 2 - San Francisco Bay, CITY OF OAKLAND
Lead Agency: RWQCB 2 - San Francisco Bay
Program Manager: KATHARINE HILF
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 01890018
Site Code: 201096
Assembly: 16
Senate: 09
Special Program: EPA - PASI
Status: Refer: RWQCB
Status Date: 02/28/2001
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8155330998534
Longitude: -122.296984490078
APN: 0-310-13
Past Use: EQUIPMENT/INSTRUMENT REPAIR, VEHICLE MAINTENANCE
Potential COC: 30001, 30013, 30108, 30402
Confirmed COC: 30108,30402,30001,30013
Potential Description: SOIL
Alias Name: 0-310-13

WEST RECYCLER BIN STORAGE (Continued) **S102860820**

Alias Type:	APN
Alias Name:	SL0600180308
Alias Type:	GeoTracker Global ID
Alias Name:	201096
Alias Type:	Project Code (Site Code)
Alias Name:	01890018
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	08/31/1998
Comments:	PEA - PASI - A Field Sampling Plan was prepared to conduct limited sampling at the site on June 24, 1998 as part of the Site Reconnaissance Visit. The site had contaminants above US EPA Region 9's Residential Preliminary Remedial Goals (PRG). Substances found were arsenic (5.78 mg/kg), cadmium (12.4 mg/kg), lead (589 mg/kg) and molybdenum (1130 mg/kg) comparing to the PRG's limits of arsenic (0.38 mg/kg), cadmium (9 mg/kg), lead (400 mg/kg) and molybdenum (370 mg/kg) respectively.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

U70
NE
1/4-1/2
0.388 mi.
2051 ft.

WEST RECYCLER BIN STORAGE **CERC-NFRAP** **1003880077**
1405 WOOD STREET **CA0002059525**
OAKLAND, CA

Site 3 of 3 in cluster U

Relative:
Lower

Actual:
12 ft.

CERC-NFRAP:

Site ID:	0905378
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID:	13051249.00000
Person ID:	9271184.00000
Contact Sequence ID:	13057326.00000
Person ID:	9270048.00000
Contact Sequence ID:	13088037.00000
Person ID:	13002167.00000
Contact Sequence ID:	13177196.00000
Person ID:	9270438.00000

WEST RECYCLER BIN STORAGE (Continued) **1003880077**

CERCLIS-NFRAP Site Alias Name(s):
Alias Name: GMV EQUIPMENT REPAIR
Alias Address: Not reported
Not reported

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 09/25/1997
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 03/05/1999
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: 10/20/1997
Date Completed: 03/05/1999
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

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V71 **LOT AT 530-542 LEWIS STREET** **CERC-NFRAP** **1001212408**
SE **530-542 LEWIS STREET** **CA0002059467**
1/4-1/2 **OAKLAND, CA 94607**
0.405 mi.
2139 ft. **Site 1 of 2 in cluster V**

Relative:
Lower

Actual:
13 ft.

CERC-NFRAP:
Site ID: 0905369
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13050642.00000
Person ID: 9271184.00000

Contact Sequence ID: 13056720.00000
Person ID: 9270048.00000

Contact Sequence ID: 13087422.00000
Person ID: 13002167.00000

Contact Sequence ID: 13175546.00000
Person ID: 9270438.00000

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 09/25/1997
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: 04/17/2002
Date Completed: 02/04/2003
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

LOT AT 530-542 LEWIS STREET (Continued) **1001212408**

Action:	ARCHIVE SITE
Date Started:	Not reported
Date Completed:	09/15/2003
Priority Level:	Not reported

W72 **ENE** **1/4-1/2** **0.406 mi.** **2141 ft.**	**WILLOW PARK** **1368 WILLOW STREET** **OAKLAND, CA 94608** **Site 1 of 2 in cluster W**	**VCP** **HAZNET** **ENVIROSTOR**	**S108202218** **N/A**

Relative:
Lower

Actual:
13 ft.

VCP:

Facility ID:	01990028
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, US EPA, CITY OF OAKLAND
Lead Agency:	CITY OF OAKLAND
Lead Agency Description:	Not reported
Project Manager:	LYNN NAKASHIMA
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Site Code:	201578
Assembly:	16
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	No Further Action
Status Date:	06/08/2005
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.8123709077434 / -122.296533992096
APN:	006-001100100, 6-11-1
Past Use:	JUNKYARD
Potential COC:	30001, 30013
Confirmed COC:	30001,30013
Potential Description:	SOIL
Alias Name:	006-001100100
Alias Type:	APN
Alias Name:	6-11-1
Alias Type:	APN
Alias Name:	110030961957
Alias Type:	EPA (FRS #)
Alias Name:	201578
Alias Type:	Project Code (Site Code)
Alias Name:	01990028
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	12/30/2004
Comments:	DTSC signed VCA to review remediation completion report.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

WILLOW PARK (Continued) **S108202218**

Completed Document Type: Voluntary Cleanup Consultation
Completed Date: 06/08/2005
Comments: DTSC completed its review of the remediation completion report. The property was cleaned up to unrestricted standards using the US EPA Brownfield revolving loan fund.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Voluntary Cleanup Agreement Completion
Completed Date: 06/08/2005
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HAZNET:
Year: 2006
Gepaid: CAC002609809
Contact: NANCY HUMPHREY/ENVIRON PROGRAM SPEC
Telephone: 5102386259
Mailing Name: Not reported
Mailing Address: 250 FRANK H OGAWA PLZ STE 5301
Mailing City,St,Zip: OAKLAND, CA 94612
Gen County: Alameda
TSD EPA ID: CAD980675276
TSD County: Kern
Waste Category: Contaminated soil from site clean-up
Disposal Method: H13
Tons: Not reported
Facility County: 1

Year: 2005
Gepaid: CAC002584655
Contact: DAVID FINACOM/MARK GOMEZ/ENVIR PRO
Telephone: 5102387314
Mailing Name: Not reported
Mailing Address: 250 FRANK H OGAWA PLZ STE 5301
Mailing City,St,Zip: OAKLAND, CA 94612
Gen County: Alameda
TSD EPA ID: CAD980675276
TSD County: Kern
Waste Category: Contaminated soil from site clean-up
Disposal Method: Not reported
Tons: 318.57
Facility County: Not reported

Year: 2004
Gepaid: CAC002584655
Contact: DAVID FINACOM/MARK GOMEZ/ENVIR PRO
Telephone: 5102387314

WILLOW PARK (Continued) **S108202218**

Mailing Name:	Not reported
Mailing Address:	250 FRANK H OGAWA PLZ STE 5301
Mailing City,St,Zip:	OAKLAND, CA 94612
Gen County:	Alameda
TSD EPA ID:	CAD980675276
TSD County:	Kern
Waste Category:	Contaminated soil from site clean-up
Disposal Method:	Not reported
Tons:	318.57
Facility County:	Not reported

ENVIROSTOR:

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	1
NPL:	NO
Regulatory Agencies:	SMBRP, US EPA, CITY OF OAKLAND
Lead Agency:	CITY OF OAKLAND
Program Manager:	LYNN NAKASHIMA
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Facility ID:	01990028
Site Code:	201578
Assembly:	16
Senate:	09
Special Program:	Voluntary Cleanup Program
Status:	No Further Action
Status Date:	06/08/2005
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.8123709077434
Longitude:	-122.296533992096
APN:	006-001100100, 6-11-1
Past Use:	JUNKYARD
Potential COC:	30001, 30013
Confirmed COC:	30001,30013
Potential Description:	SOIL
Alias Name:	006-001100100
Alias Type:	APN
Alias Name:	6-11-1
Alias Type:	APN
Alias Name:	110030961957
Alias Type:	EPA (FRS #)
Alias Name:	201578
Alias Type:	Project Code (Site Code)
Alias Name:	01990028
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	12/30/2004
Comments:	DTSC signed VCA to review remediation completion report.

Completed Area Name:	PROJECT WIDE

WILLOW PARK (Continued) **S108202218**

Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Consultation
Completed Date: 06/08/2005
Comments: DTSC completed its review of the remediation completion report. The property was cleaned up to unrestricted standards using the US EPA Brownfield revolving loan fund.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Voluntary Cleanup Agreement Completion
Completed Date: 06/08/2005
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

W73 **WILLOW PARK** **US BROWNFIELDS** **1012171685**
ENE **1368 WILLOW STREET** **N/A**
1/4-1/2 **WEST OAKLAND, CA 94607**
0.406 mi.
2141 ft. **Site 2 of 2 in cluster W**

Relative:
Lower

Actual:
13 ft.

US BROWNFIELDS:
Recipient name: Oakland, City of
Grant type: BCRLF
Property name: Willow Park
Property #: Not reported
Parcel size: .94
Latitude: 37.812345
Longitude: -122.296573
HCM label: Not reported
Map scale: Not reported
Point of reference: Not reported
Datum: Not reported
ACRES property ID: 16501
Start date: 08-JUN-05
Completed date: 08-JUN-05
Acres cleaned up: .94
Cleanup funding: 568000
Cleanup funding source: State/Tribal Funding (non-section 128(a))
Assessment funding: Not reported
Assessment funding source: Not reported
Redevelopment funding: Not reported
Redev. funding source: Not reported
Redev. funding entity name: Not reported
Redevelopment start date: Not reported
Assessment funding entity: Not reported
Cleanup funding entity: California Parks and Recreation Murray Hayden (Prop 12) grant
Grant type: N/A
Accomplishment type: Not reported
Ownership entity: Not reported

WILLOW PARK (Continued) **1012171685**

Current owner: Not reported
Did owner change: Not reported
Cleanup required: Yes
Video available: Not reported
Photo available: Not reported
Institutional controls required: N
IC Category proprietary controls: Not reported
IC cat. info. devices: Not reported
IC cat. gov. controls: Not reported
IC cat. enforcement permit tools: Not reported
IC in place date: Not reported
IC in place: Unknown
State/tribal program date: Not reported
State/tribal program ID: Not reported
State/tribal NFA date: Not reported
Air contaminated: Not reported
Air cleaned: Not reported
Asbestos found: Not reported
Asbestos cleaned: Not reported
Controled substance found: Not reported
Controled substance cleaned: Not reported
Drinking water affected: Not reported
Drinking water cleaned: Not reported
Groundwater affected: Not reported
Groundwater cleaned: Not reported
Lead contaminant found: Not reported
Lead cleaned up: Not reported
No media affected: Not reported
Unknown media affected: Not reported
Other cleaned up: Not reported
Other metals found: Not reported
Other metals cleaned: Not reported
Other contaminants found: Not reported
Other contams found description: Not reported
PAHs found: Not reported
PAHs cleaned up: Not reported
PCBs found: Not reported
PCBs cleaned up: Not reported
Petro products found: Not reported
Petro products cleaned: Not reported
Sediments found: Not reported
Sediments cleaned: Not reported
Soil affected: Not reported
Soil cleaned up: Not reported
Surface water cleaned: Not reported
Unknown found: Not reported
VOCs found: Not reported
VOCs cleaned: Not reported
Cleanup other description: Not reported
Num. of cleanup and re-dev. jobs: Not reported
Past use greenspace acreage: Not reported
Past use residential acreage: Not reported
Past use commercial acreage: Not reported
Past use industrial acreage: Not reported
Future use greenspace acreage: Not reported
Future use residential acreage: Not reported
Future use commercial acreage: Not reported

WILLOW PARK (Continued) **1012171685**

Future use industrial acreage: Not reported
Greenspace acreage and type: Not reported
Superfund Fed. landowner flag: Not reported

Recipient name: Oakland, City of
Grant type: BCRLF
Property name: Willow Park
Property #: Not reported
Parcel size: .94
Latitude: 37.812345
Longitude: -122.296573
HCM label: Not reported
Map scale: Not reported
Point of reference: Not reported
Datum: Not reported
ACRES property ID: 16501
Start date: 08-JUN-05
Completed date: 08-JUN-05
Acres cleaned up: .94
Cleanup funding: 482800
Cleanup funding source: Other Federal Funding
Assessment funding: Not reported
Assessment funding source: Not reported
Redevelopment funding: Not reported
Redev. funding source: Not reported
Redev. funding entity name: Not reported
Redevelopment start date: Not reported
Assessment funding entity: Not reported
Cleanup funding entity: National Park Service Urban Parks and Recreation Program
Grant type: N/A
Accomplishment type: Not reported
Ownership entity: Not reported
Current owner: Not reported
Did owner change: Not reported
Cleanup required: Yes
Video available: Not reported
Photo available: Not reported
Institutional controls required: N
IC Category proprietary controls: Not reported
IC cat. info. devices: Not reported
IC cat. gov. controls: Not reported
IC cat. enforcement permit tools: Not reported
IC in place date: Not reported
IC in place: Unknown
State/tribal program date: Not reported
State/tribal program ID: Not reported
State/tribal NFA date: Not reported
Air contaminated: Not reported
Air cleaned: Not reported
Asbestos found: Not reported
Asbestos cleaned: Not reported
Controled substance found: Not reported
Controled substance cleaned: Not reported
Drinking water affected: Not reported
Drinking water cleaned: Not reported
Groundwater affected: Not reported
Groundwater cleaned: Not reported

WILLOW PARK (Continued) **1012171685**

Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Not reported
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
Unknown found:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported

V74
SE
1/4-1/2
0.406 mi.
2142 ft.

528 LEWIS STREET
528 LEWIS STREET
OAKLAND, CA 94607

Site 2 of 2 in cluster V

HIST Cal-Sites
RESPONSE
ENVIROSTOR

S105749935
N/A

Relative:
Lower

Actual:
13 ft.

HISTORICAL CAL-SITES:

Facility ID:	01880002
Region:	2
Region Name:	BERKELEY
Branch:	NC
Branch Name:	NORTH COAST
File Name:	Not reported
State Senate District:	06182004
Status:	CERT - CERTIFIED AS HAVING BEEN REMEDIED SATISFACTORILY UNDER DTSC OVERSIGHT
Status Name:	CERTIFIED
Lead Agency:	DTSC
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type:	STATE
Type Name:	STATE FUNDED SITE
NPL:	Not Listed

528 LEWIS STREET (Continued) **S105749935**

SIC Code: 88
SIC Name: PRIVATE HOUSEHOLDS
Access: Not reported
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Unknown
Staff Member Responsible for Site: KHILF
Supervisor Responsible for Site: Not reported
Region Water Control Board: SF
Region Water Control Board Name: SAN FRANCISCO BAY
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 16
State Senate District Code: 09
Facility ID: 01880002
Activity: PEA
Activity Name: PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code: PA/SI
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 06282002
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01880002
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: ISE
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 10282002
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported

528 LEWIS STREET (Continued) **S105749935**

Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01880002
Activity: RAW
Activity Name: REMOVAL ACTION WORKPLAN
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 10242003
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01880002
Activity: RA
Activity Name: REMOVAL ACTION
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 06182004
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 805
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: N
Activity Comments: 700 CUBIC YARDS OF CONTAMINATED SOIL AND 105 CUBIC YARDS OFSURFACE DEBRIS (RECYCLABLE METALS, GAS CYLINDERS, AND GARBAGE)
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0

528 LEWIS STREET (Continued) **S105749935**

Facility ID: 01880002
Activity: CERT
Activity Name: CERTIFICATION
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 06182004
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01880002
Activity: FDNC
Activity Name: FINAL DETERMINATION OF NON-COMPLIANCE
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 12102002
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01880002
Activity: CEQA
Activity Name: CEQA INCLUDING NEGATIVE DECS
AWP Code: NOE
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 10242003
Est Person-Yrs to complete: 0

528 LEWIS STREET (Continued) **S105749935**

Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	530/542 LEWIS STREET
Alternate City,St,Zip:	OAKLAND, CA 94607
Alternate Address:	528 LEWIS STREET
Alternate City,St,Zip:	OAKLAND, CA 94607
Background Info:	The Lewis Street Site is a former residential property which has been used to store automobiles, drums, pressurized gas containers, and other miscellaneous equipment. The property is fenced. No volatile or semivolatile organic compounds were detected at significant levels.
Comments Date:	06091997
Comments:	SITE SCREENING PREPARED UNDER THE EPA GRANT INDICATES THAT
Comments Date:	06091997
Comments:	FURTHER ASSESSMENT OF THIS SITE IS NEEDED.
Comments Date:	06182004
Comments:	The Removal Action consisted of removal of approximately 105
Comments Date:	06182004
Comments:	cubic yards of above-ground debris including tires, compressed
Comments Date:	06182004
Comments:	gas cylinders and heavy equipment and excavation and offsite
Comments Date:	06182004
Comments:	disposal of 700 cubic yards of soil and debris contaminated with
Comments Date:	06182004
Comments:	lead to a Class I landfill. The property was then backfilled
Comments Date:	06182004
Comments:	with clean material. All contamination above residential
Comments Date:	06182004
Comments:	standards was removed and the site was certified in June 2004.
Comments Date:	06282002
Comments:	DTSC conducted a Preliminary Assessment which found further
Comments Date:	06282002
Comments:	action was required. Surface samples collected at the site found
Comments Date:	06282002
Comments:	lead as high as 1,080 parts per million (ppm).
Comments Date:	10242003
Comments:	DTSC approved a Removal Action Workplan (RAW) requiring the
Comments Date:	10242003
Comments:	removal of all soils above residential levels. A notice of
Comments Date:	10242003
Comments:	exemption was approved for removal activities.
Comments Date:	10282002
Comments:	An Imminent and Substantial Endangerment Order was issued to the
Comments Date:	10282002

528 LEWIS STREET (Continued) **S105749935**

Comments: property owner.
Comments Date: 11092001
Comments: DTSC conducted sampling at the site. Lead concentrations in
Comments Date: 11092001
Comments: surface soil were as high as 1,080 milligrams per kilogram (ppm).
Comments Date: 11092001
Comments: No volatile or semi-volatile compounds were found.
Comments Date: 12102002
Comments: The owner was found in non-compliance with the Order in December
Comments Date: 12102002
Comments: 2002.
Comments Date: 12142003
Comments: The Superior Court of California, County of Alameda issued an
Comments Date: 12142003
Comments: inspection warrant which granted DTSC access to sample and
Comments Date: 12142003
Comments: remediate the Lewis property. A warrant was needed since DTSC
Comments Date: 12142003
Comments: could not locate the property owner. Subsequently, DTSC was
Comments Date: 12142003
Comments: able to contact the property owner and work with them throughout
Comments Date: 12142003
Comments: the cleanup.
ID Name: CALSTARS CODE
ID Value: 201023
Alternate Name: 530/542 LEWIS STREET528 LEWIS STREET
Special Programs Code: Not reported
Special Programs Name: Not reported

RESPONSE:
Facility ID: 01880002
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: 0.19
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: KATHARINE HILF
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 201023
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 16
Senate: 09
Special Program Status: EPA - PASI
Status: Certified
Status Date: 06/18/2004
Restricted Use: NO
Funding: Orphan Funds
Latitude: 37.8052706421204
Longitude: -122.29801835261
APN: 4-99-29
Past Use: JUNKYARD
Potential COC: 30013
Confirmed COC: 30013
Potential Description: SOIL

528 LEWIS STREET (Continued) **S105749935**

Alias Name: 530/542 LEWIS STREET
Alias Type: Alternate Name
Alias Name: 4-99-29
Alias Type: APN
Alias Name: 110033612918
Alias Type: EPA (FRS #)
Alias Name: 201023
Alias Type: Project Code (Site Code)
Alias Name: 01880002
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/18/2004
Comments: All contamination above residential standards was removed and the site was certified in June 2004.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 10/24/2003
Comments: DTSC approved a Removal Action Workplan (RAW) requiring the removal of all soils above residential levels. A notice of exemption was approved for removal activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment/Site Inspection Report (PA/SI)
Completed Date: 06/28/2002
Comments: DTSC conducted a Preliminary Assessment which found further action was required. Surface samples collected at the site found lead as high as 1,080 parts per million (ppm).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/02/2003
Comments: Fact Sheet for Draft RAW

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 10/24/2003
Comments: NOE approved for Final Removal Action Workplan

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Final Determination of Non-Compliance
Completed Date: 12/10/2002
Comments: The owner was found in non-compliance with the Order in December 2002.
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/18/2004

528 LEWIS STREET (Continued) **S105749935**

Comments:	The site was cleaned up to below residential levels for lead.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	10/28/2002
Comments:	An Imminent and Substantial Endangerment Order was issued to the property owner.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	State Response
Site Type Detailed:	State Response or NPL
Acres:	0.19
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	KATHARINE HILF
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	01880002
Site Code:	201023
Assembly:	16
Senate:	09
Special Program:	EPA - PASI
Status:	Certified
Status Date:	06/18/2004
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Orphan Funds
Latitude:	37.8052706421204
Longitude:	-122.29801835261
APN:	4-99-29
Past Use:	JUNKYARD
Potential COC:	30013
Confirmed COC:	30013
Potential Description:	SOIL
Alias Name:	530/542 LEWIS STREET
Alias Type:	Alternate Name
Alias Name:	4-99-29
Alias Type:	APN
Alias Name:	110033612918
Alias Type:	EPA (FRS #)
Alias Name:	201023
Alias Type:	Project Code (Site Code)
Alias Name:	01880002
Alias Type:	Envirostor ID Number

528 LEWIS STREET (Continued) **S105749935**

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	06/18/2004
Comments:	All contamination above residential standards was removed and the site was certified in June 2004.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	10/24/2003
Comments:	DTSC approved a Removal Action Workplan (RAW) requiring the removal of all soils above residential levels. A notice of exemption was approved for removal activities.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment/Site Inspection Report (PA/SI)
Completed Date:	06/28/2002
Comments:	DTSC conducted a Preliminary Assessment which found further action was required. Surface samples collected at the site found lead as high as 1,080 parts per million (ppm).
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	07/02/2003
Comments:	Fact Sheet for Draft RAW
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	10/24/2003
Comments:	NOE approved for Final Removal Action Workplan
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Final Determination of Non-Compliance
Completed Date:	12/10/2002
Comments:	The owner was found in non-compliance with the Order in December 2002. Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/18/2004
Comments:	The site was cleaned up to below residential levels for lead.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	10/28/2002
Comments:	An Imminent and Substantial Endangerment Order was issued to the property owner.
Future Area Name:	Not reported

528 LEWIS STREET (Continued) **S105749935**

Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

X75
NW
1/4-1/2
0.406 mi.
2146 ft.

OAKLAND ARMY BASE
2475-D WEST 12TH STREET
OAKLAND, CA 94607

Site 1 of 2 in cluster X

HIST Cal-Sites
Cortese
DEED
RESPONSE
ENVIROSTOR

S105481917
N/A

Relative:
Lower

Actual:
9 ft.

HISTORICAL CAL-SITES:

Facility ID:	01970006
Region:	2
Region Name:	BERKELEY
Branch:	NO
Branch Name:	OMF-NORTHERN CALIF
File Name:	OAKLAND ARMY BASE
State Senate District:	01151988
Status:	AWP - ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency:	DTSC
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type:	CLOSE
Type Name:	CLOSED MILITARY BASE
NPL:	Not Listed
SIC Code:	97
SIC Name:	NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Access:	Controlled
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Not reported
Staff Member Responsible for Site:	HWONG
Supervisor Responsible for Site:	Not reported
Region Water Control Board:	SF
Region Water Control Board Name:	SAN FRANCISCO BAY
Lat/Long Direction:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Lat/Long Description:	MEASURED FROM HQ BUILDING ON BASE
State Assembly District Code:	16
State Senate District Code:	09
Facility ID:	01970006
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	OU4
Proposed Budget:	0
AWP Completion Date:	02282006
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported

OAKLAND ARMY BASE (Continued) **S105481917**

Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: RIFS
Activity Name: REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code: OBRA
Proposed Budget: 0
AWP Completion Date: 09262002
Revised Due Date: Not reported
Comments Date: 09262002
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: RAP
Activity Name: REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code: OBRA
Proposed Budget: 0
AWP Completion Date: 09262002
Revised Due Date: Not reported
Comments Date: 09262002
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported

OAKLAND ARMY BASE (Continued) **S105481917**

For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: RAW
Activity Name: REMOVAL ACTION WORKPLAN
AWP Code: OU2
Proposed Budget: 0
AWP Completion Date: 08152001
Revised Due Date: Not reported
Comments Date: 08152001
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: RIFS
Activity Name: REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code: OU4
Proposed Budget: 0
AWP Completion Date: 01302005
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: RMDL
Activity Name: REMEDIAL ACTION (RAP REQUIRED)
AWP Code: OU4
Proposed Budget: 0

OAKLAND ARMY BASE (Continued) **S105481917**

AWP Completion Date: 12302007
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: DES
Activity Name: DESIGN
AWP Code: OU4
Proposed Budget: 0
AWP Completion Date: 06302006
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: PEA
Activity Name: PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code: 807
Proposed Budget: 0
AWP Completion Date: 06251997
Revised Due Date: Not reported
Comments Date: 06251997
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0

OAKLAND ARMY BASE (Continued) **S105481917**

Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01970006
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	648
Proposed Budget:	0
AWP Completion Date:	12311997
Revised Due Date:	Not reported
Comments Date:	12311997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01970006
Activity:	CERFA
Activity Name:	COMMUNITY ENVIRONMENTAL RESPONSE FACILITATION ACT
AWP Code:	BASWD
Proposed Budget:	0
AWP Completion Date:	12201996
Revised Due Date:	Not reported
Comments Date:	12201996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0

OAKLAND ARMY BASE (Continued) **S105481917**

Unknown Type: 0
Facility ID: 01970006
Activity: BWEBS
Activity Name: BASEWIDE ENVIRONMENTAL BASELINE SURVEY
AWP Code: OAB-F
Proposed Budget: 0
AWP Completion Date: 09301996
Revised Due Date: Not reported
Comments Date: 09301996
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: PEA
Activity Name: PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code: BASWD
Proposed Budget: 0
AWP Completion Date: 06051998
Revised Due Date: Not reported
Comments Date: 06051998
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: SS
Activity Name: SITE SCREENING
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: 01151988
Revised Due Date: Not reported
Comments Date: 01151988

OAKLAND ARMY BASE (Continued) **S105481917**

Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: CERT
Activity Name: CERTIFICATION
AWP Code: OBRA
Proposed Budget: 0
AWP Completion Date: 06302014
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: MOA
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 04152003
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported

OAKLAND ARMY BASE (Continued) **S105481917**

Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: CEQA
Activity Name: CEQA INCLUDING NEGATIVE DECS
AWP Code: OBRA
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 08012002
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: CERT
Activity Name: CERTIFICATION
AWP Code: OU4
Proposed Budget: 0
AWP Completion Date: 12312007
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: CEQA

OAKLAND ARMY BASE (Continued) **S105481917**

Activity Name:	CEQA INCLUDING NEGATIVE DECS
AWP Code:	OU2
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	08152001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01970006
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	OBRA
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09262002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	2475-D WEST 12TH STREET
Alternate City,St,Zip:	OAKLAND, CA 94607
Alternate Address:	2475-D WEST 12TH STREET
Alternate City,St,Zip:	OAKLAND, CA 94626
Alternate Address:	422 ACRES; EASTERN SHORE OF SF BAY
Alternate City,St,Zip:	OAKLAND, CA 94626
Alternate Address:	OAKLAND ARMY BASE TRANSITION OFFICE
Alternate City,St,Zip:	Not reported
Background Info:	Oakland Army Base (OARB) is situated near the eastern terminus of the San Francisco-Oakland Bay Bridge. OARB occupies approx- ima tely 422 acres and is bounded by the Southern Pacific Trans- port

OAKLAND ARMY BASE (Continued) **S105481917**

ation Company railroad tracks on the east, the Port of Oakland Au
thority (formerly the Fleet and Industrial Supply Center Oakland)
on the south, the Bay Bridge on the north, and the Oaklnd Outer
Harbor on the west. From December 8, 1941 to September 30, 1999,
OARB carried out it's mission in support activites for the sea,
rail and land transportation of military personnel and material f
or the U.S. Army. These activities included operation and mainte
nance of facilities and equipment, industrial processes, preparat
ion of vehicles for overseas ship- ment, storage of fuels, manage
ment of wastes, cleaning operations, support of seagoing vessels,
railroad rolling stock and trackage, trucking, wharf, and wareho
using operations. In December 1995, OARB was placed on the BRAC
IV list and design- ated for closure. OARB is scheduled to be t
ransferred to the City of Oakland in 2001. The Oakland Base Reus
e Authority (OBRA) which is the Local Reuse Authority (LRA) for t
he base developed a reuse plan in July 1998. Environmental inve
stigation and cleanup of OARB is being perform- ed in accordance
with the BRAC Cleanup Plan (July 1996) which was revised and upda
ted in January 1999. The California Department of Toxic Substanc
es Control (DTSC) is the lead agency for the environmental restor
ation as described in the Defense State Memorandum of Understandi
ng (DSMOA). OARB is not on the U. S. Environmental Protection Ag
ency's National Priorities List (NPL). The 26 BRAC parcels were
grouped into 7 Operable Units (OU), initially identified accordi
ng to types of operation and geo- graphic location. OU1 included
Parcels 4 through 7 and 9 through 15, OU2 consisted entirely of P
arcel 8, OU3 included Parcels 16 through 26, OU4 included parcels
1 through 3 (shoreline, wharves, and submerged land), OU5 was re
served for no further action parcels, OU6 was for parcels that ha
d unexpected conditions, and OU7 was a small contaminated area at
the east end of Building 807 in Parcel 12. The Regional Water
Quality Control Board (RWQCB) is the lead regulatory agency for c
losure of underground fuel storage tanks (USTs) at OARB. USTs th
at contained used oils/fuels and oil/ water separators are not pa
rt of the UST program and are address- ed under the operable unit
cleanup program as described above. Based on Risk Based Correcti
ve Action (RBCA) evaluation, 4 of the 14 UST fuel sites have been
included in a program for further investigation and/or remediati
on. *** OPERABLE UNIT/SITE DESCRIPTION *** OU1 Operable Unit
1 covers 167 acres area with warehouses, a rail yard, open stora
ge area, parking lots, padre grounds administrative areas, wash p
latforms, maintenance shops, a printing plant and a plating shop.
OU1 consists of 11 parcels. OU2 Operable Unit 2 includes railr
oad engine maintenance, fueling and repair facilities. This is a
6.3 acres area at the northeastern border of the OARB. OU3 Oper
able Unit 3 is a 49.4 acres area at the southwestern end of OARB.
The area consists primarily of housing, housing support office
space, vehicle service areas and motor pool maintenance areas. O
U3 consists of 11 parcels. OU4 Operable Unit 4 consists of 127 a
cres with three parcels located at the northwestern end of OARB.
OU4 facilities include waterfronts, piers and cargo storage area
s. OU5 Operable Unit 5 is for three no further action parcels to
taling 35 acres. The area consists of support services, guest- h
ouse, child center, playground, theater, warehouses and Maritime
Street. OU6 Operable Unit 6 is reserved for funding any work rel
ated to basewide issues. The Army has not been using this operab
le unit for remedial and investigation activities. OU7 Operable

OAKLAND ARMY BASE (Continued) **S105481917**

Unit 7 is a 300-foot by 600-foot area located****
Comments Date: 01151988
Comments: SITE SCREENING DONE
Comments Date: 04152003
Comments: ORDER - MOA -- The Memorandum of Agreement (MOA) is between the A
Comments Date: 04152003
Comments: rmy, the Department of Toxic Substances Control, and the San Fran
Comments Date: 04152003
Comments: cisco Bay Regional Water Quality Control Board. The MOA specifie
Comments Date: 04152003
Comments: s the Army’s responsibility to fund the cleanup activities, to in
Comments Date: 04152003
Comments: vestigate and remediate any Army-Retained Condition, and to conti
Comments Date: 04152003
Comments: nue the cleanup activities in the event Oakland defaults on its r
Comments Date: 04152003
Comments: esponsibilities under the Consent Agreement.
Comments Date: 06051998
Comments: PEA - BASWD -- Completion of the Basewide Preliminary Assessment
Comments Date: 06051998
Comments: /Site Inspection (PA/SI), also called Preliminary Endangerment As
Comments Date: 06051998
Comments: sessment (PEA) activity for Oakland Army Base. Twenty six (26) pa
Comments Date: 06051998
Comments: rcels were evaluated in the final PA/SI reports. Twenty (20) parc
Comments Date: 06051998
Comments: els are recommended for further action while six (6) parcels are
Comments Date: 06051998
Comments: recommended for no further action.
Comments Date: 06251997
Comments: PEA 807 -- Completed the Preliminary Assessment/Site Inspection f
Comments Date: 06251997
Comments: or Building 807.
Comments Date: 08012002
Comments: CEQA - BASWD -- The City of Oakland prepared the final Environmen
Comments Date: 08012002
Comments: tal Impact Report (EIR) for the Oakland Army Base (OARB) Area Red
Comments Date: 08012002
Comments: evelopment Plan. The EIR includes environmental impact analysis
Comments Date: 08012002
Comments: for remedial alternatives proposed in the OARB’s Remedial Action
Comments Date: 08012002
Comments: Plan. DTSC was a responsible agency for the EIR decision.
Comments Date: 08152001
Comments: RAW - OU2 - Removal Action workplan for the removal of pesticide
Comments Date: 08152001
Comments: contaminated soil at a wetland soil in OU2. CEQA - OU2 - Negati
Comments Date: 08152001
Comments: ve Declaration for Removal Action workplan to remove pesticide co
Comments Date: 08152001
Comments: ntaminated soil at a wetland soil in OU2.
Comments Date: 09262002
Comments: RAP - OBRA (Oakland Base Reuse Authority) -- The City of Oakland
Comments Date: 09262002
Comments: prepared a Remedial Action Plan (RAP) and Risk Management Plan (R
Comments Date: 09262002
Comments: MP) that address 366 out of 425 acres of the base property. The

OAKLAND ARMY BASE (Continued) **S105481917**

Comments Date: 09262002
Comments: remaining 59 acres of the base will be designated as a seperate
Comments Date: 09262002
Comments: site. RIFS - OBRA -- The elements of RIFS for OUs 1237 have bee
Comments Date: 09262002
Comments: n incorporated into the Remedial Action Plan (RAP) and Risk Manag
Comments Date: 09262002
Comments: ement Plan. The RAP addresses 366 out of 425 acres of the base p
Comments Date: 09262002
Comments: roperty. Upon approval of the RAP, the RIFS for OUs 1237 is also
Comments Date: 09262002
Comments: completed. ORDER - OBRA -- DTSC and the City of Oakland signed
Comments Date: 09262002
Comments: the Consent Agreement for 366 acres of the base property expecte
Comments Date: 09262002
Comments: d to be early transferred by June 2003.
Comments Date: 09301996
Comments: BWEBS OAB-F -- Completed the review of the Basewide Environmental
Comments Date: 09301996
Comments: Baseline Survey.
Comments Date: 12201996
Comments: CERFA BASWD -- Department of Toxic Substances Control made the de
Comments Date: 12201996
Comments: termination that no parcel at Oakland Army Base can be classified
Comments Date: 12201996
Comments: as uncontaminated property.
Comments Date: 12311997
Comments: PEA 648 -- Completed the Preliminary Assessment/Site Inspection f
Comments Date: 12311997
Comments: or Building 648.
ID Name: Not reported
ID Value: Not reported
Alternate Name: OAKLAND ARMY BASEOakland Army Base
Special Programs Code: DSMOA
Special Programs Name: DEFENSE MEMORANDUM OF AGREEMENT

Cortese:
Region: CORTESE
Envirostor Id: 1970006
Site/Facility Type: STATE RESPONSE
Cleanup Status: ACTIVE - LAND USE RESTRICTIONS
Status Date: 1/15/1988
Site Code: 200233
Latitude: 37.82
Longitude: -122.3
EPA Id: Not reported
Owner: Not reported
Enf Type: Not reported
Effective Date: Not reported
Order No: Not reported
Region: Not reported
WDID: Not reported
Swat R: Not reported
Waste Discharger System Num: Not reported
Solid Waste Id Num: Not reported
Waste Management Unit Name: Not reported
Agency Name: Not reported

OAKLAND ARMY BASE (Continued) **S105481917**

DEED:

Area:	EDC AREA
Sub Area:	Not reported
Site Type:	STATE RESPONSE
Status:	ACTIVE
Deed Date(s):	2003-08-08

AWP:

AWP Facility ID:	01970006
Region Code:	2
Region:	BERKELEY
SMBR Branch Code:	NO
SMBR Branch Unit:	OMF-NORTHERN CALIF
Site Name.:	OAKLAND ARMY BASE
Current Status Date:	01151988
Current Status:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency Code:	DTSC
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type:	Closed military facility
Awp Site Type:	CLOSED MILITARY BASE
NPL:	Not Listed
Tier Of AWP Site:	Not reported
Source Of Funding:	Not reported
Responsible Staff Member:	HWONG
Supervisor Responsible:	Not reported
SIC Code:	97
Facility SIC:	NATIONAL SECURITY/INTERNATIONAL AFFAIRS
RWQCB Code:	SF
RWQCB Associated With Site:	SAN FRANCISCO BAY
Site Access Controlled:	Controlled
Site Listed HWS List:	Not reported
Hazard Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Not reported
# Of Contamination Sources:	0
Lat/Long:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Description Of Entity:	MEASURED FROM HQ BUILDING ON BASE
State Assembly Distt Code:	16
State Senate District:	09

RESPONSE:

Facility ID:	01970006
Site Type:	State Response
Site Type Detail:	Closed Base
Acres:	17
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	HENRY WONG
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	200233
Site Mgmt. Req.:	NONE SPECIFIED

OAKLAND ARMY BASE (Continued) **S105481917**

Assembly: 16
Senate: 09
Special Program Status: Not reported
Status: Active
Status Date: 01/15/1988
Restricted Use: YES
Funding: BRAC 95
Latitude: 37.82
Longitude: -122.3
APN: NONE SPECIFIED
Past Use: BATTERY STORAGE, DAY CARE FACILITY, DEGREASING FACILITY, DISTRIBUTOR - CHEMICAL, DRY CLEANING, FIRING RANGE - SMALL ARMS ETC..., FUEL - VEHICLE STORAGE/ REFUELING, FUEL HYDRANT PUMPING STATIONS, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, LANDFILL - HAZARDOUS WASTE, MACHINE SHOP, METAL FINISHING, OIL/WATER SEPARATORS, PAINT/DEPAINT FACILITY, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, PORT, RECYCLING - DRUM, RECYCLING - OTHER, RECYCLING - SCRAP METAL, RECYCLING - USED OIL , SHIPYARD - TERMINAL, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, MACHINE SHOP, MAINTENANCE / CLEANING, MANUFACTURING - OTHER, OFFICE BUILDING, OIL/WATER SEPARATORS, RETAIL - SERVICE STATION, UNKNOWN, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING, DEGREASING FACILITY, ENGINE TESTING/REPAIR, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, OIL/WATER SEPARATORS, RAIL ROAD MAINTENANCE SHOP, VEHICLE MAINTENANCE, ILLEGAL DUMPING, LANDFILL - CONSTRUCTION, LANDFILL - HAZARDOUS WASTE, SHIPYARD - TERMINAL, UNKNOWN, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, RECYCLING - DRUM, UNKNOWN, DEGREASING FACILITY, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, MACHINE SHOP, MAINTENANCE / CLEANING, MANUFACTURING - OTHER, NURSERY, OFFICE BUILDING, OIL/WATER SEPARATORS, PAINT/DEPAINT FACILITY, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, RAIL ROAD MAINTENANCE SHOP, RECYCLING - OTHER, RECYCLING - SCRAP METAL, RETAIL - SERVICE STATION, TRANSFORMER REPAIR, UNKNOWN, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING, DAY CARE FACILITY, JUNKYARD, OFFICE BUILDING, RESIDENTIAL AREA, UNKNOWN, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING, OFFICE BUILDING, RESIDENTIAL AREA, UNKNOWN, TRANSPORTATION - WAREHOUSING, JUNKYARD, LANDFILL - CONSTRUCTION, UNKNOWN, DEGREASING FACILITY, ILLEGAL DUMPING, JUNKYARD, LDF, LANDFILL - CONSTRUCTION, RAIL ROAD MAINTENANCE SHOP, UNKNOWN, EQUIPMENT/INSTRUMENT REPAIR, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, PORT, RECYCLING - OTHER, SHIPYARD - SHIP BUILDING/REPAIR, SHIPYARD - TERMINAL, UNKNOWN, EQUIPMENT/INSTRUMENT REPAIR, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, RECYCLING - DRUM, UNKNOWN
Potential COC: 10097, 10009, 20017, 30001, 30004, 30005, 30006, 30007, 30008, 30010, 30013, 30014, 30018, 30019, 30022, 30023, 30024, 30025, 3002502, 30026, 30027, 30028, 30001, 30004, 30005, 30006, 30007, 30008, 30010, 30013, 30014, 30023, 30024, 30025, 3002502, 30001, 30006, 30007, 30008, 30010, 30013, 30018, 30019, 30022, 30024, 30025, 3002502, 30026, 30027, 30028, 30353, 30001, 30019, 30022, 30024, 30025, 3002502, 30026, 30027, 30028, 30001, 40001, 30003, 30004, 30005, 30006, 30007, 30008, 30009, 30010, 30013, 30014, 30016, 40002, 30018, 30019, 30021, 30022, 30023, 30024, 30025, 3002502, 30026, 30027, 30028, 30001, 40001, 30004, 30005, 30006, 30007, 30008, 30010, 30013,

OAKLAND ARMY BASE (Continued) **S105481917**

30014, 30018, 30019, 30022, 30023, 30024, 30025, 3002502, 30026, 30027, 30028, 30001, 40001, 30013, 30019, 30024, 30025, 3002502, 31001, 30001, 30004, 30006, 30007, 30008, 30010, 30013, 30014, 30018, 30019, 31001, 30001, 30004, 30006, 30007, 30008, 30013, 30018, 30022, 30024, 3002502, 30026, 30027, 30028, 31001, 30001, 40001, 30004, 30005, 30006, 30007, 30008, 30010, 30013, 30014, 30018, 30019, 30022, 30023, 30024, 30025, 3002502, 30026, 30027, 30028, 31001, 30004, 30006, 30007, 30008, 30010, 30013, 30023

Confirmed COC: 30001,30004,30005,30006,30007,30008,30010,30013,30014,30018,30019,
30023,30024,30025,30027,30028,3002502,30026,30022,,
,30001,30004,30005,30006,30007,30008,30010,30013,30014,30023,30024,
30025,3002502,,
,30001-NO,30006-NO,30007-NO,30008-NO,30010-NO,30013-NO,30353-NO,
30018-NO,30019-NO,30022-NO,30024-NO,30025-NO,30026-NO,30027-NO,
30028-NO,3002502-NO,,
,30001,30019,30024,30025,30027,30028,3002502,30026,30022,,
,30001,30003,30004,30005,30006,30007,30008,30009,30010,30013,30014,
30016,30018,30019,30021,30023,30024,30025,30027,30028,40001,40002,
3002502,30026,30022,,
,30001,30004,30005,30006,30007,30008,30010,30013,30014,30018,30019,
30023,30024,30025,30027,30028,40001,3002502,30026,30022,,
,30001,30013,30019,30024,30025,40001,3002502,,
,30001-NO,30004-NO,30006-NO,30007-NO,30008-NO,30010-NO,30013-NO,
30014-NO,30018-NO,30019-NO,31001-NO,,
,30001,30004,30022,30024,30026,3002502,31001,30018,30027,30028,30013,
30006,30007,30008,,
,30001,30004,30005,30006,30007,30008,30010,30013,30014,30018,30019,
30023,30024,30025,30027,30028,31001,40001,3002502,30026,30022,,
,30004,30006,30007,30008,30010,30013,30023,31001

Potential Description: OTH, SED, SOIL, OTH, SOIL, OTH, SOIL, OTH, SED, SOIL, SV, IA, SURFW, IA, OTH, SOIL, SV, OTH, SOIL, OTH, SOIL, OTH, SOIL, SED, IA, OTH, SED, SOIL, SV, SURFW, IA, OTH, SED, SOIL, SV, OTH, SED, SOIL, SURFW

Alias Name: OAKLAND ARMY BASE
Alias Type: Alternate Name
Alias Name: 110033612348
Alias Type: EPA (FRS #)
Alias Name: 169-21
Alias Type: RB-PCA
Alias Name: 200233
Alias Type: Project Code (Site Code)
Alias Name: 01970006
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: EDC Area
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Assessment
Completed Date: 08/01/2002
Comments: The proposed action is the approval and implementation of the OARB Final Reuse Plan, applicable to one of the three sub-districts of the OARB Area Redevelopment Plan, by the Oakland Base Reuse Authority. The Reuse Plan provides for property transfers, remediation of soil and groundwater contamination, installation of major infrastructure, and rehabilitation or demolition and re-construction of mixed use (Public Access, Public Open Space. Recreation, Office/R&D, Light industrial, Warehouse/Distribution, Commercial/Retail, and Live/Work), as well as industrial Port uses (maritime end rail) and ancillary maritime support uses at or near the former OARB site.

OAKLAND ARMY BASE (Continued) **S105481917**

Completed Area Name:	EDC Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Assessment
Completed Date:	08/01/2002
Comments:	The City of Oakland prepared the final ENVIRONMENTAL ASSESSMENT for the Oakland Army Base (OARB) Area Redevelopment Plan. The ENVIRONMENTAL ASSESSMENT includes environmental impact analysis for remedial alternatives proposed in the OARB's Remedial Action Plan. DTSC was a responsible agency for the ENVIRONMENTAL ASSESSMENT decision.

Completed Area Name:	OU2 - Offsite Wetland
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Assessment
Completed Date:	08/15/2001
Comments:	DTSC completed the ENVIRONMENTAL ASSESSMENT necessary for the approval of the OU2 Removal Action Workplan for the removal of pesticide contaminated soil at a wetland soil in OU2.

Completed Area Name:	EDC Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Consent Order
Completed Date:	05/19/2003
Comments:	DTSC, the Oakland Base Reuse Authority, and the City of Oakland acting by and through the Oakland Redevelopment Agency executed the Consent Agreement on May 19, 2003. The Consent Agreement binds the City to enter into environmental restrictions for the Site as necessary to protect human health and the environment, and to require the remediation of the site by the City in accordance with the Oakland Army Base Remedial Action Plan and associated Risk Management Plan approved by DTSC on September 26, 2002.

Completed Area Name:	EDC Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction
Completed Date:	08/08/2003
Comments:	On August 6, 2003, Governor Davis approved early transfer of the former Oakland Army Base to the City of Oakland. The U.S. Army requested that the State of California approve the deferral of remediation of hazardous substance contamination and approve the transfer 363.5 acre of Army property to the Oakland Base Reuse Authority and the City of Oakland acting by and through the Oakland Redevelopment Agency. The transferred acreages are about 85% of the original 425 acres of the former base area.

Completed Area Name:	EDC Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Finding of Suitability for Early Transfer
Completed Date:	08/06/2003
Comments:	On August 6, 2003, Governor Davis approved early transfer of the former Oakland Army Base to the City of Oakland. The U.S. Army requested that the State of California approve the deferral of remediation of hazardous substance contamination and approve the transfer 363.5 acre of Army property to the Oakland Base Reuse Authority and the City of Oakland acting by and through the Oakland Redevelopment Agency. The transferred acreages are about 85% of the original 425 acres of the former base area.

OAKLAND ARMY BASE (Continued) **S105481917**

Completed Area Name:	EDC Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Memorandum of Agreement - IAG
Completed Date:	04/15/2003
Comments:	The Army, the Department of Toxic Substances Control, and the San Francisco Bay Regional Water Quality Control Board executed the Memorandum of Agreement (MOA) on April 15, 2003. The MOA specifies the Army responsibilities to fund the cleanup activities, to investigate and remediate any Army-Retained Condition, and to continue the cleanup activities in the event that the City of Oakland defaults on its responsibilities under the Consent Agreement.

Completed Area Name:	EDC Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	07/22/2002
Comments:	Not reported

Completed Area Name:	OU2 - Offsite Wetland
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	07/01/2001
Comments:	Not reported

Completed Area Name:	OU2
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	09/26/2002
Comments:	The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name:	OU1
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	09/26/2002
Comments:	The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name:	OU3
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	09/26/2002
Comments:	The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the

OAKLAND ARMY BASE (Continued) **S105481917**

Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name: OU4
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/26/2002
Comments: The elements of Remedial Investigation and Feasibility Study for Operable Unit 4, Parcels 2 and 3 have been incorporated into the Remedial Action Plan and Risk Management Plan. These parcels are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Unit 4, Parcels 2 and 3 are deemed completed.

Completed Area Name: OU7
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/26/2002
Comments: The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name: OU7
Completed Sub Area Name: Not reported
Completed Document Type: *Site Inspection (SI) Report
Completed Date: 08/25/1997
Comments: Not reported

Completed Area Name: OU3
Completed Sub Area Name: Not reported
Completed Document Type: *Site Inspection (SI) Report
Completed Date: 08/01/1997
Comments: Not reported

Completed Area Name: BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Community Environmental Response Facilitation Act
Completed Date: 12/20/1996
Comments: CERFA BASWD -- Department of Toxic Substances Control made the determination that no parcel at Oakland Army Base can be classified as uncontaminated property.

Completed Area Name: BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/20/1996
Comments: BWEBS OAB-F -- Completed the review of the Basewide Environmental Baseline Survey.

Completed Area Name: BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening

OAKLAND ARMY BASE (Continued) **S105481917**

Completed Date: 01/15/1988
Comments: SITE SCREENING DONE

Completed Area Name: Parcel 1
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 06/28/2005
Comments: On June 28, 2005, DTSC approved the Remedial Investigation Report for Parcel 1 at the former Oakland Army Base. Parcel 1 consists of approximately 19.97 acres, including approximately 14 acres (nominally 14.08 acres, more or less) of upland and approximately 6 acres (5.89 acres, more or less) of submerged sediments in the intertidal and subtidal zones. The Remedial Investigation Report presents a summary of all previous and supplemental investigations. The overall objective of the Remedial Investigation Report was to collect sufficient data to assess the nature and extent of the site-related chemicals in soil, sediment, and groundwater, and to complete a baseline human health and ecological risk assessment.

Completed Area Name: OU2 - Offsite Wetland
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 07/26/2005
Comments: Department of Toxic Substances Control (DTSC) has reviewed the Closure Report and determined that the Army has removed the pesticide contaminated soil at the wetland area pursuant to the DTSC-approved Operable Unit 2 Soil Removal Action Work Plan dated July 2001. The Army removed 1,204 tons of non-Resource Conservation and Recovery Act hazardous waste soil to achieve residential cleanup goals.

Completed Area Name: OU7
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/26/2002
Comments: The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name: EDC Area
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/26/2002
Comments: The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name: EDC Area
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report

OAKLAND ARMY BASE (Continued) **S105481917**

Completed Date: 09/26/2002
Comments: The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name: EDC Area
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Baseline Survey
Completed Date: 01/23/2003
Comments: The Department of Toxic Substances Control (DTSC) has received the final Environmental Baseline Survey for Transfer (EBS-T) dated December 2002. The EBS-T provides a description of environmental conditions and presents data from previously prepared documents for BRAC Parcels 1 through 5, 8 through 17, 19 (partial), 20, 21 (partial), and 22 through 26 at the former Oakland Army Base (OARB). DTSC has reviewed the final EBS-T and has no further comments.

Completed Area Name: OU5
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 12/12/2000
Comments: The Department of Toxic Substances Control (DTSC) has received the final Technical Report of Findings (Report) for Operable Unit 5, Revision 2, dated November 2000 for the Oakland Army Base (OARB). The Report contains information supporting the Army s request of no further action for Parcels 22, 23 and 26 at OARB. DTSC has reviewed the Report and has no further comments.

Completed Area Name: BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment/Site Inspection Report (PA/SI)
Completed Date: 06/30/1998
Comments: DTSC Completed the review of the Basewide Preliminary Assessment/Site Inspection (PA/SI), also called Preliminary Endangerment Assessment (PEA) activity for Oakland Army Base. Twenty-six (26) parcels were evaluated in the PA/SI. Twenty (20) parcels are recommended for further action while six (6) parcels are recommended for no further action.

Completed Area Name: EDC Area
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 09/26/2002
Comments: The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name: EDC Area
Completed Sub Area Name: Not reported

OAKLAND ARMY BASE (Continued) **S105481917**

Completed Document Type:	Remedial Action Plan
Completed Date:	09/26/2002
Comments:	On 9/26/02, DTSC approved the Remedial Action Plan (RAP) for the Economic Development Conveyance (EDC) Area. The EDC Area consists of 363.5 out of 425 acres of the base property. The Army will transfer the EDC Area to the City of Oakland shortly. The RAP requires cleanup of seven sites with soil and groundwater contaminated with metals, volatile and semi-volatile organic compounds, and total petroleum hydrocarbons. The RAP also requires cleanup of numerous locations where storage tanks, incidental vehicular maintenance, railroad tracks, and other activities involving the handling of hazardous materials occurred, and where hazardous substances or petroleum have been or may be discovered and will be remediated in accordance with the Risk Management Plan, an appendix to the RAP.
Completed Area Name:	OU2 - Offsite Wetland
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	08/15/2001
Comments:	DTSC approved the Soil Removal Action Work Plan for Operable Unit 2 (OU2) dated April 23, 2001 for the Oakland Army Base. The work plan proposes excavation and off-site disposal of pesticide contaminated soil at OU2. OU2 is a .5-acre low quality wetland offsite of the northeast end of Oakland Army Base.
Completed Area Name:	Parcel 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Feasibility Study Report
Completed Date:	04/19/2006
Comments:	On 4/19/06, DTSC approved the final "Uplands Areas of Concern, Feasibility Study, BRAC Parcel 1" dated April 2006. The Feasibility Study evaluates remedial alternatives for the upland Areas of Concern (AOCs) (i.e., AOC 1-1, AOC 1-2, AOC 1-3, and AOC 1-4) at Parcel 1 of the former Oakland Army Base. Parcel 1 includes the former landfill and part of the spit on which the eastern approach to the Bay Bridge is located. Constituents of concern include VOCs, pesticides, metals, and other typical waste constituents.
Future Area Name:	OU2 - Offsite Wetland
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Plan
Future Due Date:	2014
Future Area Name:	OU2 - Offsite Wetland
Future Sub Area Name:	Not reported
Future Document Type:	Design/Implementation Workplan
Future Due Date:	2015
Future Area Name:	OU2 - Offsite Wetland
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Investigation / Feasibility Study
Future Due Date:	2013
Future Area Name:	AOC M-1
Future Sub Area Name:	Not reported
Future Document Type:	Feasibility Study Report
Future Due Date:	2013
Future Area Name:	AOC M-1
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Completion Report

OAKLAND ARMY BASE (Continued) **S105481917**

Future Due Date: 2015
Future Area Name: OU2 - Offsite Wetland
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Completion Report
Future Due Date: 2018
Future Area Name: AOC M-1
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Plan
Future Due Date: 2013
Future Area Name: AOC M-1
Future Sub Area Name: Not reported
Future Document Type: Design/Implementation Workplan
Future Due Date: 2014
Future Area Name: Parcel 1
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Completion Report
Future Due Date: 2013
Future Area Name: AOC M-1
Future Sub Area Name: Not reported
Future Document Type: Public Notice
Future Due Date: 2013
Future Area Name: OU2 - Offsite Wetland
Future Sub Area Name: Not reported
Future Document Type: Remedial Investigation / Feasibility Study
Future Due Date: 2012
Future Area Name: OU2 - Offsite Wetland
Future Sub Area Name: Not reported
Future Document Type: Fact Sheets
Future Due Date: 2014
Future Area Name: OU2 - Offsite Wetland
Future Sub Area Name: Not reported
Future Document Type: Public Notice
Future Due Date: 2014
Future Area Name: OU2 - Offsite Wetland
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2018
Future Area Name: AOC M-1
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2015
Future Area Name: OU2 - Offsite Wetland
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2018
Future Area Name: Parcel 1
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2013
Future Area Name: Parcel 1
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2013
Future Area Name: AOC M-1
Future Sub Area Name: Not reported
Future Document Type: Fact Sheets
Future Due Date: 2013

OAKLAND ARMY BASE (Continued) **S105481917**

Future Area Name:	BASEWIDE
Future Sub Area Name:	Not reported
Future Document Type:	5 Year Review Reports
Future Due Date:	2017
Future Area Name:	Parcel 1
Future Sub Area Name:	Not reported
Future Document Type:	Operations and Maintenance Plan
Future Due Date:	2013
Schedule Area Name:	Parcel 1
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Remedial Action Plan
Schedule Due Date:	12/30/2011
Schedule Revised Date:	Not reported
Schedule Area Name:	Parcel 1
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Design/Implementation Workplan
Schedule Due Date:	6/30/2012
Schedule Revised Date:	Not reported
Schedule Area Name:	Parcel 1
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Fact Sheets
Schedule Due Date:	10/30/2011
Schedule Revised Date:	Not reported
Schedule Area Name:	Parcel 1
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Public Notice
Schedule Due Date:	10/30/2011
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	State Response
Site Type Detailed:	Closed Base
Acres:	17
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	HENRY WONG
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	01970006
Site Code:	200233
Assembly:	16
Senate:	09
Special Program:	Not reported
Status:	Active
Status Date:	01/15/1988
Restricted Use:	YES
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	BRAC 95
Latitude:	37.82
Longitude:	-122.3
APN:	NONE SPECIFIED
Past Use:	BATTERY STORAGE, DAY CARE FACILITY, DEGREASING FACILITY, DISTRIBUTOR - CHEMICAL, DRY CLEANING, FIRING RANGE - SMALL ARMS ETC..., FUEL - VEHICLE STORAGE/ REFUELING, FUEL HYDRANT PUMPING STATIONS, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, LANDFILL - HAZARDOUS WASTE, MACHINE SHOP, METAL FINISHING, OIL/WATER SEPARATORS,

OAKLAND ARMY BASE (Continued) **S105481917**

PAINT/DEPAINT FACILITY, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, PORT, RECYCLING - DRUM, RECYCLING - OTHER, RECYCLING - SCRAP METAL, RECYCLING - USED OIL , SHIPYARD - TERMINAL, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, MACHINE SHOP, MAINTENANCE / CLEANING, MANUFACTURING - OTHER, OFFICE BUILDING, OIL/WATER SEPARATORS, RETAIL - SERVICE STATION, UNKNOWN, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING, DEGREASING FACILITY, ENGINE TESTING/REPAIR, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, OIL/WATER SEPARATORS, RAIL ROAD MAINTENANCE SHOP, VEHICLE MAINTENANCE, ILLEGAL DUMPING, LANDFILL - CONSTRUCTION, LANDFILL - HAZARDOUS WASTE, SHIPYARD - TERMINAL, UNKNOWN, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, RECYCLING - DRUM, UNKNOWN, DEGREASING FACILITY, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, MACHINE SHOP, MAINTENANCE / CLEANING, MANUFACTURING - OTHER, NURSERY, OFFICE BUILDING, OIL/WATER SEPARATORS, PAINT/DEPAINT FACILITY, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, RAIL ROAD MAINTENANCE SHOP, RECYCLING - OTHER, RECYCLING - SCRAP METAL, RETAIL - SERVICE STATION, TRANSFORMER REPAIR, UNKNOWN, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING, DAY CARE FACILITY, JUNKYARD, OFFICE BUILDING, RESIDENTIAL AREA, UNKNOWN, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING, OFFICE BUILDING, RESIDENTIAL AREA, UNKNOWN, TRANSPORTATION - WAREHOUSING, JUNKYARD, LANDFILL - CONSTRUCTION, UNKNOWN, DEGREASING FACILITY, ILLEGAL DUMPING, JUNKYARD, LDF, LANDFILL - CONSTRUCTION, RAIL ROAD MAINTENANCE SHOP, UNKNOWN, EQUIPMENT/INSTRUMENT REPAIR, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, PORT, RECYCLING - OTHER, SHIPYARD - SHIP BUILDING/REPAIR, SHIPYARD - TERMINAL, UNKNOWN, EQUIPMENT/INSTRUMENT REPAIR, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, RECYCLING - DRUM, UNKNOWN

Potential COC: 10097, 10009, 20017, 30001, 30004, 30005, 30006, 30007, 30008, 30010, 30013, 30014, 30018, 30019, 30022, 30023, 30024, 30025, 3002502, 30026, 30027, 30028, 30001, 30004, 30005, 30006, 30007, 30008, 30010, 30013, 30014, 30023, 30024, 30025, 3002502, 30001, 30006, 30007, 30008, 30010, 30013, 30018, 30019, 30022, 30024, 30025, 3002502, 30026, 30027, 30028, 30353, 30001, 30019, 30022, 30024, 30025, 3002502, 30026, 30027, 30028, 30001, 40001, 30003, 30004, 30005, 30006, 30007, 30008, 30009, 30010, 30013, 30014, 30016, 40002, 30018, 30019, 30021, 30022, 30023, 30024, 30025, 3002502, 30026, 30027, 30028, 30001, 40001, 30004, 30005, 30006, 30007, 30008, 30010, 30013, 30014, 30018, 30019, 30022, 30023, 30024, 30025, 3002502, 30026, 30027, 30028, 30001, 40001, 30013, 30019, 30024, 30025, 3002502, 31001, 30001, 30004, 30006, 30007, 30008, 30010, 30013, 30014, 30018, 30019, 31001, 30001, 30004, 30006, 30007, 30008, 30013, 30018, 30022, 30024, 3002502, 30026, 30027, 30028, 31001, 30001, 40001, 30004, 30005, 30006, 30007, 30008, 30010, 30013, 30014, 30018, 30019, 30022, 30023, 30024, 30025, 3002502, 30026, 30027, 30028, 31001, 30004, 30006, 30007, 30008, 30010, 30013, 30023

Confirmed COC: 30001,30004,30005,30006,30007,30008,30010,30013,30014,30018,30019, 30023,30024,30025,30027,30028,3002502,30026,30022,, ,30001,30004,30005,30006,30007,30008,30010,30013,30014,30023,30024, 30025,3002502,, ,30001-NO,30006-NO,30007-NO,30008-NO,30010-NO,30013-NO,30353-NO, 30018-NO,30019-NO,30022-NO,30024-NO,30025-NO,30026-NO,30027-NO, 30028-NO,3002502-NO,,

OAKLAND ARMY BASE (Continued) **S105481917**

,30001,30019,30024,30025,30027,30028,3002502,30026,30022,,
,30001,30003,30004,30005,30006,30007,30008,30009,30010,30013,30014,
30016,30018,30019,30021,30023,30024,30025,30027,30028,40001,40002,
3002502,30026,30022,,
,30001,30004,30005,30006,30007,30008,30010,30013,30014,30018,30019,
30023,30024,30025,30027,30028,40001,3002502,30026,30022,,
,30001,30013,30019,30024,30025,40001,3002502,,
,30001-NO,30004-NO,30006-NO,30007-NO,30008-NO,30010-NO,30013-NO,
30014-NO,30018-NO,30019-NO,31001-NO,,
,30001,30004,30022,30024,30026,3002502,31001,30018,30027,30028,30013,
30006,30007,30008,,
,30001,30004,30005,30006,30007,30008,30010,30013,30014,30018,30019,
30023,30024,30025,30027,30028,31001,40001,3002502,30026,30022,,
,30004,30006,30007,30008,30010,30013,30023,31001

Potential Description: OTH, SED, SOIL, OTH, SOIL, OTH, SOIL, OTH, SED, SOIL, SV, IA, SURFW, IA, OTH, SOIL, SV, OTH, SOIL, OTH, SOIL, OTH, SOIL, SED, IA, OTH, SED, SOIL, SV, SURFW, IA, OTH, SED, SOIL, SV, OTH, SED, SOIL, SURFW

Alias Name: OAKLAND ARMY BASE
Alias Type: Alternate Name
Alias Name: 110033612348
Alias Type: EPA (FRS #)
Alias Name: 169-21
Alias Type: RB-PCA
Alias Name: 200233
Alias Type: Project Code (Site Code)
Alias Name: 01970006
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: EDC Area
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Assessment
Completed Date: 08/01/2002
Comments: The proposed action is the approval and implementation of the OARB Final Reuse Plan, applicable to one of the three sub-districts of the OARB Area Redevelopment Plan, by the Oakland Base Reuse Authority. The Reuse Plan provides for property transfers, remediation of soil and groundwater contamination, installation of major infrastructure, and rehabilitation or demolition and re-construction of mixed use (Public Access, Public Open Space. Recreation, Office/R&D, Light industrial, Warehouse/Distribution, Commercial/Retail, and Live/Work), as well as industrial Port uses (maritime end rail) and ancillary maritime support uses at or near the former OARB site.

Completed Area Name: EDC Area
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Assessment
Completed Date: 08/01/2002
Comments: The City of Oakland prepared the final ENVIRONMENTAL ASSESSMENT for the Oakland Army Base (OARB) Area Redevelopment Plan. The ENVIRONMENTAL ASSESSMENT includes environmental impact analysis for remedial alternatives proposed in the OARB’s Remedial Action Plan. DTSC was a responsible agency for the ENVIRONMENTAL ASSESSMENT decision.

Completed Area Name: OU2 - Offsite Wetland
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Assessment

OAKLAND ARMY BASE (Continued) **S105481917**

Completed Date: 08/15/2001
Comments: DTSC completed the ENVIRONMENTAL ASSESSMENT necessary for the approval of the OU2 Removal Action Workplan for the removal of pesticide contaminated soil at a wetland soil in OU2.

Completed Area Name: EDC Area
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 05/19/2003
Comments: DTSC, the Oakland Base Reuse Authority, and the City of Oakland acting by and through the Oakland Redevelopment Agency executed the Consent Agreement on May 19, 2003. The Consent Agreement binds the City to enter into environmental restrictions for the Site as necessary to protect human health and the environment, and to require the remediation of the site by the City in accordance with the Oakland Army Base Remedial Action Plan and associated Risk Management Plan approved by DTSC on September 26, 2002.

Completed Area Name: EDC Area
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 08/08/2003
Comments: On August 6, 2003, Governor Davis approved early transfer of the former Oakland Army Base to the City of Oakland. The U.S. Army requested that the State of California approve the deferral of remediation of hazardous substance contamination and approve the transfer 363.5 acre of Army property to the Oakland Base Reuse Authority and the City of Oakland acting by and through the Oakland Redevelopment Agency. The transferred acreages are about 85% of the original 425 acres of the former base area.

Completed Area Name: EDC Area
Completed Sub Area Name: Not reported
Completed Document Type: Finding of Suitability for Early Transfer
Completed Date: 08/06/2003
Comments: On August 6, 2003, Governor Davis approved early transfer of the former Oakland Army Base to the City of Oakland. The U.S. Army requested that the State of California approve the deferral of remediation of hazardous substance contamination and approve the transfer 363.5 acre of Army property to the Oakland Base Reuse Authority and the City of Oakland acting by and through the Oakland Redevelopment Agency. The transferred acreages are about 85% of the original 425 acres of the former base area.

Completed Area Name: EDC Area
Completed Sub Area Name: Not reported
Completed Document Type: Memorandum of Agreement - IAG
Completed Date: 04/15/2003
Comments: The Army, the Department of Toxic Substances Control, and the San Francisco Bay Regional Water Quality Control Board executed the Memorandum of Agreement (MOA) on April 15, 2003. The MOA specifies the Army responsibilities to fund the cleanup activities, to investigate and remediate any Army-Retained Condition, and to continue the cleanup activities in the event that the City of Oakland defaults on its responsibilities under the Consent Agreement.

Completed Area Name: EDC Area

OAKLAND ARMY BASE (Continued) **S105481917**

Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/22/2002
Comments: Not reported

Completed Area Name: OU2 - Offsite Wetland
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/01/2001
Comments: Not reported

Completed Area Name: OU2
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/26/2002
Comments: The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name: OU1
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/26/2002
Comments: The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name: OU3
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/26/2002
Comments: The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name: OU4
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/26/2002
Comments: The elements of Remedial Investigation and Feasibility Study for Operable Unit 4, Parcels 2 and 3 have been incorporated into the Remedial Action Plan and Risk Management Plan. These parcels are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Unit 4,

OAKLAND ARMY BASE (Continued) **S105481917**

Parcels 2 and 3 are deemed completed.

Completed Area Name:	OU7
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	09/26/2002
Comments:	The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name:	OU7
Completed Sub Area Name:	Not reported
Completed Document Type:	*Site Inspection (SI) Report
Completed Date:	08/25/1997
Comments:	Not reported

Completed Area Name:	OU3
Completed Sub Area Name:	Not reported
Completed Document Type:	*Site Inspection (SI) Report
Completed Date:	08/01/1997
Comments:	Not reported

Completed Area Name:	BASEWIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Community Environmental Response Facilitation Act
Completed Date:	12/20/1996
Comments:	CERFA BASWD -- Department of Toxic Substances Control made the determination that no parcel at Oakland Army Base can be classified as uncontaminated property.

Completed Area Name:	BASEWIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Baseline Survey
Completed Date:	12/20/1996
Comments:	BWEBS OAB-F -- Completed the review of the Basewide Environmental Baseline Survey.

Completed Area Name:	BASEWIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	01/15/1988
Comments:	SITE SCREENING DONE

Completed Area Name:	Parcel 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	06/28/2005
Comments:	On June 28, 2005, DTSC approved the Remedial Investigation Report for Parcel 1 at the former Oakland Army Base. Parcel 1 consists of approximately 19.97 acres, including approximately 14 acres (nominally 14.08 acres, more or less) of upland and approximately 6 acres (5.89 acres, more or less) of submerged sediments in the intertidal and subtidal zones. The Remedial Investigation Report

OAKLAND ARMY BASE (Continued) **S105481917**

presents a summary of all previous and supplemental investigations. The overall objective of the Remedial Investigation Report was to collect sufficient data to assess the nature and extent of the site-related chemicals in soil, sediment, and groundwater, and to complete a baseline human health and ecological risk assessment.

Completed Area Name:	OU2 - Offsite Wetland
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	07/26/2005
Comments:	Department of Toxic Substances Control (DTSC) has reviewed the Closure Report and determined that the Army has removed the pesticide contaminated soil at the wetland area pursuant to the DTSC-approved Operable Unit 2 Soil Removal Action Work Plan dated July 2001. The Army removed 1,204 tons of non-Resource Conservation and Recovery Act hazardous waste soil to achieve residential cleanup goals.

Completed Area Name:	OU7
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	09/26/2002
Comments:	The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name:	EDC Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	09/26/2002
Comments:	The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name:	EDC Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	09/26/2002
Comments:	The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name:	EDC Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Baseline Survey
Completed Date:	01/23/2003

OAKLAND ARMY BASE (Continued) **S105481917**

Comments: The Department of Toxic Substances Control (DTSC) has received the final Environmental Baseline Survey for Transfer (EBS-T) dated December 2002. The EBS-T provides a description of environmental conditions and presents data from previously prepared documents for BRAC Parcels 1 through 5, 8 through 17, 19 (partial), 20, 21 (partial), and 22 through 26 at the former Oakland Army Base (OARB). DTSC has reviewed the final EBS-T and has no further comments.

Completed Area Name: OU5
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 12/12/2000
Comments: The Department of Toxic Substances Control (DTSC) has received the final Technical Report of Findings (Report) for Operable Unit 5, Revision 2, dated November 2000 for the Oakland Army Base (OARB). The Report contains information supporting the Army s request of no further action for Parcels 22, 23 and 26 at OARB. DTSC has reviewed the Report and has no further comments.

Completed Area Name: BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment/Site Inspection Report (PA/SI)
Completed Date: 06/30/1998
Comments: DTSC Completed the review of the Basewide Preliminary Assessment/Site Inspection (PA/SI), also called Preliminary Endangerment Assessment (PEA) activity for Oakland Army Base. Twenty-six (26) parcels were evaluated in the PA/SI. Twenty (20) parcels are recommended for further action while six (6) parcels are recommended for no further action.

Completed Area Name: EDC Area
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 09/26/2002
Comments: The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name: EDC Area
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 09/26/2002
Comments: On 9/26/02, DTSC approved the Remedial Action Plan (RAP) for the Economic Development Conveyance (EDC) Area. The EDC Area consists of 363.5 out of 425 acres of the base property. The Army will transfer the EDC Area to the City of Oakland shortly. The RAP requires cleanup of seven sites with soil and groundwater contaminated with metals, volatile and semi-volatile organic compounds, and total petroleum hydrocarbons. The RAP also requires cleanup of numerous locations where storage tanks, incidental vehicular maintenance, railroad tracks, and other activities involving the handling of hazardous materials occurred, and where hazardous substances or petroleum have been or may be discovered and will be remediated in accordance with

OAKLAND ARMY BASE (Continued) **S105481917**

the Risk Management Plan, an appendix to the RAP.

Completed Area Name:	OU2 - Offsite Wetland
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	08/15/2001
Comments:	DTSC approved the Soil Removal Action Work Plan for Operable Unit 2 (OU2) dated April 23, 2001 for the Oakland Army Base. The work plan proposes excavation and off-site disposal of pesticide contaminated soil at OU2. OU2 is a .5-acre low quality wetland offsite of the northeast end of Oakland Army Base.

Completed Area Name:	Parcel 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Feasibility Study Report
Completed Date:	04/19/2006
Comments:	On 4/19/06, DTSC approved the final "Uplands Areas of Concern, Feasibility Study, BRAC Parcel 1" dated April 2006. The Feasibility Study evaluates remedial alternatives for the upland Areas of Concern (AOCs) (i.e., AOC 1-1, AOC 1-2, AOC 1-3, and AOC 1-4) at Parcel 1 of the former Oakland Army Base. Parcel 1 includes the former landfill and part of the spit on which the eastern approach to the Bay Bridge is located. Constituents of concern include VOCs, pesticides, metals, and other typical waste constituents.

Future Area Name:	OU2 - Offsite Wetland
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Plan
Future Due Date:	2014
Future Area Name:	OU2 - Offsite Wetland
Future Sub Area Name:	Not reported
Future Document Type:	Design/Implementation Workplan
Future Due Date:	2015
Future Area Name:	OU2 - Offsite Wetland
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Investigation / Feasibility Study
Future Due Date:	2013
Future Area Name:	AOC M-1
Future Sub Area Name:	Not reported
Future Document Type:	Feasibility Study Report
Future Due Date:	2013
Future Area Name:	AOC M-1
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Completion Report
Future Due Date:	2015
Future Area Name:	OU2 - Offsite Wetland
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Completion Report
Future Due Date:	2018
Future Area Name:	AOC M-1
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Plan
Future Due Date:	2013
Future Area Name:	AOC M-1
Future Sub Area Name:	Not reported
Future Document Type:	Design/Implementation Workplan
Future Due Date:	2014

OAKLAND ARMY BASE (Continued) **S105481917**

Future Area Name: Parcel 1
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Completion Report
Future Due Date: 2013
Future Area Name: AOC M-1
Future Sub Area Name: Not reported
Future Document Type: Public Notice
Future Due Date: 2013
Future Area Name: OU2 - Offsite Wetland
Future Sub Area Name: Not reported
Future Document Type: Remedial Investigation / Feasibility Study
Future Due Date: 2012
Future Area Name: OU2 - Offsite Wetland
Future Sub Area Name: Not reported
Future Document Type: Fact Sheets
Future Due Date: 2014
Future Area Name: OU2 - Offsite Wetland
Future Sub Area Name: Not reported
Future Document Type: Public Notice
Future Due Date: 2014
Future Area Name: OU2 - Offsite Wetland
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2018
Future Area Name: AOC M-1
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2015
Future Area Name: OU2 - Offsite Wetland
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2018
Future Area Name: Parcel 1
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2013
Future Area Name: Parcel 1
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2013
Future Area Name: AOC M-1
Future Sub Area Name: Not reported
Future Document Type: Fact Sheets
Future Due Date: 2013
Future Area Name: BASEWIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2017
Future Area Name: Parcel 1
Future Sub Area Name: Not reported
Future Document Type: Operations and Maintenance Plan
Future Due Date: 2013
Schedule Area Name: Parcel 1
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Action Plan
Schedule Due Date: 12/30/2011
Schedule Revised Date: Not reported

OAKLAND ARMY BASE (Continued) **S105481917**

Schedule Area Name:	Parcel 1
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Design/Implementation Workplan
Schedule Due Date:	6/30/2012
Schedule Revised Date:	Not reported
Schedule Area Name:	Parcel 1
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Fact Sheets
Schedule Due Date:	10/30/2011
Schedule Revised Date:	Not reported
Schedule Area Name:	Parcel 1
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Public Notice
Schedule Due Date:	10/30/2011
Schedule Revised Date:	Not reported

X76	**USARMY OAKLAND ARMY BASE**	**CERCLIS**	**1000277305**
NW	**BLDG-1 ALASKA STREET**	**RCRA-SQG**	**CA4210020661**
1/4-1/2	**OAKLAND, CA 94626**	**CA FID UST**	
0.406 mi.		**HIST UST**	
2146 ft.	**Site 2 of 2 in cluster X**	**SWEEPS UST**	
		HAZNET	

Relative:
Lower

Actual:
9 ft.

CERCLIS:

Site ID:	0902758
EPA ID:	CA4210020661
Facility County:	ALAMEDA
Short Name:	OAKLAND ARMY BASE WAREHOU
Congressional District:	08
IFMS ID:	09CF
SMSA Number:	7360
USGC Hydro Unit:	18050004
Federal Facility:	Federal Facility
DMNSN Number:	Not reported
Site Orphan Flag:	N
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	Not reported
NFRAP Flag:	Not reported
Parent ID:	Not reported
RST Code:	Not reported
EPA Region:	09
Classification:	Not reported
Site Settings Code:	Not reported
NPL Status:	Not on the NPL
DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	USAR
Non NPL Status:	Other Cleanup Activity: Federal Facility-Lead Cleanup
Non NPL Status Date:	20060815
Site Fips Code:	06001
CC Concurrence Date:	Not reported
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported

CERCLIS Site Contact Name(s):

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Contact ID: 9270232.00000
Contact Name: Xuan-Mai Tran
Contact Tel: (415) 972-3002
Contact Title: Remedial Project Manager (RPM)
Contact Email: Not reported

Contact ID: 9271184.00000
Contact Name: Karen Jurist
Contact Tel: (415) 972-3219
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 9270048.00000
Contact Name: Jeff Inglis
Contact Tel: (415) 972-3095
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 13002167.00000
Contact Name: Carl Brickner
Contact Tel: (415) 972-3814
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 9270438.00000
Contact Name: Dawn Richmond
Contact Tel: (415) 972-3097
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

CERCLIS Site Alias Name(s):
Alias ID: 9270147
Alias Name: OAKLAND USAR BASE
Alias Address: BLDG-1 ALASKA ST.
OAKLAND, CA 93013
Alias Comments: Not reported
Site Description: According to Xuan-Mai Tran, the RPM, the Army has transferred most of the facility to the City of Oakland, and progress is being made in cleaning up the site. PA

CERCLIS Assessment History:

Action Code: 001
Action: DISCOVERY
Date Started: Not reported
Date Completed: 08/01/1980
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: PRELIMINARY ASSESSMENT
Date Started: Not reported

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Date Completed:	06/01/1987
Priority Level:	Low priority for further assessment
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	001
Action:	Restoration Advisory Board
Date Started:	08/01/1996
Date Completed:	Not reported
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	002
Action:	FEDERAL FACILITY REMEDIAL INVESTIGATION
Date Started:	02/28/2000
Date Completed:	09/27/2002
Priority Level:	Not reported
Operable Unit:	GARRISON
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

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USARMY OAKLAND ARMY BASE (Continued) **1000277305**

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Action Code:	002
Action:	FEDERAL FACILITY FEASIBILITY STUDY
Date Started:	09/27/2002
Date Completed:	Not reported
Priority Level:	Not reported
Operable Unit:	BASEWIDE
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	001
Action:	FEDERAL FACILITY FEASIBILITY STUDY
Date Started:	12/22/1999
Date Completed:	09/27/2002
Priority Level:	Not reported
Operable Unit:	WAREHOUSE
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

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Action Code:	001
Action:	FEDERAL FACILITY REMEDIAL INVESTIGATION
Date Started:	12/22/1999
Date Completed:	09/27/2002
Priority Level:	Not reported
Operable Unit:	WAREHOUSE
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Action Anomaly: Not reported

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USARMY OAKLAND ARMY BASE (Continued) **1000277305**

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Action Code:	003
Action:	FEDERAL FACILITY REMEDIAL INVESTIGATION
Date Started:	02/15/2000
Date Completed:	09/27/2002
Priority Level:	Not reported
Operable Unit:	NFA AREAS
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

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Action Code:	005
Action:	FEDERAL FACILITY REMEDIAL INVESTIGATION
Date Started:	03/24/2000
Date Completed:	09/27/2002
Priority Level:	Not reported
Operable Unit:	GROUNDWATER

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Primary Responsibility: Federal Facilities
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

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Action Code: 002
Action: FEDERAL FACILITY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 02/04/2000
Date Completed: 05/23/2005
Priority Level: Not reported
Operable Unit: BUILDING 99
Primary Responsibility: Federal Facilities
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: FEDERAL FACILITY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 11/08/2004
Date Completed: 03/20/2006
Priority Level: Not reported
Operable Unit: SAND SPIT
Primary Responsibility: Federal Facilities
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

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USARMY OAKLAND ARMY BASE (Continued) **1000277305**

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Action Code: 001
Action: SITE REASSESSMENT
Date Started: Not reported
Date Completed: 08/15/2006
Priority Level: Low priority for further assessment
Operable Unit: SITEWIDE
Primary Responsibility: EPA In-House
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Click this hyperlink while viewing on your computer to access
129 additional US CERCLIS Financial: record(s) in the EDR Site Report.

RCRA-SQG:
Date form received by agency: 10/12/2000
Facility name: USARMY OAKLAND ARMY BASE
Site name: OAKLAND ARMY BASE
Facility address: 2475-D W. 12TH STREET
OAKLAND, CA 946075780
EPA ID: CA4210020661
Contact: BRUCE HAYMAKER
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (510) 466-2787
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Federal
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	09/01/1996
Facility name:	USARMY OAKLAND ARMY BASE
Classification:	Large Quantity Generator
Date form received by agency:	09/01/1996
Facility name:	USARMY OAKLAND ARMY BASE
Classification:	Small Quantity Generator
Date form received by agency:	06/22/1990
Facility name:	USARMY OAKLAND ARMY BASE
Site name:	OAKLAND ARMY BASE
Classification:	Large Quantity Generator
Date form received by agency:	08/18/1980
Facility name:	USARMY OAKLAND ARMY BASE
Classification:	Large Quantity Generator
Violation Status:	No violations found

CA FID UST:

Facility ID:	01002798
Regulated By:	UTNKA
Regulated ID:	00063359
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4154663088
Mail To:	Not reported

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Mailing Address: BLDG 1 OAKLAND ARMY
Mailing Address 2: Not reported
Mailing City,St,Zip: OAKLAND 94626
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

HIST UST:
Region: STATE
Facility ID: 00000063359
Facility Type: Other
Other Type: MILITARY INSTALLATIO
Total Tanks: 0017
Contact Name: STAFF ENGINEER
Telephone: 4154663088
Owner Name: COMMANDER, MILITARY TRAFFIC MA
Owner Address: BUILDING 1, OAKLAND ARMY BASE
Owner City,St,Zip: OAKLAND, CA 94626

Tank Num: 001
Container Num: T-11
Year Installed: 1969
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: T-12
Year Installed: 1969
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: T-14
Year Installed: 1969
Tank Capacity: 00000550
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Tank Construction: Not reported
Leak Detection: None

Tank Num: 004
Container Num: T-13
Year Installed: 1969
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Leak Detection: Stock Inventor

Tank Num: 005
Container Num: T-1
Year Installed: 1942
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: Not reported
Leak Detection: None

Tank Num: 006
Container Num: T-2
Year Installed: 1966
Tank Capacity: 00000550
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: None

Tank Num: 007
Container Num: T-3
Year Installed: 1942
Tank Capacity: 00000250
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: Not reported
Leak Detection: None

Tank Num: 008
Container Num: T-4
Year Installed: 1968
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 009
Container Num: T-5
Year Installed: 1957
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 010
Container Num: T-6
Year Installed: 1957
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 011

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Container Num: T-7
Year Installed: 1982
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 012
Container Num: T-8
Year Installed: 1981
Tank Capacity: 00000550
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Tank Construction: Not reported
Leak Detection: None

Tank Num: 013
Container Num: T-9
Year Installed: 1981
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 014
Container Num: T-10
Year Installed: 1981
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 015
Container Num: T-15
Year Installed: 1944
Tank Capacity: 00012500
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: Not reported
Leak Detection: None

Tank Num: 016
Container Num: T-16
Year Installed: 1955
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: Not reported
Leak Detection: None

Tank Num: 017
Container Num: T-17
Year Installed: 1954
Tank Capacity: 00008000

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: Not reported
Leak Detection: None

SWEEPS UST:

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000001
Actv Date: Not reported
Capacity: 5000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 25

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000002
Actv Date: Not reported
Capacity: 5000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000003
Actv Date: Not reported
Capacity: 550
Tank Use: OIL
Stg: WASTE
Content: WASTE OIL
Number Of Tanks: Not reported

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000004
Actv Date: Not reported
Capacity: 5000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000005
Actv Date: Not reported
Capacity: 1000
Tank Use: OIL
Stg: PRODUCT
Content: FUEL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000006
Actv Date: Not reported
Capacity: 550
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-063359-000007
Actv Date:	Not reported
Capacity:	250
Tank Use:	OIL
Stg:	PRODUCT
Content:	OIL
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	63359
Number:	Not reported
Board Of Equalization:	44-032063
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-063359-000009
Actv Date:	Not reported
Capacity:	10000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	63359
Number:	Not reported
Board Of Equalization:	44-032063
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-063359-000011
Actv Date:	Not reported
Capacity:	10000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	63359
Number:	Not reported
Board Of Equalization:	44-032063
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-063359-000012
Actv Date:	Not reported
Capacity:	550

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Tank Use: OIL
Stg: WASTE
Content: WASTE OIL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000013
Actv Date: Not reported
Capacity: 2000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000015
Actv Date: Not reported
Capacity: 12500
Tank Use: OIL
Stg: PRODUCT
Content: OIL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000016
Actv Date: Not reported
Capacity: 6000
Tank Use: OIL
Stg: PRODUCT
Content: OIL
Number Of Tanks: Not reported

Status: Not reported

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Comp Number:	63359
Number:	Not reported
Board Of Equalization:	44-032063
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-063359-000017
Actv Date:	Not reported
Capacity:	8000
Tank Use:	PETROLEUM
Stg:	PRODUCT
Content:	FUEL OIL
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	63359
Number:	Not reported
Board Of Equalization:	44-032063
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-063359-000018
Actv Date:	Not reported
Capacity:	500
Tank Use:	OIL
Stg:	WASTE
Content:	WASTE OIL
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	63359
Number:	Not reported
Board Of Equalization:	44-032063
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-063359-000019
Actv Date:	Not reported
Capacity:	550
Tank Use:	OIL
Stg:	WASTE
Content:	WASTE OIL
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	63359
Number:	Not reported
Board Of Equalization:	44-032063
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000020
Actv Date: Not reported
Capacity: 1000
Tank Use: OIL
Stg: PRODUCT
Content: FUEL OIL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000021
Actv Date: Not reported
Capacity: 1000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: GASOLINE TYP
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000022
Actv Date: Not reported
Capacity: 1000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: GASOLINE TYP
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000023
Actv Date: Not reported
Capacity: 1000
Tank Use: OIL

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Stg: PRODUCT
Content: GASOLINE TYP
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000024
Actv Date: Not reported
Capacity: 500
Tank Use: OIL
Stg: PRODUCT
Content: FUEL OIL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000025
Actv Date: Not reported
Capacity: 1000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: GASOLINE TYP
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000026
Actv Date: Not reported
Capacity: 7500
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000027
Actv Date: Not reported
Capacity: 2000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000028
Actv Date: Not reported
Capacity: 1000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: GASOLINE TYP
Number Of Tanks: Not reported

Status: A
Comp Number: 63359
Number: 7
Board Of Equalization: 44-032063
Ref Date: 04-11-93
Act Date: 12-17-93
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 1
Swrcb Tank Id: 01-000-063359-000008
Actv Date: 03-12-90
Capacity: 1000
Tank Use: M.V. FUEL
Stg: P
Content: DIESEL
Number Of Tanks: 13

Status: A
Comp Number: 63359
Number: 7
Board Of Equalization: 44-032063
Ref Date: 04-11-93
Act Date: 12-17-93
Created Date: 02-29-88
Tank Status: A

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Owner Tank Id: 5
Swrcb Tank Id: 01-000-063359-000010
Actv Date: 03-22-90
Capacity: 10000
Tank Use: M.V. FUEL
Stg: P
Content: DIESEL
Number Of Tanks: Not reported

Status: A
Comp Number: 63359
Number: 7
Board Of Equalization: 44-032063
Ref Date: 04-11-93
Act Date: 12-17-93
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 7
Swrcb Tank Id: 01-000-063359-000014
Actv Date: 03-22-90
Capacity: 10000
Tank Use: M.V. FUEL
Stg: P
Content: DIESEL
Number Of Tanks: Not reported

Status: A
Comp Number: 63359
Number: 7
Board Of Equalization: 44-032063
Ref Date: 04-11-93
Act Date: 12-17-93
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 13
Swrcb Tank Id: 01-000-063359-000029
Actv Date: 04-16-93
Capacity: 2000
Tank Use: M.V. FUEL
Stg: P
Content: DIESEL
Number Of Tanks: Not reported

Status: A
Comp Number: 63359
Number: 7
Board Of Equalization: 44-032063
Ref Date: 04-11-93
Act Date: 12-17-93
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 14
Swrcb Tank Id: 01-000-063359-000030
Actv Date: 04-16-93
Capacity: 200
Tank Use: OIL
Stg: W

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Content: WASTE OIL
Number Of Tanks: Not reported

Status: A
Comp Number: 63359
Number: 7
Board Of Equalization: 44-032063
Ref Date: 04-11-93
Act Date: 12-17-93
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 2
Swrcb Tank Id: 01-000-063359-000031
Actv Date: 03-12-90
Capacity: 550
Tank Use: M.V. FUEL
Stg: P
Content: DIESEL
Number Of Tanks: Not reported

Status: A
Comp Number: 63359
Number: 7
Board Of Equalization: 44-032063
Ref Date: 04-11-93
Act Date: 12-17-93
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 3
Swrcb Tank Id: 01-000-063359-000032
Actv Date: 03-13-90
Capacity: 10000
Tank Use: M.V. FUEL
Stg: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: A
Comp Number: 63359
Number: 7
Board Of Equalization: 44-032063
Ref Date: 04-11-93
Act Date: 12-17-93
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 4
Swrcb Tank Id: 01-000-063359-000033
Actv Date: 03-13-90
Capacity: 10000
Tank Use: M.V. FUEL
Stg: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: A
Comp Number: 63359
Number: 7

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Board Of Equalization: 44-032063
Ref Date: 04-11-93
Act Date: 12-17-93
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 6
Swrcb Tank Id: 01-000-063359-000034
Actv Date: 03-12-90
Capacity: 550
Tank Use: OIL
Stg: W
Content: WASTE OIL
Number Of Tanks: Not reported

Status: A
Comp Number: 63359
Number: 7
Board Of Equalization: 44-032063
Ref Date: 04-11-93
Act Date: 12-17-93
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 8
Swrcb Tank Id: 01-000-063359-000035
Actv Date: 03-13-90
Capacity: 1000
Tank Use: M.V. FUEL
Stg: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: A
Comp Number: 63359
Number: 7
Board Of Equalization: 44-032063
Ref Date: 04-11-93
Act Date: 12-17-93
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 9
Swrcb Tank Id: 01-000-063359-000036
Actv Date: 03-12-90
Capacity: 6000
Tank Use: M.V. FUEL
Stg: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: A
Comp Number: 63359
Number: 7
Board Of Equalization: 44-032063
Ref Date: 04-11-93
Act Date: 12-17-93
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 10

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Swrcb Tank Id: 01-000-063359-000037
Actv Date: 03-12-90
Capacity: 6000
Tank Use: M.V. FUEL
Stg: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: A
Comp Number: 63359
Number: 7
Board Of Equalization: 44-032063
Ref Date: 04-11-93
Act Date: 12-17-93
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 11
Swrcb Tank Id: 01-000-063359-000038
Actv Date: 03-12-90
Capacity: 550
Tank Use: OIL
Stg: W
Content: WASTE OIL
Number Of Tanks: Not reported

HAZNET:
Year: 2004
Gepaid: CA4210020661
Contact: ROGER CASWELL/BEC
Telephone: 5109862871
Mailing Name: Not reported
Mailing Address: 700 MURMANSK ST STE 3
Mailing City,St,Zip: OAKLAND, CA 946070000
Gen County: Alameda
TSD EPA ID: CAT080033681
TSD County: Los Angeles
Waste Category: Unspecified organic liquid mixture
Disposal Method: T01
Tons: 0.39
Facility County: Not reported

Y77
NW
1/4-1/2
0.452 mi.
2387 ft.

Relative:
Lower

Actual:
9 ft.

PORT OF OAKLAND YUSEN TERMINAL
1195 MARITIME
OAKLAND, CA 94607

WDS **S103472375**
LUST **N/A**

Site 1 of 3 in cluster Y

CA WDS:
Facility ID: San Francisco Bay 01I004999
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.

PORT OF OAKLAND YUSEN TERMINAL (Continued) **S103472375**

NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	2
Facility Telephone:	5108912900
Facility Contact:	MICHAEL OGIEGLO
Agency Name:	CENTENNIAL SERVICES
Agency Address:	1195 Maritime St
Agency City,St,Zip:	Oakland 946071027
Agency Contact:	MICHAEL OGIEGLO
Agency Telephone:	5108912900
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

LUST:

Region:	STATE
Global Id:	T0600100864
Latitude:	37.8126882
Longitude:	-122.3110461
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/10/1997
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	JE
Local Agency:	Not reported
RB Case Number:	01-0939
LOC Case Number:	RO0000926
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0600100864
Contact Type:	Regional Board Caseworker

PORT OF OAKLAND YUSEN TERMINAL (Continued) **S103472375**

Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0600100864
Action Type:	REMEDIATION
Date:	1950-01-01 00:00:00
Action:	Excavate and Treat
Global Id:	T0600100864
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Reported

LUST REG 2:

Region:	2
Facility Id:	01-0939
Facility Status:	Case Closed
Case Number:	4013
How Discovered:	Tank Closure
Leak Cause:	Structure Failure
Leak Source:	Tank
Date Leak Confirmed:	8/22/1996
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

Y78 **NW** **1/4-1/2** **0.452 mi.** **2387 ft.**	**STEVEDORING SVCS OF AMERI** **1195 MARITIME** **OAKLAND, CA** **Site 2 of 3 in cluster Y**	**HIST CORTESE** **CHMIRS**	**S100276783** **N/A**

Relative:
Lower

Actual:
9 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-0939

CHMIRS:

OES Incident Number:	9100503
OES notification:	Not reported
OES Date:	Not reported
OES Time:	Not reported
Incident Date:	04-JUN-91
Date Completed:	**04-JUN-91**
Property Use:	942

STEVEDORING SVCS OF AMERI (Continued) **S100276783**

Agency Id Number: 1075
Agency Incident Number: 9115671
Time Notified: 2006
Time Completed: 2100
Surrounding Area: 942
Estimated Temperature: Not reported
Property Management: Not reported
Special Studies 1: Not reported
Special Studies 2: Not reported
Special Studies 3: Not reported
Special Studies 4: Not reported
Special Studies 5: Not reported
Special Studies 6: Not reported
More Than Two Substances Involved?: N
Resp Agncy Personel # Of Decontaminated: 0
Responding Agency Personel # Of Injuries: 0
Responding Agency Personel # Of Fatalities: 0
Others Number Of Decontaminated: 0
Others Number Of Injuries: 0
Others Number Of Fatalities: 0
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA/DOT/PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: DAVID FLETCHER
Report Date: 04-JUN-91
Comments: Y
Facility Telephone: 415 273-3856
Waterway Involved: Not reported
Waterway: Not reported
Spill Site: Not reported
Cleanup By: Not reported
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 88-92
Agency: Not reported
Incident Date: Not reported
Admin Agency: Not reported
Amount: Not reported
Contained: Not reported
Site Type: Not reported
E Date: 08-JUL-92
Substance: Not reported
Quantity Released: Not reported
BBLS: Not reported
Cups: Not reported
CUFT: Not reported
Gallons: Not reported
Grams: Not reported
Pounds: Not reported
Liters: Not reported

STEVEDORING SVCS OF AMERI (Continued) **S100276783**

Ounces:	Not reported
Pints:	Not reported
Quarts:	Not reported
Sheen:	Not reported
Tons:	Not reported
Unknown:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
Description:	Not reported

Y79
NW
1/4-1/2
0.452 mi.
2387 ft.

Relative:
Lower

Actual:
9 ft.

STEVEDORING SERVICES OF AMERIC
1195 MARITIME ST
OAKLAND, CA 94607

Site 3 of 3 in cluster Y

CA FID UST
Alameda County CS
HIST UST
SWEEPS UST
CHMIRS
HAZNET

1000429794
N/A

CA FID UST:

Facility ID:	01001061
Regulated By:	UTNKA
Regulated ID:	00059963
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4152711856
Mail To:	Not reported
Mailing Address:	1195 MARITIME ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	OAKLAND 94607
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

Alameda County CS:

Status:	Case Closed
Record Id:	RO0000926
PE:	5602

HIST UST:

Region:	STATE
Facility ID:	00000059963
Facility Type:	Other
Other Type:	SHIPPING
Total Tanks:	0003
Contact Name:	Not reported
Telephone:	4152711856
Owner Name:	PORT OF OAKLAND
Owner Address:	66 JACK LONDAON SQUARE
Owner City,St,Zip:	OAKLAND, CA 94607

Tank Num:	001
Container Num:	1
Year Installed:	1978

STEVEDORING SERVICES OF AMERIC (Continued) **1000429794**

Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 2
Year Installed: 1978
Tank Capacity: 00004000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 3
Year Installed: 1978
Tank Capacity: 00000550
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Tank Construction: Not reported
Leak Detection: None

SWEEPS UST:
Status: Not reported
Comp Number: 59963
Number: Not reported
Board Of Equalization: 44-000568
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-059963-000001
Actv Date: Not reported
Capacity: 10000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: DIESEL
Number Of Tanks: 3

Status: Not reported
Comp Number: 59963
Number: Not reported
Board Of Equalization: 44-000568
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-059963-000002
Actv Date: Not reported
Capacity: 4000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED

STEVEDORING SERVICES OF AMERIC (Continued) **1000429794**

Number Of Tanks: Not reported

Status: Not reported
Comp Number: 59963
Number: Not reported
Board Of Equalization: 44-000568
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-059963-000003
Actv Date: Not reported
Capacity: 500
Tank Use: OIL
Stg: WASTE
Content: WASTE OIL
Number Of Tanks: Not reported

Status: A
Comp Number: 59963
Number: 1
Board Of Equalization: 44-000568
Ref Date: 08-31-93
Act Date: 04-29-94
Created Date: 02-29-88
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: Not reported
Actv Date: Not reported
Capacity: Not reported
Tank Use: Not reported
Stg: Not reported
Content: Not reported
Number Of Tanks: Not reported

CHMIRS:
OES Incident Number: 1962
OES notification: Not reported
OES Date: 4/28/1994
OES Time: 02:19:04 PM
Incident Date: Not reported
Date Completed: Not reported
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
Special Studies 1: Not reported
Special Studies 2: Not reported
Special Studies 3: Not reported
Special Studies 4: Not reported
Special Studies 5: Not reported
Special Studies 6: Not reported

STEVEDORING SERVICES OF AMERIC (Continued) **1000429794**

More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA/DOT/PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Comments:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	YES
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	rydal enviromental
Containment:	Not reported
What Happened:	Not reported
Type:	CHEMICAL
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1994
Agency:	oakland fd
Incident Date:	28/1249apr94
Admin Agency:	Not reported
Amount:	55gal barrel unknown amt
Contained:	NO
Site Type:	OTHER
E Date:	Not reported
Substance:	un # 3083 solvess 200 exxon product
Quantity Released:	Not reported
BBLS:	Not reported
Cups:	Not reported
CUFT:	Not reported
Gallons:	Not reported
Grams:	Not reported
Pounds:	Not reported
Liters:	Not reported
Ounces:	Not reported
Pints:	Not reported
Quarts:	Not reported
Sheen:	Not reported
Tons:	Not reported
Unknown:	Not reported
Evacuations:	NO
Number of Injuries:	NO
Number of Fatalities:	NO
Description:	found off the street on dock area ,sealand notified coast guard who in turned notified fd , rydal enviromental owns barrel. unknown as to how much leaked from barrel.

STEVEDORING SERVICES OF AMERIC (Continued) **1000429794**

HAZNET:
Year: 2003
Gepaid: CAD064164676
Contact: PAUL VELLA
Telephone: 5104331800
Mailing Name: Not reported
Mailing Address: ONE MARKET STREET
Mailing City,St,Zip: OAKLAND, CA 946072948
Gen County: Alameda
TSD EPA ID: CAD980887418
TSD County: Alameda
Waste Category: Waste oil and mixed oil
Disposal Method: R01
Tons: 0.79
Facility County: 1

Year: 2000
Gepaid: CAC002277681
Contact: SALVAY MINERAL
Telephone: 3078726570
Mailing Name: Not reported
Mailing Address: 3333 RICHMOND AVE
Mailing City,St,Zip: HUSTON, TX 770981027
Gen County: 1
TSD EPA ID: CAT080014079
TSD County: 7
Waste Category: Other inorganic solid waste
Disposal Method: H01
Tons: 1.0000
Facility County: 1

Year: 2000
Gepaid: CAD064164676
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 2321 W WASHINGTON ST RMH
Mailing City,St,Zip: STOCKTON, CA 952032948
Gen County: 1
TSD EPA ID: CAD028409019
TSD County: Los Angeles
Waste Category: Unspecified oil-containing waste
Disposal Method: H01
Tons: .6500
Facility County: 1

Year: 1999
Gepaid: CAD064164676
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 2321 W WASHINGTON ST RMH
Mailing City,St,Zip: STOCKTON, CA 952032948
Gen County: 1
TSD EPA ID: CAD028409019
TSD County: Los Angeles
Waste Category: Unspecified oil-containing waste

STEVEDORING SERVICES OF AMERIC (Continued) **1000429794**

Disposal Method:	H01
Tons:	0.2
Facility County:	1
Year:	1999
Gepaid:	CAD064164676
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	2321 W WASHINGTON ST RMH
Mailing City,St,Zip:	STOCKTON, CA 952032948
Gen County:	1
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles
Waste Category:	Off-specification, aged or surplus organics
Disposal Method:	T01
Tons:	0.2293
Facility County:	1

Click this hyperlink while viewing on your computer to access
10 additional CA_HAZNET: record(s) in the EDR Site Report.

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80 **NE** **1/4-1/2** **0.453 mi.** **2393 ft.**	**UTILITY TRUCK BODIES** **1530 WOOD ST** **OAKLAND, CA 94607**	**HIST CORTESE** **LUST** **Alameda County CS**	**1001264713** **N/A**

Relative:
Lower

Actual:
12 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1832

LUST:

Region:	STATE
Global Id:	T0600101698
Latitude:	37.814239
Longitude:	-122.296496
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	04/30/2002
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	BC
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-1832
LOC Case Number:	RO0000024
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0600101698
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou

UTILITY TRUCK BODIES (Continued) **1001264713**

Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported
Global Id:	T0600101698
Contact Type:	Local Agency Caseworker
Contact Name:	BARNEY CHAN
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	Not reported
Phone Number:	5105676765

LUST:

Global Id:	T0600101698
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Discovery
Global Id:	T0600101698
Action Type:	REMEDIATION
Date:	1950-01-01 00:00:00
Action:	Excavate and Dispose
Global Id:	T0600101698
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Reported
Global Id:	T0600101698
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Began

LUST REG 2:

Region:	2
Facility Id:	01-1832
Facility Status:	Preliminary site assessment underway
Case Number:	3875
How Discovered:	Tank Closure
Leak Cause:	UNK
Leak Source:	Tank
Date Leak Confirmed:	7/21/1993
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	1/2/1965
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

Alameda County CS:

Status:	Case Closed

UTILITY TRUCK BODIES (Continued) **1001264713**

Record Id: RO0000024
PE: 5602

81
SSE
1/4-1/2
0.459 mi.
2424 ft.

CYPRESS FREEWAY-3RD STREET SOUNDWALL
3RD STREET BETWEEN CENTER AND PERALTA ST
OAKLAND, CA 94607

VCP
ENVIROSTOR

S106568168
N/A

Relative:
Lower

Actual:
12 ft.

VCP:
Facility ID: 01400012
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1.6
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: LYNN NAKASHIMA
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Site Code: 200939
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified
Status Date: 06/30/1998
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.8029 / -122.2986
APN: NONE SPECIFIED
Past Use: RAILROAD RIGHT OF WAY
Potential COC: 30013, 30018, 30024, 30309
Confirmed COC: 30018-NO,30024-NO,30309-NO,30013-NO
Potential Description: SOIL
Alias Name: CYPREES FREEWAY-3RD STREET SOUNDWALL
Alias Type: Alternate Name
Alias Name: CYPRESS FREEWAY/SOUNDWALL
Alias Type: Alternate Name
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: THIRD STREET SOUNDWALL, CYPRESS FREEWAY RECONSTRUCTION PROJECT
Alias Type: Alternate Name
Alias Name: 110033616601
Alias Type: EPA (FRS #)
Alias Name: 200939
Alias Type: Project Code (Site Code)
Alias Name: 01400012
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 04/02/1998
Comments: Not reported

CYPRESS FREEWAY-3RD STREET SOUNDWALL (Continued) **S106568168**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 05/22/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 04/02/1997
Comments: Fact Sheet announcing public comment for a draft Removal Action Workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/30/1998
Comments: SITE CERTIFICATION - The Department has determined that all appropriate response actions have been completed, that all acceptable engineering practices were implemented and that no further removal/remedial action is necessary.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 1.6
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: LYNN NAKASHIMA
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Facility ID: 01400012
Site Code: 200939
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program
Status: Certified
Status Date: 06/30/1998
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED

CYPRESS FREEWAY-3RD STREET SOUNDWALL (Continued) **S106568168**

Funding:	Responsible Party
Latitude:	37.8029
Longitude:	-122.2986
APN:	NONE SPECIFIED
Past Use:	RAILROAD RIGHT OF WAY
Potential COC:	30013, 30018, 30024, 30309
Confirmed COC:	30018-NO,30024-NO,30309-NO,30013-NO
Potential Description:	SOIL
Alias Name:	CYPREES FREEWAY-3RD STREET SOUNDWALL
Alias Type:	Alternate Name
Alias Name:	CYPRESS FREEWAY/SOUNDWALL
Alias Type:	Alternate Name
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	THIRD STREET SOUNDWALL, CYPRESS FREEWAY RECONSTRUCTION PROJECT
Alias Type:	Alternate Name
Alias Name:	110033616601
Alias Type:	EPA (FRS #)
Alias Name:	200939
Alias Type:	Project Code (Site Code)
Alias Name:	01400012
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	04/02/1998
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	05/22/1997
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	04/02/1997
Comments:	Fact Sheet announcing public comment for a draft Removal Action Workplan.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/30/1998
Comments:	SITE CERTIFICATION - The Department has determined that all appropriate response actions have been completed, that all acceptable engineering practices were implemented and that no further removal/remedial action is necessary.

CYPRESS FREEWAY-3RD STREET SOUNDWALL (Continued) **S106568168**

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

82
NW
1/4-1/2
0.469 mi.
2474 ft.

PORT OF OAKLAND - FORMER OAKLAND ARMY BASE
MARITIME STREET AND 14TH STREET
OAKLAND, CA 94607

Cortese
RESPONSE
ENVIROSTOR

S108484718
N/A

Relative:
Lower

Actual:
9 ft.

Cortese:
Region: CORTESE
Envirostor Id: 80001200
Site/Facility Type: STATE RESPONSE
Cleanup Status: CERTIFIED / OPERATION & MAINTENANCE
Status Date: 6/25/2009
Site Code: 201742
Latitude: 37.814276
Longitude: -122.306639
EPA Id: Not reported
Owner: Not reported
Enf Type: Not reported
Effective Date: Not reported
Order No: Not reported
Region: Not reported
WDID: Not reported
Swat R: Not reported
Waste Discharger System Num: Not reported
Solid Waste Id Num: Not reported
Waste Management Unit Name: Not reported
Agency Name: Not reported

RESPONSE:
Facility ID: 80001200
Site Type: State Response
Site Type Detail: Closed Base
Acres: 6.76
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: HENRY WONG
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 201742
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 16
Senate: 09
Special Program Status: Voluntary Cleanup Program
Status: Certified / Operation & Maintenance
Status Date: 06/25/2009

PORT OF OAKLAND - FORMER OAKLAND ARMY BASE (Continued) **S108484718**

Restricted Use:	NO
Funding:	Other Non-Military Funds
Latitude:	37.814276
Longitude:	-122.306639
APN:	NONE SPECIFIED
Past Use:	DEGREASING FACILITY, OFFICE BUILDING, UNKNOWN, TRANSPORTATION - WAREHOUSING
Potential COC:	30001, 30013, 30019, 30024, 30025, 3002502
Confirmed COC:	30001,30013,30019,30024,30025,3002502
Potential Description:	OTH, SOIL
Alias Name:	201742
Alias Type:	Project Code (Site Code)
Alias Name:	71000002
Alias Type:	Envirostor ID Number
Alias Name:	80001200
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	01/28/2009
Comments:	The Port of Oakland submitted the 1/22/09 Annual Report pursuant to the Covenant to Restrict Use of Property, Environmental Restriction (LUC). Site inspection was conducted on 1/8/09 and the site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and concurred with the 1/22/09 Annual Report.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	03/29/2010
Comments:	The Port of Oakland submitted the 3/26/10 Annual Report pursuant to the "Covenant to Restrict Use of Property, Environmental Restriction" (LUC) for the Oakland United States Army Reserve Center #2, Parcel 18 and Subparcels 19 and 21, Former Oakland Army Base. DTSC conducted site inspection on 3/22/10; and the Port conducted site inspection on 3/22/10 and 3/26/10. The site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since the Port acquired the property on 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and hereby concurs with the 3/26/10 Annual Report.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	03/01/2011
Comments:	The Port of Oakland submitted the 1/6/11 Annual Report pursuant to the "Covenant to Restrict Use of Property, Environmental Restriction" (LUC) for the Oakland United States Army Reserve Center #2, Parcel 18 and Subparcels 19 and 21, Former Oakland Army Base. The Port conducted site inspection on 1/6/11 and confirmed that the site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the

PORT OF OAKLAND - FORMER OAKLAND ARMY BASE (Continued) **S108484718**

LUC had occurred since the Port acquired the property on 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and hereby concurs with the 1/6/11 Annual Report.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	03/29/2010
Comments:	The Port of Oakland submitted the 3/26/10 Annual Report pursuant to the "Covenant to Restrict Use of Property, Environmental Restriction" (LUC) for the Oakland United States Army Reserve Center #2, Parcel 18 and Subparcels 19 and 21, Former Oakland Army Base. DTSC conducted site inspection on 3/22/10; and the Port conducted site inspection on 3/22/10 and 3/26/10. The site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since the Port acquired the property on 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and hereby concurs with the 3/26/10 Annual Report.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	01/28/2009
Comments:	The Port of Oakland submitted the 1/22/09 Annual Report pursuant to the Covenant to Restrict Use of Property, Environmental Restriction (LUC). Site inspection was conducted on 1/8/09 and the site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and concurred with the 1/22/09 Annual Report.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Basewide
Schedule Sub Area Name:	Not reported
Schedule Document Type:	5 Year Review Reports
Schedule Due Date:	3/31/2012
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	State Response
Site Type Detailed:	Closed Base
Acres:	6.76
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	HENRY WONG
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	80001200
Site Code:	201742
Assembly:	16

PORT OF OAKLAND - FORMER OAKLAND ARMY BASE (Continued) **S108484718**

Senate: 09
Special Program: Voluntary Cleanup Program
Status: Certified / Operation & Maintenance
Status Date: 06/25/2009
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Other Non-Military Funds
Latitude: 37.814276
Longitude: -122.306639
APN: NONE SPECIFIED
Past Use: DEGREASING FACILITY, OFFICE BUILDING, UNKNOWN, TRANSPORTATION - WAREHOUSING
Potential COC: 30001, 30013, 30019, 30024, 30025, 3002502
Confirmed COC: 30001,30013,30019,30024,30025,3002502
Potential Description: OTH, SOIL
Alias Name: 201742
Alias Type: Project Code (Site Code)
Alias Name: 71000002
Alias Type: Envirostor ID Number
Alias Name: 80001200
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 01/28/2009
Comments: The Port of Oakland submitted the 1/22/09 Annual Report pursuant to the Covenant to Restrict Use of Property, Environmental Restriction (LUC). Site inspection was conducted on 1/8/09 and the site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and concurred with the 1/22/09 Annual Report.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 03/29/2010
Comments: The Port of Oakland submitted the 3/26/10 Annual Report pursuant to the "Covenant to Restrict Use of Property, Environmental Restriction" (LUC) for the Oakland United States Army Reserve Center #2, Parcel 18 and Subparcels 19 and 21, Former Oakland Army Base. DTSC conducted site inspection on 3/22/10; and the Port conducted site inspection on 3/22/10 and 3/26/10. The site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since the Port acquired the property on 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and hereby concurs with the 3/26/10 Annual Report.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 03/01/2011
Comments: The Port of Oakland submitted the 1/6/11 Annual Report pursuant to the "Covenant to Restrict Use of Property, Environmental Restriction"

PORT OF OAKLAND - FORMER OAKLAND ARMY BASE (Continued) **S108484718**

(LUC) for the Oakland United States Army Reserve Center #2, Parcel 18 and Subparcels 19 and 21, Former Oakland Army Base. The Port conducted site inspection on 1/6/11 and confirmed that the site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since the Port acquired the property on 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and hereby concurs with the 1/6/11 Annual Report.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	03/29/2010
Comments:	The Port of Oakland submitted the 3/26/10 Annual Report pursuant to the "Covenant to Restrict Use of Property, Environmental Restriction" (LUC) for the Oakland United States Army Reserve Center #2, Parcel 18 and Subparcels 19 and 21, Former Oakland Army Base. DTSC conducted site inspection on 3/22/10; and the Port conducted site inspection on 3/22/10 and 3/26/10. The site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since the Port acquired the property on 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and hereby concurs with the 3/26/10 Annual Report.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	01/28/2009
Comments:	The Port of Oakland submitted the 1/22/09 Annual Report pursuant to the Covenant to Restrict Use of Property, Environmental Restriction (LUC). Site inspection was conducted on 1/8/09 and the site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and concurred with the 1/22/09 Annual Report.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Basewide
Schedule Sub Area Name:	Not reported
Schedule Document Type:	5 Year Review Reports
Schedule Due Date:	3/31/2012
Schedule Revised Date:	Not reported

83 **SE** **1/4-1/2** **0.471 mi.** **2487 ft.**	**RELIABLE HANDI CAR** **1520 7TH** **OAKLAND, CA 94607**	**HIST CORTESE** **LUST** **Alameda County CS**	**U003713129** **N/A**

Relative:
Equal

Actual:
14 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1234

LUST:

Region:	STATE
Global Id:	T0600101133
Latitude:	37.80587
Longitude:	-122.296286
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	06/14/1995
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	EC
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-1234
LOC Case Number:	RO0001137
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0600101133
Contact Type:	Local Agency Caseworker
Contact Name:	EVA CHU
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	Not reported
Phone Number:	5105676762
Global Id:	T0600101133
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0600101133
Action Type:	REMEDIATION
Date:	1950-01-01 00:00:00
Action:	Excavate and Dispose
Global Id:	T0600101133
Action Type:	Other

RELIABLE HANDI CAR (Continued) **U003713129**

Date: 1950-01-01 00:00:00
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: 01-1234
Facility Status: Case Closed
Case Number: 3703
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 3/5/1992
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Case Closed
Record Id: RO0001137
PE: 5602

Z84
ENE
1/4-1/2
0.489 mi.
2580 ft.

BASF CORPORATION
1545 WILLOW
OAKLAND, CA 94607

HIST CORTESE **S101629611**
N/A

Site 1 of 4 in cluster Z

Relative:
Lower

Actual:
12 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0152

Z85
ENE
1/4-1/2
0.489 mi.
2580 ft.

BASF CORPORATION
1545 WILLOW ST
OAKLAND, CA 94607

RCRA-NonGen **1000226859**
FINDS **CAD009122912**
LUST
Alameda County CS

Site 2 of 4 in cluster Z

Relative:
Lower

Actual:
12 ft.

RCRA-NonGen:
Date form received by agency: 10/15/1999
Facility name: BASF CORPORATION
Facility address: 1545 WILLOW ST
OAKLAND, CA 94607
EPA ID: CAD009122912
Mailing address: P O BOX 23344
OAKLAND, CA 94607
Contact: JENNIFER INFANTINO
Contact address: 3000 N CONTINENTAL DR
MT OLIVE, NJ 178281234

BASF CORPORATION (Continued) **1000226859**

Contact country:	US
Contact telephone:	(973) 426-2600
Contact email:	Not reported
EPA Region:	09
Land type:	Other land type
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	BASF CORPORATION
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	09/01/1996
Facility name:	BASF CORPORATION
Classification:	Small Quantity Generator

Violation Status:	No violations found

Evaluation Action Summary:

Evaluation date:	10/29/1992

BASF CORPORATION (Continued) **1000226859**

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 02/25/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

FINDS:

Registry ID: 110009528957

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

LUST:
Region: STATE
Global Id: T0600100141
Latitude: 37.81382
Longitude: -122.296089
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 11/04/1994
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker: CCM
Local Agency: Not reported
RB Case Number: 01-0152
LOC Case Number: 01-0152
File Location: Not reported
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: * Solvents
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0600100141
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0600100141
Action Type: Other

BASF CORPORATION (Continued) **1000226859**

Date: 1950-01-01 00:00:00
Action: Leak Reported

Global Id: T0600100141
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Discovery

Global Id: T0600100141
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Stopped

Global Id: T0600100141
Action Type: ENFORCEMENT
Date: 1994-11-04 00:00:00
Action: Closure/No Further Action Letter

LUST REG 2:
Region: 2
Facility Id: 01-0152
Facility Status: Case Closed
Case Number: 01-0152
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Case Closed
Record Id: RO0002956
PE: 5602

Z86 **BASF CORPORATION** **ENVIROSTOR** **S108054495**
ENE **1545 WILLOW STREET** **N/A**
1/4-1/2 **OAKLAND, CA 94607**
0.489 mi.
2580 ft. **Site 3 of 4 in cluster Z**

Relative:
Lower

Actual:
12 ft.

ENVIROSTOR:
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 1
NPL: NO
Regulatory Agencies: RWQCB 2 - San Francisco Bay, ALAMEDA COUNTY
Lead Agency: RWQCB 2 - San Francisco Bay
Program Manager: REMEDIOS SUNGA
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley

BASF CORPORATION (Continued) **S108054495**

Facility ID:	60000360
Site Code:	Not reported
Assembly:	16
Senate:	09
Special Program:	EPA - PASI
Status:	Refer: RWQCB
Status Date:	03/27/2007
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	37.8138184544349
Longitude:	-122.296079380333
APN:	7-556-2
Past Use:	MANUFACTURING - OTHER
Potential COC:	30024, 30025, 30028, 30195, 30196
Confirmed COC:	30024,30025,30028,30195,30196
Potential Description:	OTH, SOIL
Alias Name:	7-556-2
Alias Type:	APN
Alias Name:	SLT19763584
Alias Type:	GeoTracker Global ID
Alias Name:	T0600100141
Alias Type:	GeoTracker Global ID
Alias Name:	60000360
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	03/27/2007
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Z87
ENE
1/4-1/2
0.489 mi.
2580 ft.

BASF CORPORATION
1545 WILLOW
OAKLAND, CA 94607

Site 4 of 4 in cluster Z

LUST **S108997019**
N/A

Relative:
Lower

Actual:
12 ft.

LUST:

Region:	STATE
Global Id:	SLT19763584
Latitude:	37.813624
Longitude:	-122.295792
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	11/04/1994
Lead Agency:	ALAMEDA COUNTY LOP

BASF CORPORATION (Continued) **S108997019**

Case Worker: ML
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: NA
LOC Case Number: RO0002956
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: * Solvents
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: SLT19763584
Contact Type: Local Agency Caseworker
Contact Name: MADHULLA LOGAN
Organization Name: ALAMEDA COUNTY LOP
Address: 1131 HARBOR BAY PARKWAY
City: ALAMEDA
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: SLT19763584
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

Global Id: SLT19763584
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Discovery

88
West
1/2-1
0.501 mi.
2647 ft.

FORMER PAKER WAREHOUSE
801 MARITIME
OAKLAND, CA 92626

HIST CORTESE
LUST
Notify 65

S100178945
N/A

Relative:
Lower

Actual:
8 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1199

LUST:
Region: STATE
Global Id: T0600101102
Latitude: 37.810178
Longitude: -122.313262
Case Type: LUST Cleanup Site
Status: Open - Site Assessment
Status Date: 07/15/1996
Lead Agency: ALAMEDA COUNTY LOP
Case Worker: PK
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: 01-1199

FORMER PAKER WAREHOUSE (Continued) **S100178945**

LOC Case Number:	RO0000019
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel
Site History:	Three USTs and approximately 120 linear feet of piping were removed from the site on February 16, 1989. The tank pit was over-excavated with approximately 1,500 cubic yards of soil treated onsite removed from the excavation. One groundwater monitoring well was installed at the site in July 1996. Additional site investigations were in conducted in 2007 and 2008.

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0600101102
Contact Type:	Local Agency Caseworker
Contact Name:	PARESH KHATRI
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	Not reported
Phone Number:	5107772478
Global Id:	T0600101102
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0600101102
Action Type:	RESPONSE
Date:	2010-08-23 00:00:00
Action:	Fact Sheets - Public Participation
Global Id:	T0600101102
Action Type:	RESPONSE
Date:	2010-10-25 00:00:00
Action:	Well Destruction Report
Global Id:	T0600101102
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Discovery
Global Id:	T0600101102
Action Type:	ENFORCEMENT
Date:	2010-07-22 00:00:00
Action:	Staff Letter - #20100722
Global Id:	T0600101102
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Stopped

FORMER PAKER WAREHOUSE (Continued) **S100178945**

Global Id:	T0600101102
Action Type:	REMEDIATION
Date:	1950-01-01 00:00:00
Action:	Excavate and Treat
Global Id:	T0600101102
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Reported
Global Id:	T0600101102
Action Type:	ENFORCEMENT
Date:	2009-07-24 00:00:00
Action:	Staff Letter - #20090724
Global Id:	T0600101102
Action Type:	ENFORCEMENT
Date:	2008-07-28 00:00:00
Action:	Technical Correspondence / Assistance / Other - #07/28/2008

LUST REG 2:

Region:	2
Facility Id:	01-1199
Facility Status:	Post remedial action monitoring
Case Number:	3780
How Discovered:	Tank Closure
Leak Cause:	Structure Failure
Leak Source:	Tank
Date Leak Confirmed:	Not reported
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	4/21/1989
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	3/20/1992

Notify 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Incident Description:	92626

89
SE
1/2-1
0.544 mi.
2870 ft.

WEST OAKLAND BART STATION SITE
1451 7TH STREET
OAKLAND, CA 94607

ENVIROSTOR **S107737601**
N/A

Relative:
Equal

Actual:
14 ft.

ENVIROSTOR:

Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	3.5
NPL:	NO

WEST OAKLAND BART STATION SITE (Continued) **S107737601**

Regulatory Agencies: SMBRP, US EPA
Lead Agency: SMBRP
Program Manager: KATHARINE HILF
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 70000133
Site Code: 201636
Assembly: 16
Senate: 09
Special Program: EPA - Target Site Investigation
Status: Refer: Local Agency
Status Date: 10/15/2007
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: EPA Grant
Latitude: 37.8045574352606
Longitude: -122.29450705582
APN: 004-0071-003-00, 004-0077-003-00
Past Use: UNKNOWN
Potential COC: 31001
Confirmed COC: NONE SPECIFIED
Potential Description: UE
Alias Name: West Oakland BART Parking Lot
Alias Type: Alternate Name
Alias Name: 004-0071-003-00
Alias Type: APN
Alias Name: 004-0077-003-00
Alias Type: APN
Alias Name: 201636
Alias Type: Project Code (Site Code)
Alias Name: 70000133
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 04/16/2007
Comments: EPA letter dated April 2,2007 states that all concerns and comments have been adequately addresses by the current revision. The document(Sampling and Analysis Plan) is approved by EPA QA Office.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 05/06/2007
Comments: Sampled April 28, 29 and May 6, 2007. Fieldwork completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 10/15/2007
Comments: Report concluded that some contamination exists on site under the parking lot. Petroleum hydrocarbons in the form of diesel and motor oil, arsenic above background, lead, pcbs, and gasoline in one groundwater sample were found above screening levels.

Completed Area Name: PROJECT WIDE

WEST OAKLAND BART STATION SITE (Continued) **S107737601**

Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	02/28/2006
Comments:	Contract issued.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	11/13/2006
Comments:	Approved as amended.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	05/09/2006
Comments:	Phase I report for the West Oakland BART Station done by Levine Fricke for the City of Oakland. Not reviewed or approved by DTSC. Submitted as background information for the site.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

AA90 **SP, W.OAKLAND YD.-(OILY WASTE)** **Toxic Pits** **S100676226**
NE **1707 WOOD STREET** **N/A**
1/2-1 **OAKLAND, CA 94607**
0.549 mi.
2899 ft. **Site 1 of 4 in cluster AA**

Relative:
Lower

Actual:
11 ft.

Toxic Pits:

Region:	02
Task #:	82010
Owner:	SOUTHERN PACIFIC TRANS. CO.
1/2 Mi Limit:	Y
Num. of Pits:	4
Cease Discharge Due:	09/02/92
Cease Discharge Complete:	/ /
Closure Due:	09/02/92
Closure Completed:	**04/21/93**
Status:	CLOSED
Hydro Geological Assessment Report Due:	/ /
Final Hydro Geological Assessment Review Completed:	/ /

AA91 **SP, W.OAKLAND YARD-(WASHWATER)** **Toxic Pits** **S100676234**
NE **1707 WOOD STREET** **N/A**
1/2-1 **OAKLAND, CA 94607**
0.549 mi.
2899 ft. **Site 2 of 4 in cluster AA**

Relative:
Lower

Actual:
11 ft.

Toxic Pits:
Region: 02
Task #: 82034
Owner: SOUTHERN PACIFIC TRANS. CO.
1/2 Mi Limit: Y
Num. of Pits: 2
Cease Discharge Due: / /
Cease Discharge Complete: 01/16/88
Closure Due: 09/30/90
Closure Completed: 06/30/92
Status: CLOSED
Hydro Geological Assessment Report Due: / /
Final Hydro Geological Assessment Review Completed: 10/17/89

AA92 **SOUTHERN PACIFIC TRANSPORTATION CO** **FTTS** **1004444105**
NE **1707 WOOD ST** **HIST FTTS** **N/A**
1/2-1 **OAKLAND, CA 94607** **FINDS**
0.549 mi. **SLIC**
2899 ft. **Site 3 of 4 in cluster AA** **RESPONSE**
ENVIROSTOR

Relative:
Lower

Actual:
11 ft.

FTTS INSP:
Inspection Number: 1989042600991 1
Region: 09
Inspection Date: 04/26/89
Inspector: ELLISON
Violation occurred: No
Investigation Type: Section 6 PCB Federal Conducted
Investigation Reason: Neutral Scheme, Region
Legislation Code: TSCA
Facility Function: User

HIST FTTS INSP:
Inspection Number: 1989042600991 1
Region: 09
Inspection Date: Not reported
Inspector: ELLISON
Violation occurred: No
Investigation Type: Section 6 PCB Federal Conducted
Investigation Reason: Neutral Scheme, Region
Legislation Code: TSCA
Facility Function: User

FINDS:

Registry ID: 110011658009

Environmental Interest/Information System
NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in

SOUTHERN PACIFIC TRANSPORTATION CO (Continued) **1004444105**

regions and states with cooperative agreements, enforcement actions, and settlements.

SLIC:
Region: STATE
Facility Status: **Open - Inactive**
Status Date: 06/04/2009
Global Id: SLT2O193296
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.815374
Longitude: -122.294967
Case Type: Cleanup Program Site
Case Worker: UUU
Local Agency: Not reported
RB Case Number: SLT2O193296
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

SLIC:
Region: 2
Facility ID: SLT2O193296
Facility Status: Leak being confirmed
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

RESPONSE:
Facility ID: 01400001
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: 29.2
National Priorities List: NO
Cleanup Oversight Agencies: RWQCB 2 - San Francisco Bay
Lead Agency: RWQCB 2 - San Francisco Bay
Lead Agency Description: Not reported
Project Manager: Not reported
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Site Code: Not reported
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 16

SOUTHERN PACIFIC TRANSPORTATION CO (Continued) **1004444105**

Senate:	09
Special Program Status:	Designation of Single Agency
Status:	Refer: RWQCB
Status Date:	04/17/2001
Restricted Use:	NO
Funding:	Not reported
Latitude:	37.8166624510699
Longitude:	-122.295837584947
APN:	0-310-14, 0-310-3-10, 0-310-3-11, 0-310-3-9, 0-310-5, 0-310-7, 0-310-8, 0-315-4, 0310-3-8, 6-29-1, 7-556-10-1, O-310-7-7
Past Use:	FOUNDRY, MANUFACTURING - LUMBER/WOOD PRODUCTS, RAIL ROAD MAINTENANCE SHOP, VEHICLE MAINTENANCE
Potential COC:	10009, 10015, 10060, 10064, 10067, 10097, 10177, 10197, 10199, 20011, 30001, 30013, 30018
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	Central Station
Alias Type:	Alternate Name
Alias Name:	Central Station Land, Inc.
Alias Type:	Alternate Name
Alias Name:	SOUTHERN PACIFIC TRANSPORTATION COMPANY
Alias Type:	Alternate Name
Alias Name:	WEST OAKLAND YARD
Alias Type:	Alternate Name
Alias Name:	0-310-14
Alias Type:	APN
Alias Name:	0-310-3-10
Alias Type:	APN
Alias Name:	0-310-3-11
Alias Type:	APN
Alias Name:	0-310-3-9
Alias Type:	APN
Alias Name:	0-310-5
Alias Type:	APN
Alias Name:	0-310-7
Alias Type:	APN
Alias Name:	0-310-8
Alias Type:	APN
Alias Name:	0-315-4
Alias Type:	APN
Alias Name:	0310-3-8
Alias Type:	APN
Alias Name:	6-29-1
Alias Type:	APN
Alias Name:	7-556-10-1
Alias Type:	APN
Alias Name:	O-310-7-7
Alias Type:	APN
Alias Name:	SLT2O193296
Alias Type:	GeoTracker Global ID
Alias Name:	01400001
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment Report
Completed Date:	06/30/1987

SOUTHERN PACIFIC TRANSPORTATION CO (Continued) **1004444105**

Comments:	Preliminary Assessment for Southern Pacific Oakland for 7th and Bay (BAY). Preliminary Assessment done. SFRWQCB is lead agency at site. Unranked BEP site. Mitre Model REQ. 2 surface IMP-OIL/water contamination at these area PCB. Sludge pond-migrated off-site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	03/25/1987
Comments:	SITE SCREENING DONE MITRE MODEL REQ. PA REQ. RAILYARD.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	AB 2061 - Designation
Completed Date:	04/17/2001
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	State Response
Site Type Detailed:	State Response or NPL
Acres:	29.2
NPL:	NO
Regulatory Agencies:	RWQCB 2 - San Francisco Bay
Lead Agency:	RWQCB 2 - San Francisco Bay
Program Manager:	Not reported
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Facility ID:	01400001
Site Code:	Not reported
Assembly:	16
Senate:	09
Special Program:	Designation of Single Agency
Status:	Refer: RWQCB
Status Date:	04/17/2001
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.8166624510699
Longitude:	-122.295837584947
APN:	0-310-14, 0-310-3-10, 0-310-3-11, 0-310-3-9, 0-310-5, 0-310-7, 0-310-8, 0-315-4, 0310-3-8, 6-29-1, 7-556-10-1, O-310-7-7
Past Use:	FOUNDRY, MANUFACTURING - LUMBER/WOOD PRODUCTS, RAIL ROAD MAINTENANCE SHOP, VEHICLE MAINTENANCE
Potential COC:	10009, 10015, 10060, 10064, 10067, 10097, 10177, 10197, 10199, 20011, 30001, 30013, 30018
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED

SOUTHERN PACIFIC TRANSPORTATION CO (Continued) **1004444105**

Alias Name: Central Station
Alias Type: Alternate Name
Alias Name: Central Station Land, Inc.
Alias Type: Alternate Name
Alias Name: SOUTHERN PACIFIC TRANSPORTATION COMPANY
Alias Type: Alternate Name
Alias Name: WEST OAKLAND YARD
Alias Type: Alternate Name
Alias Name: 0-310-14
Alias Type: APN
Alias Name: 0-310-3-10
Alias Type: APN
Alias Name: 0-310-3-11
Alias Type: APN
Alias Name: 0-310-3-9
Alias Type: APN
Alias Name: 0-310-5
Alias Type: APN
Alias Name: 0-310-7
Alias Type: APN
Alias Name: 0-310-8
Alias Type: APN
Alias Name: 0-315-4
Alias Type: APN
Alias Name: 0310-3-8
Alias Type: APN
Alias Name: 6-29-1
Alias Type: APN
Alias Name: 7-556-10-1
Alias Type: APN
Alias Name: O-310-7-7
Alias Type: APN
Alias Name: SLT2O193296
Alias Type: GeoTracker Global ID
Alias Name: 01400001
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 06/30/1987
Comments: Preliminary Assessment for Southern Pacific Oakland for 7th and Bay (BAY). Preliminary Assessment done. SFRWQCB is lead agency at site. Unranked BEP site. Mitre Model REQ. 2 surface IMP-OIL/water contamination at these area PCB. Sludge pond-migrated off-site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 03/25/1987
Comments: SITE SCREENING DONE MITRE MODEL REQ. PA REQ. RAILYARD.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: AB 2061 - Designation
Completed Date: 04/17/2001
Comments: Not reported

SOUTHERN PACIFIC TRANSPORTATION CO (Continued) **1004444105**

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

AA93
NE
1/2-1
0.549 mi.
2899 ft.

SOUTHERN PACIFIC TRANSPORTATION CO. OAKLAND **CA BOND EXP. PLAN** **S100833473**
1707 WOOD STREET **N/A**
OAKLAND, CA 94607

Site 4 of 4 in cluster AA

Relative:
Lower

Actual:
11 ft.

CA BOND EXP. PLAN:

Reponsible Party:	RWQCB REFERRAL SITE
Project Revenue Source Company:	Not reported
Project Revenue Source Addr:	Not reported
Project Revenue Source City,St,Zip:	Not reported
Project Revenue Source Desc:	The responsible parties will pay all costs associated with remedial investigations and cleanup activities under RWQCB oversight. There are no plans to utilize Bond funds for this site.
Site Description:	Southern Pacific, Oakland, is a large railyard, switching and maintenance facility located between the Outer Harbor and Inner Harbor of San Francisco Bay. The site includes two surface impoundments which are separated by approximately a one-half mile distance: an oil/water separator system for waste waters from the cleaning of rail cars and an inactive waste pond for wash waters from the interiors of tank cars (referred to as polychlorinated biphenyl (PCB) sludge pond). There is soil and groundwater contamination at each of the surface impoundment areas.
Hazardous Waste Desc:	This site has been contaminated by PCBs, polynuclear aromatics (PNAs), benzene, toluene, xylene, ethylbenzene, waste oils, solvents such as trichloroethylene (TCE) and dichloroethylene (DCE) and heavy metals such as lead and arsenic. Shallow ground water is contaminated by solvents.
Threat To Public Health & Env:	The waste impoundment area is fenced; however, direct contact would present a potential health threat. This site is located within one mile of the San Francisco Bay; a drainage ditch is underneath the site. Potential for migration of contaminants tothe Bay is low. Solvents are known to have migrated offsite (at least 200 feet from the site at 3-foot depth) and to shallow ground water. There are no known domestic wells within three miles of the site.
Site Activity Status:	Southern Pacific submitted a draft RAP to the RWQCB and DHS in April, 1988. The RWQCB has determined the RAP to be unacceptable and is requiring additional hydrogeologic and site characterization.

94
SSE
1/2-1
0.554 mi.
2923 ft.

1536 THIRD STREET **ENVIROSTOR** **S102860819**
1536 THIRD STREET **N/A**
OAKLAND, CA 94607

Relative:
Lower

Actual:
11 ft.

ENVIROSTOR:

Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	Not reported

1536 THIRD STREET (Continued) **S102860819**

NPL:	NO
Regulatory Agencies:	ALAMEDA COUNTY, CITY OF OAKLAND
Lead Agency:	CITY OF OAKLAND
Program Manager:	LYNN NAKASHIMA
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Facility ID:	01880003
Site Code:	201024
Assembly:	16
Senate:	09
Special Program:	Not reported
Status:	Refer: Other Agency
Status Date:	08/31/1998
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.8028102386106
Longitude:	-122.297927524996
APN:	O-392-13
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	1536 HENRY STREET
Alias Type:	Alternate Name
Alias Name:	O-392-13
Alias Type:	APN
Alias Name:	110009266793
Alias Type:	EPA (FRS #)
Alias Name:	201024
Alias Type:	Project Code (Site Code)
Alias Name:	01880003
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

95
ENE
1/2-1
0.564 mi.
2976 ft.

RELIANCE UPHOLSTERY SUPPLY
1614 CAMPBELL STREET
OAKLAND, CA 94607

VCP
ENVIROSTOR

S107737143
N/A

Relative:
Lower

Actual:
12 ft.

VCP:
Facility ID: 70000082
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1.45
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: ALLAN FONE
Supervisor: Daniel Murphy
Division Branch: Cleanup Berkeley
Site Code: 201876
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified
Status Date: 03/09/2011
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.8134481343426 / -122.293408089876
APN: 007-0560-001-02, 7-560-1-2
Past Use: MANUFACTURING - OTHER
Potential COC: 30024, 30025, 3002502
Confirmed COC: 30024,30025,3002502
Potential Description: OTH, SOIL
Alias Name: Greitzer Parcel
Alias Type: Alternate Name
Alias Name: Greitzer Property
Alias Type: Alternate Name
Alias Name: 007-0560-001-02
Alias Type: APN
Alias Name: 7-560-1-2
Alias Type: APN
Alias Name: 110002920876
Alias Type: EPA (FRS #)
Alias Name: 201619
Alias Type: Project Code (Site Code)
Alias Name: 201876
Alias Type: Project Code (Site Code)
Alias Name: 70000082
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 07/15/2008
Comments: Second Amendament to Voluntary Cleanup Agreement fully executed on 7/15/08 and mailed to Responsible Parties.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

RELIANCE UPHOLSTERY SUPPLY (Continued) **S107737143**

Completed Document Type: Certification
Completed Date: 03/09/2011
Comments: Certification of Remdiation Action completed 3/9/2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 07/30/2008
Comments: Based on comments received on draft RAW and draft Notice of Exemption (NOE), no changes are needed. NOE approved 7/30/08.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 06/27/2006
Comments: Review of Final RI Workplan completed and approved. Approval letter sent 6/27/06.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/10/2006
Comments: RI fieldwork started 7/5/2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 08/08/2007
Comments: Final DTSC letter accepting remedial investigation (RI) mailed 8/8/07. Complete RI report consists of Report of Remedial Investigation (dated 8-7-06) and Report of Addtional Remedial Investigation Activities (dated 6-22-7). DTSC letter requested submittal of draft Remvoal Action Workplan by 9/7/07 and comments on updated draft VCA amendment by 8/23/07.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Health & Safety Plan
Completed Date: 07/05/2006
Comments: Revised site specific health and safety plan received by email 6/30/2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 04/03/2007
Comments: Community profile OK’d by supervisor and approved by PPS 4/3/07.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 07/31/2008
Comments: RAW approved 7/30/08. Approval letter sent to project proponent 7/31/08. RAW to be finalized and submitted to DTSC and West Oakland Library.

Completed Area Name: PROJECT WIDE

RELIANCE UPHOLSTERY SUPPLY (Continued) **S107737143**

Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 07/15/2010
Comments: Letter from DTSC Office of Legal Counsel to Market Holdings, LLC regarding 10 past due invoices.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 01/25/2011
Comments: Demand letters to Market Holdings LLC and 1614 Campbell St LLC. Responsible parties previous made payments, but balances are still due.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 10/21/2009
Comments: Letters sent to RPs on 10/21/2009.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 10/19/2007
Comments: First Amendment to VCA executed on 10/19/07.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 05/23/2008
Comments: Fact sheet approved 5/23/08

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 05/15/2008
Comments: Public Notice finished and approved 5/15/08.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/22/2010
Comments: Removal action completed on 10/22/2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 03/09/2011
Comments: Removal Action Completion Report approved 3/9/11.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 01/10/2006
Comments: VCA fully executed 1/10/2006. Scope of work is document review and RI/FS.

RELIANCE UPHOLSTERY SUPPLY (Continued) **S107737143**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/13/2009
Comments: Annual update letter revised and mailed out 8/13/2009.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 1.45
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: ALLAN FONE
Supervisor: Daniel Murphy
Division Branch: Cleanup Berkeley
Facility ID: 70000082
Site Code: 201876
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program
Status: Certified
Status Date: 03/09/2011
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8134481343426
Longitude: -122.293408089876
APN: 007-0560-001-02, 7-560-1-2
Past Use: MANUFACTURING - OTHER
Potential COC: 30024, 30025, 3002502
Confirmed COC: 30024,30025,3002502
Potential Description: OTH, SOIL
Alias Name: Greitzer Parcel
Alias Type: Alternate Name
Alias Name: Greitzer Property
Alias Type: Alternate Name
Alias Name: 007-0560-001-02
Alias Type: APN
Alias Name: 7-560-1-2
Alias Type: APN
Alias Name: 110002920876
Alias Type: EPA (FRS #)
Alias Name: 201619
Alias Type: Project Code (Site Code)
Alias Name: 201876
Alias Type: Project Code (Site Code)

RELIANCE UPHOLSTERY SUPPLY (Continued) **S107737143**

Alias Name:	70000082
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	07/15/2008
Comments:	Second Amendament to Voluntary Cleanup Agreement fully executed on 7/15/08 and mailed to Responsible Parties.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	03/09/2011
Comments:	Certification of Remdiation Action completed 3/9/2011.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	07/30/2008
Comments:	Based on comments received on draft RAW and draft Notice of Exemption (NOE), no changes are needed. NOE approved 7/30/08.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Workplan
Completed Date:	06/27/2006
Comments:	Review of Final RI Workplan completed and approved. Approval letter sent 6/27/06.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	07/10/2006
Comments:	RI fieldwork started 7/5/2006.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	08/08/2007
Comments:	Final DTSC letter accepting remedial investigation (RI) mailed 8/8/07. Complete RI report consists of Report of Remedial Investigation (dated 8-7-06) and Report of Addtional Remedial Investigation Activities (dated 6-22-7). DTSC letter requested submittal of draft Remvoal Action Workplan by 9/7/07 and comments on updated draft VCA amendment by 8/23/07.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Health & Safety Plan
Completed Date:	07/05/2006
Comments:	Revised site specific health and safety plan received by email 6/30/2006.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Community Profile

RELIANCE UPHOLSTERY SUPPLY (Continued) **S107737143**

Completed Date: 04/03/2007
Comments: Community profile OK’d by supervisor and approved by PPS 4/3/07.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 07/31/2008
Comments: RAW approved 7/30/08. Approval letter sent to project proponent 7/31/08. RAW to be finalized and submitted to DTSC and West Oakland Library.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 07/15/2010
Comments: Letter from DTSC Office of Legal Counsel to Market Holdings, LLC regarding 10 past due invoices.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 01/25/2011
Comments: Demand letters to Market Holdings LLC and 1614 Campbell St LLC. Responsible parties previous made payments, but balances are still due.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 10/21/2009
Comments: Letters sent to RPs on 10/21/2009.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 10/19/2007
Comments: First Amendment to VCA executed on 10/19/07.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 05/23/2008
Comments: Fact sheet approved 5/23/08

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 05/15/2008
Comments: Public Notice finished and approved 5/15/08.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/22/2010
Comments: Removal action completed on 10/22/2010.

Completed Area Name: PROJECT WIDE

RELIANCE UPHOLSTERY SUPPLY (Continued) **S107737143**

Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 03/09/2011
Comments: Removal Action Completion Report approved 3/9/11.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 01/10/2006
Comments: VCA fully executed 1/10/2006. Scope of work is document review and RI/FS.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/13/2009
Comments: Annual update letter revised and mailed out 8/13/2009.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

96
East
1/2-1
0.577 mi.
3048 ft.

NEW OAKLAND FIRE STATION #3
CENTER AND 14TH STREET
OAKLAND, CA 94607

VCP **S102008272**
ENVIROSTOR **N/A**

Relative:
Higher

Actual:
17 ft.

VCP:
Facility ID: 01920063
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 0.9
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: LYNN NAKASHIMA
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Site Code: 200498
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified
Status Date: 12/28/1994
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.8111111111111 / -122.293055555556
APN: NONE SPECIFIED
Past Use: UNKNOWN

NEW OAKLAND FIRE STATION #3 (Continued) **S102008272**

Potential COC: 10097, 30013, 3002502
Confirmed COC: 30013,10097,3002502
Potential Description: SOIL
Alias Name: CYPRESS FREEWAY/FIRE STATION
Alias Type: Alternate Name
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: NEW FIRE STATION #3
Alias Type: Alternate Name
Alias Name: 110033611759
Alias Type: EPA (FRS #)
Alias Name: 200498
Alias Type: Project Code (Site Code)
Alias Name: 01920063
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 12/28/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/28/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 11/18/1992
Comments: Completed Site Screening. Prior to construction of the new Oakland Fire House #3, Caltrans and the City of Oakland conducted an investigation of the Site. The investigation showed elevated levels of metals, petroleum hydrocarbons and cyanide in the fill material.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 12/28/1994
Comments: Completed RA. Certified Site. Removal action consisted of excavation and off-haul of contaminated soil. Approximately 4500 cubic yards of material was removed. The site was backfilled with soil and baserock.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: Signed VCA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Voluntary Cleanup Agreement Completion
Completed Date: 12/28/1994
Comments: Not reported

NEW OAKLAND FIRE STATION #3 (Continued) **S102008272**

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	0.9
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	LYNN NAKASHIMA
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Facility ID:	01920063
Site Code:	200498
Assembly:	16
Senate:	09
Special Program:	Voluntary Cleanup Program
Status:	Certified
Status Date:	12/28/1994
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.8111111111111
Longitude:	-122.293055555556
APN:	NONE SPECIFIED
Past Use:	UNKNOWN
Potential COC:	10097, 30013, 3002502
Confirmed COC:	30013,10097,3002502
Potential Description:	SOIL
Alias Name:	CYPRESS FREEWAY/FIRE STATION
Alias Type:	Alternate Name
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	NEW FIRE STATION #3
Alias Type:	Alternate Name
Alias Name:	110033611759
Alias Type:	EPA (FRS #)
Alias Name:	200498
Alias Type:	Project Code (Site Code)
Alias Name:	01920063
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	12/28/1994
Comments:	Not reported

NEW OAKLAND FIRE STATION #3 (Continued) **S102008272**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/28/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 11/18/1992
Comments: Completed Site Screening. Prior to construction of the new Oakland Fire House #3, Caltrans and the City of Oakland conducted an investigation of the Site. The investigation showed elevated levels of metals, petroleum hydrocarbons and cyanide in the fill material.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 12/28/1994
Comments: Completed RA. Certified Site. Removal action consisted of excavation and off-haul of contaminated soil. Approximately 4500 cubic yards of material was removed. The site was backfilled with soil and baserock.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: Signed VCA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Voluntary Cleanup Agreement Completion
Completed Date: 12/28/1994
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

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97 **MANNYSERVICES/MCKINNEY GAS** **ENVIROSTOR** **S102860814**
ENE **1600 PERALTA** **N/A**
1/2-1 **OAKLAND, CA 94607**
0.608 mi.
3211 ft.

Relative:
Lower

Actual:
13 ft.

ENVIROSTOR:
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: US EPA
Lead Agency: NONE SPECIFIED

MANNYSERVICES/MCKINNEY GAS (Continued) **S102860814**

Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Facility ID: 01750027
Site Code: Not reported
Assembly: 16
Senate: 09
Special Program: Not reported
Status: Refer: Other Agency
Status Date: 10/02/1997
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 37.8128467042435
Longitude: -122.292538770904
APN: 5-396-3
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 5-396-3
Alias Type: APN
Alias Name: 01750027
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

98
North
1/2-1
0.634 mi.
3346 ft.

SEA-LAND SERVICE, INC.
1425 MARITIME STREET
OAKLAND, CA 92626

Notify 65 **S100179003**
EMI **N/A**

Relative:
Lower

Actual:
8 ft.

Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 92626

EMI:
Year: 2002

SEA-LAND SERVICE, INC. (Continued) **S100179003**

County Code: 1
Air Basin: SF
Facility ID: 8345
Air District Name: BA
SIC Code: 7532
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 2003
County Code: 1
Air Basin: SF
Facility ID: 8345
Air District Name: BA
SIC Code: 7532
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

99
ENE
1/2-1
0.665 mi.
3510 ft.

A. BERCOVICH 18TH STREET
1639 18TH STREET
OAKLAND, CA 94607

VCP
HAZNET
HAULERS
ENVIROSTOR

S103983450
N/A

Relative:
Lower

Actual:
12 ft.

VCP:
Facility ID: 01420131
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: DAY, ELD, HOS, EX, NOWN, NUSE, NDEV, NSUB, HS, SCH, FOOD, COV, RES
Acres: 1
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: CLAUDE JEMISON
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Site Code: 201550
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified O&M - Land Use Restrictions Only
Status Date: 09/23/2010

A. BERCOVICH 18TH STREET (Continued) **S103983450**

Restricted Use: YES
Funding: Responsible Party
Lat/Long: 37.8140834399544 / -122.292649219857
APN: 007-0561-0018-01, 7-561-18-1
Past Use: MANUFACTURING - OTHER, PAINT MANUFACTURING, RECYCLING - SCRAP METAL
Potential COC: 30013
Confirmed COC: 30013
Potential Description: SOIL
Alias Name: A. BERCOVICH 18TH STREET
Alias Type: Alternate Name
Alias Name: Aboudi Property
Alias Type: Alternate Name
Alias Name: MARTINEZ BROTHERS TRUCKING
Alias Type: Alternate Name
Alias Name: 007-0561-0018-01
Alias Type: APN
Alias Name: 7-561-18-1
Alias Type: APN
Alias Name: 110033613025
Alias Type: EPA (FRS #)
Alias Name: 201550
Alias Type: Project Code (Site Code)
Alias Name: 01420131
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 04/10/2009
Comments: Minor wear of the concrete surfaces was observed but no major cracks.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 08/09/2010
Comments: Minor wear of the concrete surfaces was observed but no major cracks existed where dirt was exposed or vegetation was observed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/29/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 04/11/2008
Comments: Remedy remains protective of human health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/26/2003
Comments: Completed PEA. A Site Screening was prepared in 2001 under contract with the United States Environmental Protection Agency (U.S. EPA). The site screening consisted of a drive-by and review of available

A. BERCOVICH 18TH STREET (Continued) **S103983450**

regulatory files, historical information, and ownership information. In 1989, elevated levels of lead were detected beneath paved areas of the Site. The site screening recommended further action based on the fact that elevated levels of lead and possibly other hazardous contaminants existed in the soil at the Site, and that the Site was adjacent to residences. DTSC is currently working with the Site owner to explore remedial options for the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/11/2005
Comments: PEA recommends - A land use covenant (LUC or deed restriction) should be placed on the property, since the contamination is not at the surface (1-3 feet bgs), the area will be completely paved. There is no onsite risk to workers or the nearby residents. Lead has been detected up to 1,100 mg/kg at 1-3 feet bgs in soils beneath the asphalt at the Site. Using LeadSpread (the lead risk assessment spreadsheet) developed by the DTSC, the screening level for lead at the PRG 99th percent level is 260 ug/g. Analytical testing of soil and ground water for TPHg, TPHd, total lead, BTEX, MTBE, metals, and VOCs on site did not identify any other contaminants above residential or drinking water standards. An Operation and Maintenance Plan and Agreement with the property owner will ensure that the pavement is maintained and that financial assurance is in place.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 03/29/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 03/29/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 03/27/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 04/03/2007
Comments: No problems noted during site inspection.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 07/11/2005
Comments: Not reported

Future Area Name: PROJECT WIDE

A. BERCOVICH 18TH STREET (Continued) **S103983450**

Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2016
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HAZNET:
Year: 1998
Gepaid: CAC001081848
Contact: ITZ RADOMSKY
Telephone: 5108324190
Mailing Name: Not reported
Mailing Address: 930 PINE STREET
Mailing City,St,Zip: OAKLAND, CA 946070000
Gen County: 1
TSD EPA ID: CAD009466392
TSD County: 7
Waste Category: Other empty containers 30 gallons or more
Disposal Method: R01
Tons: .2750
Facility County: 1

Year: 1998
Gepaid: CAC001081848
Contact: ITZ RADOMSKY
Telephone: 5108324190
Mailing Name: Not reported
Mailing Address: 930 PINE STREET
Mailing City,St,Zip: OAKLAND, CA 946070000
Gen County: 1
TSD EPA ID: CAL000161743
TSD County: Santa Clara
Waste Category: Waste oil and mixed oil
Disposal Method: H01
Tons: .3336
Facility County: 1

HAULERS:
Facility ID: 1296214
Facility Phone: (510) 839-6206

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 1
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: CLAUDE JEMISON
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Facility ID: 01420131
Site Code: 201550

A. BERCOVICH 18TH STREET (Continued) **S103983450**

Assembly:	16
Senate:	09
Special Program:	Voluntary Cleanup Program
Status:	Certified O&M - Land Use Restrictions Only
Status Date:	09/23/2010
Restricted Use:	YES
Site Mgmt. Req.:	DAY, ELD, HOS, EX, NOWN, NUSE, NDEV, NSUB, HS, SCH, FOOD, COV, RES
Funding:	Responsible Party
Latitude:	37.8140834399544
Longitude:	-122.292649219857
APN:	007-0561-0018-01, 7-561-18-1
Past Use:	MANUFACTURING - OTHER, PAINT MANUFACTURING, RECYCLING - SCRAP METAL
Potential COC:	30013
Confirmed COC:	30013
Potential Description:	SOIL
Alias Name:	A. BERCOVICH 18TH STREET
Alias Type:	Alternate Name
Alias Name:	Aboudi Property
Alias Type:	Alternate Name
Alias Name:	MARTINEZ BROTHERS TRUCKING
Alias Type:	Alternate Name
Alias Name:	007-0561-0018-01
Alias Type:	APN
Alias Name:	7-561-18-1
Alias Type:	APN
Alias Name:	110033613025
Alias Type:	EPA (FRS #)
Alias Name:	201550
Alias Type:	Project Code (Site Code)
Alias Name:	01420131
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	04/10/2009
Comments:	Minor wear of the concrete surfaces was observed but no major cracks.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	08/09/2010
Comments:	Minor wear of the concrete surfaces was observed but no major cracks existed where dirt was exposed or vegetation was observed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/29/2009
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	04/11/2008
Comments:	Remedy remains protective of human health and the environment.

A. BERCOVICH 18TH STREET (Continued) **S103983450**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/26/2003
Comments: Completed PEA. A Site Screening was prepared in 2001 under contract with the United States Environmental Protection Agency (U.S. EPA). The site screening consisted of a drive-by and review of available regulatory files, historical information, and ownership information.
In 1989, elevated levels of lead were detected beneath paved areas of the Site. The site screening recommended further action based on the fact that elevated levels of lead and possibly other hazardous contaminants existed in the soil at the Site, and that the Site was adjacent to residences. DTSC is currently working with the Site owner to explore remedial options for the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/11/2005
Comments: PEA recommends - A land use covenant (LUC or deed restriction) should be placed on the property, since the contamination is not at the surface (1-3 feet bgs), the area will be completely paved. There is no onsite risk to workers or the nearby residents. Lead has been detected up to 1,100 mg/kg at 1-3 feet bgs in soils beneath the asphalt at the Site. Using LeadSpread (the lead risk assessment spreadsheet) developed by the DTSC, the screening level for lead at the PRG 99th percent level is 260 ug/g. Analytical testing of soil and ground water for TPHg, TPHd, total lead, BTEX, MTBE, metals, and VOCs on site did not identify any other contaminants above residential or drinking water standards. An Operation and Maintenance Plan and Agreement with the property owner will ensure that the pavement is maintained and that financial assurance is in place.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 03/29/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 03/29/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 03/27/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 04/03/2007
Comments: No problems noted during site inspection.

A. BERCOVICH 18TH STREET (Continued) **S103983450**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 07/11/2005
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2016
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

100
WNW
1/2-1
0.669 mi.
3531 ft.

MARINE TERMINAL
1195 MARITIME
OAKLAND, CA 92626

Notify 65 **S100226822**
N/A

Relative:
Lower

Actual:
8 ft.

Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 92626

AB101
SE
1/2-1
0.669 mi.
3530 ft.

CA SODA CO
355 MANDELA PKWY
OAKLAND, CA 94607

Site 1 of 2 in cluster AB

NPDES
HAZNET
ENVIROSTOR

1000996464
N/A

Relative:
Lower

Actual:
12 ft.

NPDES:
Npdes Number: CAS00001
Facility Status: Active
Agency Id: N/A
Region: 2
Regulatory Measure Id: Not Available
Order No: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not Available
WDID: 2 01I010758
Program Type: Industrial
Adoption Date Of Regulatory Measure: N/A
Effective Date Of Regulatory Measure: 11/17/1993
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: California Soda Co
Discharge Address: 355 Mandela Pkwy
Discharge City: Oakland
Discharge State: Ca
Discharge Zip: 94607

CA SODA CO (Continued) **1000996464**

HAZNET:

Year:	1998
Gepaid:	CAD982044232
Contact:	NORMAN HINCK
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	355 MANDELA PKWY
Mailing City,St,Zip:	OAKLAND, CA 946070000
Gen County:	1
TSD EPA ID:	CAD042345884
TSD County:	Santa Clara
Waste Category:	Other organic solids
Disposal Method:	Not reported
Tons:	.0000
Facility County:	1

Year:	1998
Gepaid:	CAD982044232
Contact:	NORMAN HINCK
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	355 MANDELA PKWY
Mailing City,St,Zip:	OAKLAND, CA 946070000
Gen County:	1
TSD EPA ID:	CAD042345884
TSD County:	Santa Clara
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Not reported
Tons:	.9174
Facility County:	1

Year:	1998
Gepaid:	CAD982044232
Contact:	NORMAN HINCK
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	355 MANDELA PKWY
Mailing City,St,Zip:	OAKLAND, CA 946070000
Gen County:	1
TSD EPA ID:	CAD042345884
TSD County:	Santa Clara
Waste Category:	Organic liquids with metals (Alkaline solution (pH >= 12.5) with metals)
Disposal Method:	Not reported
Tons:	.0000
Facility County:	1

Year:	1998
Gepaid:	CAD982044232
Contact:	NORMAN HINCK
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	355 MANDELA PKWY
Mailing City,St,Zip:	OAKLAND, CA 946070000
Gen County:	1
TSD EPA ID:	CAD042345884
TSD County:	Santa Clara

CA SODA CO (Continued) **1000996464**

Waste Category: Unspecified solvent mixture
Disposal Method: Not reported
Tons: .4587
Facility County: 1

ENVIROSTOR:
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0.25
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: JACINTO SOTO
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Facility ID: 01280091
Site Code: 201025
Assembly: 16
Senate: 09
Special Program: EPA - PASI
Status: No Further Action
Status Date: 05/27/1999
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8069444444444
Longitude: -122.293333333333
APN: NONE SPECIFIED
Past Use: NONE
Potential COC: NONE SPECIFIED,31000
Confirmed COC: 31000
Potential Description: NMA
Alias Name: 201025
Alias Type: Project Code (Site Code)
Alias Name: 01280091
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/27/1999
Comments: Completed PEA. Preliminary Assessment (PA/SI) found that contamination onsite is below residential standards and that no further action is required.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

AB102 **SF BAY AREA RAPID TRANSIT DISTRICT** **HIST Cal-Sites** **S102769550**
SE **349 MANDELA PKWY** **RESPONSE** **N/A**
1/2-1 **OAKLAND, CA 94607** **ENVIROSTOR**
0.671 mi.
3543 ft. **Site 2 of 2 in cluster AB**

Relative:
Lower

Actual:
12 ft.

HISTORICAL CAL-SITES:
Facility ID: 01750021
Region: 2
Region Name: BERKELEY
Branch: NC
Branch Name: NORTH COAST
File Name: Not reported
State Senate District: 04242000
Status: CERT - CERTIFIED AS HAVING BEEN REMEDIED SATISFACTORILY UNDER DTSC OVERSIGHT
Status Name: CERTIFIED
Lead Agency: DTSC
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type: RP
Type Name: RESPONSIBLE PARTY
NPL: Not Listed
SIC Code: 75
SIC Name: AUTO REPAIR, SERVICES & PARKING
Access: Controlled
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Suspected
Staff Member Responsible for Site: Not reported
Supervisor Responsible for Site: Not reported
Region Water Control Board: SF
Region Water Control Board Name: SAN FRANCISCO BAY
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 16
State Senate District Code: 09
Facility ID: 01750021
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: I&SE
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 08221997
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: CERT
Definition of Status: CERTIFIED
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported

SF BAY AREA RAPID TRANSIT DISTRICT (Continued) **S102769550**

For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01750021
Activity: RAW
Activity Name: REMOVAL ACTION WORKPLAN
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 10291999
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: CERT
Definition of Status: CERTIFIED
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01750021
Activity: RA
Activity Name: REMOVAL ACTION
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 04242000
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: CERT
Definition of Status: CERTIFIED
Liquids Removed (Gals): 38
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: N
Activity Comments: 34 TONS OF CONTAMINATED SOIL WAS REMOVED OFF-SITE. THE SITE WASCLEANED TO RESIDENTIAL STANDARDS.
For Commercial Reuse: 0.30000
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01750021
Activity: CERT
Activity Name: CERTIFICATION
AWP Code: Not reported

SF BAY AREA RAPID TRANSIT DISTRICT (Continued) **S102769550**

Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 04242000
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: CERT
Definition of Status: CERTIFIED
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01750021
Activity: CEQA
Activity Name: CEQA INCLUDING NEGATIVE DECS
AWP Code: NOE
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 10291999
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: CERT
Definition of Status: CERTIFIED
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Alternate Address: 349 MANDELA PARKWAY
Alternate City,St,Zip: OAKLAND, CA 94607
Alternate Address: 349 MANDELA PKWY
Alternate City,St,Zip: OAKLAND, CA 94607
Background Info: Alexander’s Ragtime Auto Wreckers operated an auto wrecking facility at the 0.3 acre Site from approximately 1966 to 1987. Meyer Goldberg and Miriam Goldberg were owners of the Site during Alexander’s Ragtime Auto Wrecker’s operation at the Site. The Goldbergs sold the Site to the San Francisco Bay Area Rapid Transit District (BART) in 1987. The Site is located in an industrial neighborhood with residences and other commercial areas located less than one block away. Business activities in the area include manufacturing, food processing, warehousing and

SF BAY AREA RAPID TRANSIT DISTRICT (Continued) **S102769550**

offices. Residential areas are located to the north and west of
the the Site.
Comments Date: 04242000
Comments: Completed RA. Certified Site. RA consisted of field excavation
Comments Date: 04242000
Comments: of soil above the cleanup standards and collection of
Comments Date: 04242000
Comments: confirmation samples. Cleanup standard for lead was met.
Comments Date: 08221997
Comments: Issued I&SE Order. Order issued to the Bay Area Rapid Transit
Comments Date: 08221997
Comments: District (BART), Alexanders Ragtime Auto Wreckers, Mr. Alexander
Comments Date: 08221997
Comments: and the Goldbergs for investigation and remediation of elevated
Comments Date: 08221997
Comments: levels of metals. Unable to serve order on the Goldbergs
Comments Date: 08221997
Comments: (Deceased), Mr. Alexander, and Alexander’s Ragtime Auto Wreckers.
Comments Date: 10291999
Comments: Approved RAW. RAW required cleanup to residential standards.
Comments Date: 10291999
Comments: The objective was to remove lead-contaminated soil to have an
Comments Date: 10291999
Comments: average lead concentration (expressed as the 95% upper
Comments Date: 10291999
Comments: confidence limit of the mean) less than 400 milligrams per
Comments Date: 10291999
Comments: kilogram (mg/kg) and no single point above 840 mg/kg. Notice of
Comments Date: 10291999
Comments: Exemption filed to meet CEQA requirements.
ID Name: CALSTARS CODE
ID Value: 200993
Alternate Name: SF BAY AREA RAPID TRANSIT DISTRICTBART/MANDELA
Special Programs Code: Not reported
Special Programs Name: Not reported

RESPONSE:
Facility ID: 01750021
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: 0.3
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: JANET NAITO
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Site Code: 200993
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 16
Senate: 09
Special Program Status: Not reported
Status: Certified
Status Date: 04/24/2000
Restricted Use: NO
Funding: Responsible Party

SF BAY AREA RAPID TRANSIT DISTRICT (Continued) **S102769550**

Latitude:	37.8032475468106
Longitude:	-122.294733947914
APN:	004007300900
Past Use:	JUNKYARD
Potential COC:	10097, 30013
Confirmed COC:	30013,10097
Potential Description:	SOIL
Alias Name:	BART/MANDELA
Alias Type:	Alternate Name
Alias Name:	004007300900
Alias Type:	APN
Alias Name:	110033608273
Alias Type:	EPA (FRS #)
Alias Name:	200993
Alias Type:	Project Code (Site Code)
Alias Name:	01750021
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	04/24/2000
Comments:	Completed RA. Certified Site. RA consisted of field excavation of soil above the cleanup standards and collection of confirmation samples. Cleanup standard for lead was met.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	10/29/1999
Comments:	Approved RAW. RAW required cleanup to residential standards. The objective was to remove lead-contaminated soil to have an average lead concentration (expressed as the 95% upper confidence limit of the mean) less than 400 milligrams per kilogram (mg/kg) and no single point above 840 mg/kg. Notice of Exemption filed to meet CEQA requirements.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	10/29/1999
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	04/24/2000
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	08/22/1997
Comments:	Issued I&SE Order. Order issued to the Bay Area Rapid Transit District (BART), Alexanders Ragtime Auto Wreckers, Mr. Alexander and the Goldbergs for investigation and remediation of elevated levels of metals. Unable to serve order on the Goldbergs (Deceased), Mr.

SF BAY AREA RAPID TRANSIT DISTRICT (Continued) **S102769550**

Alexander, and Alexander's Ragtime Auto Wreckers.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 0.3
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: JANET NAITO
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Facility ID: 01750021
Site Code: 200993
Assembly: 16
Senate: 09
Special Program: Not reported
Status: Certified
Status Date: 04/24/2000
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8032475468106
Longitude: -122.294733947914
APN: 004007300900
Past Use: JUNKYARD
Potential COC: 10097, 30013
Confirmed COC: 30013,10097
Potential Description: SOIL
Alias Name: BART/MANDELA
Alias Type: Alternate Name
Alias Name: 004007300900
Alias Type: APN
Alias Name: 110033608273
Alias Type: EPA (FRS #)
Alias Name: 200993
Alias Type: Project Code (Site Code)
Alias Name: 01750021
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 04/24/2000
Comments: Completed RA. Certified Site. RA consisted of field excavation of soil above the cleanup standards and collection of confirmation

SF BAY AREA RAPID TRANSIT DISTRICT (Continued) **S102769550**

samples. Cleanup standard for lead was met.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	10/29/1999
Comments:	Approved RAW. RAW required cleanup to residential standards. The objective was to remove lead-contaminated soil to have an average lead concentration (expressed as the 95% upper confidence limit of the mean) less than 400 milligrams per kilogram (mg/kg) and no single point above 840 mg/kg. Notice of Exemption filed to meet CEQA requirements.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	10/29/1999
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	04/24/2000
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	08/22/1997
Comments:	Issued I&SE Order. Order issued to the Bay Area Rapid Transit District (BART), Alexanders Ragtime Auto Wreckers, Mr. Alexander and the Goldbergs for investigation and remediation of elevated levels of metals. Unable to serve order on the Goldbergs (Deceased), Mr. Alexander, and Alexander’s Ragtime Auto Wreckers.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

103
SE
1/2-1
0.672 mi.
3549 ft.

BOBO’S JUNKYARD
1401 THIRD STREET
OAKLAND, CA 94607

DEED
VCP
ENVIROSTOR

S102008217
N/A

Relative:
Lower

Actual:
11 ft.

DEED:

Area:	PROJECT WIDE
Sub Area:	Not reported
Site Type:	VOLUNTARY CLEANUP
Status:	CERTIFIED / OPERATION & MAINTENANCE
Deed Date(s):	1997-11-05

BOBO'S JUNKYARD (Continued) **S102008217**

VCP:
Facility ID: 01400003
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: DAY, MON, HS, SCH, FOOD, RES
Acres: 1.84
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP, US EPA, CITY OF OAKLAND
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: JACINTO SOTO
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 200486
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified / Operation & Maintenance
Status Date: 05/28/2009
Restricted Use: YES
Funding: Responsible Party
Lat/Long: 37.8029416666667 / -122.297288888889
APN: 003-0029-450
Past Use: JUNKYARD
Potential COC: 30001, 30003, 30006, 30007, 30008, 30013, 30024, 30025, 3002502, 30027, 30028, 30207, 30272, 30472, 30550, 30593
Confirmed COC: 30472,30550,30024,30025,30027,30028,30207,30272,30001,30003,30006, 30007,30008,30013,3002502,30593
Potential Description: SOIL
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: 003-0029-450
Alias Type: APN
Alias Name: 110033619118
Alias Type: EPA (FRS #)
Alias Name: 200308
Alias Type: Project Code (Site Code)
Alias Name: 200486
Alias Type: Project Code (Site Code)
Alias Name: 01400003
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 02/22/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/22/2009
Comments: DTSC oversight cost estimate and schedule for next fiscal year was sent to the RP.

Completed Area Name: PROJECT WIDE

BOBO'S JUNKYARD (Continued) **S102008217**

Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	12/23/1996
Comments:	RAWs approved. Soil and groundwater investigations were conducted by both CalTrans and Southern Pacific Transportation Company (SPTCo) in the eastern portion of the site. Soil was found to be contaminated with petroleum compounds, pesticides, arsenic, lead, benzo(a)pyrene and volatile organic compounds. Groundwater was found to contain low-boiling petroleum hydrocarbons and volatile organic compounds. Both CalTrans and SPTCo were required to prepare a Removal Action Workplan (RAW) for the Eastern Portion of the site. The CalTrans RAW addressed the site during construction of the freeway whereas the SPTCo RAW describes post-construction actions. Both RAWs were approved in December 1996. The CalTrans RAW required a design change to the construction of Bent CR23. Three proposed footings were redesigned and located at ground level, and piles were redesigned so that no soil coring was required. In addition, a fourth footing was added to ensure stability in the event of an earthquake. Disposal of groundwater was not required as no excavation occurred. The remaining footings were constructed according to the existing design. Sealed shoring was installed at these footing locations to limit the amount of groundwater infiltration during construction excavations. Excavated groundwater was treated onsite and then either reused onsite or properly disposed off-site. The SPTCo RAW concluded that the site (soil and groundwater) does not pose a risk to human health and the environment under the exposure scenarios identified in the risk assessment (child trespasser and future construction worker). The alternative selected in the RAW requires an asphalt cap (or equivalent) with institutional controls and groundwater monitoring. This alternative was selected as SPTCo desired a useable surface at the site after freeway construction is completed. Two monitoring wells were installed downgradient of where cis-1,2-DCE was detected in groundwater. The purpose of the monitoring wells are to verify that cis-1,2-DCE is not migrating off the site. The Department will re-evaluate the need for additional remediation following the implementation of the U.S. EPA's investigation associated with an upgradient source, and in the event that groundwater concentrations rise significantly at the site. A five-year review of the removal action at the site will also be conducted.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	10/08/1991
Comments:	Soil Sampling delisted TPH, pesticides, arsenic, lead, benzo(a)pyrene and VOCs.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	06/30/2006
Comments:	Paving of the graded areas was completed and documentation to DTSC is currently being prepared.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Reports

BOBO'S JUNKYARD (Continued) **S102008217**

Completed Date:	11/08/2006
Comments:	DTSC approved the report, but did not approve decommissioning monitoring wells. These wells are being used by USEPA for monitoring an upgadient NPL site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	07/13/2007
Comments:	Installed an asphalt cap.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	05/10/2006
Comments:	Summittal of the First Quarter2006 Summary Report.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	02/08/2006
Comments:	DTSC receive the Fourth Quarter 2005 Summary Report as required by the I&SE order No. 93-94-018.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	07/17/2006
Comments:	Paving of the graded areas was completed this quarter, and documentation to DTSC is currently being prepared.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	09/21/2006
Comments:	Field activities are complete.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Plan
Completed Date:	08/08/2007
Comments:	Approval of O&MP.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	07/22/1999
Comments:	Approval of Final Remedial Design Report dated July 22, 1999.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Report
Completed Date:	02/27/2011
Comments:	UP's report satifies the annual inspection reporting requirement.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

BOBO’S JUNKYARD (Continued) **S102008217**

Completed Document Type:	Operations and Maintenance Report
Completed Date:	02/22/2010
Comments:	The 2009 Annual Visual Inspection and Annual Summary Reports include the I-880 Realignment Corridor: Desert Rail Yard "Northern Elevated Section", West Oakland Rail Yard and Desert Rail Yard "At Grade Section", West Oakland Rail Yard "Southern Elevated Section", and Former Bobo’s Junkyard sites. The next report is due February 2011.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/07/2010
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction
Completed Date:	11/05/1997
Comments:	Deed Restriction recorded.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	12/23/1996
Comments:	NOE
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	VCA signed with CalTrans to investigate and remediate the site. Project is part of Cypress Reconstruction Project.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	01/07/1999
Comments:	Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	08/15/2002
Comments:	Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	06/14/1994
Comments:	ISE Order issued to Southern Pacific Transportation Company.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	05/28/2009

BOBO’S JUNKYARD (Continued) **S102008217**

Comments: DTSC has determined that all appropriate removal actions have been completed and that all acceptable engineering practices were implemented; however, the Site requires ongoing operation and maintenance and monitoring efforts.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 02/10/2009
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: 5 Year Review Reports
Schedule Due Date: 5/20/2012
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Public Notice
Schedule Due Date: 2/11/2012
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Operations and Maintenance Report
Schedule Due Date: 4/15/2012
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 1.84
NPL: NO
Regulatory Agencies: SMBRP, US EPA, CITY OF OAKLAND
Lead Agency: SMBRP
Program Manager: JACINTO SOTO
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 01400003
Site Code: 200486
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program
Status: Certified / Operation & Maintenance
Status Date: 05/28/2009
Restricted Use: YES
Site Mgmt. Req.: DAY, MON, HS, SCH, FOOD, RES
Funding: Responsible Party
Latitude: 37.8029416666667
Longitude: -122.297288888889
APN: 003-0029-450
Past Use: JUNKYARD
Potential COC: 30001, 30003, 30006, 30007, 30008, 30013, 30024, 30025, 3002502, 30027, 30028, 30207, 30272, 30472, 30550, 30593

BOBO'S JUNKYARD (Continued) **S102008217**

Confirmed COC:	30472,30550,30024,30025,30027,30028,30207,30272,30001,30003,30006, 30007,30008,30013,3002502,30593
Potential Description:	SOIL
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	003-0029-450
Alias Type:	APN
Alias Name:	110033619118
Alias Type:	EPA (FRS #)
Alias Name:	200308
Alias Type:	Project Code (Site Code)
Alias Name:	200486
Alias Type:	Project Code (Site Code)
Alias Name:	01400003
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction Monitoring Report
Completed Date:	02/22/2010
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/22/2009
Comments:	DTSC oversight cost estimate and schedule for next fiscal year was sent to the RP.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	12/23/1996
Comments:	RAWs approved. Soil and groundwater investigations were conducted by both CalTrans and Southern Pacific Transportation Company (SPTCo) in the eastern portion of the site. Soil was found to be contaminated with petroleum compounds, pesticides, arsenic, lead, benzo(a)pyrene and volatile organic compounds. Groundwater was found to contain low-boiling petroleum hydrocarbons and volatile organic compounds. Both CalTrans and SPTCo were required to prepare a Removal Action Workplan (RAW) for the Eastern Portion of the site. The CalTrans RAW addressed the site during construction of the freeway whereas the SPTCo RAW describes post-construction actions. Both RAWs were approved in December 1996. The CalTrans RAW required a design change to the construction of Bent CR23. Three proposed footings were redesigned and located at ground level, and piles were redesigned so that no soil coring was required. In addition, a fourth footing was added to ensure stability in the event of an earthquake. Disposal of groundwater was not required as no excavation occurred. The remaining footings were constructed according to the existing design. Sealed shoring was installed at these footing locations to limit the amount of groundwater infiltration during construction excavations. Excavated groundwater was treated onsite and then either reused onsite or properly disposed off-site. The SPTCo RAW concluded that the site (soil and groundwater) does not pose a risk to human health and the environment under the exposure scenarios identified in the risk assessment (child trespasser and future construction worker).

BOBO'S JUNKYARD (Continued) **S102008217**

The alternative selected in the RAW requires an asphalt cap (or equivalent) with institutional controls and groundwater monitoring. This alternative was selected as SPTCo desired a useable surface at the site after freeway construction is completed. Two monitoring wells were installed downgradient of where cis-1,2-DCE was detected in groundwater. The purpose of the monitoring wells are to verify that cis-1,2-DCE is not migrating off the site. The Department will re-evaluate the need for additional remediation following the implementation of the U.S. EPA's investigation associated with an upgradient source, and in the event that groundwater concentrations rise significantly at the site. A five-year review of the removal action at the site will also be conducted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 10/08/1991
Comments: Soil Sampling delisted TPH, pesticides, arsenic, lead, benzo(a)pyrene and VOCs.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/30/2006
Comments: Paving of the graded areas was completed and documentation to DTSC is currently being prepared.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 11/08/2006
Comments: DTSC approved the report, but did not approve decommissioning monitoring wells. These wells are being used by USEPA for monitoring an upgadient NPL site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 07/13/2007
Comments: Installed an asphalt cap.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/10/2006
Comments: Summittal of the First Quarter2006 Summary Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/08/2006
Comments: DTSC receive the Fourth Quarter 2005 Summary Report as required by the I&SE order No. 93-94-018.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report

BOBO’S JUNKYARD (Continued) **S102008217**

Completed Date: 07/17/2006
Comments: Paving of the graded areas was completed this quarter, and documentation to DTSC is currently being prepared.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 09/21/2006
Comments: Field activities are complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 08/08/2007
Comments: Approval of O&MP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 07/22/1999
Comments: Approval of Final Remedial Design Report dated July 22, 1999.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 02/27/2011
Comments: UP’s report satifies the annual inspection reporting requirement.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 02/22/2010
Comments: The 2009 Annual Visual Inspection and Annual Summary Reports include the I-880 Realignment Corridor: Desert Rail Yard "Northern Elevated Section", West Oakland Rail Yard and Desert Rail Yard "At Grade Section", West Oakland Rail Yard "Southern Elevated Section", and Former Bobo’s Junkyard sites. The next report is due February 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/07/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 11/05/1997
Comments: Deed Restriction recorded.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 12/23/1996
Comments: NOE

Completed Area Name: PROJECT WIDE

BOBO’S JUNKYARD (Continued) **S102008217**

Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	VCA signed with CalTrans to investigate and remediate the site. Project is part of Cypress Reconstruction Project.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	01/07/1999
Comments:	Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	08/15/2002
Comments:	Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	06/14/1994
Comments:	ISE Order issued to Southern Pacific Transportation Company.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	05/28/2009
Comments:	DTSC has determined that all appropriate removal actions have been completed and that all acceptable engineering practices were implemented; however, the Site requires ongoing operation and maintenance and monitoring efforts.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation & Maintenance Order/Agreement
Completed Date:	02/10/2009
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	5 Year Review Reports
Schedule Due Date:	5/20/2012
Schedule Revised Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Public Notice
Schedule Due Date:	2/11/2012
Schedule Revised Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported

BOBO'S JUNKYARD (Continued) **S102008217**

Schedule Document Type: Operations and Maintenance Report
Schedule Due Date: 4/15/2012
Schedule Revised Date: Not reported

104
ENE
1/2-1
0.728 mi.
3843 ft.

ALTA PLATING & CHEMICAL CORP.
1433 18TH STREET
OAKLAND, CA 94607

ENVIROSTOR **S107735828**
N/A

Relative:
Lower

Actual:
12 ft.

ENVIROSTOR:
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0.27
NPL: NO
Regulatory Agencies: SMBRP, US EPA
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 70000088
Site Code: Not reported
Assembly: 16
Senate: 09
Special Program: EPA - PASI
Status: Inactive - Needs Evaluation
Status Date: 05/04/2006
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: EPA Grant
Latitude: 37.8136265292996
Longitude: -122.291450846626
APN: 5-397-15-2
Past Use: METAL PLATING - OTHER
Potential COC: 30407, 30594
Confirmed COC: 30407-NO,30594-NO
Potential Description: SOIL
Alias Name: 5-397-15-2
Alias Type: APN
Alias Name: 70000088
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 04/19/2006
Comments: The site screening report was approved by EPA. No further action required under CERCLA. However, since no confirmation sampling was taken, the site needs to be re-evaluated under DTSC lead.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported

ALTA PLATING & CHEMICAL CORP. (Continued) **S107735828**

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

105
NNE
1/2-1
0.729 mi.
3850 ft.

BUILDING 331 EAST
7 MERRITIME
OAKLAND, CA 92626

Notify 65 **S100179524**
N/A

Relative:
Lower

Actual:
9 ft.

Notify 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Incident Description:	92626

106
ESE
1/2-1
0.755 mi.
3984 ft.

SMILO CHEMICAL COMPANY
500 KIRKHAM STREET
OAKLAND, CA 94607

HIST CORTESE
LUST
Alameda County CS
VCP
HAZNET
ENVIROSTOR

S104578474
N/A

Relative:
Equal

Actual:
14 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-2433
Region:	CORTESE
Facility County Code:	1
Reg By:	CALSI
Reg Id:	01510022

LUST:

Region:	STATE
Global Id:	T0600102242
Latitude:	37.803914
Longitude:	-122.2929
Case Type:	LUST Cleanup Site
Status:	Open - Site Assessment
Status Date:	12/30/1995
Lead Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Case Worker:	Not reported
Local Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number:	01-2433
LOC Case Number:	Not reported
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Acetone, Other Solvent or Non-Petroleum Hydrocarbon, Polychlorinated biphenyls (PCBs), Arsenic, Chromium, Copper, Lead, Nickel, Diesel, Gasoline
Site History:	Not reported

SMILO CHEMICAL COMPANY (Continued) **S104578474**

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0600102242
Contact Type:	Local Agency Caseworker
Contact Name:	BARBARA COOK
Organization Name:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Address:	700 HEINZ ST.
City:	BERKELEY
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0600102242
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0600102242
Action Type:	REMEDIATION
Date:	1950-01-01 00:00:00
Action:	Excavate and Dispose

Global Id:	T0600102242
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Discovery

Global Id:	T0600102242
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Reported

Global Id:	T0600102242
Action Type:	ENFORCEMENT
Date:	2008-07-03 00:00:00
Action:	Technical Correspondence / Assistance / Other - #20080703

LUST REG 2:

Region:	2
Facility Id:	01-2433
Facility Status:	Leak being confirmed
Case Number:	2265
How Discovered:	Tank Closure
Leak Cause:	UNK
Leak Source:	UNK
Date Leak Confirmed:	8/8/1991
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	Not reported

SMILO CHEMICAL COMPANY (Continued) **S104578474**

Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Pollution Characterization
Record Id: RO0000421
PE: 5602

Status: Case Transferred
Record Id: RO0000421
PE: 5602

Status: Leak being confirmed
Record Id: RO0000421
PE: 5602

VCP:
Facility ID: 01510022
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 3
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: JACINTO SOTO
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 200468
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Inactive - Needs Evaluation
Status Date: 09/03/2010
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.8039611805757 / -122.29214032905
APN: 4-49-1
Past Use: MANUFACTURING - CHEMICALS, VEHICLE MAINTENANCE
Potential COC: 30013, 30024, 30025, 3002502
Confirmed COC: 30024,30025,30013,3002502
Potential Description: OTH, SOIL
Alias Name: CYPRESS FREEWAY
Alias Type: Alternate Name
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: J & A TRUCK REPAIR
Alias Type: Alternate Name
Alias Name: 4-49-1
Alias Type: APN
Alias Name: CAD029247319
Alias Type: EPA Identification Number
Alias Name: 110002641865
Alias Type: EPA (FRS #)

SMILO CHEMICAL COMPANY (Continued) **S104578474**

Alias Name: CAD029247319
Alias Type: HWTS Identification Code
Alias Name: 200468
Alias Type: Project Code (Site Code)
Alias Name: 01510022
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 08/13/1996
Comments: Remedial Action completed. Approximately 4,700 cubic yards of soil was excavated to six feet below ground surface. The site was paved for use as a training area for postal vehicles. Caltrans has installed groundwater monitoring wells and is conducting quarterly monitoring. Since the remediation goals contained in the approved RAP were for an industrial/commercial use, a deed restriction will be placed on the property restricting use.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 11/09/1995
Comments: Approved Design.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: Approved RAP requiring soil removal, groundwater monitoring and deed restriction if levels left are above unrestricted use.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: Approved RIFS. Lead was the only contaminant found in excess of the acceptable concentrations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/15/1995
Comments: Completed PEA found the Site had elevated levels of petroleum hydrocarbons, PCBs, metals, semi-and volatile organic compounds.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/01/1988
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 04/24/1987
Comments: Not reported

SMILO CHEMICAL COMPANY (Continued) **S104578474**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 11/21/1984
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 08/15/2002
Comments: Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 09/24/1983
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/07/1999
Comments: Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Removal Action Workplan
Future Due Date: 2012
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Completion Report
Future Due Date: 2013
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2012
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2012
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Investigation Report
Schedule Due Date: 2/27/2012

SMILO CHEMICAL COMPANY (Continued) **S104578474**

Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Operations and Maintenance Plan
Schedule Due Date: 2/27/2012
Schedule Revised Date: Not reported

HAZNET:

Year: 2010
Gepaid: CAC002658601
Contact: TODD WRIGHT
Telephone: 5107723552
Mailing Name: Not reported
Mailing Address: 1777 OAKLAND BLVD STE 300
Mailing City,St,Zip: WALNUT CREEK, CA 945964063
Gen County: Not reported
TSD EPA ID: CAD097030993
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons: 0.075
Facility County: Alameda

Year: 1995
Gepaid: CAL000123236
Contact: CALTRANS DISTRICT 4
Telephone: 5102864492
Mailing Name: Not reported
Mailing Address: 111 GRAND AVE 14TH FL
Mailing City,St,Zip: OAKLAND, CA 946230000
Gen County: 1
TSD EPA ID: CAD000088252
TSD County: Los Angeles
Waste Category: Other inorganic solid waste
Disposal Method: H01
Tons: .0350
Facility County: 1

Year: 1995
Gepaid: CAL000123236
Contact: CALTRANS DISTRICT 4
Telephone: 5102864492
Mailing Name: Not reported
Mailing Address: 111 GRAND AVE 14TH FL
Mailing City,St,Zip: OAKLAND, CA 946230000
Gen County: 1
TSD EPA ID: UTC093012201
TSD County: 99
Waste Category: Contaminated soil from site clean-up
Disposal Method: D80
Tons: .0000
Facility County: 1

Year: 1995
Gepaid: CAL000123236
Contact: CALTRANS DISTRICT 4

SMILO CHEMICAL COMPANY (Continued) **S104578474**

Telephone:	5102864492
Mailing Name:	Not reported
Mailing Address:	111 GRAND AVE 14TH FL
Mailing City,St,Zip:	OAKLAND, CA 946230000
Gen County:	1
TSD EPA ID:	CAD000088252
TSD County:	Los Angeles
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	H01
Tons:	.1250
Facility County:	1

Year:	1995
Gepaid:	CAL000123236
Contact:	CALTRANS DISTRICT 4
Telephone:	5102864492
Mailing Name:	Not reported
Mailing Address:	111 GRAND AVE 14TH FL
Mailing City,St,Zip:	OAKLAND, CA 946230000
Gen County:	1
TSD EPA ID:	CAD004771168
TSD County:	San Francisco
Waste Category:	Other empty containers 30 gallons or more
Disposal Method:	R01
Tons:	1.0000
Facility County:	1

Click this hyperlink while viewing on your computer to access
3 additional CA_HAZNET: record(s) in the EDR Site Report.

ENVIROSTOR:

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	3
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	JACINTO SOTO
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	01510022
Site Code:	200468
Assembly:	16
Senate:	09
Special Program:	Voluntary Cleanup Program
Status:	Inactive - Needs Evaluation
Status Date:	09/03/2010
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.8039611805757
Longitude:	-122.29214032905
APN:	4-49-1
Past Use:	MANUFACTURING - CHEMICALS, VEHICLE MAINTENANCE
Potential COC:	30013, 30024, 30025, 3002502
Confirmed COC:	30024,30025,30013,3002502
Potential Description:	OTH, SOIL

SMILO CHEMICAL COMPANY (Continued) **S104578474**

Alias Name:	CYPRESS FREEWAY
Alias Type:	Alternate Name
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	J & A TRUCK REPAIR
Alias Type:	Alternate Name
Alias Name:	4-49-1
Alias Type:	APN
Alias Name:	CAD029247319
Alias Type:	EPA Identification Number
Alias Name:	110002641865
Alias Type:	EPA (FRS #)
Alias Name:	CAD029247319
Alias Type:	HWTS Identification Code
Alias Name:	200468
Alias Type:	Project Code (Site Code)
Alias Name:	01510022
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	08/13/1996
Comments:	Remedial Action completed. Approximately 4,700 cubic yards of soil was excavated to six feet below ground surface. The site was paved for use as a training area for postal vehicles. Caltrans has installed groundwater monitoring wells and is conducting quarterly monitoring. Since the remediation goals contained in the approved RAP were for an industrial/commercial use, a deed restriction will be placed on the property restricting use.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	11/09/1995
Comments:	Approved Design.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Plan
Completed Date:	08/14/1995
Comments:	Approved RAP requiring soil removal, groundwater monitoring and deed restriction if levels left are above unrestricted use.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation / Feasibility Study
Completed Date:	07/03/1995
Comments:	Approved RIFS. Lead was the only contaminant found in excess of the acceptable concentrations.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	03/15/1995
Comments:	Completed PEA found the Site had elevated levels of petroleum hydrocarbons, PCBs, metals, semi-and volatile organic compounds.

SMILO CHEMICAL COMPANY (Continued) **S104578474**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/01/1988
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 04/24/1987
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 11/21/1984
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 08/15/2002
Comments: Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 09/24/1983
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/07/1999
Comments: Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Removal Action Workplan
Future Due Date: 2012
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Completion Report
Future Due Date: 2013

SMILO CHEMICAL COMPANY (Continued) **S104578474**

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2012
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2012
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Investigation Report
Schedule Due Date: 2/27/2012
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Operations and Maintenance Plan
Schedule Due Date: 2/27/2012
Schedule Revised Date: Not reported

107
SE
1/2-1
0.758 mi.
4003 ft.

CONTAINER FREIGHT
1285 5TH
OAKLAND, CA 94607

HIST CORTESE
LUST
Alameda County CS
VCP
ENVIROSTOR

S103576443
N/A

Relative:
Lower

Actual:
13 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-2399

LUST:
Region: STATE
Global Id: T0600102209
Latitude: 37.8074
Longitude: -122.2887
Case Type: LUST Cleanup Site
Status: Open - Remediation
Status Date: 08/30/1995
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Case Worker: Not reported
Local Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number: 01-2399
LOC Case Number: Not reported
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon, Polychlorinated biphenyls (PCBs), Other Insecticides / Pesticide / Fumigants / Herbicides, Arsenic, Chromium, Lead, Nickel, Diesel, Gasoline, Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0600102209
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou

CONTAINER FREIGHT (Continued) **S103576443**

Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0600102209
Contact Type: Local Agency Caseworker
Contact Name: BARBARA COOK
Organization Name: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Address: 700 HEINZ ST.
City: BERKELEY
Email: Not reported
Phone Number: Not reported

LUST:

Global Id: T0600102209
Action Type: REMEDIATION
Date: 1950-01-01 00:00:00
Action: Excavate and Dispose

Global Id: T0600102209
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Discovery

Global Id: T0600102209
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

Global Id: T0600102209
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Stopped

Global Id: T0600102209
Action Type: ENFORCEMENT
Date: 2008-07-03 00:00:00
Action: Technical Correspondence / Assistance / Other - #20080703

LUST REG 2:

Region: 2
Facility Id: 01-2399
Facility Status: Leak being confirmed
Case Number: 5507
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 8/8/1995
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported

CONTAINER FREIGHT (Continued) **S103576443**

Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

Alameda County CS:

Status:	Leak being confirmed
Record Id:	RO0000420
PE:	5602
Status:	Remedial action (cleanup) Underway
Record Id:	RO0000420
PE:	5602
Status:	Case Transferred
Record Id:	RO0000420
PE:	5602
Status:	Pollution Characterization
Record Id:	RO0000420
PE:	5602

VCP:

Facility ID:	01420128
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	2.81
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	JACINTO SOTO
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	200467
Assembly:	16
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Inactive - Needs Evaluation
Status Date:	09/03/2010
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.802558346489 / -122.292154351192
APN:	O-390-3
Past Use:	TRANSPORTATION - WAREHOUSING
Potential COC:	30001, 30013, 30024, 30027, 30472
Confirmed COC:	30001,30013,30472,30024,30027
Potential Description:	OTH, SOIL
Alias Name:	CYPRESS FREEWAY/CONTAINER FREIGHT
Alias Type:	Alternate Name
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	O-390-3
Alias Type:	APN
Alias Name:	110033613588
Alias Type:	EPA (FRS #)
Alias Name:	T0600102209

CONTAINER FREIGHT (Continued) **S103576443**

Alias Type: GeoTracker Global ID
Alias Name: 200467
Alias Type: Project Code (Site Code)
Alias Name: 01420128
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/07/1999
Comments: Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 03/18/1998
Comments: Remedial Design and Implementation Plan Approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 09/22/1997
Comments: Per the Feasibility Study/Remedial Action Plan, Caltrans excavated soils and disposed them at a permitted off-site location. Groundwater monitoring wells were also installed and have been monitored quarterly. An asphalt cap has also been installed on the property.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 02/07/1996
Comments: Remedial Design and Implementation plan approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: RAP approved. PEA completed in June 1995. Parcel is a candidate for groundwater non-attainment action. Capping of the entire site is under discussion with DTSC and RWQCB.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: RIFS conducted. Site investigations have shown that the soil and groundwater contain elevated levels of petroleum hydrocarbons, arsenic, lead, volatile organic compounds and semi-volatile organic compounds. Site investigation activities, performed prior to the 5/10/1994 VCA, were reported in the Site Investigation Report Area 8 dated August 1992. The RI/FS was approved on July 3, 1995 when the Remedial Action Plan Was approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report

CONTAINER FREIGHT (Continued) **S103576443**

Completed Date: 06/19/1995
Comments: PEA approved. Caltrans demolished the existing warehouse building. A 700-gallon underground diesel tank was also removed under the oversight of Alameda County.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 02/20/2007
Comments: Report documents the soil excavation, off-site disposal and capping of the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 08/15/2002
Comments: Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2012
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2012
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Operations and Maintenance Plan
Schedule Due Date: 6/9/2012
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 2.81
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: JACINTO SOTO
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 01420128
Site Code: 200467
Assembly: 16

CONTAINER FREIGHT (Continued) **S103576443**

Senate:	09
Special Program:	Voluntary Cleanup Program
Status:	Inactive - Needs Evaluation
Status Date:	09/03/2010
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.802558346489
Longitude:	-122.292154351192
APN:	O-390-3
Past Use:	TRANSPORTATION - WAREHOUSING
Potential COC:	30001, 30013, 30024, 30027, 30472
Confirmed COC:	30001,30013,30472,30024,30027
Potential Description:	OTH, SOIL
Alias Name:	CYPRESS FREEWAY/CONTAINER FREIGHT
Alias Type:	Alternate Name
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	O-390-3
Alias Type:	APN
Alias Name:	110033613588
Alias Type:	EPA (FRS #)
Alias Name:	T0600102209
Alias Type:	GeoTracker Global ID
Alias Name:	200467
Alias Type:	Project Code (Site Code)
Alias Name:	01420128
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	01/07/1999
Comments:	Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	03/18/1998
Comments:	Remedial Design and Implementation Plan Approved.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	09/22/1997
Comments:	Per the Feasibility Study/Remedial Action Plan, Caltrans excavated soils and disposed them at a permitted off-site location. Groundwater monitoring wells were also installed and have been monitored quarterly. An asphalt cap has also been installed on the property.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	02/07/1996
Comments:	Remedial Design and Implementation plan approved.

CONTAINER FREIGHT (Continued) **S103576443**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: RAP approved. PEA completed in June 1995. Parcel is a candidate for groundwater non-attainment action. Capping of the entire site is under discussion with DTSC and RWQCB.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: RIFS conducted. Site investigations have shown that the soil and groundwater contain elevated levels of petroleum hydrocarbons, arsenic, lead, volatile organic compounds and semi-volatile organic compounds. Site investigation activities, performed prior to the 5/10/1994 VCA, were reported in the Site Investigation Report Area 8 dated August 1992. The RI/FS was approved on July 3, 1995 when the Remedial Action Plan Was approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/19/1995
Comments: PEA approved. Caltrans demolished the existing warehouse building. A 700-gallon underground diesel tank was also removed under the oversight of Alameda County.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 02/20/2007
Comments: Report documents the soil excavation, off-site disposal and capping of the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 08/15/2002
Comments: Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2012

CONTAINER FREIGHT (Continued) **S103576443**

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2012
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Operations and Maintenance Plan
Schedule Due Date: 6/9/2012
Schedule Revised Date: Not reported

108
ESE
1/2-1
0.784 mi.
4142 ft.

PALM COURT
902 UNION STREET
OAKLAND, CA 94612

VCP
ENVIROSTOR

S106568180
N/A

Relative:
Higher

Actual:
22 ft.

VCP:
Facility ID: 01990027
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1.25
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: JANET NAITO
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Site Code: 201557
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: No Further Action
Status Date: 03/14/2005
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.8069 / -122.2892
APN: 4-41-002, 4-41-003, 4-41-004, 4-41-005, 4-41-006, 4-41-007, 4-41-008, 4-41-009, 4-41-010, 4-41-012, 4-41-013
Past Use: RESIDENTIAL AREA
Potential COC: 30004, 30013
Confirmed COC: 30004,30013
Potential Description: SOIL
Alias Name: PALM COURT
Alias Type: Alternate Name
Alias Name: 4-41-002
Alias Type: APN
Alias Name: 4-41-003
Alias Type: APN
Alias Name: 4-41-004
Alias Type: APN
Alias Name: 4-41-005
Alias Type: APN
Alias Name: 4-41-006
Alias Type: APN
Alias Name: 4-41-007
Alias Type: APN

PALM COURT (Continued) **S106568180**

Alias Name:	4-41-008
Alias Type:	APN
Alias Name:	4-41-009
Alias Type:	APN
Alias Name:	4-41-010
Alias Type:	APN
Alias Name:	4-41-012
Alias Type:	APN
Alias Name:	4-41-013
Alias Type:	APN
Alias Name:	110033610377
Alias Type:	EPA (FRS #)
Alias Name:	201557
Alias Type:	Project Code (Site Code)
Alias Name:	01990027
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	03/14/2005
Comments:	Confirmation samples indicated that chlordane and lead were not found above their site cleanup goals (370 ug/kg and 261 mg/kg, respectively). East Bay Habitat had removed approximately 1,025 tons of excavated soil and disposed of it at an offsite Class I disposal facility. Approximately 1,755 tons of excavated soil was excavated and disposed of at an offsite Class II disposal facility.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	06/01/2004
Comments:	Signed Voluntary Cleanup Agreement with East Bay Habitat for Humanity to review site characterization and cleanup actions they had taken independently.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Voluntary Cleanup Agreement Completion
Completed Date:	03/14/2005
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	1.25

PALM COURT (Continued) **S106568180**

NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: JANET NAITO
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Facility ID: 01990027
Site Code: 201557
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program
Status: No Further Action
Status Date: 03/14/2005
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8069
Longitude: -122.2892
APN: 4-41-002, 4-41-003, 4-41-004, 4-41-005, 4-41-006, 4-41-007, 4-41-008, 4-41-009, 4-41-010, 4-41-012, 4-41-013
Past Use: RESIDENTIAL AREA
Potential COC: 30004, 30013
Confirmed COC: 30004,30013
Potential Description: SOIL
Alias Name: PALM COURT
Alias Type: Alternate Name
Alias Name: 4-41-002
Alias Type: APN
Alias Name: 4-41-003
Alias Type: APN
Alias Name: 4-41-004
Alias Type: APN
Alias Name: 4-41-005
Alias Type: APN
Alias Name: 4-41-006
Alias Type: APN
Alias Name: 4-41-007
Alias Type: APN
Alias Name: 4-41-008
Alias Type: APN
Alias Name: 4-41-009
Alias Type: APN
Alias Name: 4-41-010
Alias Type: APN
Alias Name: 4-41-012
Alias Type: APN
Alias Name: 4-41-013
Alias Type: APN
Alias Name: 110033610377
Alias Type: EPA (FRS #)
Alias Name: 201557
Alias Type: Project Code (Site Code)
Alias Name: 01990027
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

PALM COURT (Continued) **S106568180**

Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	03/14/2005
Comments:	Confirmation samples indicated that chlordane and lead were not found above their site cleanup goals (370 ug/kg and 261 mg/kg, respectively). East Bay Habitat had removed approximately 1,025 tons of excavated soil and disposed of it at an offsite Class I disposal facility. Approximately 1,755 tons of excavated soil was excavated and disposed of at an offsite Class II disposal facility.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	06/01/2004
Comments:	Signed Voluntary Cleanup Agreement with East Bay Habitat for Humanity to review site characterization and cleanup actions they had taken independently.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Voluntary Cleanup Agreement Completion
Completed Date:	03/14/2005
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

AC109
East
1/2-1
0.803 mi.
4238 ft.

NABISCO
1267 14TH STREET
OAKLAND, CA 94607

Site 1 of 2 in cluster AC

ENVIROSTOR **S108054410**
N/A

Relative:
Higher

Actual:
19 ft.

ENVIROSTOR:

Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	1.86
NPL:	NO
Regulatory Agencies:	SMBRP, ALAMEDA COUNTY
Lead Agency:	ALAMEDA COUNTY
Program Manager:	Not reported
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Facility ID:	60000369
Site Code:	Not reported
Assembly:	16
Senate:	09
Special Program:	EPA - PASI
Status:	No Further Action
Status Date:	08/11/2006
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED

NABISCO (Continued) **S108054410**

Funding: Not Applicable
Latitude: 37.809528783326
Longitude: -122.288961840049
APN: 004-0037-001-02, 004-0037-032-06
Past Use: MANUFACTURING - OTHER
Potential COC: NONE SPECIFIED,31000
Confirmed COC: 31000-NO
Potential Description: NMA
Alias Name: 004-0037-001-02
Alias Type: APN
Alias Name: 004-0037-032-06
Alias Type: APN
Alias Name: 110010488267
Alias Type: EPA (FRS #)
Alias Name: 60000369
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 08/11/2006
Comments: Site screening concluded that UST-related remediation, overseen by ACDEH, was completed in 1992. Available data indicates that no COCs remain in soil or groundwater at levels of concern.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

AC110
East
1/2-1
0.803 mi.
4238 ft.

NABISCO BRANDS, INC.
1267 14TH STREET
OAKLAND, CA 92626

Site 2 of 2 in cluster AC

Notify 65 **U000057663**
N/A

Relative:
Higher

Actual:
19 ft.

Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 92626

111 **West** **1/2-1** **0.806 mi.** **4258 ft.**	**PORT OF OAKLAND, BERTH 25 AND 26** **2500 7TH STREET** **OAKLAND, CA 94607**	**HIST Cal-Sites** **WDS** **NPDES** **Cortese** **CHMIRS** **RESPONSE** **HAZNET** **EMI** **ENVIROSTOR**	**S105940082** **N/A**

Relative:
Lower

Actual:
7 ft.

HISTORICAL CAL-SITES:

Facility ID: 01280092
Region: 2
Region Name: BERKELEY
Branch: NC
Branch Name: NORTH COAST
File Name: Not reported
State Senate District: 09102001
Status: AWP - ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency: DTSC
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type: RP
Type Name: RESPONSIBLE PARTY
NPL: Not Listed
SIC Code: 28
SIC Name: MANU - CHEMICALS & ALLIED PRODUCTS
Access: Not reported
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Not reported
Staff Member Responsible for Site: EGILLERA
Supervisor Responsible for Site: Not reported
Region Water Control Board: SF
Region Water Control Board Name: SAN FRANCISCO BAY
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 16
State Senate District Code: 09
Facility ID: 01280092
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: ISE
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 09142001
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01280092
Activity: CERT
Activity Name: CERTIFICATION
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: 07012005
Revised Due Date: 07012006
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01280092
Activity: RAW
Activity Name: REMOVAL ACTION WORKPLAN
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: 12312004
Revised Due Date: 11302005
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01280092
Activity: RA

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Activity Name:	REMOVAL ACTION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	04302005
Revised Due Date:	01312006
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0

Alternate Address:	2700 7TH STREET
Alternate City,St,Zip:	OAKLAND, CA 94607
Alternate Address:	2500 7TH STREET
Alternate City,St,Zip:	OAKLAND, CA 94607
Background Info:	The site is located along the edge of the Port of Oakland’s Outer Harbor. From 1958 to 1974, the site was occupied by the McGuire Chemical Company. McGurie blended, packaged and stored chemicals such as anti-freeze and various volatile organic chemicals (VOCs), including aromatic and chlorinated compounds. Potential contaminants at the site include: total petroleum hydrocarbons (TPH) as gasoline, diesel, and motor oil, tetrachloroethylene (PCE), trichloroethene (TCE), polynuclear aromatic hydrocarbons (PAHs), arsenic, and metals such as copper, nickel and lead. The chemicals were stored in above ground tanks. Investigations have found aromatic and chlorinated solvents in soil and groundwater in the former area of the above ground tanks. The site currently operates as a marine container terminal.
Comments Date:	02042004
Comments:	Approved final RI. To characterize the extent of soil and
Comments Date:	02042004
Comments:	groundwater contamination, the site’s soils and groundwater were
Comments Date:	02042004
Comments:	investigated in phases. The primary contaminants of concern are
Comments Date:	02042004
Comments:	VOCs and TPH.
Comments Date:	09142001
Comments:	Issued I&SE Order requiring the Port of Oakland to investigate
Comments Date:	09142001
Comments:	the site and to conduct remedials as necessary.
ID Name:	CALSTARS CODE
ID Value:	201392
Alternate Name:	PORT OF OAKLAND, BERTH 25 AND 26MC GUIRE CHEMICAL COMPANY
Special Programs Code:	Not reported
Special Programs Name:	Not reported

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

CA WDS:
Facility ID: San Francisco Bay 01I002461
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 2
Facility Telephone: 5108390790
Facility Contact: RUSS PALCER
Agency Name: TRANSBAY CONTAINER TERMINAL
Agency Address: 2500 7th St
Agency City,St,Zip: Oakland 946071008
Agency Contact: RUSS POLCER
Agency Telephone: 5108390790
Agency Type: ?
SIC Code: 0
SIC Code 2: Not reported
Primary Waste: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

NPDES:
Npdes Number: CAS00001
Facility Status: Terminated
Agency Id: N/A
Region: 2
Regulatory Measure Id: Not Available
Order No: Not reported
Regulatory Measure Type: Enrollee
Place Id: Not Available
WDID: 2 01I002461
Program Type: Industrial
Adoption Date Of Regulatory Measure: N/A

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Effective Date Of Regulatory Measure: 4/1/1992
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: 10/25/2010
Discharge Name: Transbay Container Terminal I
Discharge Address: 2500 7th St
Discharge City: Oakland
Discharge State: Ca
Discharge Zip: 94607

Cortese:
Region: CORTESE
Envirostor Id: 1280092
Site/Facility Type: STATE RESPONSE
Cleanup Status: ACTIVE
Status Date: 9/10/2001
Site Code: 201392
Latitude: 37.810868914073
Longitude: -122.321519851685
EPA Id: Not reported
Owner: Not reported
Enf Type: Not reported
Effective Date: Not reported
Order No: Not reported
Region: Not reported
WDID: Not reported
Swat R: Not reported
Waste Discharger System Num: Not reported
Solid Waste Id Num: Not reported
Waste Management Unit Name: Not reported
Agency Name: Not reported

CHMIRS:
OES Incident Number: ’10-1859
OES notification: 3/17/2010 11:03:00 PM
OES Date: Not reported
OES Time: Not reported
Incident Date: Not reported
Date Completed: Not reported
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
Special Studies 1: Not reported
Special Studies 2: Not reported
Special Studies 3: Not reported
Special Studies 4: Not reported
Special Studies 5: Not reported
Special Studies 6: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA/DOT/PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Comments: Not reported
Facility Telephone: Not reported
Waterway Involved: Yes
Waterway: San Francisco Bay
Spill Site: Ship/Harbor/Port
Cleanup By: Reporting Party
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Gal(s)
Other: Not reported
Date/Time: 2230
Year: 2010
Agency: TransBay Container Terminal
Incident Date: 3/17/2010
Admin Agency: City of Oakland Fire Department
Amount: Not reported
Contained: Yes
Site Type: San Francisco Bay
E Date: Not reported
Substance: Hydraulic Fluid
Quantity Released: 1
BBLS: Not reported
Cups: Not reported
CUFT: Not reported
Gallons: Not reported
Grams: Not reported
Pounds: Not reported
Liters: Not reported
Ounces: Not reported
Pints: Not reported
Quarts: Not reported
Sheen: Not reported
Tons: Not reported
Unknown: Not reported
Evacuations: Not reported
Number of Injuries: Not reported
Number of Fatalities: Not reported
Description: A hydraulic line on a crane broke causing the spill.

AWP:
AWP Facility ID: 01280092
Region Code: 2
Region: BERKELEY
SMBR Branch Code: NC
SMBR Branch Unit: NORTH COAST

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Site Name.: Not reported
Current Status Date: 09102001
Current Status: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency Code: DTSC
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type: responsible party
Awp Site Type: RESPONSIBLE PARTY
NPL: Not Listed
Tier Of AWP Site: Not reported
Source Of Funding: C
Responsible Staff Member: EGILLERA
Supervisor Responsible: Not reported
SIC Code: 28
Facility SIC: MANU - CHEMICALS & ALLIED PRODUCTS
RWQCB Code: SF
RWQCB Associated With Site: SAN FRANCISCO BAY
Site Access Controlled: Not reported
Site Listed HWS List: Not reported
Hazard Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Not reported
Of Contamination Sources: 0
Lat/Long: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Description Of Entity: Not reported
State Assembly Distt Code: 16
State Senate District: 09

RESPONSE:
Facility ID: 01280092
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: 6.5
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: JUANITA (NINA) BACEY
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 201392
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 16
Senate: 09
Special Program Status: Not reported
Status: Active
Status Date: 09/10/2001
Restricted Use: NO
Funding: Responsible Party
Latitude: 37.810868914073
Longitude: -122.321519851685
APN: NONE SPECIFIED
Past Use: MANUFACTURING - CHEMICALS
Potential COC: 30019, 30022, 30024, 30025, 30027
Confirmed COC: 30019,30022,30024,30025,30027
Potential Description: OTH, SOIL, SV

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Alias Name: MC GUIRE CHEMICAL COMPANY
Alias Type: Alternate Name
Alias Name: 110021334108
Alias Type: EPA (FRS #)
Alias Name: 110033612099
Alias Type: EPA (FRS #)
Alias Name: 201392
Alias Type: Project Code (Site Code)
Alias Name: 01280092
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/07/2009
Comments: Annual cost estimate to RP completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/05/2009
Comments: Letter send Aug. 5, 2009.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 06/24/2003
Comments: Order amended to redefine Site boundaries.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 10/25/2004
Comments: Community Profile approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 09/28/2001
Comments: Workplan approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 02/04/2004
Comments: The final RI report noted:1) there is an upgradient TPH contamination migrating onto the site; 2) on-site VOC contamination appears to be limited in soil and groundwater; and 3) PAH contamination appears to be limited in scope and is related to the old wood pilings located on site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 04/27/2007
Comments: Final RAW approved.

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	03/01/2007
Comments:	Fact sheet finalized. Public comment period to begin on 3/12/2007.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	03/01/2007
Comments:	Public notice finalized. Public comment period to begin on 3/12/2007.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	03/15/2006
Comments:	Sampling conducted from 3/13/2006 through 3/15/2006 to accommodate wharf schedule.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Workplan
Completed Date:	02/16/2006
Comments:	Workplan approved. Air and soil gas sampling date to be determined according to Port schedule.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	07/28/2006
Comments:	Technical Memorandum for Air Quality Investigation and Soil Gas Survey approved.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Workplan
Completed Date:	10/10/2008
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	11/09/2008
Comments:	Floor sealing and first air monitoring report accepted on February 11, 2009.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	12/21/2008
Comments:	Finished the air sampling. Analytical results & summary will be included in the 1st Indoor Air Monitoring Report.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	07/26/2009

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Comments: Air sampling completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 10/01/2009
Comments: Indoor air results were no different than outdoor or bay area background.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 10/27/2010
Comments: O&M Plan & Soil Mgmt Plan has added info regarding the import of "clean" soil to the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/10/2008
Comments: Completed review, accepted results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 02/11/2009
Comments: Report accepted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/04/2009
Comments: Report accepted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/15/2009
Comments: Concurred with results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/30/2009
Comments: GW monitoring report approved. VOC concentrations have steadily declined or remained stable with the exception of one spike in December 2008. Total petroluem hydrocarbons concentrations are also stable.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/19/2009
Comments: No response required

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Completed Document Type: Other Report
Completed Date: 09/15/2009
Comments: No response required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/27/2009
Comments: No comments or questions.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/27/2009
Comments: No Comments or Questions

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/16/2009
Comments: No comments or questions on monthly report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/19/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/14/2010
Comments: Dissolved concentrations of TPH-g, TEPH-d, TEPH-mo in groundwater appear stable. Concentrations of chlorinated aliphatics in some wells is decreasing.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 09/14/2010
Comments: Report is acceptable. Groundwater monitoring will continue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 01/20/2011
Comments: Report shows contaminants are decreasing and/or stable in GW.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/06/2010
Comments: Annual cost estimate for 2010/2011 fiscal year.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Completed Date:	04/19/2007
Comments:	NOE signed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	09/14/2001
Comments:	Issued I&SE Order requiring the Port of Oakland to investigate the site and to conduct remediation as necessary.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Land Use Restriction
Schedule Due Date:	12/30/2010
Schedule Revised Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Certification
Schedule Due Date:	12/31/2011
Schedule Revised Date:	Not reported

HAZNET:

Year:	2010
Gepaid:	CAL000345403
Contact:	MICHAEL STAFL
Telephone:	5108390970
Mailing Name:	Not reported
Mailing Address:	2500 7TH ST
Mailing City,St,Zip:	OAKLAND, CA 946071008
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Unspecified oil-containing waste
Disposal Method:	OTHER RECOVERY OF RECLAMATION FOR REUSE INCLUDING ACID REGENERATION, ORGANICS RECOVERY ECT
Tons:	2.3769
Facility County:	Alameda
Year:	2010
Gepaid:	CAL000345403
Contact:	MICHAEL STAFL
Telephone:	5108390970
Mailing Name:	Not reported
Mailing Address:	2500 7TH ST
Mailing City,St,Zip:	OAKLAND, CA 946071008
Gen County:	Not reported
TSD EPA ID:	NVT330010000
TSD County:	Not reported
Waste Category:	Oil/water separation sludge
Disposal Method:	OTHER RECOVERY OF RECLAMATION FOR REUSE INCLUDING ACID REGENERATION, ORGANICS RECOVERY ECT
Tons:	0.4
Facility County:	Alameda

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Year: 2010
Gepaid: CAL000345403
Contact: MICHAEL STAFL
Telephone: 5108390970
Mailing Name: Not reported
Mailing Address: 2500 7TH ST
Mailing City,St,Zip: OAKLAND, CA 946071008
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: OTHER RECOVERY OF RECLAMATION FOR REUSE INCLUDING ACID REGENERATION, ORGANICS RECOVERY ECT
Tons: 1.8348
Facility County: Alameda

Year: 2010
Gepaid: CAL000345403
Contact: MICHAEL STAFL
Telephone: 5108390970
Mailing Name: Not reported
Mailing Address: 2500 7TH ST
Mailing City,St,Zip: OAKLAND, CA 946071008
Gen County: Not reported
TSD EPA ID: CA0000084517
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons: 0.1344
Facility County: Alameda

Year: 2010
Gepaid: CAL000345403
Contact: MICHAEL STAFL
Telephone: 5108390970
Mailing Name: Not reported
Mailing Address: 2500 7TH ST
Mailing City,St,Zip: OAKLAND, CA 946071008
Gen County: Not reported
TSD EPA ID: TXD077603371
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE
Tons: 0.03
Facility County: Alameda

Click this hyperlink while viewing on your computer to access
5 additional CA_HAZNET: record(s) in the EDR Site Report.

EMI:
Year: 2001
County Code: 1
Air Basin: SF
Facility ID: 12387
Air District Name: BA
SIC Code: 4491

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 1
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 2002
County Code: 1
Air Basin: SF
Facility ID: 12387
Air District Name: BA
SIC Code: 4491
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 1
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 2003
County Code: 1
Air Basin: SF
Facility ID: 12387
Air District Name: BA
SIC Code: 4491
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 1
NOX - Oxides of Nitrogen Tons/Yr: 3
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 2004
County Code: 1
Air Basin: SF
Facility ID: 12387
Air District Name: BA
SIC Code: 4491
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.205
Reactive Organic Gases Tons/Yr: 0.1715235
Carbon Monoxide Emissions Tons/Yr: 0.545

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

NOX - Oxides of Nitrogen Tons/Yr:	2.612
SOX - Oxides of Sulphur Tons/Yr:	0.005
Particulate Matter Tons/Yr:	0.01
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0.00976
Year:	2005
County Code:	1
Air Basin:	SF
Facility ID:	12387
Air District Name:	BA
SIC Code:	4491
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.601
Reactive Organic Gases Tons/Yr:	2.1762567
Carbon Monoxide Emissions Tons/Yr:	7.17
NOX - Oxides of Nitrogen Tons/Yr:	32.968
SOX - Oxides of Sulphur Tons/Yr:	.041
Particulate Matter Tons/Yr:	.047
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.045872
Year:	2006
County Code:	1
Air Basin:	SF
Facility ID:	12387
Air District Name:	BA
SIC Code:	4491
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.3
Reactive Organic Gases Tons/Yr:	1.08771
Carbon Monoxide Emissions Tons/Yr:	2.868
NOX - Oxides of Nitrogen Tons/Yr:	32.968
SOX - Oxides of Sulphur Tons/Yr:	.51
Particulate Matter Tons/Yr:	.047
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.045872
Year:	2007
County Code:	1
Air Basin:	SF
Facility ID:	12387
Air District Name:	BA
SIC Code:	4491
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.137
Reactive Organic Gases Tons/Yr:	.1146279
Carbon Monoxide Emissions Tons/Yr:	.294
NOX - Oxides of Nitrogen Tons/Yr:	3.386
SOX - Oxides of Sulphur Tons/Yr:	.002
Particulate Matter Tons/Yr:	.005
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.00488
Year:	2007

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

County Code:	1
Air Basin:	SF
Facility ID:	12387
Air District Name:	BA
SIC Code:	4491
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.3
Reactive Organic Gases Tons/Yr:	1.08771
Carbon Monoxide Emissions Tons/Yr:	2.868
NOX - Oxides of Nitrogen Tons/Yr:	32.968
SOX - Oxides of Sulphur Tons/Yr:	.51
Particulate Matter Tons/Yr:	.047
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.045872

ENVIROSTOR:

Site Type:	State Response
Site Type Detailed:	State Response or NPL
Acres:	6.5
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	JUANITA (NINA) BACEY
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	01280092
Site Code:	201392
Assembly:	16
Senate:	09
Special Program:	Not reported
Status:	Active
Status Date:	09/10/2001
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.810868914073
Longitude:	-122.321519851685
APN:	NONE SPECIFIED
Past Use:	MANUFACTURING - CHEMICALS
Potential COC:	30019, 30022, 30024, 30025, 30027
Confirmed COC:	30019,30022,30024,30025,30027
Potential Description:	OTH, SOIL, SV
Alias Name:	MC GUIRE CHEMICAL COMPANY
Alias Type:	Alternate Name
Alias Name:	110021334108
Alias Type:	EPA (FRS #)
Alias Name:	110033612099
Alias Type:	EPA (FRS #)
Alias Name:	201392
Alias Type:	Project Code (Site Code)
Alias Name:	01280092
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/07/2009
Comments: Annual cost estimate to RP completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/05/2009
Comments: Letter send Aug. 5, 2009.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 06/24/2003
Comments: Order amended to redefine Site boundaries.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 10/25/2004
Comments: Community Profile approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 09/28/2001
Comments: Workplan approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 02/04/2004
Comments: The final RI report noted:1) there is an upgradient TPH contamination migrating onto the site; 2) on-site VOC contamination appears to be limited in soil and groundwater; and 3) PAH contamination appears to be limited in scope and is related to the old wood pilings located on site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 04/27/2007
Comments: Final RAW approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 03/01/2007
Comments: Fact sheet finalized. Public comment period to begin on 3/12/2007.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 03/01/2007
Comments: Public notice finalized. Public comment period to begin on 3/12/2007.

Completed Area Name: PROJECT WIDE

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 03/15/2006
Comments: Sampling conducted from 3/13/2006 through 3/15/2006 to accommodate wharf schedule.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 02/16/2006
Comments: Workplan approved. Air and soil gas sampling date to be determined according to Port schedule.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 07/28/2006
Comments: Technical Memorandum for Air Quality Investigation and Soil Gas Survey approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 10/10/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 11/09/2008
Comments: Floor sealing and first air monitoring report accepted on February 11, 2009.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/21/2008
Comments: Finished the air sampling. Analytical results & summary will be included in the 1st Indoor Air Monitoring Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/26/2009
Comments: Air sampling completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 10/01/2009
Comments: Indoor air results were no different than outdoor or bay area background.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 10/27/2010

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Comments:	O&M Plan & Soil Mgmt Plan has added info regarding the import of "clean" soil to the site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	11/10/2008
Comments:	Completed review, accepted results.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	02/11/2009
Comments:	Report accepted.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	03/04/2009
Comments:	Report accepted.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	04/15/2009
Comments:	Concurred with results.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	11/30/2009
Comments:	GW monitoring report approved. VOC concentrations have steadily declined or remained stable with the exception of one spike in December 2008. Total petroluem hydrocarbons concentrations are also stable.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	08/19/2009
Comments:	No response required
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	09/15/2009
Comments:	No response required.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	10/27/2009
Comments:	No comments or questions.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Completed Date:	10/27/2009
Comments:	No Comments or Questions
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	11/16/2009
Comments:	No comments or questions on monthly report
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	01/19/2010
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	04/14/2010
Comments:	Dissolved concentrations of TPH-g, TEPH-d, TEPH-mo in groundwater appear stable. Concentrations of chlorinated aliphatics in some wells is decreasing.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	09/14/2010
Comments:	Report is acceptable. Groundwater monitoring will continue.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	01/20/2011
Comments:	Report shows contaminants are decreasing and/or stable in GW.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	08/06/2010
Comments:	Annual cost estimate for 2010/2011 fiscal year.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	04/19/2007
Comments:	NOE signed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	09/14/2001
Comments:	Issued I&SE Order requiring the Port of Oakland to investigate the site and to conduct remediation as necessary.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Land Use Restriction
Schedule Due Date: 12/30/2010
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Certification
Schedule Due Date: 12/31/2011
Schedule Revised Date: Not reported

---

112 **ESE** **1/2-1** **0.810 mi.** **4277 ft.**	**CONDOR FREIGHT** **324 UNION ST** **OAKLAND, CA 94607**	**HIST CORTESE** **LUST** **CA FID UST** **Alameda County CS** **SWEEPS UST** **VCP** **ENVIROSTOR**	**1000191295** **N/A**

Relative:
Equal

Actual:
14 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: CALSI
Reg Id: 01420126

Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1305

LUST:
Region: STATE
Global Id: T0600101200
Latitude: 37.8020027
Longitude: -122.2912125
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 11/06/1997
Lead Agency: ALAMEDA COUNTY LOP
Case Worker: SH
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: 01-1305
LOC Case Number: RO0000989
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Diesel
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0600101200
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND

CONDOR FREIGHT (Continued) **1000191295**

Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0600101200
Contact Type: Local Agency Caseworker
Contact Name: SUSAN HUGO
Organization Name: ALAMEDA COUNTY LOP
Address: 1131 HARBOR BAY PARKWAY
City: ALAMEDA
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600101200
Action Type: REMEDIATION
Date: 1950-01-01 00:00:00
Action: Excavate and Dispose

Global Id: T0600101200
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: 01-1305
Facility Status: Case Closed
Case Number: 1741
How Discovered: Subsurface Monitoring
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 6/14/1995
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CA FID UST:
Facility ID: 01000581
Regulated By: UTNKA
Regulated ID: 00042073
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4157636628
Mail To: Not reported
Mailing Address: 324 UNION ST
Mailing Address 2: Not reported
Mailing City,St,Zip: OAKLAND 94607
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported

CONDOR FREIGHT (Continued) **1000191295**

EPA ID: Not reported
Comments: Not reported
Status: Active

Alameda County CS:
Status: Case Closed
Record Id: RO0000989
PE: 5602

SWEEPS UST:
Status: Not reported
Comp Number: 42073
Number: Not reported
Board Of Equalization: 44-000414
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-042073-000001
Actv Date: Not reported
Capacity: 10000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: DIESEL
Number Of Tanks: 5

Status: Not reported
Comp Number: 42073
Number: Not reported
Board Of Equalization: 44-000414
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-042073-000002
Actv Date: Not reported
Capacity: 10000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 42073
Number: Not reported
Board Of Equalization: 44-000414
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-042073-000003
Actv Date: Not reported
Capacity: 1000

CONDOR FREIGHT (Continued) **1000191295**

Tank Use: OIL
Stg: PRODUCT
Content: NEW MOTOR OIL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 42073
Number: Not reported
Board Of Equalization: 44-000414
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-042073-000004
Actv Date: Not reported
Capacity: 500
Tank Use: OIL
Stg: WASTE
Content: WASTE OIL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 42073
Number: Not reported
Board Of Equalization: 44-000414
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-042073-000005
Actv Date: Not reported
Capacity: 500
Tank Use: PETROLEUM
Stg: PRODUCT
Content: STODDARD SOL
Number Of Tanks: Not reported

VCP:
Facility ID: 01420126
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1.4
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: LYNN NAKASHIMA
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Site Code: 200465
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: No Further Action

CONDOR FREIGHT (Continued) **1000191295**

Status Date:	10/01/1998
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.8017 / -122.2913
APN:	NONE SPECIFIED
Past Use:	VEHICLE MAINTENANCE
Potential COC:	10009, 10097, 30001, 30013, 30108
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	CONDOR FREIGHT
Alias Type:	Alternate Name
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	110033613579
Alias Type:	EPA (FRS #)
Alias Name:	200465
Alias Type:	Project Code (Site Code)
Alias Name:	01420126
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Plan
Completed Date:	08/14/1995
Comments:	Approved RAP.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation / Feasibility Study
Completed Date:	07/03/1995
Comments:	Completed RIFS. Site investigation was conducted by Caltrans consultants in June 1992. Soil and groundwater samples were collected as part of the investigation. Groundwater was encountered at a depth of 6-7 feet. Soil samples revealed the following contaminants: total recoverable petroleum hydrocarbons (TRPH) as high as 6,700 ppm; TPH as diesel as high as 3,800 ppm; acetone-150 ppb; di-n-butylphthalate 0.9 ppm; bis (2-ethylhexyl)phthalate 0.9 ppm; pyrene 0.3 ppm; benzo-a-pyrene 0.3 ppm; lead (840 ppm). The following contaminants were detected in groundwater: arsenic (0.22 ppm); barium (1.1 ppm); and cadmium (0.02 ppm).

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	12/28/1992
Comments:	Completed Site Screening. It is a RCRA facility with five underground storage tanks. Of these, two are 10,000-gallon capacity diesel tanks, one is a waste oil tank, one is a fresh oil tank, and one is an abandoned solvent tank. The solvent tank is reportedly filled with water. All the tanks are reported to have tested leak-free in 1988, and recently.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	Signed VCA.

CONDOR FREIGHT (Continued) **1000191295**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Voluntary Cleanup Agreement Completion
Completed Date: 10/01/1998
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 1.4
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: LYNN NAKASHIMA
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Facility ID: 01420126
Site Code: 200465
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program
Status: No Further Action
Status Date: 10/01/1998
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8017
Longitude: -122.2913
APN: NONE SPECIFIED
Past Use: VEHICLE MAINTENANCE
Potential COC: 10009, 10097, 30001, 30013, 30108
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: CONDOR FREIGHT
Alias Type: Alternate Name
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: 110033613579
Alias Type: EPA (FRS #)
Alias Name: 200465
Alias Type: Project Code (Site Code)
Alias Name: 01420126
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

CONDOR FREIGHT (Continued) **1000191295**

Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: Approved RAP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: Completed RIFS. Site investigation was conducted by Caltrans consultants in June 1992. Soil and groundwater samples were collected as part of the investigation. Groundwater was encountered at a depth of 6-7 feet. Soil samples revealed the following contaminants: total recoverable petroleum hydrocarbons (TRPH) as high as 6,700 ppm; TPH as diesel as high as 3,800 ppm; acetone-150 ppb; di-n-butylphthalate 0.9 ppm; bis (2-ethylhexyl)phthalate 0.9 ppm; pyrene 0.3 ppm; benzo-a-pyrene 0.3 ppm; lead (840 ppm). The following contaminants were detected in groundwater: arsenic (0.22 ppm); barium (1.1 ppm); and cadmium (0.02 ppm).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 12/28/1992
Comments: Completed Site Screening. It is a RCRA facility with five underground storage tanks. Of these, two are 10,000-gallon capacity diesel tanks, one is a waste oil tank, one is a fresh oil tank, and one is an abandoned solvent tank. The solvent tank is reportedly filled with water. All the tanks are reported to have tested leak-free in 1988, and recently.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: Signed VCA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Voluntary Cleanup Agreement Completion
Completed Date: 10/01/1998
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

113 **SE** **1/2-1** **0.835 mi.** **4408 ft.**	**AMTRAK MAINTENANCE FACILITY** **3RD & UNION STREETS** **OAKLAND, CA 94607**	**VCP** **ENVIROSTOR**	**S104549015** **N/A**

Relative:
Lower

Actual:
12 ft.

VCP:

Facility ID:	01400014
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	18
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	JACINTO SOTO
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	201301
Assembly:	16
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified / Operation & Maintenance
Status Date:	06/30/2011
Restricted Use:	YES
Funding:	Responsible Party
Lat/Long:	37.8013888888889 / -122.291388888889
APN:	000-0390-003, 000-0390-005, 000-0390-006, 000-0390-010-3, 004-0025-008, 004-0025-009
Past Use:	RAIL ROAD MAINTENANCE SHOP, RAILROAD RIGHT OF WAY
Potential COC:	30001, 30013, 30024, 3002502, 30470, 30472
Confirmed COC:	30001,30013,30470,30472,30024,3002502
Potential Description:	SOIL
Alias Name:	AMTRACK MAINTENANCE FACILITY
Alias Type:	Alternate Name
Alias Name:	000-0390-003
Alias Type:	APN
Alias Name:	000-0390-005
Alias Type:	APN
Alias Name:	000-0390-006
Alias Type:	APN
Alias Name:	000-0390-010-3
Alias Type:	APN
Alias Name:	004-0025-008
Alias Type:	APN
Alias Name:	004-0025-009
Alias Type:	APN
Alias Name:	110033616004
Alias Type:	EPA (FRS #)
Alias Name:	200240
Alias Type:	Project Code (Site Code)
Alias Name:	201301
Alias Type:	Project Code (Site Code)
Alias Name:	01400014
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

AMTRAK MAINTENANCE FACILITY (Continued) **S104549015**

Completed Document Type: Correspondence
Completed Date: 11/23/2009
Comments: Cover letter responding to revisions to LUC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/07/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/22/2009
Comments: DTSC oversight cost estimate and schedule for next fiscal year was sent to the RP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 02/15/2002
Comments: RAW approved requiring installation of cap over the site, institutional controls, groundwater monitoring, and limited PCB hot spot removal.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/30/2006
Comments: Paving is complete at the site. The completion report will be submitted by mid August 2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 07/27/2007
Comments: Report describe the removal of PCB contaminated soil were the Service and Inspection Building would be located, dewatering of the underlying groundwater and capping the area with asphalt pavement.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 02/08/2006
Comments: December 2005 Ground Water Monitoring Data Submittal.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 11/08/2006
Comments: Approved report including a request to discontinue groundwater monitoring and decommissioning on site monitoring wells.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 12/13/2001

AMTRAK MAINTENANCE FACILITY (Continued) **S104549015**

Comments:	Fact Sheet for Draft Removal Action Workplan
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	12/12/2001
Comments:	Public Notice for Site Cleanup
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Workplan
Completed Date:	03/23/2007
Comments:	Work plan to onsite wells has been approved.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	05/24/2007
Comments:	Monitoring wells have been closed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Report
Completed Date:	07/27/2007
Comments:	Report will be approved by 7/ 27/2007.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Plan
Completed Date:	07/27/2007
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	06/01/2001
Comments:	The combined data set from site investigations conducted to date provides sufficient data to adequately characterize soil conditions at the site for the purposes of assessing site risk and determining appropriate removal actions. Ground water data are sufficient to characterize current site risks posed by shallow on-site ground water and to determine appropriate removal actions, if warranted.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	02/21/2003
Comments:	As required by the RAW, UPRR has excavated and disposed of all soil containing PCBs greater than 1 mg/kg from beneath the footprint of the proposed service and inspection building.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence - Received
Completed Date:	05/12/2009
Comments:	Letter to inform the Department of Toxic Substances Control (Department) that Amtrak is planning construction activities on the

AMTRAK MAINTENANCE FACILITY (Continued) **S104549015**

above-referenced property.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence - Received
Completed Date: 06/18/2009
Comments: Letter prompted by an e-mail dated May 26, 2009 from Jacinto Soto, DTSC’s Project Manager, to Jeff White, Amtrak’s Project Manager. In that e-mail Mr. Soto stated that the revision proposed to Section 4.01 (a) was "not accepted" because of benzo{a)pyrene concentrations above residential levels, and in some cases above commercial levels, in soil of the southeast parcels.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 05/26/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 02/15/2002
Comments: NOE

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 04/24/2000
Comments: VCA signed with Amtrak and UPRR.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/30/2011
Comments: Site has certified with operation and maintenance activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 09/02/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 06/30/2011
Comments: LUC has been recorded.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Operations and Maintenance Report
Schedule Due Date: 6/5/2011

AMTRAK MAINTENANCE FACILITY (Continued) **S104549015**

Schedule Revised Date: Not reported

ENVIROSTOR:

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	18
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	JACINTO SOTO
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	01400014
Site Code:	201301
Assembly:	16
Senate:	09
Special Program:	Voluntary Cleanup Program
Status:	Certified / Operation & Maintenance
Status Date:	06/30/2011
Restricted Use:	YES
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.8013888888889
Longitude:	-122.291388888889
APN:	000-0390-003, 000-0390-005, 000-0390-006, 000-0390-010-3, 004-0025-008, 004-0025-009
Past Use:	RAIL ROAD MAINTENANCE SHOP, RAILROAD RIGHT OF WAY
Potential COC:	30001, 30013, 30024, 3002502, 30470, 30472
Confirmed COC:	30001,30013,30470,30472,30024,3002502
Potential Description:	SOIL
Alias Name:	AMTRACK MAINTENANCE FACILITY
Alias Type:	Alternate Name
Alias Name:	000-0390-003
Alias Type:	APN
Alias Name:	000-0390-005
Alias Type:	APN
Alias Name:	000-0390-006
Alias Type:	APN
Alias Name:	000-0390-010-3
Alias Type:	APN
Alias Name:	004-0025-008
Alias Type:	APN
Alias Name:	004-0025-009
Alias Type:	APN
Alias Name:	110033616004
Alias Type:	EPA (FRS #)
Alias Name:	200240
Alias Type:	Project Code (Site Code)
Alias Name:	201301
Alias Type:	Project Code (Site Code)
Alias Name:	01400014
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence

AMTRAK MAINTENANCE FACILITY (Continued) **S104549015**

Completed Date: 11/23/2009
Comments: Cover letter responding to revisions to LUC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/07/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/22/2009
Comments: DTSC oversight cost estimate and schedule for next fiscal year was sent to the RP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 02/15/2002
Comments: RAW approved requiring installation of cap over the site, institutional controls, groundwater monitoring, and limited PCB hot spot removal.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/30/2006
Comments: Paving is complete at the site. The completion report will be submitted by mid August 2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 07/27/2007
Comments: Report describe the removal of PCB contaminated soil were the Service and Inspection Building would be located, dewatering of the underlying groundwater and capping the area with asphalt pavement.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 02/08/2006
Comments: December 2005 Ground Water Monitoring Data Submittal.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 11/08/2006
Comments: Approved report including a request to discontinue groundwater monitoring and decommissioning on site monitoring wells.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 12/13/2001
Comments: Fact Sheet for Draft Removal Action Workplan

AMTRAK MAINTENANCE FACILITY (Continued) **S104549015**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 12/12/2001
Comments: Public Notice for Site Cleanup

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 03/23/2007
Comments: Work plan to onsite wells has been approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 05/24/2007
Comments: Monitoring wells have been closed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 07/27/2007
Comments: Report will be approved by 7/ 27/2007.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 07/27/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 06/01/2001
Comments: The combined data set from site investigations conducted to date provides sufficient data to adequately characterize soil conditions at the site for the purposes of assessing site risk and determining appropriate removal actions. Ground water data are sufficient to characterize current site risks posed by shallow on-site ground water and to determine appropriate removal actions, if warranted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/21/2003
Comments: As required by the RAW, UPRR has excavated and disposed of all soil containing PCBs greater than 1 mg/kg from beneath the footprint of the proposed service and inspection building.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence - Received
Completed Date: 05/12/2009
Comments: Letter to inform the Department of Toxic Substances Control (Department) that Amtrak is planning construction activities on the above-referenced property.

AMTRAK MAINTENANCE FACILITY (Continued) **S104549015**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence - Received
Completed Date: 06/18/2009
Comments: Letter prompted by an e-mail dated May 26, 2009 from Jacinto Soto, DTSC’s Project Manager, to Jeff White, Amtrak’s Project Manager. In that e-mail Mr. Soto stated that the revision proposed to Section 4.01 (a) was "not accepted" because of benzo{a)pyrene concentrations above residential levels, and in some cases above commercial levels, in soil of the southeast parcels.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 05/26/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 02/15/2002
Comments: NOE

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 04/24/2000
Comments: VCA signed with Amtrak and UPRR.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/30/2011
Comments: Site has certified with operation and maintenance activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 09/02/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 06/30/2011
Comments: LUC has been recorded.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Operations and Maintenance Report
Schedule Due Date: 6/5/2011
Schedule Revised Date: Not reported

AD114
NE
1/2-1
0.859 mi.
4535 ft.

ARMY-NAVY DISTRIBUTING CENTER (J09CA0753)
2233 WOOD STREET
EMERYVILLE, CA 94608

Site 1 of 2 in cluster AD

ENVIROSTOR
S109348517
N/A

Relative:
Lower

Actual:
10 ft.

ENVIROSTOR:
Site Type: Military Evaluation
Site Type Detailed: FUDS
Acres: 3.08
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: CARRIE TATOIAN-CAIN
Supervisor: Charles Ridenour
Division Branch: Cleanup Sacramento
Facility ID: 80000374
Site Code: 201753
Assembly: 16
Senate: 09
Special Program: Not reported
Status: No Further Action
Status Date: 06/30/2008
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: DERA
Latitude: 37.8202777777778
Longitude: -122.2925
APN: NONE SPECIFIED
Past Use: TRANSPORTATION - WAREHOUSING
Potential COC: NONE SPECIFIED,31000
Confirmed COC: 31000
Potential Description: NMA
Alias Name: CA99799F569600
Alias Type: Federal Facility ID
Alias Name: J09CA0753
Alias Type: INPR
Alias Name: 201753
Alias Type: Project Code (Site Code)
Alias Name: 80000374
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 06/26/2008
Comments: DTSC concurred No Action is required. In the event new information indicates DoD activities have impacted the environment during DoD past ownership and operation, DTSC reserves the right to require additional investigation.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported

ARMY-NAVY DISTRIBUTING CENTER (J09CA0753) (Continued) **S109348517**

Schedule Revised Date: Not reported

AD115
NE
1/2-1
0.861 mi.
4547 ft.

LDS TRUCKING **VCP** **S102008225**
2233 WOOD STREET **ENVIROSTOR** **N/A**
OAKLAND, CA 94607

Site 2 of 2 in cluster AD

Relative:
Lower

Actual:
10 ft.

VCP:
Facility ID: 01420127
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1.25
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: JACINTO SOTO
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Site Code: 200456
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified
Status Date: 07/07/2008
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.8197222222222 / -122.291388888889
APN: NONE SPECIFIED
Past Use: RETAIL - SERVICE STATION
Potential COC: 30013, 30025
Confirmed COC: 30013,30025
Potential Description: OTH, SOIL
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: 110033607666
Alias Type: EPA (FRS #)
Alias Name: 200456
Alias Type: Project Code (Site Code)
Alias Name: 01420127
Alias Type: Envirostor ID Number
Alias Name: 01420127
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/07/1999
Comments: Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 07/07/2008

LDS TRUCKING (Continued) **S102008225**

Comments: DTSC has determined that the site does not pose a significant threat to public health or the environment, therefore no further investigation or cleanup is required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/07/1996
Comments: Approved PEA which confirm extent of contamination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: Approved Remedial Action Plan required that contaminated site soils be excavated and disposed at an off-site facility and groundwater monitoring be conducted pending removal of the underground tank. Groundwater monitoring to be conducted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: Investigation noted presence of underground storage tank. Soil and groundwater impacted with TPH.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 05/24/1993
Comments: Approval of investigation and remedial action options report, dated March 29, 1993. Site investigation noted debris and surface soil staining across site. Diesel tank present and soil sampling detected lead and gasoline.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 05/01/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/08/2007
Comments: Soil sampling was perfomed by 6/8/2007.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 12/09/2007
Comments: The RI report approval letter specifies that existing wells should be properly closed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Workplan

LDS TRUCKING (Continued) **S102008225**

Completed Date:	04/08/2008
Comments:	Wells will be closed by the end of April 2008.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	05/15/2008
Comments:	This report describes the tasks performed and methods utilized for decommissioning four groundwater monitoring wells at the former LDS Trucking facility.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	08/15/2002
Comments:	Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	1.25
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	JACINTO SOTO
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Facility ID:	01420127
Site Code:	200456
Assembly:	16
Senate:	09
Special Program:	Voluntary Cleanup Program
Status:	Certified
Status Date:	07/07/2008
Restricted Use:	NO

LDS TRUCKING (Continued) **S102008225**

Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8197222222222
Longitude: -122.291388888889
APN: NONE SPECIFIED
Past Use: RETAIL - SERVICE STATION
Potential COC: 30013, 30025
Confirmed COC: 30013,30025
Potential Description: OTH, SOIL
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: 110033607666
Alias Type: EPA (FRS #)
Alias Name: 200456
Alias Type: Project Code (Site Code)
Alias Name: 01420127
Alias Type: Envirostor ID Number
Alias Name: 01420127
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/07/1999
Comments: Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 07/07/2008
Comments: DTSC has determined that the site does not pose a significant threat to public health or the environment, therefore no further investigation or cleanup is required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/07/1996
Comments: Approved PEA which confirm extent of contamination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: Approved Remedial Action Plan required that contaminated site soils be excavated and disposed at an off-site facility and groundwater monitoring be conducted pending removal of the underground tank. Groundwater monitoring to be conducted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: Investigation noted presence of underground storage tank. Soil and groundwater impacted with TPH.

LDS TRUCKING (Continued) **S102008225**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 05/24/1993
Comments: Approval of investigation and remedial action options report, dated March 29, 1993. Site investigation noted debris and surface soil staining across site. Diesel tank present and soil sampling detected lead and gasoline.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 05/01/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/08/2007
Comments: Soil sampling was perfomed by 6/8/2007.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 12/09/2007
Comments: The RI report approval letter specifies that existing wells should be properly closed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Workplan
Completed Date: 04/08/2008
Comments: Wells will be closed by the end of April 2008.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/15/2008
Comments: This report describes the tasks performed and methods utilized for decommissioning four groundwater monitoring wells at the former LDS Trucking facility.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 08/15/2002
Comments: Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk

LDS TRUCKING (Continued) **S102008225**

assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

116
SSE
1/2-1
0.880 mi.
4649 ft.

Relative:
Lower

Actual:
8 ft.

SHEREX CHEMICAL COMPANY INC
1401 MIDDLE HARBOR RD
OAKLAND, CA 94607

CERC-NFRAP
RCRA-NonGen
FINDS
HIST CORTESE
CA FID UST
SLIC
HIST UST
SWEEPS UST
ENVIROSTOR

1000356959
CAD990788168

CERC-NFRAP:
Site ID: 0903629
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13052631.00000
Person ID: 9271184.00000

Contact Sequence ID: 13058705.00000
Person ID: 9270048.00000

Contact Sequence ID: 13089427.00000
Person ID: 13002167.00000

Contact Sequence ID: 13178212.00000
Person ID: 9270438.00000

CERCLIS-NFRAP Site Alias Name(s):
Alias Name: MIDDLE HARBOR RD
Alias Address: Not reported
CA

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 12/01/1987
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 07/05/1989

SHEREX CHEMICAL COMPANY INC (Continued) **1000356959**

Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 07/05/1989
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

RCRA-NonGen:
Date form received by agency: 08/18/1980
Facility name: SHEREX CHEMICAL COMPANY INC
Facility address: 1401 MIDDLE HARBOR RD
OAKLAND, CA 94607
EPA ID: CAD990788168
Mailing address: PO BOX 599
OAKLAND, CA 94604
Contact: ENVIRONMENTAL MANAGER
Contact address: 1401 MIDDLE HARBOR RD
OAKLAND, CA 94607
Contact country: US
Contact telephone: (415) 832-3882
Contact email: Not reported
EPA Region: 09
Land type: Other land type
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: ASAG INC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No

SHEREX CHEMICAL COMPANY INC (Continued) **1000356959**

Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date:	11/22/1985
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State

Evaluation date:	12/12/1983
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	EPA

FINDS:

Registry ID: 110002903733

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	CALSI
Reg Id:	01730096

CA FID UST:

Facility ID:	01002240
Regulated By:	UTNKI
Regulated ID:	00059372
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4158323882
Mail To:	Not reported
Mailing Address:	1401 MIDDLE HARBOR RD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	OAKLAND 94607
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported

SHEREX CHEMICAL COMPANY INC (Continued) **1000356959**

NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

SLIC:
Region: STATE
Facility Status: **Open - Inactive**
Status Date: 06/02/2009
Global Id: T0600191494
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.798797
Longitude: -122.294135
Case Type: Cleanup Program Site
Case Worker: UUU
Local Agency: Not reported
RB Case Number: 01S0085
File Location: Not reported
Potential Media Affected: Under Investigation
Potential Contaminants of Concern: Toluene
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

SLIC:
Region: 2
Facility ID: 01S0085
Facility Status: Preliminary site assessment underway
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: 6/16/1994
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HIST UST:
Region: STATE
Facility ID: 00000059372
Facility Type: Other
Other Type: MANUFACTURING
Total Tanks: 0002
Contact Name: R.W. FISHER, PLT MGR/F.W. TREF
Telephone: 4158323882
Owner Name: SHEREX CHEMICAL COMPANY, INC.
Owner Address: 1401 MIDDLE HARBOR ROAD
Owner City,St,Zip: OAKLAND, CA 94607

Tank Num: 001
Container Num: U1

SHEREX CHEMICAL COMPANY INC (Continued) **1000356959**

Year Installed: 1935
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: Not reported
Leak Detection: Visual

Tank Num: 002
Container Num: U2
Year Installed: Not reported
Tank Capacity: 00000550
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: Not reported
Leak Detection: Visual

SWEEPS UST:
Status: Not reported
Comp Number: 59372
Number: Not reported
Board Of Equalization: 44-000592
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-059372-000001
Actv Date: Not reported
Capacity: 12000
Tank Use: UNKNOWN
Stg: PRODUCT
Content: Not reported
Number Of Tanks: 2

Status: Not reported
Comp Number: 59372
Number: Not reported
Board Of Equalization: 44-000592
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-059372-000002
Actv Date: Not reported
Capacity: 550
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

ENVIROSTOR:
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 5.5
NPL: NO

SHEREX CHEMICAL COMPANY INC (Continued) **1000356959**

Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Denise Tsuji
Division Branch:	Cleanup Berkeley
Facility ID:	01730096
Site Code:	Not reported
Assembly:	16
Senate:	09
Special Program:	EPA - PASI
Status:	Refer: Local Agency
Status Date:	09/17/2009
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	37.7936093623006
Longitude:	-122.296693325043
APN:	NONE SPECIFIED
Past Use:	MANUFACTURING - CHEMICALS
Potential COC:	10061, 10097, 10098, 10199, 20001, 20011, 30013, 30108, 30153, 30407
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	ASHLAND CHEMICAL CO.
Alias Type:	Alternate Name
Alias Name:	EL DORADO OIL WORKS
Alias Type:	Alternate Name
Alias Name:	FOREMOST DAIRIES
Alias Type:	Alternate Name
Alias Name:	FOREMOST MCKESSON CO.
Alias Type:	Alternate Name
Alias Name:	MIDDLE HARBOR ROAD
Alias Type:	Alternate Name
Alias Name:	T0600191494
Alias Type:	GeoTracker Global ID
Alias Name:	CAD990788168
Alias Type:	HWTS Identification Code
Alias Name:	01730096
Alias Type:	Envirostor ID Number
Alias Name:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T060191494
Alias Type:	External Website Link / URL

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment Report
Completed Date:	10/19/1988
Comments:	Preliminary Assessment Done: Groundwater contamination identified. Site Inspection needed to assess extent of contamination.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	06/01/1987
Comments:	Site Screening Done: DHS received complaint report. Based on available information, recommend Preliminary Assessment to obtain additional info.

SHEREX CHEMICAL COMPANY INC (Continued) **1000356959**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 09/17/2009
Comments: Final & Signed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 10/07/1980
Comments: Facility identified via drive-by.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

117
ENE
1/2-1
0.905 mi.
4777 ft.

MANDELA GRAND
MANDELA PARKWAY AND WEST GRAND
OAKLAND, CA 94607

VCP
ENVIROSTOR

S108195929
N/A

Relative:
Lower

Actual:
11 ft.

VCP:
Facility ID: 60000433
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 13.5
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: JUANITA (NINA) BACEY
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 201723
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Inactive - Needs Evaluation
Status Date: 08/05/2009
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.8157321405365 / -122.288815253778
APN: 005-040-0001-01, 005-040-1001-04, 005-040-2004-02, 005-040-2005-02, 005-040-2006-00, 005-041-9001-04, 005-042-0001-03, 005-042-0001-05
Past Use: MANUFACTURING - METAL, RETAIL - SERVICE STATION
Potential COC: 30013, 30024, 30025, 3002502, 30108
Confirmed COC: 30024-NO,30025-NO,30108-NO,30013-NO,3002502-NO
Potential Description: SOIL
Alias Name: American Steel
Alias Type: Alternate Name

MANDELA GRAND (Continued) **S108195929**

Alias Name: Pacific Pipe
Alias Type: Alternate Name
Alias Name: 005-040-0001-01
Alias Type: APN
Alias Name: 005-040-1001-04
Alias Type: APN
Alias Name: 005-040-2004-02
Alias Type: APN
Alias Name: 005-040-2005-02
Alias Type: APN
Alias Name: 005-040-2006-00
Alias Type: APN
Alias Name: 005-041-9001-04
Alias Type: APN
Alias Name: 005-042-0001-03
Alias Type: APN
Alias Name: 005-042-0001-05
Alias Type: APN
Alias Name: 110033608549
Alias Type: EPA (FRS #)
Alias Name: 201723
Alias Type: Project Code (Site Code)
Alias Name: 60000433
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 13.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: JUANITA (NINA) BACEY
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 60000433
Site Code: 201723
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program

MANDELA GRAND (Continued) **S108195929**

Status:	Inactive - Needs Evaluation
Status Date:	08/05/2009
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.8157321405365
Longitude:	-122.288815253778
APN:	005-040-0001-01, 005-040-1001-04, 005-040-2004-02, 005-040-2005-02, 005-040-2006-00, 005-041-9001-04, 005-042-0001-03, 005-042-0001-05
Past Use:	MANUFACTURING - METAL, RETAIL - SERVICE STATION
Potential COC:	30013, 30024, 30025, 3002502, 30108
Confirmed COC:	30024-NO,30025-NO,30108-NO,30013-NO,3002502-NO
Potential Description:	SOIL
Alias Name:	American Steel
Alias Type:	Alternate Name
Alias Name:	Pacific Pipe
Alias Type:	Alternate Name
Alias Name:	005-040-0001-01
Alias Type:	APN
Alias Name:	005-040-1001-04
Alias Type:	APN
Alias Name:	005-040-2004-02
Alias Type:	APN
Alias Name:	005-040-2005-02
Alias Type:	APN
Alias Name:	005-040-2006-00
Alias Type:	APN
Alias Name:	005-041-9001-04
Alias Type:	APN
Alias Name:	005-042-0001-03
Alias Type:	APN
Alias Name:	005-042-0001-05
Alias Type:	APN
Alias Name:	110033608549
Alias Type:	EPA (FRS #)
Alias Name:	201723
Alias Type:	Project Code (Site Code)
Alias Name:	60000433
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

118
West
1/2-1
0.906 mi.
4783 ft.

C-103 YARD
2700 7TH STEET
OAKLAND, CA 92626

Notify 65
S100178868
N/A

Relative:
Lower

Actual:
8 ft.

Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 92626

119
NE
1/2-1
0.932 mi.
4923 ft.

ARMY-NAVY DISTRIBUTING CENTER

OAKLAND, CA

FUDS
1007211908
N/A

Relative:
Lower

Actual:
10 ft.

FUDS:
Federal Facility ID: CA9799F5696
FUDS #: J09CA0753
INST ID: 57292
Facility Name: Army-Navy Distributing Center
City: OAKLAND
State: CA
EPA Region: 9
County: ALAMEDA
Congressional District: 09
US Army District: Sacramento District (SPK)
Fiscal Year: 2009
Telephone: 916-557-7461
NPL Status: Not Listed
RAB: Not reported
CTC: 1.99346
Current Owner: PRIVATE

FUDS Description Details:

The site is 3.08 acres and is located in the City of Oakland in
Alameda County, CA. Two 10,000-gallon underground storage tanks
(USTs), a pumping station, a diesel fuel dispenser, and two fill pipes
were installed and used by the Santa Fe Land and Im
mprovement Company prior to and after Department of Defense leased the
property. The USTs were last used in June 1962 for diesel fuel storage
and dispensing. A private individual currently owns the property and
leases it to LDS Truck Lines and A.M. a
and S Transportation Company for use as a warehouse and truck
distributing center.

FUDS History Details:

On 15 October 1943, the War Department leased a total of 3.08 acres
from the Santa Fe Land and Improvement Company. The 9th District’s
Transportation Officer used the site for warehousing facilities,
trucking operations, and as a distribution center.
. The War Department terminated the lease on 15 June 1946 and the site
reverted back to the Santa Fe Land and Improvement Company. In 1982
the property was sold to a private individual. There are no potential
hazards related to previous DoD activitie
es currently identified at this site.

ARMY-NAVY DISTRIBUTING CENTER (Continued) **1007211908**

FUDS Current Program Details:

FUDS Future Program Details:

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120 **North** **1/2-1** **0.972 mi.** **5130 ft.**	**OAB HEROIC WAR DEAD USAR AKA: HEROIC W** **2400 ENGINEER ROAD** **OAKLAND, CA 94604**	**HIST Cal-Sites** **Cortese** **MCS** **RESPONSE** **ENVIROSTOR**	**S105954429** **N/A**

Relative:
Lower

Actual:
8 ft.

HISTORICAL CAL-SITES:
Facility ID: 01970015
Region: 2
Region Name: BERKELEY
Branch: NO
Branch Name: OMF-NORTHERN CALIF
File Name: OAB HEROIC WAR DEAD USAR
State Senate District: 07232003
Status: AWP - ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency: DTSC
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type: OPEN
Type Name: OPEN MILITARY BASE
NPL: Not Listed
SIC Code: 97
SIC Name: NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Access: Not reported
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Not reported
Staff Member Responsible for Site: HWONG
Supervisor Responsible for Site: Not reported
Region Water Control Board: Not reported
Region Water Control Board Name: Not reported
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 16
State Senate District Code: 09
Facility ID: 01970015
Activity: RAW
Activity Name: REMOVAL ACTION WORKPLAN
AWP Code: IR1
Proposed Budget: 0
AWP Completion Date: 04152003
Revised Due Date: Not reported
Comments Date: 04152003
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01970015
Activity:	CEQA
Activity Name:	CEQA INCLUDING NEGATIVE DECS
AWP Code:	IR1
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	04152003
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	2400 ENGINEER ROAD
Alternate City,St,Zip:	OAKLAND, CA 94604
Alternate Address:	4235 YORKTOWN AVENUE
Alternate City,St,Zip:	LOS ALAMITOS, CA 90720
Background Info:	OAB Heroic War Dead USAR, also known as the United States Army Reserve Center, Oakland, is located near the eastern terminus of the San Francisco-Oakland Bay Bridge. Installation Restoration (IR) Site 1 is located at the northwestern portion of the USAR Center. The site consists of a wash rack (WR) which is a concrete pad, a below-grade oil water separator (OWS), and the surrounding soil. The WR/OWS is approximately 15-feet by 20-feet in dimension. The site immediately surrounding the WR/OWS is unpaved and covered with soil and gravel. The previous owner, Oakland Army Base, formerly used IR Site 1 to wash vehicles and engine components. Operations ceased sometime prior to the USAR occupying the property in early 1970s. The USAR did not know of the existence of the WR/OWS until they were uncovered in 1994 during a grading operation. The area has since been fenced to prevent unauthorized use. Investigations reveal tha the soil contains concentrations of petroleum hydrocarbons, metals, and volatile organic compounds (VOCs) above regulatory guidelines. The shallow groundwater is also impacted with VOCs. From these results, it is surmised that the best course of action is to remove the WR/OWS and surrounding soil to minimize any further contamination to the groundwater. DT

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

SC has approved a Risk Assessment Workplan (RAW) for the removal
impacted soil and WR/OWS. The interim removal action would preve
nt any further degradation to the environment while aditional inv
estigation is conducted.
Comments Date: 04152003
Comments: RAW - IR1 -- Intallation Restoration Site 1 (IR1) consists of a w
Comments Date: 04152003
Comments: ash rack which is a concrete pad, a below-grade oil water separat
Comments Date: 04152003
Comments: or, and the surrounding soil. DTSC approved the Removal Action W
Comments Date: 04152003
Comments: orkpland for cleanup of IR1. CEQA - IR1 -- Installation Restora
Comments Date: 04152003
Comments: tion Site 1 (IR1) consists of a wash rack which is a concrete pad
Comments Date: 04152003
Comments: , a below-grade oil water separator, and the surrounding soil. D
Comments Date: 04152003
Comments: TSC approved the Notice of Exemption for the discretionary decisi
Comments Date: 04152003
Comments: on on the Removal Action Workplan for cleanup of IR1.
Comments Date: 08182004
Comments: RA - IR1 -- Installation Restoration Site 1 (IR1) consists of a w
Comments Date: 08182004
Comments: ash rack which is a concrete pad, a below-grade oil water separat
Comments Date: 08182004
Comments: or, and the surrounding soil. The Army Reserve implemented the D
Comments Date: 08182004
Comments: TSC-approved Removal Action Workplan, removed approximately 900 c
Comments Date: 08182004
Comments: ubic yards of debris and impacted soil, disposed the excavated ma
Comments Date: 08182004
Comments: terial at appropriated permitted off-site land disposal facilitie
Comments Date: 08182004
Comments: s, collected confirmation soil samples, backfilled the excavation
Comments Date: 08182004
Comments: , and restored the ground surface with asphalt pavement. DTSC co
Comments Date: 08182004
Comments: ncurs that the Army Reserve has implemented the activities as spe
Comments Date: 08182004
Comments: cified in the Removal Action Workplan. DTSC hereby approved the
Comments Date: 08182004
Comments: Removal Action Report on August 18, 2004.
ID Name: CALSTARS CODE
ID Value: 201107
Alternate Name: UNITED STATES ARMY RESERVE CENTEROAB HEROIC WAR DEAD USAROAB Heroic War Dead USAR Aka: Heroic W
Special Programs Code: Not reported
Special Programs Name: Not reported

Cortese:
Region: CORTESE
Envirostor Id: 80001225
Site/Facility Type: STATE RESPONSE
Cleanup Status: CERTIFIED / OPERATION & MAINTENANCE
Status Date: 6/25/2009
Site Code: 201764
Latitude: 37.82498

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

Longitude:	-122.299901
EPA Id:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Effective Date:	Not reported
Order No:	Not reported
Region:	Not reported
WDID:	Not reported
Swat R:	Not reported
Waste Discharger System Num:	Not reported
Solid Waste Id Num:	Not reported
Waste Management Unit Name:	Not reported
Agency Name:	Not reported

MCS:

Global Id:	T0600123986
Latitude:	37.8243194117743
Longitude:	-122.297422885895
Case Type:	Military Cleanup Site
Status:	Completed - Case Closed
Status Date:	05/30/2007
Lead Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Caseworker:	HW
Local Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number:	Not reported
LOC Case Number:	201107
File Location:	DTSC
Potential Media Affect:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	From Envirostor: NO FURTHER ACTION (05/30/07): DTSC had approved the Remedial Investigation Report on 5/25/07 and inactivated the oOAB Heroic War Dead USARo project on 5/30/07. The Army Reserve had requested DTSC to continue subsequent cleanup activities under a new project oOakland Army Reserve Exchangeo with a different funding source. Please go to oOakland Army Reserve Exchangeo for further project status. (Geotracker case # T10000001240) PROJECT INFORMATION: OAB Heroic War Dead USAR, also known as the United States Army Reserve Center, is located near the eastern terminus of the San Francisco-Oakland Bay Bridge. Installation Restoration (IR) Site 1 is located at the northwestern portion of the USAR Center. The site consists of a wash rack (WR) which is a concrete pad, a below-grade oil water separator (OWS), and the surrounding soil. The WR/OWS is approximately 15-feet by 20-feet in dimension. The site immediately surrounding the WR/OWS is unpaved and covered with soil and gravel. The previous owner, Oakland Army Base, formerly used IR Site 1 to wash vehicles and engine components. Operations ceased sometime prior to the USAR occupying the property in early 1970s. The USAR did not know of the existence of the WR/OWS until they were uncovered in 1994 during a grading operation. The area has since been fenced to prevent unauthorized use. Investigations reveal that the soil contains concentrations of petroleum hydrocarbons, metals, and volatile organic compounds (VOCs) above regulatory guidelines. DTSC had approved a Removal Action Workplan for the impacted soil and WR/OWS, and accepted the Removal Action Report. The Army Reserve also monitored the groundwater quality and prepared a Remedial Investigation Report.

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

Click here to access the California GeoTracker records for this facility:

AWP:
AWP Facility ID: 01970015
Region Code: 2
Region: BERKELEY
SMBR Branch Code: NO
SMBR Branch Unit: OMF-NORTHERN CALIF
Site Name.: OAB HEROIC WAR DEAD USAR
Current Status Date: 07232003
Current Status: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency Code: DTSC
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type: Open military facility
Awp Site Type: OPEN MILITARY BASE
NPL: Not Listed
Tier Of AWP Site: Not reported
Source Of Funding: Not reported
Responsible Staff Member: HWONG
Supervisor Responsible: Not reported
SIC Code: 97
Facility SIC: NATIONAL SECURITY/INTERNATIONAL AFFAIRS
RWQCB Code: Not reported
RWQCB Associated With Site: Not reported
Site Access Controlled: Not reported
Site Listed HWS List: Not reported
Hazard Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Not reported
Of Contamination Sources: 0
Lat/Long: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Description Of Entity: Not reported
State Assembly Distt Code: 16
State Senate District: 09

RESPONSE:
Facility ID: 80001225
Site Type: State Response
Site Type Detail: Closed Base
Acres: 16
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: HENRY WONG
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 201764
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 16
Senate: 09
Special Program Status: Voluntary Cleanup Program
Status: Certified / Operation & Maintenance

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

Status Date: 06/25/2009
Restricted Use: NO
Funding: Other Non-Military Funds
Latitude: 37.82498
Longitude: -122.299901
APN: NONE SPECIFIED
Past Use: DEGREASING FACILITY, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, MACHINE SHOP, MAINTENANCE / CLEANING, UNKNOWN
Potential COC: 30001, 30013, 30018, 30019, 30022, 30024, 30025, 3002502, 30026, 30027, 30028
Confirmed COC: 30001,30013,30018,30019,30024,30025,30027,30028,3002502,30026,30022
Potential Description: OTH, SOIL
Alias Name: 201764
Alias Type: Project Code (Site Code)
Alias Name: 71000002
Alias Type: Envirostor ID Number
Alias Name: 80001225
Alias Type: Envirostor ID Number
Alias Name: 80001225
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 03/23/2009
Comments: On 3/23/09, DTSC approved the 2007 Annual Monitoring and Compliance Report (Annual Report) dated March 2008 for the Heroic War Dead East Bay Municipal Utility District (EBMUD) site, also known as the EBMUD West End Property. The Annual Report presents the results of the first bi-annual monitoring event conducted in July 2007, discusses soil disturbance activities, and serves as an annual report with site inspection summary pursuant to Section 4.02(d) of the Covenant to Restrict Use of Property, Environmental Restriction.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/24/2009
Comments: When conducting semi-annual groundwater monitoring pursuant to the 2008 Operation and Maintenance Plan at wells FMW-1, FMW-2, FMW-3, FMW-4, MW-5, MW-6, and EMW-4, EBMUD does not need to obtain DTSC s written approval before conducting groundwater monitoring activities.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 08/09/2010
Comments: DTSC prepared the Site Visit Summary for the 6/16/10 annual inspection of the Herioc War Dead EBMUD site.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 04/07/2009
Comments: EBMUD and DTSC entered into the Consent Agreement on 4/7/09. The purposes of this Agreement are (a) to bind EBMUD to comply with the

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

Operation and Maintenance Plan approved by DTSC on September 29, 2008, which specifies inspection, soil management, groundwater monitoring, annual reporting, and five-year review requirements at the Site, and (b) to provide for reimbursement of DTSC’s oversight costs from EBMUD.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Plan
Completed Date:	09/29/2008
Comments:	DTSC approved the Operation and Maintenance (O&M) Plan on 9/29/08. The O&M Plan specifies procedures for operation, monitoring, and maintenance of remedial actions implemented at the Heroic War Dead EBMUD. The plan outlines O&M procedures for: the Building 1070 Yard engineered asphalt cap, the Building 1070 Yard lead-impacted soil area, groundwater monitoring at the Building 1070 Yard area, the Building 1064 Yard PV-18 PAH-impacted soil area, and site-wide soil and groundwater/liquid management. The O&M Plan also contains requirements for annual reporting and Five-Year Reviews.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	03/23/2009
Comments:	DTSC received the revised 2007 Annual Monitoring and Compliance Report (Annual Report) dated March 2008 for the Heroic War Dead East Bay Municipal Utility District (EBMUD) site, also known as the EBMUD West End Property. The Annual Report presents the results of the first bi-annual monitoring event conducted in July 2007, discusses soil disturbance activities, and serves as an annual report pursuant to Section 4.02(d) of the Covenant to Restrict Use of Property, Environmental Restriction. On October 30, 2008, DTSC provided comments on a previous draft report. DTSC has reviewed the revised Annual Report and the EBMUD s response letter dated March 17, 2009, and found the Annual Report and response letter satisfactory. DTSC hereby approves the 2007 Annual Report.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	10/08/2009
Comments:	DTSC concurs with the 2008 Annual Monitoring and Compliance Report.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Soils Management Plan
Completed Date:	07/02/2010
Comments:	On 7/2/10, DTSC approved EBMUD s request to import fill approximately 2,600 cubic yards of the soil from EBMUD s Main Waste Wastewater Treatment Plant to backfill the former Building 1101 area. DTSC has reviewed laboratory data and confirmed that chemical concentrations from the proposed fill are below hazardous waste levels and HWD EBMUD s remediation goals. DTSC has reiterated that the Covenant s provisions regarding soil excavation and disturbance continue to apply at the former Building 1101 area.

Completed Area Name:	Basewide

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 05/13/2010
Comments: DTSC concurred with the 2009 annual report dated March 2010.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 04/01/2009
Comments: EBMUD plans to demolish Building 1101 and other related construction activities which will involve excavation and off-site disposal of approximately 6,850 cubic yards of soil. EBMUD also foresees dewatering of groundwater and accumulated liquid at the Building 1101 area. DTSC reviewed EBMUD s February 5, 2009 request letter and approved the request with the following reminder: 1.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Basewide
Schedule Sub Area Name: Not reported
Schedule Document Type: 5 Year Review Reports
Schedule Due Date: 6/30/2012
Schedule Revised Date: Not reported

Facility ID: 01970015
Site Type: State Response
Site Type Detail: Open Base
Acres: 0.5
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: HENRY WONG
Supervisor: Daniel Murphy
Division Branch: Cleanup Berkeley
Site Code: 201107
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 16
Senate: 09
Special Program Status: Not reported
Status: No Further Action
Status Date: 05/30/2007
Restricted Use: NO
Funding: DERA
Latitude: 37.824307
Longitude: -122.297374
APN: NONE SPECIFIED
Past Use: DEGREASING FACILITY, OIL/WATER SEPARATORS, RECYCLING - DRUM
Potential COC: 10199, 10019, 10060, 10028, 10003
Confirmed COC: NONE SPECIFIED
Potential Description: OTH, SED, SOIL
Alias Name: OAB HEROIC WAR DEAD USAR
Alias Type: Alternate Name
Alias Name: UNITED STATES ARMY RESERVE CENTER
Alias Type: Alternate Name

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

Alias Name: 110033612302
Alias Type: EPA (FRS #)
Alias Name: T0600123986
Alias Type: GeoTracker Global ID
Alias Name: 201107
Alias Type: Project Code (Site Code)
Alias Name: 01970015
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: IR01
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Assessment
Completed Date: 04/15/2003
Comments: RAW - IR1 -- Intallation Restoration Site 1 (IR1) consists of a wash rack which is a concrete pad, a below-grade oil water separator, and the surrounding soil. DTSC approved the Removal Action Workpland for cleanup of IR1. Environmental Assessment - IR1 -- Installation Restoration Site 1 (IR1) consists of a wash rack which is a concrete pad, a below-grade oil water separator, and the surrounding soil. DTSC approved the Environmental Assessment for the discretionary decision on the Removal Action Workplan for cleanup of IR1.

Completed Area Name: IR01
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 05/25/2007
Comments: The FS Report summarizes groundwater monitoring results and evaluates remedial alternatives for groundwater at IR Site 1. IR Site 1 is a small portion of the Heroic War Dead United States Army Reserve Center in Oakland, California. DTSC has reviewed and commented on the FS Report, as well as previous drafts. The Army Reserve has addressed DTSC s comments satisfactorily; therefore, DTSC approves the FS Report for IR Site 1.

Completed Area Name: IR01
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/06/2005
Comments: Groundwater monitoring reports reviewed completed. Data will be transferred to the RI/FS of the Oakalnd Army Reserve Exchange project. Not reported

Completed Area Name: IR01
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 05/25/2007
Comments: The RI Report presents investigation data for soil, soil gas, grab groundwater at Installation Restoration (IR) Site 1. IR Site 1 is a small portion of the Heroic War Dead United States Army Reserve Center in Oakland, California. DTSC has reviewed and commented on the RI Report, as well as previous drafts. The Army Reserve has addressed DTSC s comments satisfactorily; therefore, DTSC approves the RI Report.

Completed Area Name: IR01
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

Completed Date: 03/15/2004
Comments: GW monitoring plan completed.

Completed Area Name: IR01
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 08/18/2004
Comments: Installation Restoration Site 1 consists of a wash rack which is a concrete pad, a below-grade oil water separator, and the surrounding soil. The Army Reserve implemented the DTSC-approved Removal Action Workplan, removed approximately 900 cubic yards of debris and impacted soil, disposed the excavated material at appropriated permitted off-site land disposal facilities, collected confirmation soil samples, backfilled the excavation, and restored the ground surface with asphalt pavement. DTSC concurs that the Army Reserve has implemented the activities as specified in the Removal Action Workplan. DTSC approved the Removal Action Report on August 18, 2004.

Completed Area Name: IR01
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 04/15/2003
Comments: On 4/15/03, DTSC approved the Engineering Evaluation/Cost Analysis and Removal Action Workplan for Removal Action, Installation Restoration Site 1 (RAW) for the Heroic War Dead United States Army Reserve Center. The RAW proposes removal of the vehicle wash rack and oil water separator (WR/OWS) and adjacent contaminated soil at Installation Restoration Site 1. The Army Reserve will dispose the excavated soil and debris at off-site permitted disposal facilities. The removal action is an interim action for soil which may or may not serve as the final remedy. The Army Reserve should continue to characterize soil and groundwater contamination and to evaluate remedial alternatives at Installation Restoration Site 1.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: State Response
Site Type Detailed: Closed Base
Acres: 16
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: HENRY WONG
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 80001225
Site Code: 201764
Assembly: 16

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

Senate: 09
Special Program: Voluntary Cleanup Program
Status: Certified / Operation & Maintenance
Status Date: 06/25/2009
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Other Non-Military Funds
Latitude: 37.82498
Longitude: -122.299901
APN: NONE SPECIFIED
Past Use: DEGREASING FACILITY, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, MACHINE SHOP, MAINTENANCE / CLEANING, UNKNOWN
Potential COC: 30001, 30013, 30018, 30019, 30022, 30024, 30025, 3002502, 30026, 30027, 30028
Confirmed COC: 30001,30013,30018,30019,30024,30025,30027,30028,3002502,30026,30022
Potential Description: OTH, SOIL
Alias Name: 201764
Alias Type: Project Code (Site Code)
Alias Name: 71000002
Alias Type: Envirostor ID Number
Alias Name: 80001225
Alias Type: Envirostor ID Number
Alias Name: 80001225
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 03/23/2009
Comments: On 3/23/09, DTSC approved the 2007 Annual Monitoring and Compliance Report (Annual Report) dated March 2008 for the Heroic War Dead East Bay Municipal Utility District (EBMUD) site, also known as the EBMUD West End Property. The Annual Report presents the results of the first bi-annual monitoring event conducted in July 2007, discusses soil disturbance activities, and serves as an annual report with site inspection summary pursuant to Section 4.02(d) of the Covenant to Restrict Use of Property, Environmental Restriction.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/24/2009
Comments: When conducting semi-annual groundwater monitoring pursuant to the 2008 Operation and Maintenance Plan at wells FMW-1, FMW-2, FMW-3, FMW-4, MW-5, MW-6, and EMW-4, EBMUD does not need to obtain DTSC s written approval before conducting groundwater monitoring activities.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 08/09/2010
Comments: DTSC prepared the Site Visit Summary for the 6/16/10 annual inspection of the Herioc War Dead EBMUD site.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

Completed Document Type: Consent Agreement
Completed Date: 04/07/2009
Comments: EBMUD and DTSC entered into the Consent Agreement on 4/7/09. The purposes of this Agreement are (a) to bind EBMUD to comply with the Operation and Maintenance Plan approved by DTSC on September 29, 2008, which specifies inspection, soil management, groundwater monitoring, annual reporting, and five-year review requirements at the Site, and (b) to provide for reimbursement of DTSC’s oversight costs from EBMUD.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 09/29/2008
Comments: DTSC approved the Operation and Maintenance (O&M) Plan on 9/29/08. The O&M Plan specifies procedures for operation, monitoring, and maintenance of remedial actions implemented at the Heroic War Dead EBMUD. The plan outlines O&M procedures for: the Building 1070 Yard engineered asphalt cap, the Building 1070 Yard lead-impacted soil area, groundwater monitoring at the Building 1070 Yard area, the Building 1064 Yard PV-18 PAH-impacted soil area, and site-wide soil and groundwater/liquid management. The O&M Plan also contains requirements for annual reporting and Five-Year Reviews.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 03/23/2009
Comments: DTSC received the revised 2007 Annual Monitoring and Compliance Report (Annual Report) dated March 2008 for the Heroic War Dead East Bay Municipal Utility District (EBMUD) site, also known as the EBMUD West End Property. The Annual Report presents the results of the first bi-annual monitoring event conducted in July 2007, discusses soil disturbance activities, and serves as an annual report pursuant to Section 4.02(d) of the Covenant to Restrict Use of Property, Environmental Restriction. On October 30, 2008, DTSC provided comments on a previous draft report. DTSC has reviewed the revised Annual Report and the EBMUD s response letter dated March 17, 2009, and found the Annual Report and response letter satisfactory. DTSC hereby approves the 2007 Annual Report.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 10/08/2009
Comments: DTSC concurs with the 2008 Annual Monitoring and Compliance Report.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 07/02/2010
Comments: On 7/2/10, DTSC approved EBMUD s request to import fill approximately 2,600 cubic yards of the soil from EBMUD s Main Waste Wastewater Treatment Plant to backfill the former Building 1101 area. DTSC has reviewed laboratory data and confirmed that chemical concentrations from the proposed fill are below hazardous waste levels and HWD EBMUD s remediation goals. DTSC has reiterated that the Covenant s

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

provisions regarding soil excavation and disturbance continue to apply at the former Building 1101 area.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 05/13/2010
Comments: DTSC concurred with the 2009 annual report dated March 2010.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 04/01/2009
Comments: EBMUD plans to demolish Building 1101 and other related construction activities which will involve excavation and off-site disposal of approximately 6,850 cubic yards of soil. EBMUD also foresees dewatering of groundwater and accumulated liquid at the Building 1101 area. DTSC reviewed EBMUD s February 5, 2009 request letter and approved the request with the following reminder: 1.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Basewide
Schedule Sub Area Name: Not reported
Schedule Document Type: 5 Year Review Reports
Schedule Due Date: 6/30/2012
Schedule Revised Date: Not reported

Site Type: State Response
Site Type Detailed: Open Base
Acres: 0.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: HENRY WONG
Supervisor: Daniel Murphy
Division Branch: Cleanup Berkeley
Facility ID: 01970015
Site Code: 201107
Assembly: 16
Senate: 09
Special Program: Not reported
Status: No Further Action
Status Date: 05/30/2007
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: DERA
Latitude: 37.824307
Longitude: -122.297374
APN: NONE SPECIFIED
Past Use: DEGREASING FACILITY, OIL/WATER SEPARATORS, RECYCLING - DRUM
Potential COC: 10199, 10019, 10060, 10028, 10003
Confirmed COC: NONE SPECIFIED
Potential Description: OTH, SED, SOIL
Alias Name: OAB HEROIC WAR DEAD USAR

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

Alias Type:	Alternate Name
Alias Name:	UNITED STATES ARMY RESERVE CENTER
Alias Type:	Alternate Name
Alias Name:	110033612302
Alias Type:	EPA (FRS #)
Alias Name:	T0600123986
Alias Type:	GeoTracker Global ID
Alias Name:	201107
Alias Type:	Project Code (Site Code)
Alias Name:	01970015
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	IR01
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Assessment
Completed Date:	04/15/2003
Comments:	RAW - IR1 -- Intallation Restoration Site 1 (IR1) consists of a wash rack which is a concrete pad, a below-grade oil water separator, and the surrounding soil. DTSC approved the Removal Action Workpland for cleanup of IR1. Environmental Assessment - IR1 -- Installation Restoration Site 1 (IR1) consists of a wash rack which is a concrete pad, a below-grade oil water separator, and the surrounding soil. DTSC approved the Environmental Assessment for the discretionary decision on the Removal Action Workplan for cleanup of IR1.

Completed Area Name:	IR01
Completed Sub Area Name:	Not reported
Completed Document Type:	Feasibility Study Report
Completed Date:	05/25/2007
Comments:	The FS Report summarizes groundwater monitoring results and evaluates remedial alternatives for groundwater at IR Site 1. IR Site 1 is a small portion of the Heroic War Dead United States Army Reserve Center in Oakland, California. DTSC has reviewed and commented on the FS Report, as well as previous drafts. The Army Reserve has addressed DTSC s comments satisfactorily; therefore, DTSC approves the FS Report for IR Site 1.

Completed Area Name:	IR01
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	05/06/2005
Comments:	Groundwater monitoring reports reviewed completed. Data will be transferred to the RI/FS of the Oakalnd Army Reserve Exchange project. Not reported

Completed Area Name:	IR01
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	05/25/2007
Comments:	The RI Report presents investigation data for soil, soil gas, grab groundwater at Installation Restoration (IR) Site 1. IR Site 1 is a small portion of the Heroic War Dead United States Army Reserve Center in Oakland, California. DTSC has reviewed and commented on the RI Report, as well as previous drafts. The Army Reserve has addressed DTSC s comments satisfactorily; therefore, DTSC approves the RI Report.

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

Completed Area Name:	IR01
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	03/15/2004
Comments:	GW monitoring plan completed.

Completed Area Name:	IR01
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	08/18/2004
Comments:	Installation Restoration Site 1 consists of a wash rack which is a concrete pad, a below-grade oil water separator, and the surrounding soil. The Army Reserve implemented the DTSC-approved Removal Action Workplan, removed approximately 900 cubic yards of debris and impacted soil, disposed the excavated material at appropriated permitted off-site land disposal facilities, collected confirmation soil samples, backfilled the excavation, and restored the ground surface with asphalt pavement. DTSC concurs that the Army Reserve has implemented the activities as specified in the Removal Action Workplan. DTSC approved the Removal Action Report on August 18, 2004.

Completed Area Name:	IR01
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	04/15/2003
Comments:	On 4/15/03, DTSC approved the Engineering Evaluation/Cost Analysis and Removal Action Workplan for Removal Action, Installation Restoration Site 1 (RAW) for the Heroic War Dead United States Army Reserve Center. The RAW proposes removal of the vehicle wash rack and oil water separator (WR/OWS) and adjacent contaminated soil at Installation Restoration Site 1. The Army Reserve will dispose the excavated soil and debris at off-site permitted disposal facilities. The removal action is an interim action for soil which may or may not serve as the final remedy. The Army Reserve should continue to characterize soil and groundwater contamination and to evaluate remedial alternatives at Installation Restoration Site 1.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Count: 38 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
EMERYVILLE	1003878593	EMERYVILLE MARKETPLACE	BETW 64TH, POWELL,I80, SPRR TR	94608	CERC-NFRAP
EMERYVILLE	U001599302	P*I*E NATIONWIDE, INC.	5500 EASTSHORE HWY	94608	HIST UST
EMERYVILLE	U001599310	RYDER/PIE NATIONWIDE, INC.	5500 EASTSHORE HWY	94608	HIST UST
EMERYVILLE	S103393753	IKEA (FORMER BARBARY COAST)	4300 EASTSHORE HWY	94608	HIST Cal-Sites, Cortese, DEED, EMI
EMERYVILLE	U001599287	JUDSON STEEL CORPORATION	4200 EASTSHORE HWY	94608	HIST UST
EMERYVILLE	1003878532	CAPITOL REF CO	FOOT OF 64TH ST	94608	CERC-NFRAP
EMERYVILLE	S102008252	ST ALBANS SENIOR CENTER	I-80 FRONTAGE RD N	94608	ENVIROSTOR
OAKLAND	1003878888	PG&E GAS PLANT OAKLAND 601 2	1ST BET JEFFERSON & MARKET	94607	CERC-NFRAP
OAKLAND	1012043058	FOSTER'S PLATING	1570 34TH ST	94608	CERCLIS
OAKLAND	2004719403	5TH AND CEDAR	5TH AND CEDAR		ERNS
OAKLAND	94415863	7TH AND CEDAR STS	7TH AND CEDAR STS		ERNS
OAKLAND	A100345910	OAKLAND TERMINAL	7TH & BAY ST	94607	AST
OAKLAND	1010562235	CALTRANS DIST 4 OAKLAND TOUCHDOWN	RTE 80 POSTMILE 1 TO 1.7	94607	RCRA-LQG
OAKLAND	S106234893	OAKLAND TERMINAL RAILWAY PROPERTY	HWY 80 & INTERCHANGE S OF EME		SLIC
OAKLAND	S106661112	CALTRANS EAST BAY SERVICE ROAD TEN	0 BAY BRIDGE TOLL PLZ	94607	Alameda County CS
OAKLAND	S102008190	PHOENIX 766 PROPERTY	766 CEDAR ST	94607	HIST CORTESE, VCP, ENVIROSTOR
OAKLAND	S101624394	SOUTHERN PACIFIC	721 CEDAR ST	94607	HIST CORTESE, LUST, CA FID UST, Alameda County CS, SWEEPS UST
OAKLAND	S106235215	UNION PACIFIC RAILROAD - 5TH AND U	CROSS 5TH & UNION		SLIC
OAKLAND	U001599227	STEAM PLANT, W.O. DIESEL SHOP	FOOT OF PINE ST.	94607	HIST UST
OAKLAND	1007569166	DEPARTMENT OF TRANSPORTATION	SF OAKLAND BAY BRG	94608	RCRA-SQG, HAZNET
OAKLAND	S106661209	UNION PACIFIC RAILROAD/SPT CO LOCO	0 PINE ST	94607	Alameda County CS
OAKLAND	S105025321	OAKLAND CITY OF PARKING S	UNKNOWN 7TH / JEFFERSON S	94607	HIST CORTESE
OAKLAND	S105025322	SOUTHERN PACIFIC RAILYARD	UNKNOWN 8TH ST E. / 8TH A	94607	HIST CORTESE
OAKLAND	S104233647	BART MAINTENANCE FACILITY	UNKNOWN 5TH ST / 8TH AVE	94607	HIST CORTESE
OAKLAND	S105025319	VACANT LOT	UNKNOWN 11TH ST	94607	HIST CORTESE
OAKLAND	S109349269	UNION PACIFIC RAILROAD/SPT CO LOCO	UNKNOWN PINE	94607	SLIC
OAKLAND	S106235280	BAY BRIDGE TOLL PLAZA	UNKNOWN BAY BRG	94607	SLIC
OAKLAND	S106235276	OAKLAND CITY OF	UNKNOWN 12TH ST E & 14TH AVE	94607	SLIC
OAKLAND	S106162026	GREYHOUND LINE INC	UNKNOWN 7TH & BRUSH	94607	LUST
OAKLAND	S106162867	OAKLAND OEDE CITY OF	UNKNOWN 12TH ST & MARTIN LUTH		LUST, SLIC
OAKLAND	S104539364	SOUTHERN PACIFIC TRANSPORT COMPANY	UNKNOWN 5TH AVE / KIRKHAM	94607	HIST CORTESE, LUST
OAKLAND	S109689868	EAST BAY MUNICIPAL UTILITY DISTRIC	2020 WAKE AVE	94607	SWF/LF
OAKLAND	S109283928	EBMUD POLLUTION CONTRL PLANT	2020 WAKE AVE	94607	LUST, CHMIRS
OAKLAND	S106568694	BNSF WOOD STREET YARD	WOOD ST & W GRAND AVE	94607	HIST Cal-Sites, DEED, RESPONSE, ENVIROSTOR
OAKLAND	S106661116	CITY OF OAKLAND POLICE STATION	ZERO CLAY ST & 5TH ST	94607	Alameda County CS
OAKLAND	S106661088	CALTRANS CYPRESS PROJECT	ZERO 5TH ST & ADELINE ST	94607	Alameda County CS
OAKLAND	S109926666	BAYPORTE VILLAGE (ACORN II APARTME	ZERO 8TH ST & MARKET ST	94607	Alameda County CS
OAKLAND	S109283960	SOUTHERN PACIFIC RAILYARD	ZERO 8TH ST E & 8TH AVE	94607	LUST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/31/2011	Source: EPA
Date Data Arrived at EDR: 04/13/2011	Telephone: N/A
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 07/12/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 10/24/2011
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1 Telephone 617-918-1143	EPA Region 6 Telephone: 214-655-6659
EPA Region 3 Telephone 215-814-5418	EPA Region 7 Telephone: 913-551-7247
EPA Region 4 Telephone 404-562-8033	EPA Region 8 Telephone: 303-312-6774
EPA Region 5 Telephone 312-886-6686	EPA Region 9 Telephone: 415-947-4246
EPA Region 10 Telephone 206-553-8665	

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/31/2011	Source: EPA
Date Data Arrived at EDR: 04/13/2011	Telephone: N/A
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 07/12/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 10/24/2011
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/31/2011	Source: EPA
Date Data Arrived at EDR: 04/13/2011	Telephone: N/A
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 07/12/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 10/24/2011
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/25/2011	Source: EPA
Date Data Arrived at EDR: 03/01/2011	Telephone: 703-412-9810
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 09/01/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPAa??s Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/10/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/11/2011	Telephone: 703-603-8704
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 07/15/2011
Number of Days to Update: 36	Next Scheduled EDR Contact: 10/24/2011
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA’s knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 02/25/2011	Source: EPA
Date Data Arrived at EDR: 03/01/2011	Telephone: 703-412-9810
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 09/01/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/09/2011	Source: EPA
Date Data Arrived at EDR: 03/15/2011	Telephone: 800-424-9346
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 08/15/2011
Number of Days to Update: 91	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/15/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/07/2011	Telephone: (415) 495-8895
Date Made Active in Reports: 08/08/2011	Last EDR Contact: 07/07/2011
Number of Days to Update: 32	Next Scheduled EDR Contact: 10/17/2011
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/15/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/07/2011	Telephone: (415) 495-8895
Date Made Active in Reports: 08/08/2011	Last EDR Contact: 07/07/2011
Number of Days to Update: 32	Next Scheduled EDR Contact: 10/17/2011
	Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/15/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/07/2011	Telephone: (415) 495-8895
Date Made Active in Reports: 08/08/2011	Last EDR Contact: 07/07/2011
Number of Days to Update: 32	Next Scheduled EDR Contact: 10/17/2011
	Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/15/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/07/2011	Telephone: (415) 495-8895
Date Made Active in Reports: 08/08/2011	Last EDR Contact: 07/07/2011
Number of Days to Update: 32	Next Scheduled EDR Contact: 10/17/2011
	Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/16/2011
Date Data Arrived at EDR: 03/25/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/16/2011
Date Data Arrived at EDR: 03/25/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 04/05/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 70

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 07/05/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/09/2011
Date Data Arrived at EDR: 08/09/2011
Date Made Active in Reports: 09/09/2011
Number of Days to Update: 31

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 09/15/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control’s (DTSC’s) Site Mitigation and Brownfields Reuse Program’s (SMBRP’s) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/09/2011
Date Data Arrived at EDR: 08/09/2011
Date Made Active in Reports: 09/09/2011
Number of Days to Update: 31

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 09/15/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/23/2011
Date Data Arrived at EDR: 05/24/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 22

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 08/24/2011
Next Scheduled EDR Contact: 12/05/2011
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board’s LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 06/27/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board’s LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Quarterly

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 08/09/2011
Date Data Arrived at EDR: 08/11/2011
Date Made Active in Reports: 09/12/2011
Number of Days to Update: 32

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 09/20/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

SLIC: Statewide SLIC Cases

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 08/09/2011
Date Data Arrived at EDR: 08/11/2011
Date Made Active in Reports: 09/12/2011
Number of Days to Update: 32

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/20/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/04/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 39

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 05/05/2011
Date Data Arrived at EDR: 08/02/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 42

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/02/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/18/2011
Date Data Arrived at EDR: 08/19/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 25

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 08/11/2011
Date Data Arrived at EDR: 08/12/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 32

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Semi-Annually

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/31/2011
Date Data Arrived at EDR: 02/01/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 48

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 02/16/2011
Date Data Arrived at EDR: 06/02/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 103

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 08/02/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Varies

State and tribal registered storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 08/09/2011	Source: SWRCB
Date Data Arrived at EDR: 08/11/2011	Telephone: 916-480-1028
Date Made Active in Reports: 09/09/2011	Last EDR Contact: 09/20/2011
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
Registered Aboveground Storage Tanks.

Date of Government Version: 08/01/2009	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/10/2009	Telephone: 916-341-5712
Date Made Active in Reports: 10/01/2009	Last EDR Contact: 07/08/2011
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/24/2011
	Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 08/04/2011	Source: EPA Region 10
Date Data Arrived at EDR: 08/05/2011	Telephone: 206-553-2857
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 08/01/2011
Number of Days to Update: 39	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 08/04/2011	Source: EPA Region 9
Date Data Arrived at EDR: 08/05/2011	Telephone: 415-972-3368
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 08/01/2011
Number of Days to Update: 39	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/18/2011	Source: EPA Region 8
Date Data Arrived at EDR: 08/19/2011	Telephone: 303-312-6137
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 08/01/2011
Number of Days to Update: 25	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/01/2011	Source: EPA Region 7
Date Data Arrived at EDR: 06/01/2011	Telephone: 913-551-7003
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 08/02/2011
Number of Days to Update: 13	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 07/01/2011
Date Data Arrived at EDR: 08/26/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 18

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 08/11/2011
Date Data Arrived at EDR: 08/12/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 32

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 05/05/2011
Date Data Arrived at EDR: 08/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 36

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/02/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC’s costs.

Date of Government Version: 08/09/2011
Date Data Arrived at EDR: 08/09/2011
Date Made Active in Reports: 09/09/2011
Number of Days to Update: 31

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 09/15/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 05/05/2011
Date Data Arrived at EDR: 07/05/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 70

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 07/05/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 06/27/2011
Date Data Arrived at EDR: 06/27/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/27/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 06/27/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: No Update Planned

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 08/15/2011
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 06/01/2011	Source: Department of Conservation
Date Data Arrived at EDR: 06/21/2011	Telephone: 916-323-3836
Date Made Active in Reports: 07/15/2011	Last EDR Contact: 09/20/2011
Number of Days to Update: 24	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 05/24/2011	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 05/24/2011	Telephone: 916-341-6422
Date Made Active in Reports: 06/15/2011	Last EDR Contact: 09/06/2011
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/05/2011
	Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 08/08/2011
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/21/2011
	Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 04/08/2011	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 06/16/2011	Telephone: 202-307-1000
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 09/07/2011
Number of Days to Update: 89	Next Scheduled EDR Contact: 12/19/2011
	Data Release Frequency: Quarterly

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/09/2011
Date Data Arrived at EDR: 08/09/2011
Date Made Active in Reports: 09/09/2011
Number of Days to Update: 31

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 09/15/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 06/30/2011
Date Data Arrived at EDR: 08/11/2011
Date Made Active in Reports: 09/09/2011
Number of Days to Update: 29

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009
Date Data Arrived at EDR: 09/23/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 05/05/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 125

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 08/12/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 07/11/2011
Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Varies

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 06/28/2011
Date Data Arrived at EDR: 06/29/2011
Date Made Active in Reports: 07/08/2011
Number of Days to Update: 9

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program’s oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder’s office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 06/13/2011
Date Data Arrived at EDR: 06/14/2011
Date Made Active in Reports: 07/15/2011
Number of Days to Update: 31

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 09/13/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 04/05/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 161

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 07/05/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 05/03/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 43

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 08/09/2011
Date Data Arrived at EDR: 08/11/2011
Date Made Active in Reports: 09/12/2011
Number of Days to Update: 32

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/20/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 08/09/2011
Date Data Arrived at EDR: 08/11/2011
Date Made Active in Reports: 09/12/2011
Number of Days to Update: 32

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/20/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

Other Ascertainable Records

RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/15/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/07/2011	Telephone: (415) 495-8895
Date Made Active in Reports: 08/08/2011	Last EDR Contact: 07/07/2011
Number of Days to Update: 32	Next Scheduled EDR Contact: 10/17/2011
	Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/12/2011	Source: Department of Transporation, Office of Pipeline Safety
Date Data Arrived at EDR: 02/11/2011	Telephone: 202-366-4595
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 08/09/2011
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/21/2011
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/22/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 10/31/2011
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2009	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 08/12/2010	Telephone: 202-528-4285
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 09/12/2011
Number of Days to Update: 112	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2010	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 04/05/2011	Telephone: Varies
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 07/01/2011
Number of Days to Update: 70	Next Scheduled EDR Contact: 10/17/2011
	Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 05/31/2011	Source: EPA
Date Data Arrived at EDR: 06/15/2011	Telephone: 703-416-0223
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 09/14/2011
Number of Days to Update: 90	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/21/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 99

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/31/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/06/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/08/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/17/2010
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 94

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 09/01/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/30/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/31/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/31/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 08/18/2011
Number of Days to Update: 77	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/07/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/21/2011	Telephone: 202-564-5088
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 06/27/2011
Number of Days to Update: 59	Next Scheduled EDR Contact: 10/10/2011
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB’s who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010	Source: EPA
Date Data Arrived at EDR: 11/10/2010	Telephone: 202-566-0500
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 07/22/2011
Number of Days to Update: 98	Next Scheduled EDR Contact: 10/31/2011
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011
Date Data Arrived at EDR: 07/15/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 60

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/11/2011
Date Data Arrived at EDR: 01/13/2011
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/12/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/14/2010
Date Data Arrived at EDR: 04/16/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 41

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 09/13/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 03/01/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 62

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 09/01/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Biennially

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/20/2007	Telephone: 916-341-5227
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 08/31/2011
Number of Days to Update: 9	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Quarterly

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 05/24/2011	Source: State Water Resources Control Board
Date Data Arrived at EDR: 05/24/2011	Telephone: 916-445-9379
Date Made Active in Reports: 06/15/2011	Last EDR Contact: 08/24/2011
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/05/2011
	Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

Date of Government Version: 07/01/2011	Source: CAL EPA/Office of Emergency Information
Date Data Arrived at EDR: 07/01/2011	Telephone: 916-323-3400
Date Made Active in Reports: 07/15/2011	Last EDR Contact: 07/01/2011
Number of Days to Update: 14	Next Scheduled EDR Contact: 10/17/2011
	Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES].

Date of Government Version: 04/01/2001	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/22/2009	Telephone: 916-323-3400
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 01/22/2009
Number of Days to Update: 76	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 10/21/1993	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/01/1993	Telephone: 916-445-3846
Date Made Active in Reports: 11/19/1993	Last EDR Contact: 06/27/2011
Number of Days to Update: 18	Next Scheduled EDR Contact: 10/10/2011
	Data Release Frequency: No Update Planned

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 06/28/2011
Date Data Arrived at EDR: 07/21/2011
Date Made Active in Reports: 08/11/2011
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 07/19/2011
Date Made Active in Reports: 08/16/2011
Number of Days to Update: 28

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/19/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 10/18/2010
Number of Days to Update: 19

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/30/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/22/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 07/15/2011
Next Scheduled EDR Contact: 11/07/2011
Data Release Frequency: Varies

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 06/01/2011
Date Data Arrived at EDR: 06/21/2011
Date Made Active in Reports: 07/15/2011
Number of Days to Update: 24

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/20/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 06/09/2011
Date Data Arrived at EDR: 06/16/2011
Date Made Active in Reports: 07/15/2011
Number of Days to Update: 29

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/16/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Varies

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 07/18/2011
Date Data Arrived at EDR: 07/19/2011
Date Made Active in Reports: 08/11/2011
Number of Days to Update: 23

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/19/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Quarterly

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/09/2010
Date Data Arrived at EDR: 08/11/2010
Date Made Active in Reports: 08/20/2010
Number of Days to Update: 9

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 09/01/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Quarterly

FINANCIAL ASSURANCE 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 03/15/2011	Source: California Integrated Waste Management Board
Date Data Arrived at EDR: 03/16/2011	Telephone: 916-341-6066
Date Made Active in Reports: 04/26/2011	Last EDR Contact: 09/14/2011
Number of Days to Update: 41	Next Scheduled EDR Contact: 12/05/2011
	Data Release Frequency: Varies

FINANCIAL ASSURANCE 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 03/01/2007	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 06/01/2007	Telephone: 916-255-3628
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 08/05/2011
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/22/2011
Number of Days to Update: 339	Next Scheduled EDR Contact: 10/31/2011
	Data Release Frequency: N/A

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 01/01/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/18/2009	Telephone: 202-566-0517
Date Made Active in Reports: 05/29/2009	Last EDR Contact: 08/05/2011
Number of Days to Update: 100	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR’s researchers. Manufactured gas sites were used in the United States from the 1800’s to 1950’s to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR’s review was limited to those categories of sources that might, in EDR’s opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 07/21/2011
Date Data Arrived at EDR: 07/21/2011
Date Made Active in Reports: 08/11/2011
Number of Days to Update: 21

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 07/21/2011
Date Data Arrived at EDR: 07/21/2011
Date Made Active in Reports: 08/11/2011
Number of Days to Update: 21

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Semi-Annually

BUTTE COUNTY:

CUPA Facility Listing

Cupa facility list.

Date of Government Version: 03/29/2011
Date Data Arrived at EDR: 04/20/2011
Date Made Active in Reports: 05/17/2011
Number of Days to Update: 27

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Varies

COLUSA COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 12/01/2010	Source: Health & Human Services
Date Data Arrived at EDR: 04/20/2011	Telephone: 530-458-0396
Date Made Active in Reports: 05/17/2011	Last EDR Contact: 08/15/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 10/31/2011
	Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 08/30/2011	Source: Contra Costa Health Services Department
Date Data Arrived at EDR: 08/31/2011	Telephone: 925-646-2286
Date Made Active in Reports: 09/19/2011	Last EDR Contact: 08/09/2011
Number of Days to Update: 19	Next Scheduled EDR Contact: 11/21/2011
	Data Release Frequency: Semi-Annually

EL DORADO COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 03/28/2011	Source: El Dorado County Environmental Management Department
Date Data Arrived at EDR: 05/13/2011	Telephone: 530-621-6623
Date Made Active in Reports: 06/15/2011	Last EDR Contact: 08/22/2011
Number of Days to Update: 33	Next Scheduled EDR Contact: 11/21/2011
	Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA’s are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/18/2011	Source: Dept. of Community Health
Date Data Arrived at EDR: 07/19/2011	Telephone: 559-445-3271
Date Made Active in Reports: 08/11/2011	Last EDR Contact: 07/18/2011
Number of Days to Update: 23	Next Scheduled EDR Contact: 10/31/2011
	Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 02/08/2011	Source: Humboldt County Environmental Health
Date Data Arrived at EDR: 03/03/2011	Telephone: N/A
Date Made Active in Reports: 03/24/2011	Last EDR Contact: 09/12/2011
Number of Days to Update: 21	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 06/13/2011	Source: Inyo County Environmental Health Services
Date Data Arrived at EDR: 06/14/2011	Telephone: 760-878-0238
Date Made Active in Reports: 07/19/2011	Last EDR Contact: 09/12/2011
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 08/31/2010	Source: Kern County Environment Health Services Department
Date Data Arrived at EDR: 09/01/2010	Telephone: 661-862-8700
Date Made Active in Reports: 09/30/2010	Last EDR Contact: 09/13/2011
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List

A listing of sites included in the county?s Certified Unified Program Agency database. California?s Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 06/09/2011	Source: Kings County Department of Public Health
Date Data Arrived at EDR: 06/09/2011	Telephone: 559-584-1411
Date Made Active in Reports: 07/08/2011	Last EDR Contact: 09/12/2011
Number of Days to Update: 29	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009	Source: EPA Region 9
Date Data Arrived at EDR: 03/31/2009	Telephone: 415-972-3178
Date Made Active in Reports: 10/23/2009	Last EDR Contact: 03/28/2011
Number of Days to Update: 206	Next Scheduled EDR Contact: 10/10/2011
	Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 03/31/2011	Source: Department of Public Works
Date Data Arrived at EDR: 06/09/2011	Telephone: 626-458-3517
Date Made Active in Reports: 06/15/2011	Last EDR Contact: 07/18/2011
Number of Days to Update: 6	Next Scheduled EDR Contact: 10/31/2011
	Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/25/2011
Date Data Arrived at EDR: 07/27/2011
Date Made Active in Reports: 08/11/2011
Number of Days to Update: 15

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/27/2011
Next Scheduled EDR Contact: 11/07/2011
Data Release Frequency: Varies

City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/05/2009
Date Data Arrived at EDR: 03/10/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 29

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 08/23/2011
Next Scheduled EDR Contact: 12/05/2011
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 02/09/2011
Date Data Arrived at EDR: 02/09/2011
Date Made Active in Reports: 03/04/2011
Number of Days to Update: 23

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/22/2011
Next Scheduled EDR Contact: 11/07/2011
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 02/03/2011
Date Data Arrived at EDR: 02/08/2011
Date Made Active in Reports: 03/03/2011
Number of Days to Update: 23

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 07/25/2011
Next Scheduled EDR Contact: 11/07/2011
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 07/18/2011
Date Data Arrived at EDR: 07/21/2011
Date Made Active in Reports: 08/11/2011
Number of Days to Update: 21

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List

A listing of sites included in the county?s Certified Unified Program Agency database. California?s Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 06/07/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 07/08/2011
Number of Days to Update: 30

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 07/15/2011
Date Data Arrived at EDR: 07/25/2011
Date Made Active in Reports: 08/11/2011
Number of Days to Update: 17

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 07/11/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 06/06/2011
Date Data Arrived at EDR: 06/06/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 9

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 07/07/2011
Date Data Arrived at EDR: 07/08/2011
Date Made Active in Reports: 08/11/2011
Number of Days to Update: 34

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 08/31/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 07/09/2008
Date Data Arrived at EDR: 07/09/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 22

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 08/22/2011
Date Data Arrived at EDR: 08/23/2011
Date Made Active in Reports: 09/19/2011
Number of Days to Update: 27

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 08/22/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 08/01/2011
Date Data Arrived at EDR: 08/23/2011
Date Made Active in Reports: 09/19/2011
Number of Days to Update: 27

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/17/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 05/05/2011
Date Data Arrived at EDR: 05/20/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 26

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/17/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 08/01/2011
Date Data Arrived at EDR: 08/23/2011
Date Made Active in Reports: 09/16/2011
Number of Days to Update: 24

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/17/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 06/20/2011
Date Data Arrived at EDR: 06/21/2011
Date Made Active in Reports: 07/08/2011
Number of Days to Update: 17

Source: Placer County Health and Human Services
Telephone: 530-889-7312
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 07/22/2011
Date Made Active in Reports: 08/11/2011
Number of Days to Update: 20

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/27/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 07/20/2011	Source: Department of Environmental Health
Date Data Arrived at EDR: 07/22/2011	Telephone: 951-358-5055
Date Made Active in Reports: 08/11/2011	Last EDR Contact: 06/27/2011
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/10/2011
	Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 05/02/2011	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 07/19/2011	Telephone: 916-875-8406
Date Made Active in Reports: 08/11/2011	Last EDR Contact: 07/08/2011
Number of Days to Update: 23	Next Scheduled EDR Contact: 10/24/2011
	Data Release Frequency: Quarterly

Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/02/2011	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 07/19/2011	Telephone: 916-875-8406
Date Made Active in Reports: 08/11/2011	Last EDR Contact: 07/08/2011
Number of Days to Update: 23	Next Scheduled EDR Contact: 10/24/2011
	Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 08/26/2011	Source: San Bernardino County Fire Department Hazardous Materials Division
Date Data Arrived at EDR: 08/31/2011	Telephone: 909-387-3041
Date Made Active in Reports: 09/19/2011	Last EDR Contact: 08/15/2011
Number of Days to Update: 19	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/09/2010	Source: Hazardous Materials Management Division
Date Data Arrived at EDR: 09/15/2010	Telephone: 619-338-2268
Date Made Active in Reports: 09/29/2010	Last EDR Contact: 09/16/2011
Number of Days to Update: 14	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2010
Date Data Arrived at EDR: 11/16/2010
Date Made Active in Reports: 01/25/2011
Number of Days to Update: 70

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/27/2011
Date Data Arrived at EDR: 06/29/2011
Date Made Active in Reports: 07/08/2011
Number of Days to Update: 9

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/27/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 05/31/2011
Date Data Arrived at EDR: 05/31/2011
Date Made Active in Reports: 07/08/2011
Number of Days to Update: 38

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 07/13/2011
Date Data Arrived at EDR: 07/15/2011
Date Made Active in Reports: 08/11/2011
Number of Days to Update: 27

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/12/2012
Data Release Frequency: Annually

Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 06/20/2011
Date Data Arrived at EDR: 06/21/2011
Date Made Active in Reports: 07/15/2011
Number of Days to Update: 24

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 11/22/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 08/31/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Varies

SANTA CLARA COUNTY:

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 07/20/2011
Date Data Arrived at EDR: 08/11/2011
Date Made Active in Reports: 09/09/2011
Number of Days to Update: 29

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: Annually

Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 08/31/2009
Date Data Arrived at EDR: 08/31/2009
Date Made Active in Reports: 09/18/2009
Number of Days to Update: 18

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 08/31/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List

CUPA facility listing.

Date of Government Version: 08/31/2011
Date Data Arrived at EDR: 08/31/2011
Date Made Active in Reports: 09/09/2011
Number of Days to Update: 9

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 08/31/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 08/31/2011
Date Data Arrived at EDR: 08/31/2011
Date Made Active in Reports: 09/19/2011
Number of Days to Update: 19

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 08/31/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/09/2011
Date Data Arrived at EDR: 06/29/2011
Date Made Active in Reports: 07/08/2011
Number of Days to Update: 9

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 06/09/2011
Date Data Arrived at EDR: 07/01/2011
Date Made Active in Reports: 07/13/2011
Number of Days to Update: 12

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/05/2011
Date Data Arrived at EDR: 04/06/2011
Date Made Active in Reports: 05/12/2011
Number of Days to Update: 36

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 07/05/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 06/13/2011	Source: Sutter County Department of Agriculture
Date Data Arrived at EDR: 06/14/2011	Telephone: 530-822-7500
Date Made Active in Reports: 07/13/2011	Last EDR Contact: 09/12/2011
Number of Days to Update: 29	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 07/26/2011	Source: Ventura County Environmental Health Division
Date Data Arrived at EDR: 08/26/2011	Telephone: 805-654-2813
Date Made Active in Reports: 09/19/2011	Last EDR Contact: 08/23/2011
Number of Days to Update: 24	Next Scheduled EDR Contact: 12/05/2011
	Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 04/01/2011	Source: Environmental Health Division
Date Data Arrived at EDR: 04/07/2011	Telephone: 805-654-2813
Date Made Active in Reports: 05/12/2011	Last EDR Contact: 08/22/2011
Number of Days to Update: 35	Next Scheduled EDR Contact: 10/24/2011
	Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008	Source: Environmental Health Division
Date Data Arrived at EDR: 06/24/2008	Telephone: 805-654-2813
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 08/23/2011
Number of Days to Update: 37	Next Scheduled EDR Contact: 12/05/2011
	Data Release Frequency: Quarterly

Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 07/26/2011	Source: Ventura County Resource Management Agency
Date Data Arrived at EDR: 08/08/2011	Telephone: 805-654-2813
Date Made Active in Reports: 09/09/2011	Last EDR Contact: 08/01/2011
Number of Days to Update: 32	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 05/25/2011	Source: Environmental Health Division
Date Data Arrived at EDR: 06/21/2011	Telephone: 805-654-2813
Date Made Active in Reports: 07/13/2011	Last EDR Contact: 09/20/2011
Number of Days to Update: 22	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 08/15/2011
Date Data Arrived at EDR: 08/23/2011
Date Made Active in Reports: 09/16/2011
Number of Days to Update: 24

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 08/22/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 08/23/2011
Date Data Arrived at EDR: 08/26/2011
Date Made Active in Reports: 09/19/2011
Number of Days to Update: 24

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 08/26/2009
Date Made Active in Reports: 09/11/2009
Number of Days to Update: 16

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/26/2011
Next Scheduled EDR Contact: 12/05/2011
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 07/20/2011
Date Made Active in Reports: 08/11/2011
Number of Days to Update: 22

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/20/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2011
Date Data Arrived at EDR: 08/09/2011
Date Made Active in Reports: 09/16/2011
Number of Days to Update: 38

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/09/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2008	Source: Department of Environmental Protection
Date Data Arrived at EDR: 12/01/2009	Telephone: 717-783-8990
Date Made Active in Reports: 12/14/2009	Last EDR Contact: 07/15/2011
Number of Days to Update: 13	Next Scheduled EDR Contact: 10/10/2011
	Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2010	Source: Department of Environmental Management
Date Data Arrived at EDR: 06/24/2011	Telephone: 401-222-2797
Date Made Active in Reports: 06/30/2011	Last EDR Contact: 08/31/2011
Number of Days to Update: 6	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2010	Source: Department of Natural Resources
Date Data Arrived at EDR: 08/19/2011	Telephone: N/A
Date Made Active in Reports: 09/15/2011	Last EDR Contact: 09/19/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association’s annual survey of hospitals.
Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.
Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.
Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics’ primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.
Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics’ primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5’ Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

800 CEDAR
800 CEDAR STREET
OAKLAND, CA 94607

TARGET PROPERTY COORDINATES

Latitude (North):	37.80980 - 37˚ 48’ 35.3’’
Longitude (West):	122.3033 - 122˚ 18’ 11.9’’
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	561327.9
UTM Y (Meters):	4184735.8
Elevation:	14 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	37122-G3 OAKLAND WEST, CA
Most Recent Revision:	1980

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

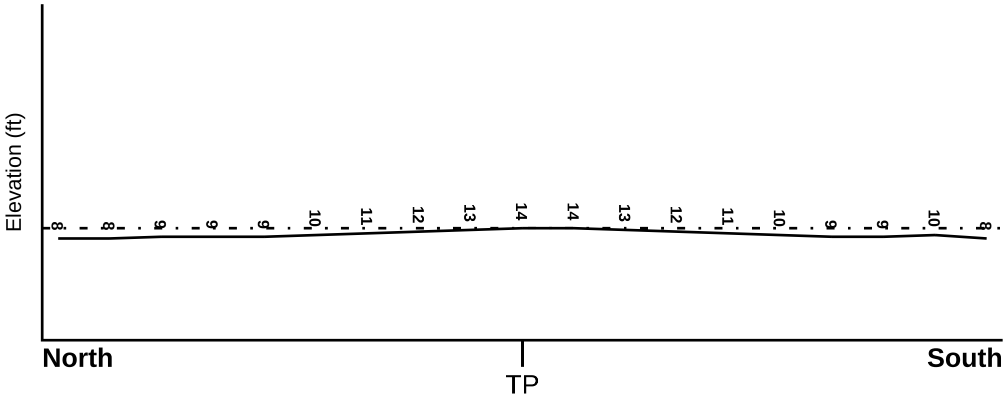
TOPOGRAPHIC INFORMATION

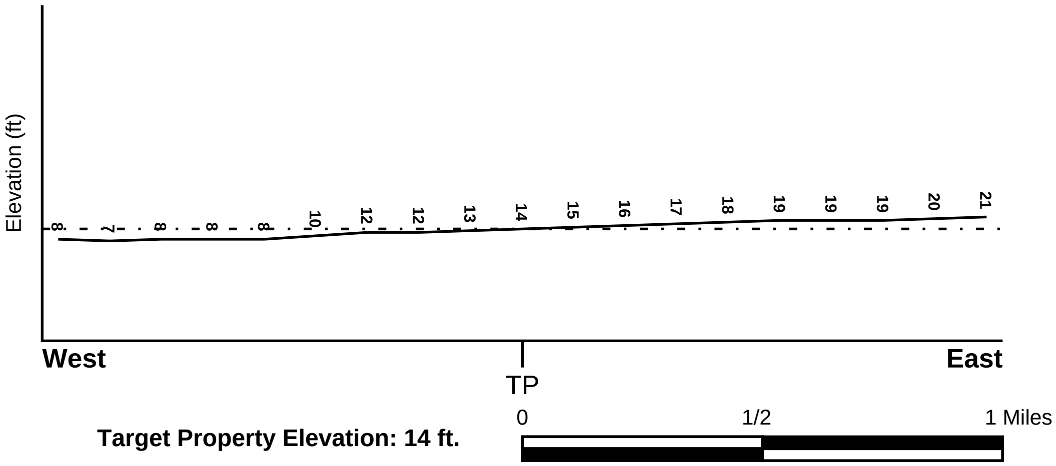
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WNW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 14 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
ALAMEDA, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 06001C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
OAKLAND WEST	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
1	1/4 - 1/2 Mile SW	E
2	1/4 - 1/2 Mile ESE	N, E, S, W
3	1/4 - 1/2 Mile East	NE, SE, S
A4	1/4 - 1/2 Mile NNW	Not Reported
5	1/4 - 1/2 Mile ENE	Not Reported
A6	1/4 - 1/2 Mile NNW	NW
A7	1/4 - 1/2 Mile NNW	NW
8	1/2 - 1 Mile West	SW
9	1/2 - 1 Mile SE	SW

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* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
10	1/2 - 1 Mile West	Varies
11	1/2 - 1 Mile East	SW
B12	1/2 - 1 Mile North	SW
B13	1/2 - 1 Mile North	SW
B14	1/2 - 1 Mile North	SSW
15	1/2 - 1 Mile SSW	E, W
16	1/2 - 1 Mile North	SE
C17	1/2 - 1 Mile ENE	N
C18	1/2 - 1 Mile ENE	SSW
19	1/2 - 1 Mile WNW	ENE, SSE, NW
D20	1/2 - 1 Mile East	N, S
D21	1/2 - 1 Mile East	NE
22	1/2 - 1 Mile North	S
D23	1/2 - 1 Mile East	Not Reported
D24	1/2 - 1 Mile East	Not Reported
C25	1/2 - 1 Mile ENE	NW
C26	1/2 - 1 Mile ENE	NW
C27	1/2 - 1 Mile ENE	NW
E28	1/2 - 1 Mile ENE	W
E29	1/2 - 1 Mile ENE	W
E30	1/2 - 1 Mile ENE	W
F31	1/2 - 1 Mile West	W
F32	1/2 - 1 Mile West	W
33	1/2 - 1 Mile NE	E, W
G34	1/2 - 1 Mile SE	SW
G35	1/2 - 1 Mile SE	SW
H36	1/2 - 1 Mile North	S
H37	1/2 - 1 Mile North	SE,S,Varies
I38	1/2 - 1 Mile ESE	S
I39	1/2 - 1 Mile ESE	SE,S,Varies
I40	1/2 - 1 Mile ESE	SE,S,Varies
41	1/2 - 1 Mile NE	SE

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

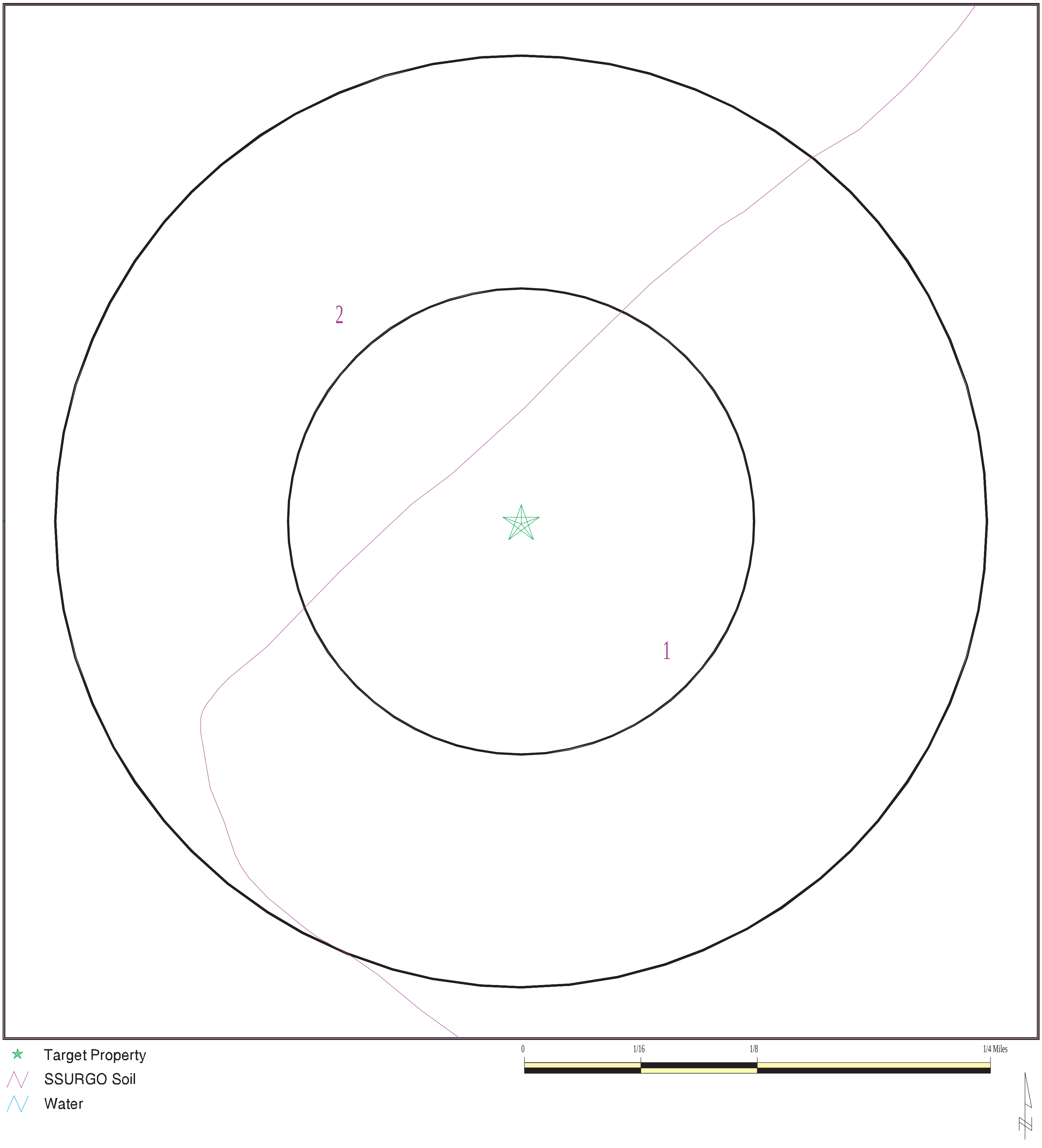
GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT		**GEOLOGIC AGE IDENTIFICATION**	
Era:	Cenozoic	Category:	Stratifed Sequence
System:	Quaternary		
Series:	Quaternary		
Code:	Q *(decoded above as Era, System & Series)*		

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 3170104.2s



SITE NAME:	800 Cedar	CLIENT:	Northgate Env. Management Inc.
ADDRESS:	800 Cedar Street Oakland CA 94607	CONTACT:	Anya Starovoytov
		INQUIRY #:	3170104.2s
LAT/LONG:	37.8098 / 122.3033	DATE:	September 20, 2011 6:06 pm

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture’s (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name:	Urban land
Soil Surface Texture:	
Hydrologic Group:	Not reported
Soil Drainage Class:	
Hydric Status: Partially hydric	
Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name:	Urban land
Soil Surface Texture:	
Hydrologic Group:	Not reported
Soil Drainage Class:	
Hydric Status: Partially hydric	
Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

No Layer Information available.

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

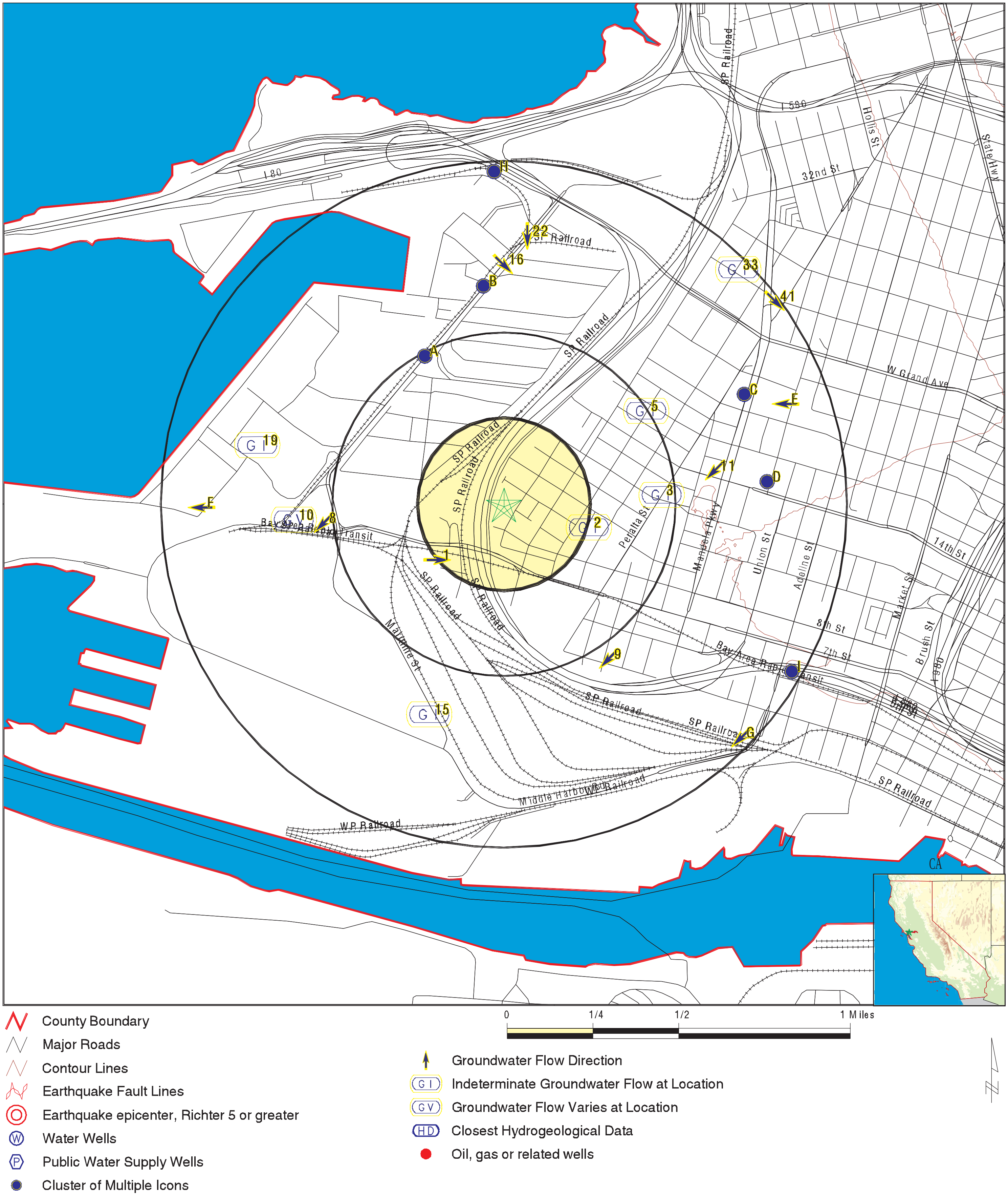
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 3170104.2s



SITE NAME:	800 Cedar	CLIENT:	Northgate Env. Management Inc.
ADDRESS:	800 Cedar Street	CONTACT:	Anya Starovoytov
	Oakland CA 94607	INQUIRY #:	3170104.2s
LAT/LONG:	37.8098 / 122.3033	DATE:	September 20, 2011 6:06 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
1	Site ID:	01-1414		
SW	Groundwater Flow:	E	**AQUIFLOW**	**67911**
1/4 - 1/2 Mile	Shallow Water Depth:	Not Reported		
Lower	Deep Water Depth:	Not Reported		
	Average Water Depth:	11.5		
	Date:	06/20/1988		
2	Site ID:	01-0487		
ESE	Groundwater Flow:	N, E, S, W	**AQUIFLOW**	**55917**
1/4 - 1/2 Mile	Shallow Water Depth:	Not Reported		
Higher	Deep Water Depth:	Not Reported		
	Average Water Depth:	12		
	Date:	12/31/1992		
3	Site ID:	01-0506		
East	Groundwater Flow:	NE, SE, S	**AQUIFLOW**	**55880**
1/4 - 1/2 Mile	Shallow Water Depth:	Not Reported		
Higher	Deep Water Depth:	Not Reported		
	Average Water Depth:	Not Reported		
	Date:	11/17/1994		
A4	Site ID:	01-0939		
NNW	Groundwater Flow:	Not Reported	**AQUIFLOW**	**55945**
1/4 - 1/2 Mile	Shallow Water Depth:	.6		
Lower	Deep Water Depth:	7.5		
	Average Water Depth:	Not Reported		
	Date:	04/1992		
5	Site ID:	01-0152		
ENE	Groundwater Flow:	Not Reported	**AQUIFLOW**	**55883**
1/4 - 1/2 Mile	Shallow Water Depth:	Not Reported		
Lower	Deep Water Depth:	Not Reported		
	Average Water Depth:	15		
	Date:	04/22/1993		
A6	Site ID:	01-0939		
NNW	Groundwater Flow:	NW	**AQUIFLOW**	**55946**
1/4 - 1/2 Mile	Shallow Water Depth:	Not Reported		
Lower	Deep Water Depth:	Not Reported		
	Average Water Depth:	10		
	Date:	11/1992		
A7	Site ID:	01-0939		
NNW	Groundwater Flow:	NW	**AQUIFLOW**	**55947**
1/4 - 1/2 Mile	Shallow Water Depth:	Not Reported		
Lower	Deep Water Depth:	Not Reported		
	Average Water Depth:	9		
	Date:	11/24/1992		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
8	Site ID:	01-0969		
West	Groundwater Flow:	SW	**AQUIFLOW**	**63917**
1/2 - 1 Mile	Shallow Water Depth:	Not Reported		
Lower	Deep Water Depth:	Not Reported		
	Average Water Depth:	Not Reported		
	Date:	05/06/1997		
9	Site ID:	01-0933		
SE	Groundwater Flow:	SW	**AQUIFLOW**	**55989**
1/2 - 1 Mile	Shallow Water Depth:	Not Reported		
Lower	Deep Water Depth:	Not Reported		
	Average Water Depth:	20		
	Date:	08/05/1992		
10	Site ID:	01-2020		
West	Groundwater Flow:	Varies	**AQUIFLOW**	**63928**
1/2 - 1 Mile	Shallow Water Depth:	49.4		
Lower	Deep Water Depth:	66.7		
	Average Water Depth:	Not Reported		
	Date:	07/13/1994		
11	Site ID:	01-0933		
East	Groundwater Flow:	SW	**AQUIFLOW**	**55988**
1/2 - 1 Mile	Shallow Water Depth:	6.5		
Higher	Deep Water Depth:	7.5		
	Average Water Depth:	Not Reported		
	Date:	04/08/1986		
B12	Site ID:	01-1310		
North	Groundwater Flow:	SW	**AQUIFLOW**	**55991**
1/2 - 1 Mile	Shallow Water Depth:	5.5		
Lower	Deep Water Depth:	6.0		
	Average Water Depth:	Not Reported		
	Date:	07/24/1998		
B13	Site ID:	01-1310		
North	Groundwater Flow:	SW	**AQUIFLOW**	**55992**
1/2 - 1 Mile	Shallow Water Depth:	4.5		
Lower	Deep Water Depth:	5.0		
	Average Water Depth:	Not Reported		
	Date:	07/03/1998		
B14	Site ID:	01-1310		
North	Groundwater Flow:	SSW	**AQUIFLOW**	**55993**
1/2 - 1 Mile	Shallow Water Depth:	Not Reported		
Lower	Deep Water Depth:	Not Reported		
	Average Water Depth:	15		
	Date:	08/04/1994		

Map ID Direction Distance Elevation			Database	EDR ID Number
15 **SSW** **1/2 - 1 Mile** **Lower**	Site ID:	01-1716	**AQUIFLOW**	**55929**
	Groundwater Flow:	E, W		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	6		
	Date:	10/29/1997		
16 **North** **1/2 - 1 Mile** **Lower**	Site ID:	01-2104	**AQUIFLOW**	**55910**
	Groundwater Flow:	SE		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	6.5		
	Date:	03/23/1994		
C17 **ENE** **1/2 - 1 Mile** **Lower**	Site ID:	01-5284	**AQUIFLOW**	**55940**
	Groundwater Flow:	N		
	Shallow Water Depth:	3.0		
	Deep Water Depth:	4.0		
	Average Water Depth:	Not Reported		
	Date:	02/18/1992		
C18 **ENE** **1/2 - 1 Mile** **Lower**	Site ID:	01-5284	**AQUIFLOW**	**55941**
	Groundwater Flow:	SSW		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	12		
	Date:	02/18/1992		
19 **WNW** **1/2 - 1 Mile** **Lower**	Site ID:	01-1009	**AQUIFLOW**	**65406**
	Groundwater Flow:	ENE, SSE, NW		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	9-20’		
	Date:	12/05/1994		
D20 **East** **1/2 - 1 Mile** **Higher**	Site ID:	01-0282	**AQUIFLOW**	**55976**
	Groundwater Flow:	N, S		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	5		
	Date:	06/05/1989		
D21 **East** **1/2 - 1 Mile** **Higher**	Site ID:	01-0282	**AQUIFLOW**	**55977**
	Groundwater Flow:	NE		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	Not Reported		
	Date:	03/27/1989		

Map ID Direction Distance Elevation			Database	EDR ID Number
22 **North** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-2104 S Not Reported Not Reported 7.5 08/05/1992	**AQUIFLOW**	**55911**
D23 **East** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-3911 Not Reported Not Reported Not Reported 10 03/24/1992	**AQUIFLOW**	**55972**
D24 **East** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-3911 Not Reported Not Reported Not Reported 10 11/08/1988	**AQUIFLOW**	**55973**
C25 **ENE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0438 NW Not Reported Not Reported 7.6 09/12/1997	**AQUIFLOW**	**55981**
C26 **ENE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0438 NW Not Reported Not Reported 4 05/06/1998	**AQUIFLOW**	**55982**
C27 **ENE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0438 NW Not Reported Not Reported 5 07/01/1998	**AQUIFLOW**	**55983**
E28 **ENE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-2048 W Not Reported Not Reported Not Reported 08/03/1993	**AQUIFLOW**	**55823**

Map ID Direction Distance Elevation			Database	EDR ID Number
E29 **ENE** **1/2 - 1 Mile** **Lower**	Site ID:	01-2048	**AQUIFLOW**	**55821**
	Groundwater Flow:	W		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	73		
	Date:	11/21/1988		
E30 **ENE** **1/2 - 1 Mile** **Lower**	Site ID:	01-2048	**AQUIFLOW**	**55822**
	Groundwater Flow:	W		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	74		
	Date:	09/24/1992		
F31 **West** **1/2 - 1 Mile** **Lower**	Site ID:	01-2046	**AQUIFLOW**	**51841**
	Groundwater Flow:	W		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	126’b		
	Date:	07/11/1997		
F32 **West** **1/2 - 1 Mile** **Lower**	Site ID:	01-2046	**AQUIFLOW**	**51893**
	Groundwater Flow:	W		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	6’ bg		
	Date:	06/24/1996		
33 **NE** **1/2 - 1 Mile** **Lower**	Site ID:	01-3995	**AQUIFLOW**	**55923**
	Groundwater Flow:	E, W		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	55		
	Date:	11/1995		
G34 **SE** **1/2 - 1 Mile** **Lower**	Site ID:	01-2143	**AQUIFLOW**	**55984**
	Groundwater Flow:	SW		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	8		
	Date:	06/20/1990		
G35 **SE** **1/2 - 1 Mile** **Lower**	Site ID:	01-2143	**AQUIFLOW**	**55985**
	Groundwater Flow:	SW		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	10		
	Date:	05/21/1990		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
H36 **North** **1/2 - 1 Mile** **Lower**	Site ID:	01-0718	**AQUIFLOW**	**55834**
	Groundwater Flow:	S		
	Shallow Water Depth:	16		
	Deep Water Depth:	18		
	Average Water Depth:	Not Reported		
	Date:	09/28/1992		
H37 **North** **1/2 - 1 Mile** **Lower**	Site ID:	01-0718	**AQUIFLOW**	**55835**
	Groundwater Flow:	SE,S,Varies		
	Shallow Water Depth:	8		
	Deep Water Depth:	12		
	Average Water Depth:	Not Reported		
	Date:	09/1992		
I38 **ESE** **1/2 - 1 Mile** **Higher**	Site ID:	01-2322	**AQUIFLOW**	**55794**
	Groundwater Flow:	S		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	15		
	Date:	03/05/1997		
I39 **ESE** **1/2 - 1 Mile** **Higher**	Site ID:	01-2322	**AQUIFLOW**	**55795**
	Groundwater Flow:	SE,S,Varies		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	5		
	Date:	09/26/1992		
I40 **ESE** **1/2 - 1 Mile** **Higher**	Site ID:	01-2322	**AQUIFLOW**	**55793**
	Groundwater Flow:	SE,S,Varies		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	8		
	Date:	01/17/1997		
41 **NE** **1/2 - 1 Mile** **Lower**	Site ID:	01-2218	**AQUIFLOW**	**63941**
	Groundwater Flow:	SE		
	Shallow Water Depth:	8.15		
	Deep Water Depth:	9.04		
	Average Water Depth:	Not Reported		
	Date:	07/14/1995		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
94607	3	0

Federal EPA Radon Zone for ALAMEDA County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for ALAMEDA COUNTY, CA

Number of sites tested: 49

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.776 pCi/L	100%	0%	0%
Living Area - 2nd Floor	-0.400 pCi/L	100%	0%	0%
Basement	1.338 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5’ Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5’ Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5’ Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture’s (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Health Services
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

APPENDIX C
AERIAL PHOTOGRAPHS

800 Cedar
800 Cedar Street
Oakland, CA 94607

Inquiry Number: 3170104.5
September 22, 2011

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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Date EDR Searched Historical Sources:

Aerial Photography September 22, 2011

Target Property:

800 Cedar Street
Oakland, CA 94607

Year	***Scale***	***Details***	***Source***
1939	Aerial Photograph. Scale: 1"=555'	Flight Year: 1939	Fairchild
1946	Aerial Photograph. Scale: 1"=655'	Flight Year: 1946	Jack Ammann
1959	Aerial Photograph. Scale: 1"=555'	Flight Year: 1959	Cartwright
1965	Aerial Photograph. Scale: 1"=333'	Flight Year: 1965	Cartwright
1975	Aerial Photograph. Scale: 1"=550'	Flight Year: 1975	NASA
1982	Aerial Photograph. Scale: 1"=690'	Flight Year: 1982	USGS
1993	Aerial Photograph. Scale: 1"=604'	/Composite DOQQ - acquisition dates: 1993	EDR
1998	Aerial Photograph. Scale: 1"=666'	Flight Year: 1998	USGS
2005	Aerial Photograph. Scale: 1"=604'	Flight Year: 2005	EDR

INQUIRY #: 3170104.5

YEAR: 1939

INQUIRY #: 3170104.5

YEAR: 1946

= 655'

INQUIRY #: 3170104.5

YEAR: 1959

= 555'

INQUIRY #: 3170104.5

YEAR: 1965

= 333'

INQUIRY #: 3170104.5

YEAR: 1975

= 550'

INQUIRY #: 3170104.5

YEAR: 1982

= 690'

INQUIRY #: 3170104.5

YEAR: 1993

= 604'

INQUIRY #: 3170104.5

YEAR: 1998

INQUIRY #: 3170104.5

YEAR: 2005

= 604'

APPENDIX D
SANBORN MAPS

800 Cedar
800 Cedar Street
Oakland, CA 94607

Inquiry Number: 3170104.3
September 21, 2011

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

9/21/11

Site Name:
800 Cedar
800 Cedar Street
Oakland, CA 94607

EDR Inquiry # 3170104.3

Client Name:
Northgate Env. Management
300 Frank H. Ogawa Plaza
Oakland, CA 94612

Contact: Anya Starovoytov

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Northgate Env. Management Inc. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: 800 Cedar
Address: 800 Cedar Street
City, State, Zip: Oakland, CA 94607
Cross Street:
P.O. # 1204.18
Project: 800 Cedar
Certification # 4BF9-4CF2-96FB

Maps Provided:

1970
1967
1961
1958
1957
1952
1951
1912
1902
1889

Sanborn® Library search results
Certification # 4BF9-4CF2-96FB

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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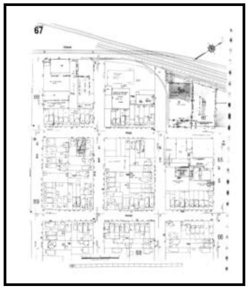
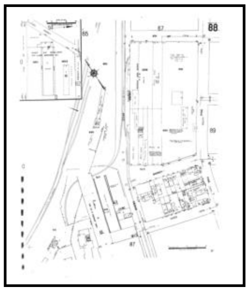
Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1970 Source Sheets



Volume 1, Sheet 67

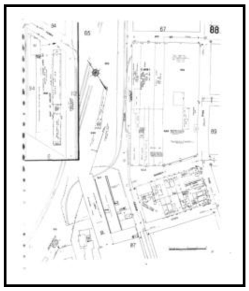


Volume 1, Sheet 88

Volume 1, Sheet 89

1967 Source Sheets

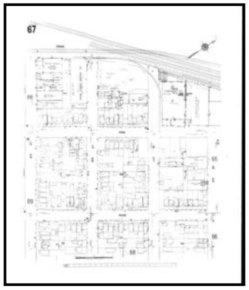
Volume 1, Sheet 67



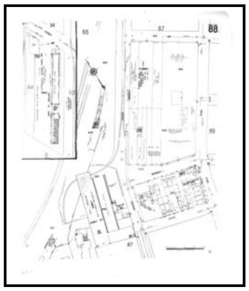
Volume 1, Sheet 88

Volume 1, Sheet 89

1961 Source Sheets



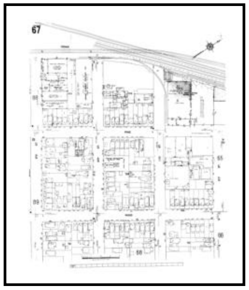
Volume 1, Sheet 67



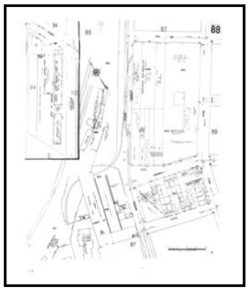
Volume 1, Sheet 88

Volume 1, Sheet 89

1958 Source Sheets



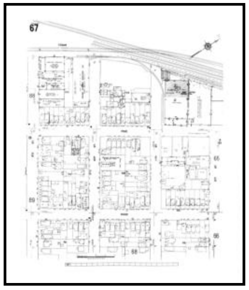
Volume 1, Sheet 67



Volume 1, Sheet 88

Volume 1, Sheet 89

1957 Source Sheets



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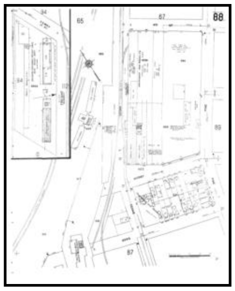
Volume 1, Sheet 89

1952 Source Sheets

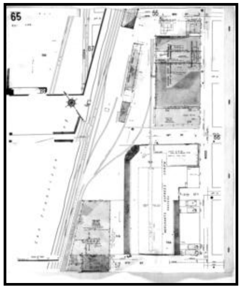


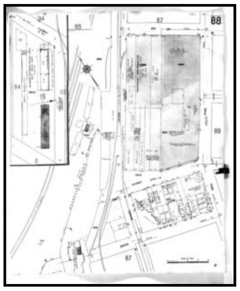
Volume 1, Sheet 67

Volume 1, Sheet 88

Volume 1, Sheet 89

1951 Source Sheets





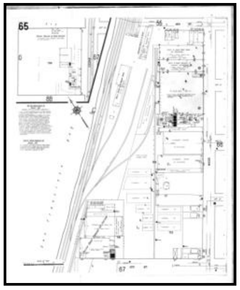
Volume 1, Sheet 65

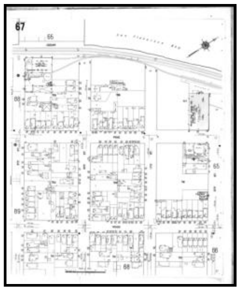
Volume 1, Sheet 67

Volume 1, Sheet 88

Volume 1, Sheet 89

1912 Source Sheets





Volume 1, Sheet 65

Volume 1, Sheet 67

Volume 1, Sheet 88

Volume 1, Sheet 89

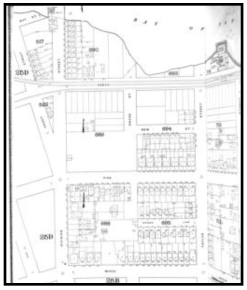
1902 Source Sheets

Volume 1, Sheet 40

Volume 1, Sheet 96

Volume 1, Sheet 109

1889 Source Sheets



Volume 1, Sheet 25c

Volume 1, Sheet 25c

Volume 1, Sheet 25d

1902 Certified Sanborn Map

Site Name: 800 Cedar
Address: 800 Cedar Street

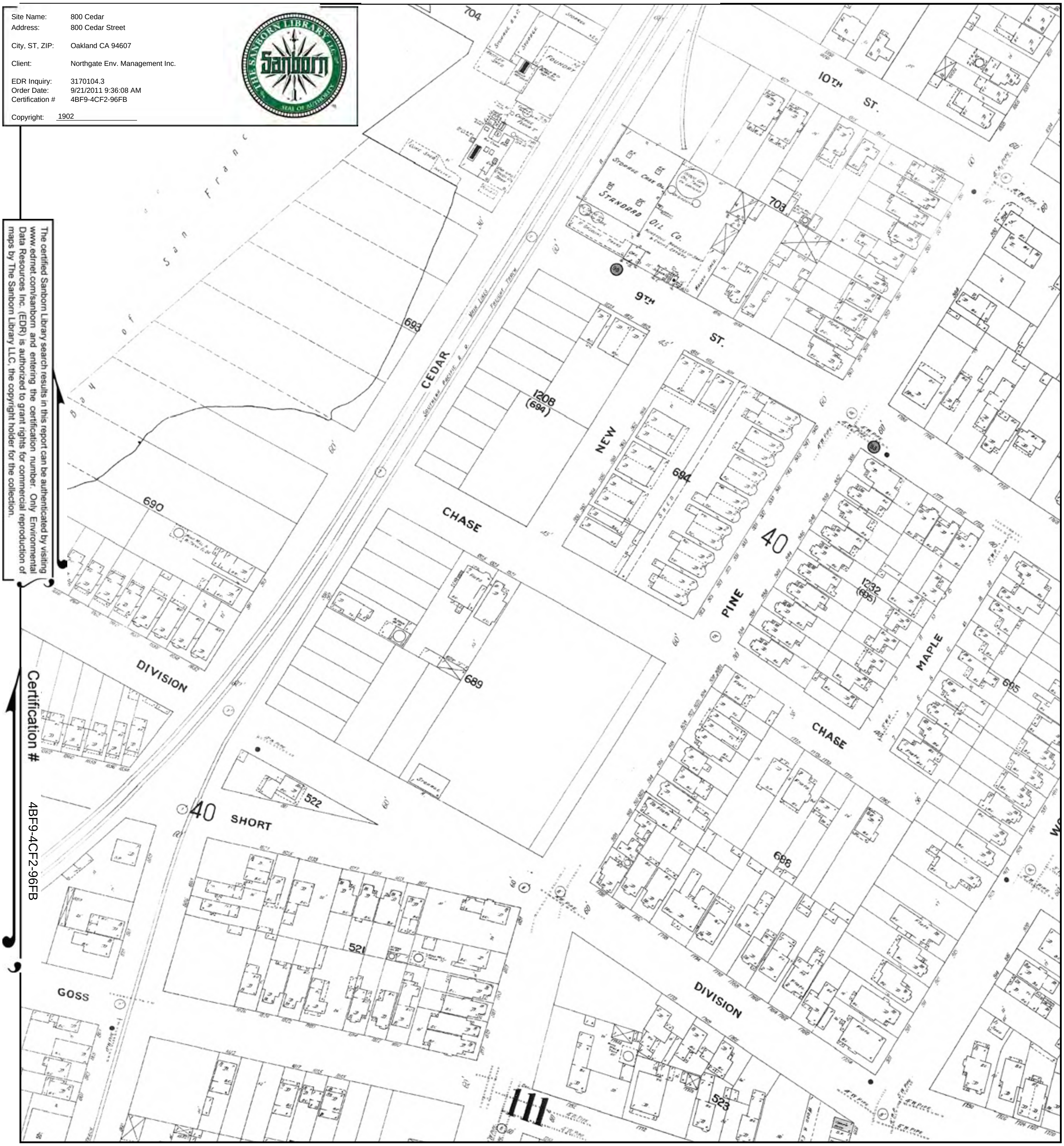
City, ST, ZIP: Oakland CA 94607

Client: Northgate Env. Management Inc.

EDR Inquiry: 3170104.3
Order Date: 9/21/2011 9:36:08 AM
Certification # 4BF9-4CF2-96FB

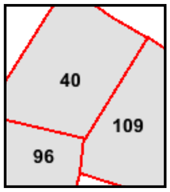
Copyright: 1902

Certification # 4BF9-4CF2-96FB



This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600

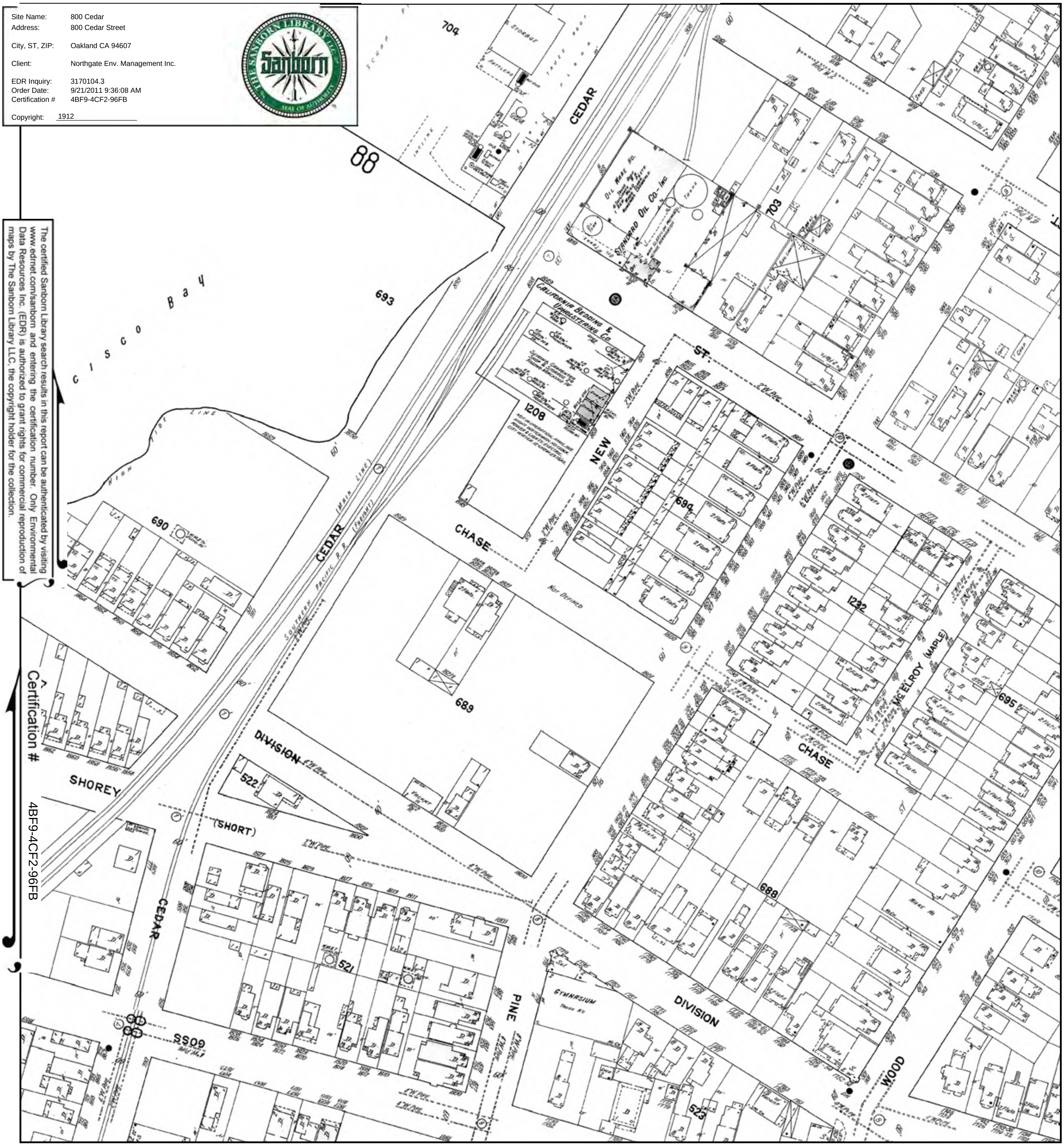


Volume 1, Sheet 40
Volume 1, Sheet 96
Volume 1, Sheet 109

1912 Certified Sanborn Map

Site Name:	800 Cedar
Address:	800 Cedar Street
City, ST, ZIP:	Oakland CA 94607
Client:	Northgate Env. Management Inc.
EDR Inquiry:	3170104.3
Order Date:	9/21/2011 9:36:08 AM
Certification #	4BF9-4CF2-96FB
Copyright:	1912

Certification # 4BF9-4CF2-96FB



This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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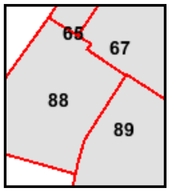
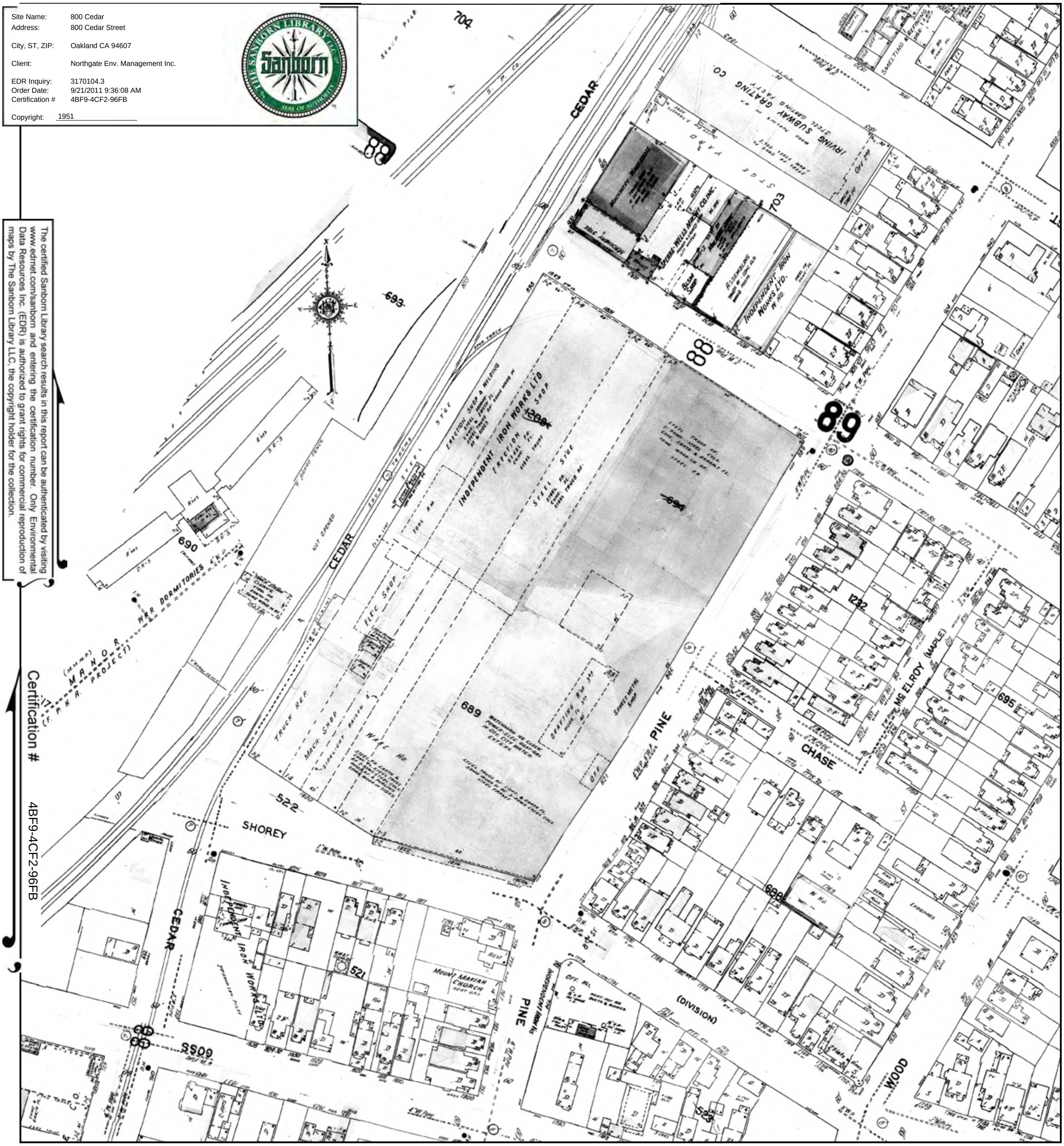


Volume 1, Sheet 65
Volume 1, Sheet 67
Volume 1, Sheet 88
Volume 1, Sheet 89

1951 Certified Sanborn Map

Site Name:	800 Cedar
Address:	800 Cedar Street
City, ST, ZIP:	Oakland CA 94607
Client:	Northgate Env. Management Inc.
EDR Inquiry:	3170104.3
Order Date:	9/21/2011 9:36:08 AM
Certification #	4BF9-4CF2-96FB
Copyright:	1951

Certification # 4BF9-4CF2-96FB



This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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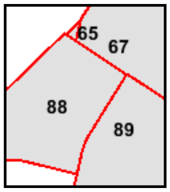


Volume 1, Sheet 65
Volume 1, Sheet 67
Volume 1, Sheet 88
Volume 1, Sheet 89

1952 Certified Sanborn Map

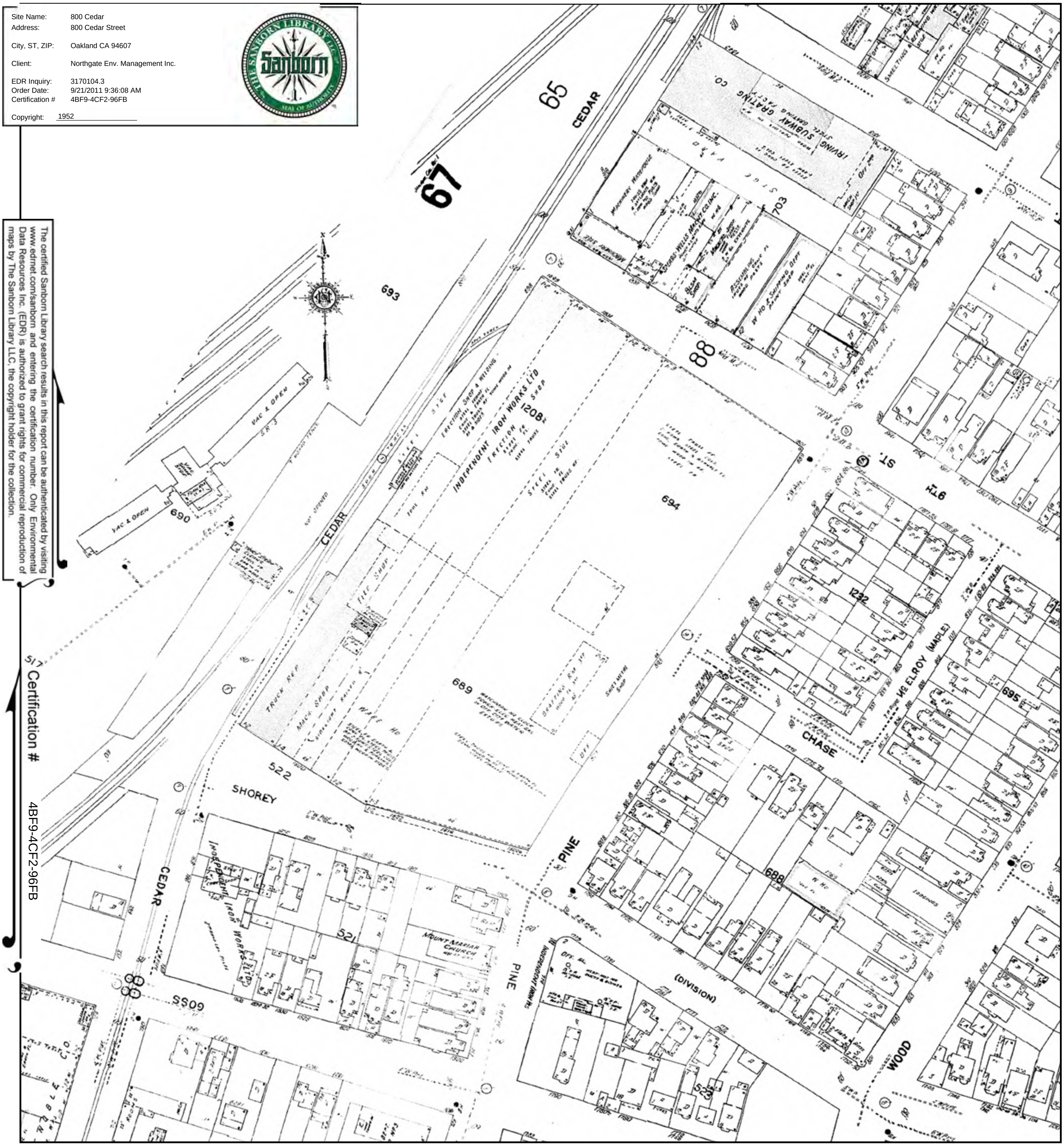
Site Name: 800 Cedar
Address: 800 Cedar Street

City, ST, ZIP: Oakland CA 94607

Client: Northgate Env. Management Inc.

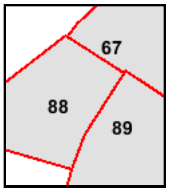
EDR Inquiry: 3170104.3
Order Date: 9/21/2011 9:36:08 AM
Certification # 4BF9-4CF2-96FB

Certification # 4BF9-4CF2-96FB



This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600



Volume 1, Sheet 67
Volume 1, Sheet 88
Volume 1, Sheet 89

N

1957 Certified Sanborn Map

Site Name: 800 Cedar
Address: 800 Cedar Street

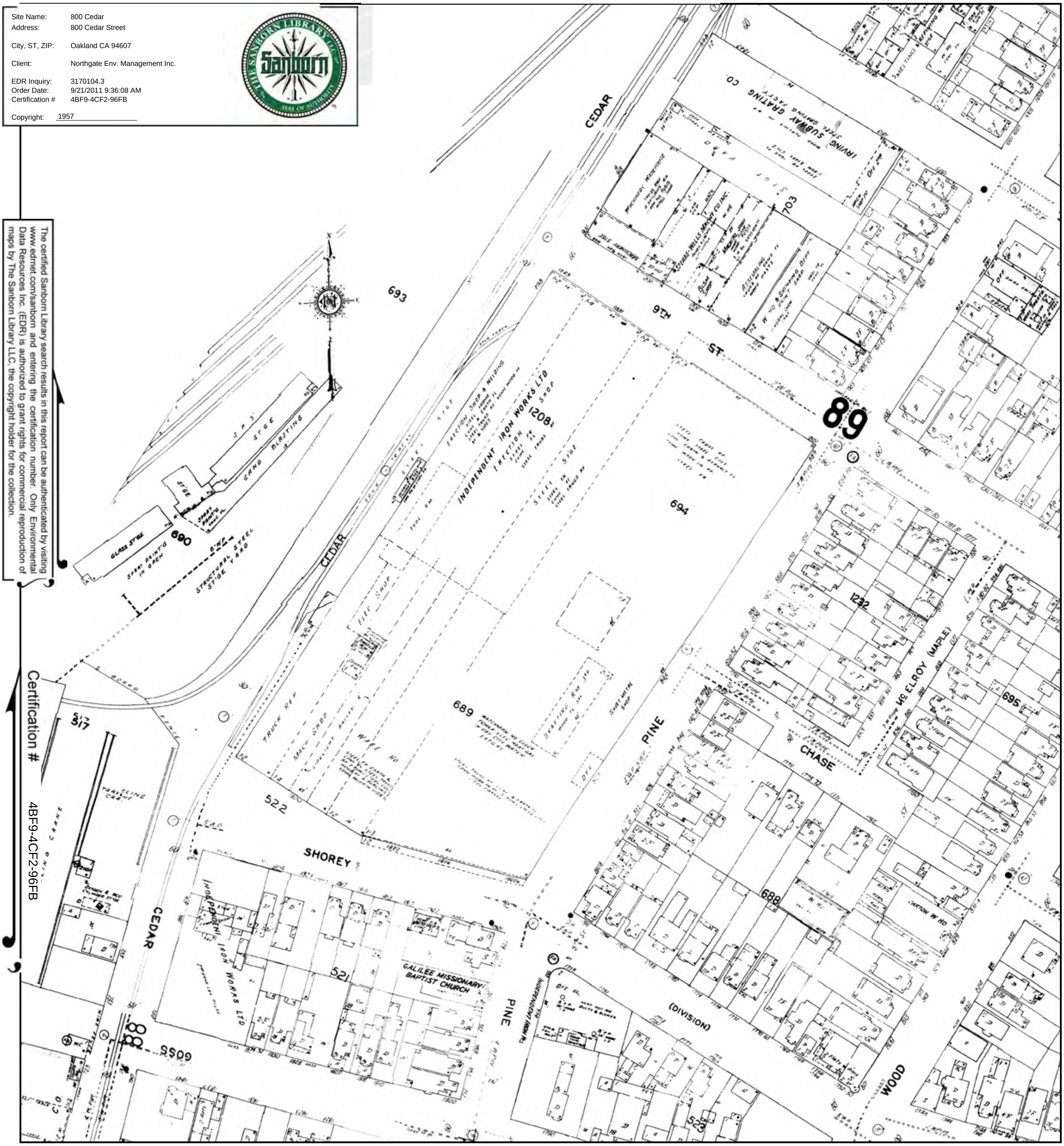
City, ST, ZIP: Oakland CA 94607

Client: Northgate Env. Management Inc.

EDR Inquiry: 3170104.3
Order Date: 9/21/2011 9:36:08 AM
Certification # 4BF9-4CF2-96FB

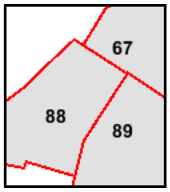
Copyright: 1957

Certification #
4BF9-4CF2-96FB



This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600



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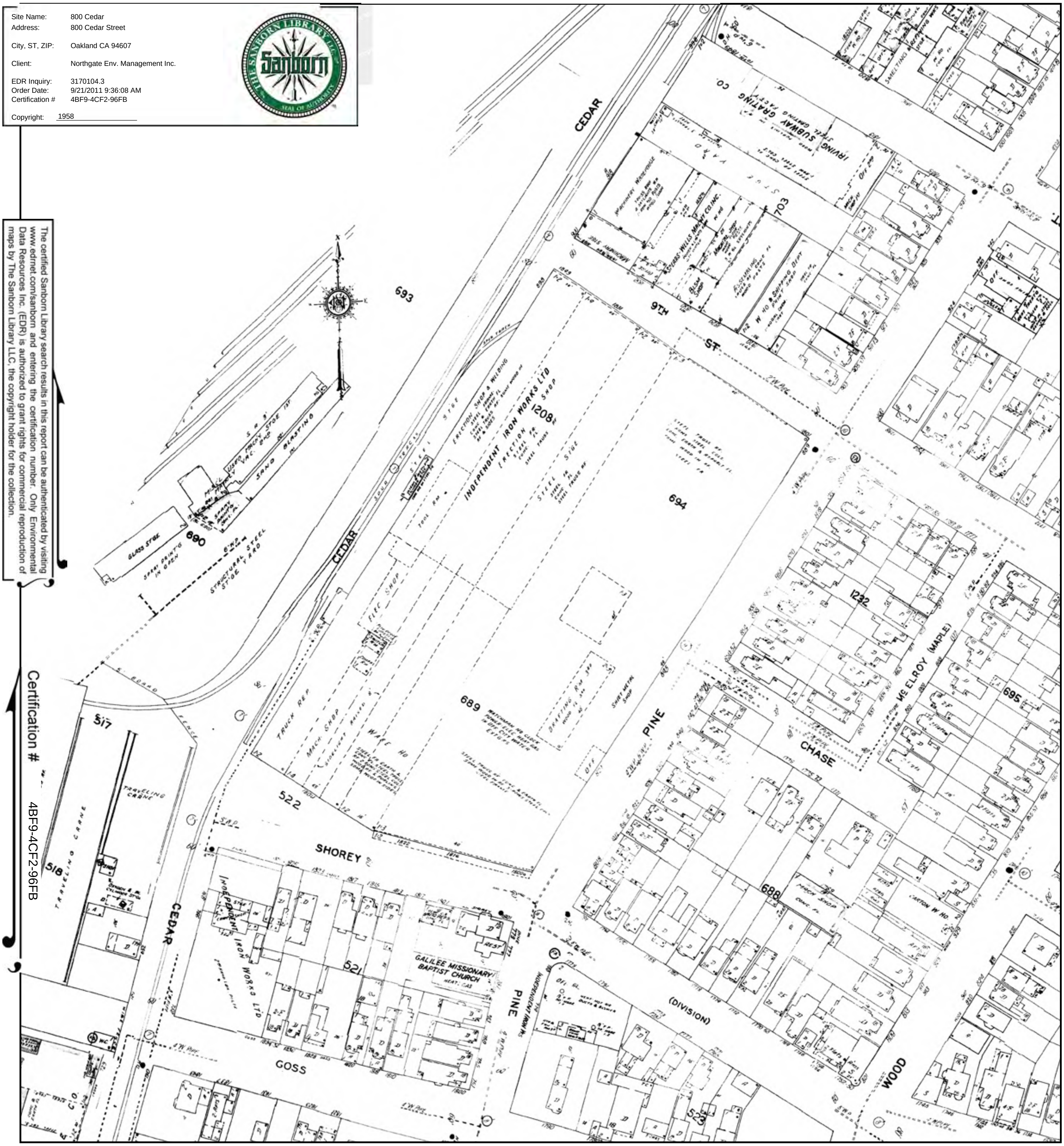
Volume 1, Sheet 89

N

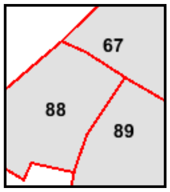
1958 Certified Sanborn Map

Site Name: 800 Cedar
Address: 800 Cedar Street
City, ST, ZIP: Oakland CA 94607
Client: Northgate Env. Management Inc.
EDR Inquiry: 3170104.3
Order Date: 9/21/2011 9:36:08 AM
Certification # 4BF9-4CF2-96FB
Copyright: 1958

Certification # 4BF9-4CF2-96FB



This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.



Volume 1, Sheet 67
Volume 1, Sheet 88
Volume 1, Sheet 89

0 Feet 150 300 600

N

1961 Certified Sanborn Map

Site Name: 800 Cedar
Address: 800 Cedar Street

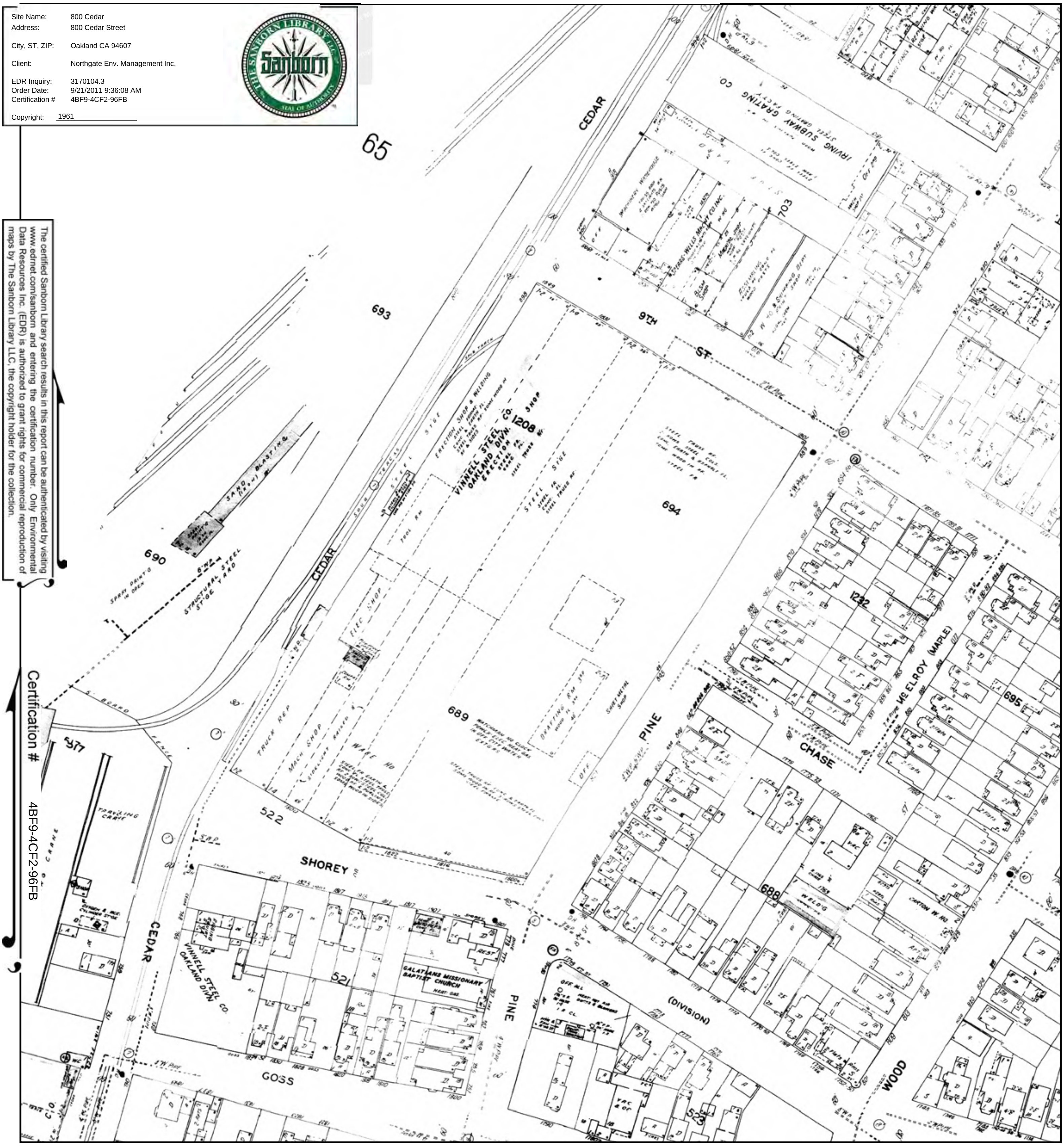
City, ST, ZIP: Oakland CA 94607

Client: Northgate Env. Management Inc.

EDR Inquiry: 3170104.3
Order Date: 9/21/2011 9:36:08 AM
Certification # 4BF9-4CF2-96FB

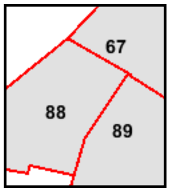
Copyright: 1961

Certification # 4BF9-4CF2-96FB



This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600



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Volume 1, Sheet 89

1967 Certified Sanborn Map

Site Name: 800 Cedar
Address: 800 Cedar Street

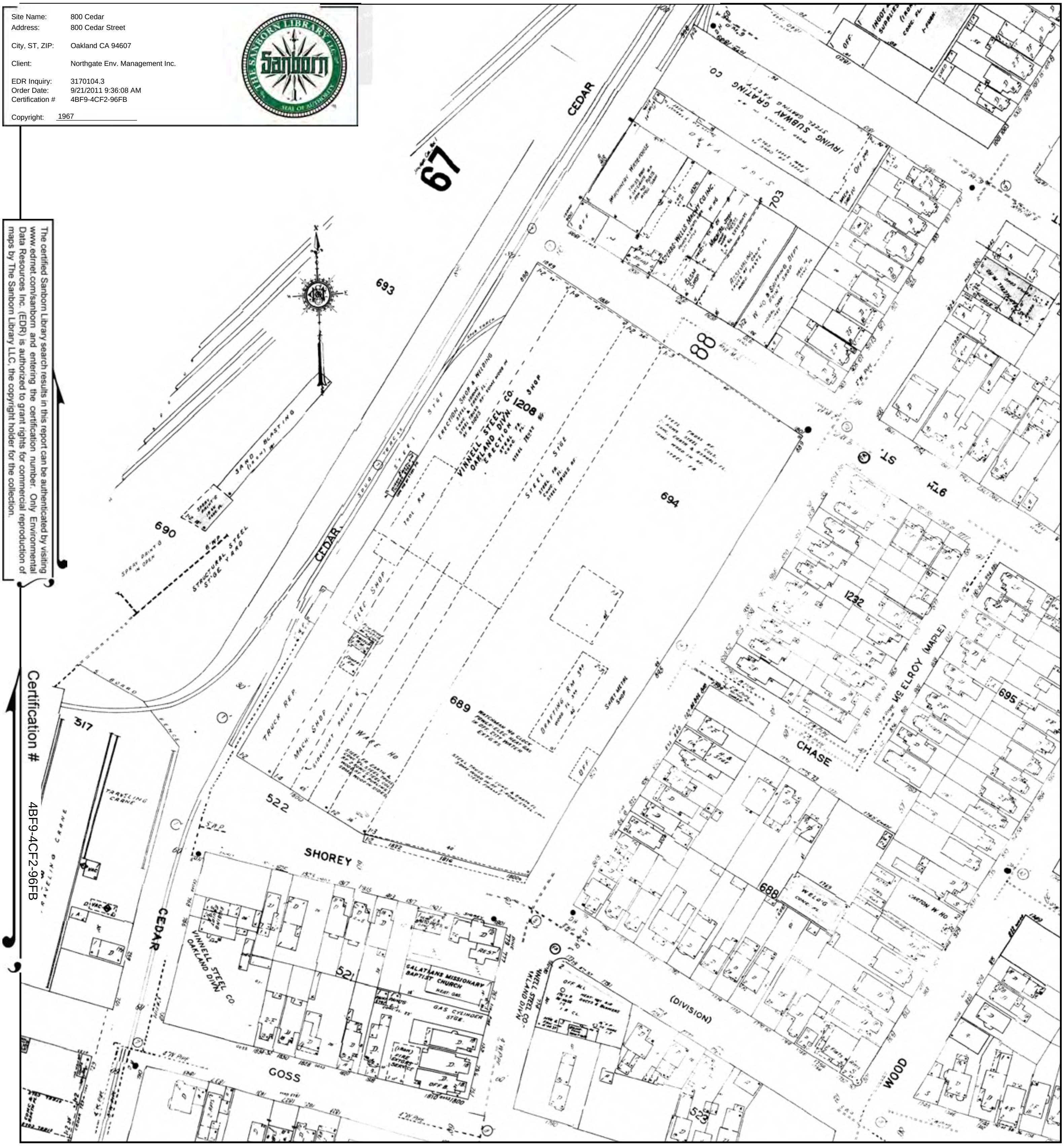
City, ST, ZIP: Oakland CA 94607

Client: Northgate Env. Management Inc.

EDR Inquiry: 3170104.3
Order Date: 9/21/2011 9:36:08 AM
Certification # 4BF9-4CF2-96FB

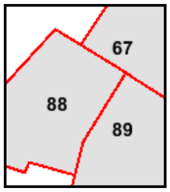
Copyright: 1967

Certification # 4BF9-4CF2-96FB



This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600

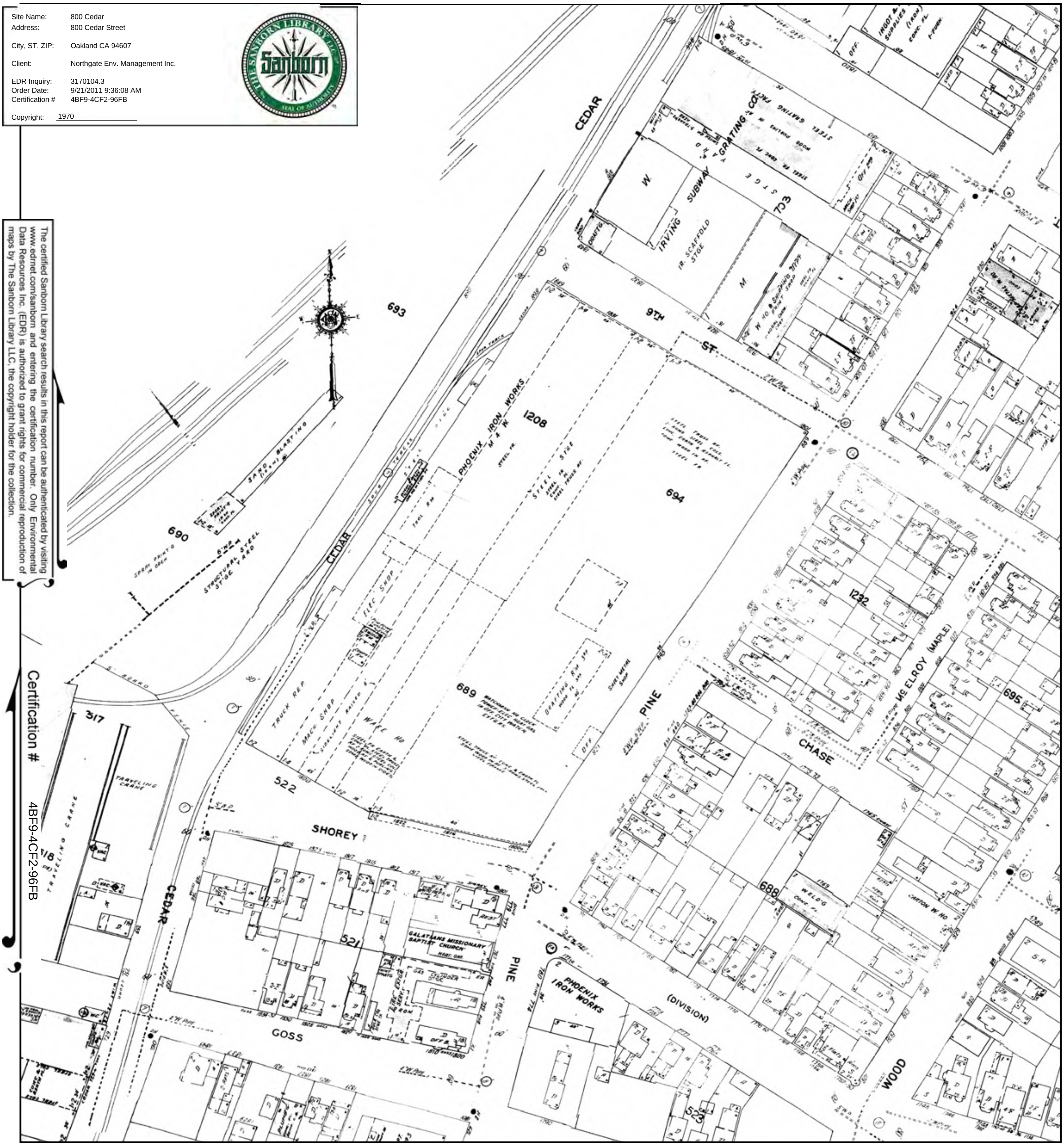


Volume 1, Sheet 67
Volume 1, Sheet 88
Volume 1, Sheet 89

1970 Certified Sanborn Map

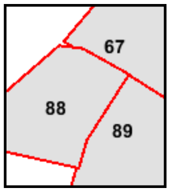
Site Name:	800 Cedar
Address:	800 Cedar Street
City, ST, ZIP:	Oakland CA 94607
Client:	Northgate Env. Management Inc.
EDR Inquiry:	3170104.3
Order Date:	9/21/2011 9:36:08 AM
Certification #	4BF9-4CF2-96FB
Copyright:	1970

Certification # 4BF9-4CF2-96FB



This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600



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Volume 1, Sheet 89

1889 Certified Sanborn Map

Site Name: 800 Cedar
Address: 800 Cedar Street

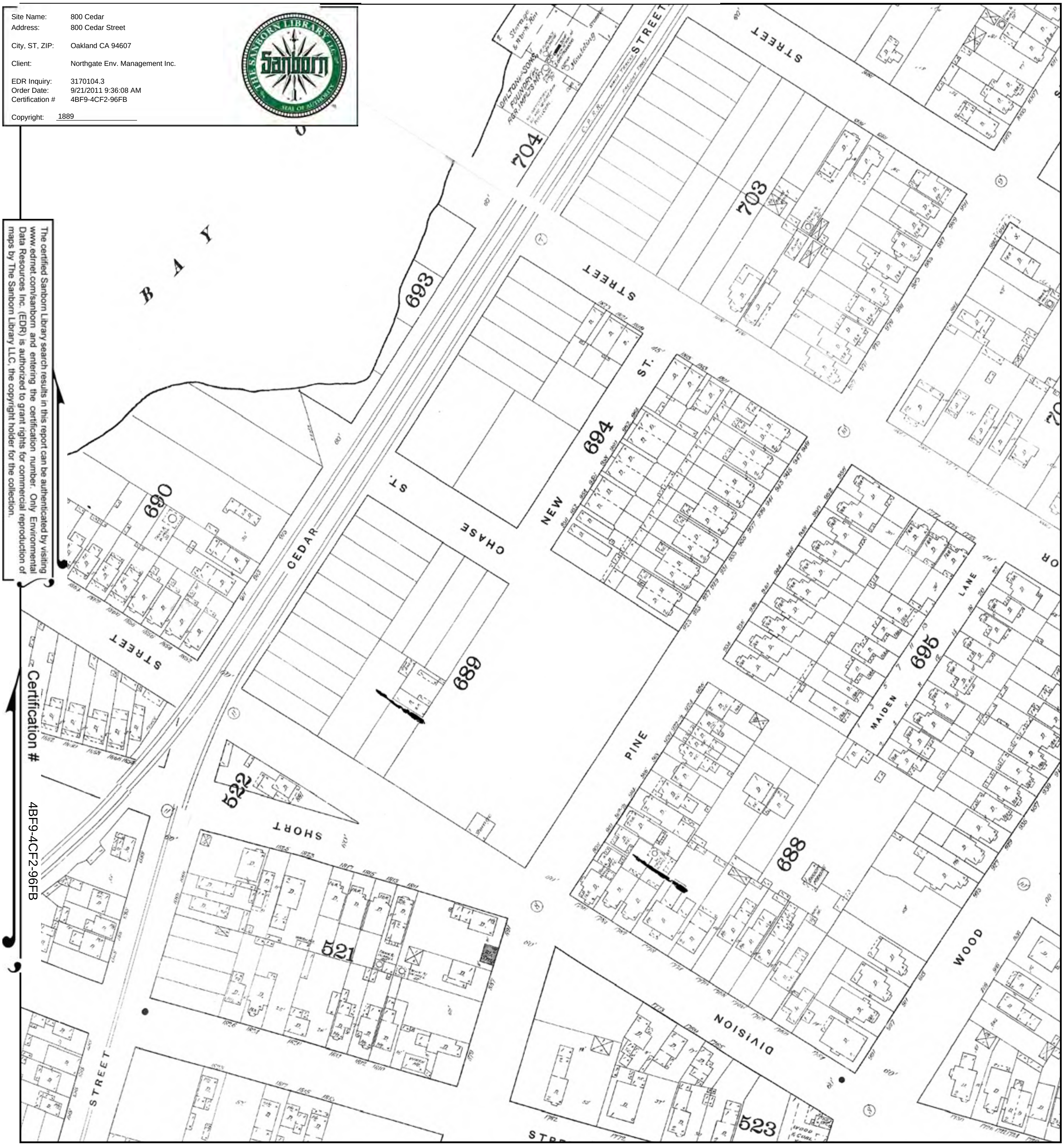
City, ST, ZIP: Oakland CA 94607

Client: Northgate Env. Management Inc.

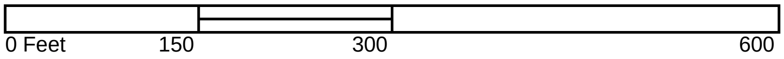
EDR Inquiry: 3170104.3
Order Date: 9/21/2011 9:36:08 AM
Certification # 4BF9-4CF2-96FB

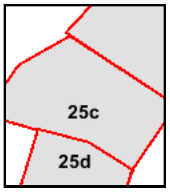
Copyright: 1889

Certification # 4BF9-4CF2-96FB



This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.





Volume 1, Sheet 25c
Volume 1, Sheet 25c
Volume 1, Sheet 25d

APPENDIX E
TOPOGRAPHIC MAPS

800 Cedar
800 Cedar Street
Oakland, CA 94607

Inquiry Number: 3170104.4
September 21, 2011

EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

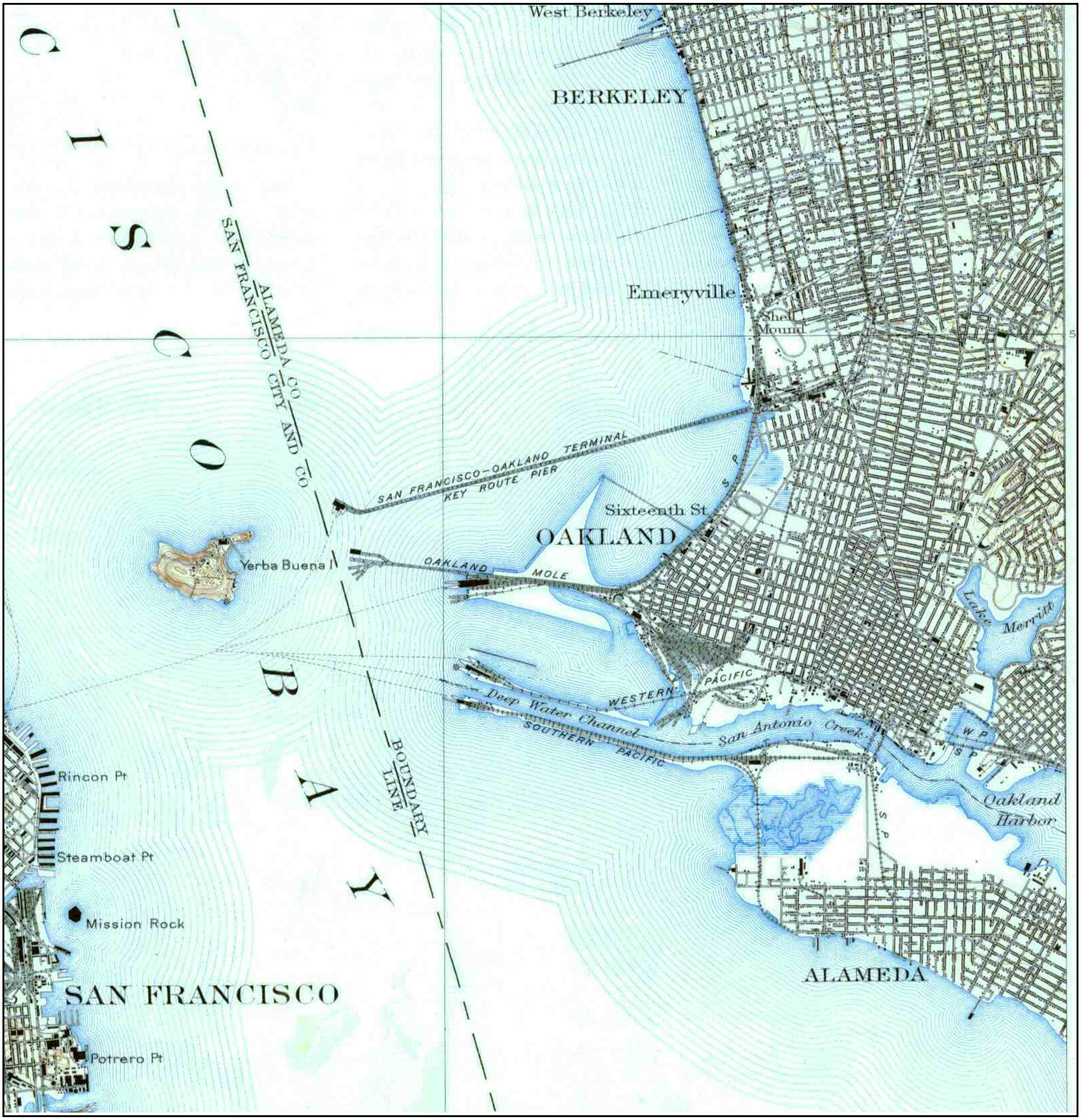
Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Historical Topographic Map

N	TARGET QUAD NAME: SAN FRANCISCO MAP YEAR: 1895 SERIES: 15 SCALE: 1:62500	SITE NAME: 800 Cedar ADDRESS: 800 Cedar Street Oakland, CA 94607 LAT/LONG: 37.8098 / -122.3033	CLIENT: Northgate Env. Management Inc. CONTACT: Anya Starovoytov INQUIRY#: 3170104.4 RESEARCH DATE: 09/21/2011

Historical Topographic Map



N ↑

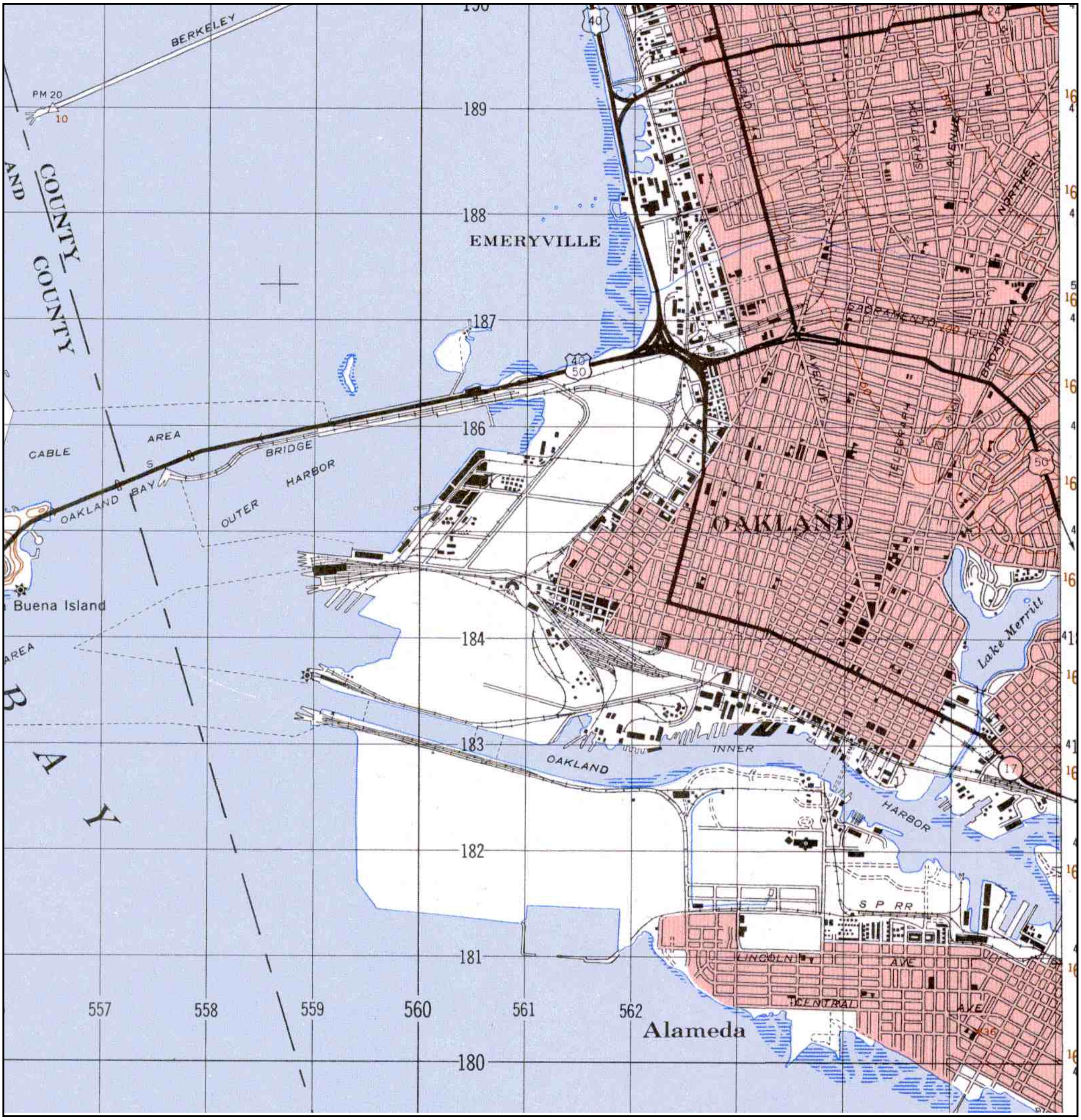
TARGET QUAD
NAME: SAN FRANCISCO
MAP YEAR: 1915

SERIES: 15
SCALE: 1:62500

SITE NAME: 800 Cedar
ADDRESS: 800 Cedar Street
Oakland, CA 94607
LAT/LONG: 37.8098 / -122.3033

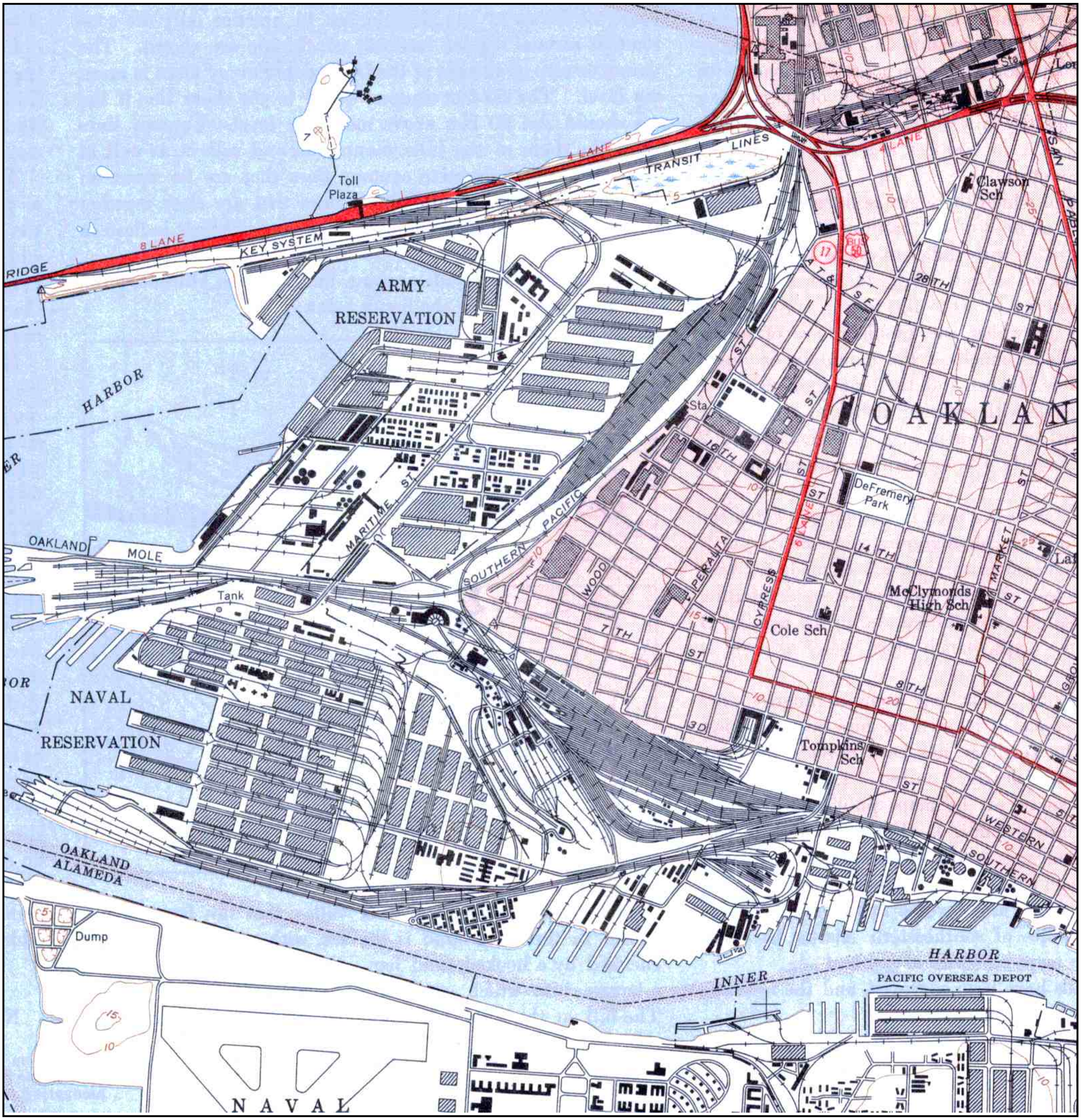
CLIENT: Northgate Env. Management Inc.
CONTACT: Anya Starovoytov
INQUIRY#: 3170104.4
RESEARCH DATE: 09/21/2011

Historical Topographic Map



N	TARGET QUAD		SITE NAME:	800 Cedar	CLIENT: Northgate Env. Management Inc.
	NAME:	SAN FRANCISCO	ADDRESS:	800 Cedar Street	CONTACT: Anya Starovoytov
	MAP YEAR:	1948		Oakland, CA 94607	INQUIRY#: 3170104.4
			LAT/LONG:	37.8098 / -122.3033	RESEARCH DATE: 09/21/2011
	SERIES:	15			
	SCALE:	1:50000			

Historical Topographic Map



N

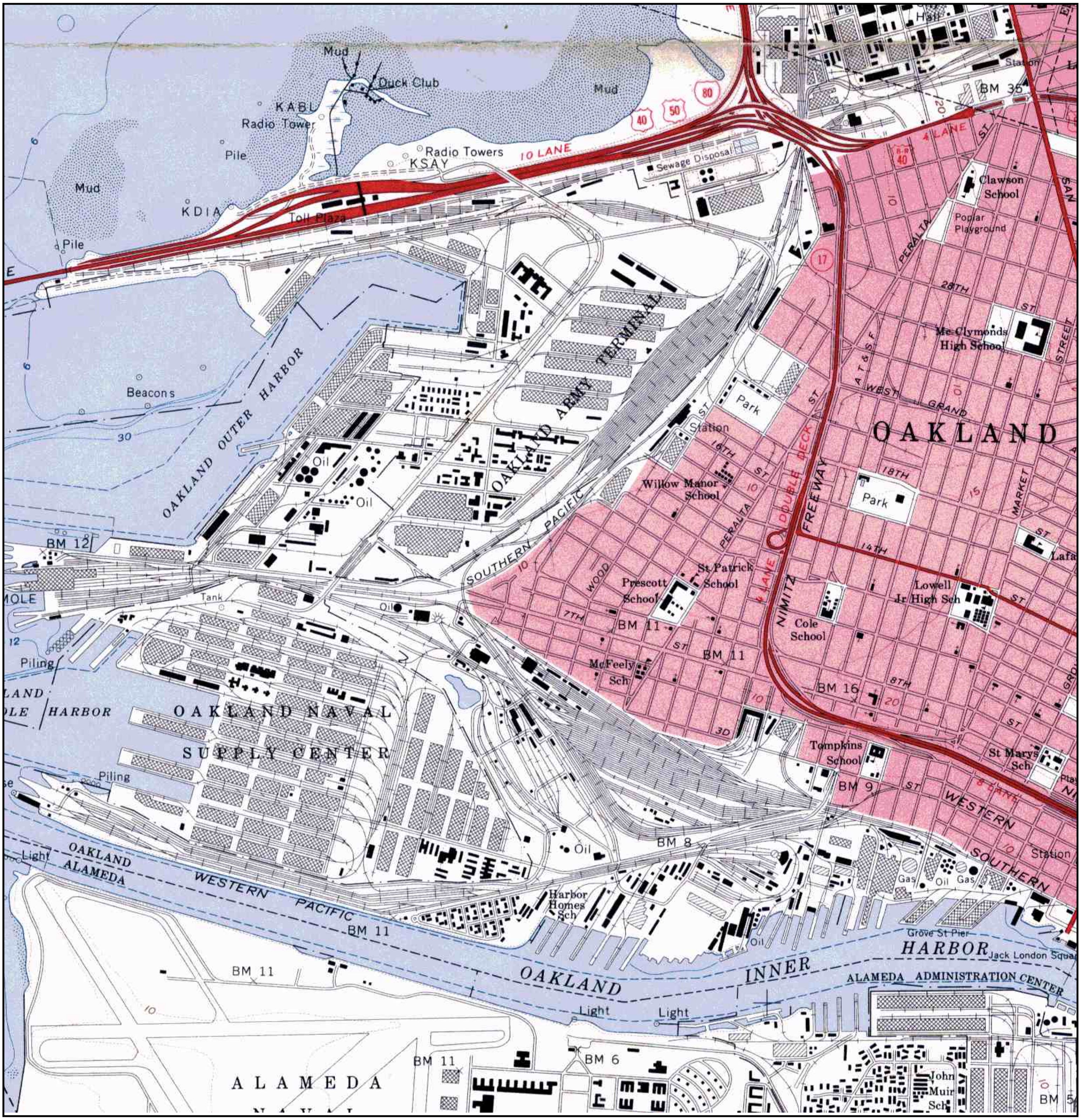
TARGET QUAD
NAME: OAKLANDWEST
MAP YEAR: 1949

SERIES: 7.5
SCALE: 1:24000

SITE NAME: 800 Cedar
ADDRESS: 800 Cedar Street
Oakland, CA 94607
LAT/LONG: 37.8098 / -122.3033

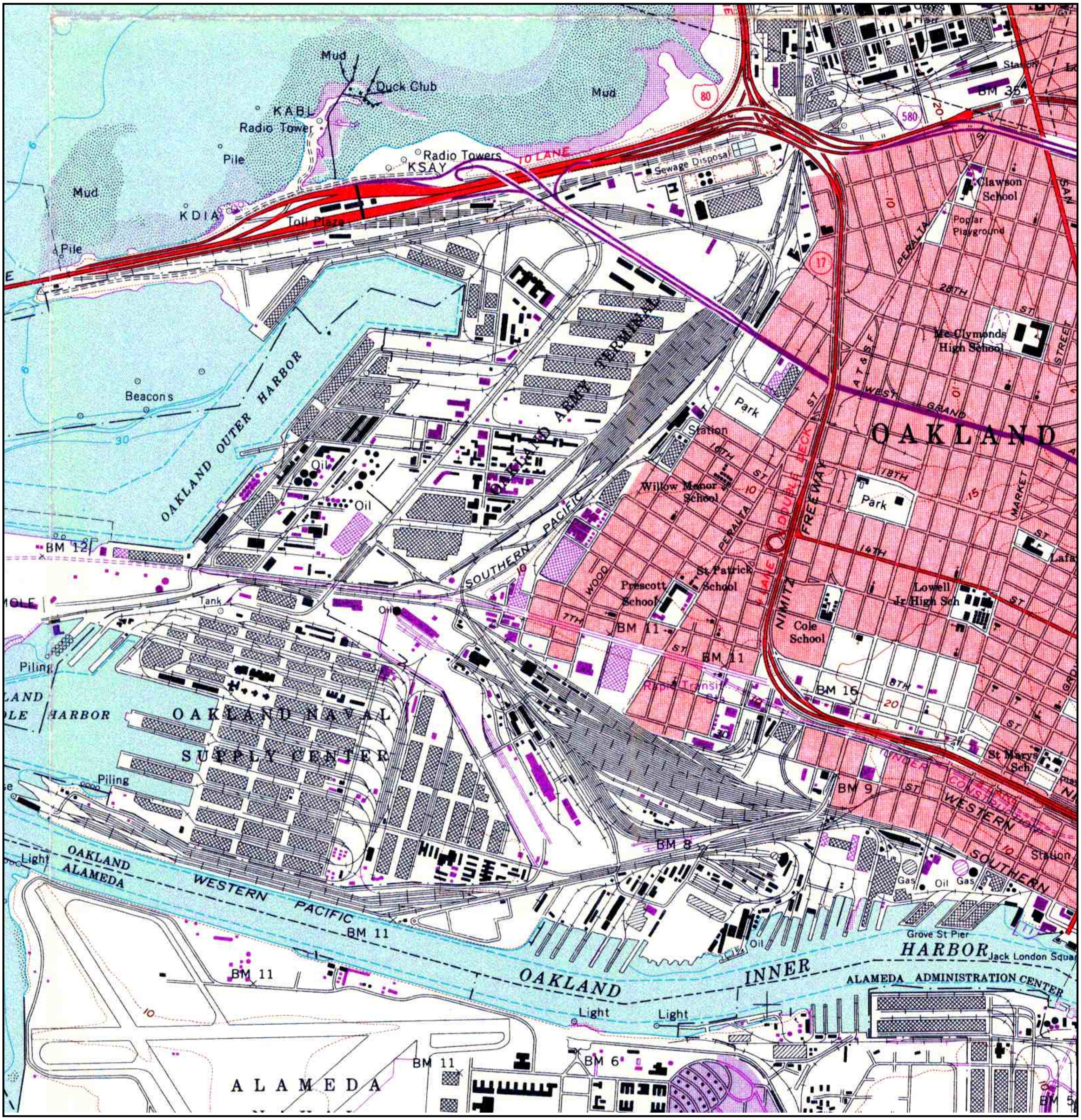
CLIENT: Northgate Env. Management Inc.
CONTACT: Anya Starovoytov
INQUIRY#: 3170104.4
RESEARCH DATE: 09/21/2011

Historical Topographic Map



N ↑	TARGET QUAD NAME: OAKLANDWEST MAP YEAR: 1959 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 800 Cedar ADDRESS: 800 Cedar Street Oakland, CA 94607 LAT/LONG: 37.8098 / -122.3033	CLIENT: Northgate Env. Management Inc. CONTACT: Anya Starovoytov INQUIRY#: 3170104.4 RESEARCH DATE: 09/21/2011

Historical Topographic Map



N

TARGET QUAD
NAME: OAKLANDWEST
MAP YEAR: 1968
PHOTOREVISED:1959
SERIES: 7.5
SCALE: 1:24000

SITE NAME: 800 Cedar
ADDRESS: 800 Cedar Street
Oakland, CA 94607
LAT/LONG: 37.8098 / -122.3033

CLIENT: Northgate Env. Management Inc.
CONTACT: Anya Starovoytov
INQUIRY#: 3170104.4
RESEARCH DATE: 09/21/2011

Historical Topographic Map

N

TARGET QUAD
NAME: OAKLANDWEST
MAP YEAR: 1973
PHOTOREVISED:1959
SERIES: 7.5
SCALE: 1:24000

SITE NAME: 800 Cedar
ADDRESS: 800 Cedar Street
Oakland, CA 94607
LAT/LONG: 37.8098 / -122.3033

CLIENT: Northgate Env. Management Inc.
CONTACT: Anya Starovoytov
INQUIRY#: 3170104.4
RESEARCH DATE: 09/21/2011

Historical Topographic Map

N

TARGET QUAD
NAME: OAKLANDWEST
MAP YEAR: 1980
PHOTOREVISED:1959
SERIES: 7.5
SCALE: 1:24000

SITE NAME: 800 Cedar
ADDRESS: 800 Cedar Street
Oakland, CA 94607
LAT/LONG: 37.8098 / -122.3033

CLIENT: Northgate Env. Management Inc.
CONTACT: Anya Starovoytov
INQUIRY#: 3170104.4
RESEARCH DATE: 09/21/2011

APPENDIX F
CITY DIRECTORY

800 Cedar
800 Cedar Street
Oakland, CA 94607

Inquiry Number: 3170104.6
October 03, 2011

The EDR-City Directory Abstract

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2006. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	***Source***	***TP***	***Adjoining***	***Text Abstract***	***Source Image***
2006	Haines Company, Inc.	-	X	X	-
2002	Haines	-	X	X	-
	R. L. Polk & Co.	-	X	X	-
2000	Pacific Bell	-	X	X	-
1996	PACIFIC BELL DIRECTORY	-	X	X	-
1993	Pacific Bell	-	-	-	-
1992	PACIFIC BELL DIRECTORY	X	X	X	-
1991	PACIFIC BELL WHITE PAGES	X	X	X	-
1986	Pacific Bell	-	X	X	-
	PACIFIC BELL WHITE PAGES	-	X	X	-
1984	Pacific Bell	-	X	X	-
1982	Pacific Telephone	-	-	-	-
1980	Pacific Telephone	-	X	X	-
1979	Pacific Telephone	-	X	X	-
1976	Pacific Telephone	-	-	-	-
1975	Pacific Telephone	-	X	X	-
1973	Pacific Telephone	-	-	-	-
1970	Pacific Telephone	-	X	X	-
	Pacific Telephone Directory	-	X	X	-
1967	R. L. Polk & Co.	-	X	X	-
1965	Pacific Telephone	-	X	X	-
1962	Pacific Telephone	-	X	X	-
1960	Pacific Telephone	-	-	-	-
1959	R. L. Polk & Co.	-	-	-	-
1956	Pacific Telephone	-	-	-	-
1955	The Pacific Telephone & Telegraph Co.	-	X	X	-

EXECUTIVE SUMMARY

Year	***Source***	***TP***	***Adjoining***	***Text Abstract***	***Source Image***
1954	R. L. Polk & Co. of California	-	-	-	-
1951	R. L. Polk & Co.	-	-	-	-
1950	The Pacific Telephone & Telegraph Co.	-	X	X	-
1946	R. L. Polk & Co.	-	-	-	-
1945	The Pacific Telephone & Telegraph Co.	-	X	X	-
1943	R. L. Polk & Co.	-	X	X	-
1940	R. L. Polk & Co.	-	-	-	-
1938	Pacific Telephone	-	X	X	-
1933	R. L. Polk & Co.	-	X	X	-
1932	R. L. Polk & Co. of California	-	-	-	-
1928	R.L. Polk and Co of California	-	X	X	-
1926	R. L. Polk & Co.	-	-	-	-
1925	R. L. Polk & Co. of California	-	X	X	-
1920	R. L. Polk & Co. of California	-	X	X	-

EXECUTIVE SUMMARY

MAP INFORMATION

The Overview Map provides information on nearby property parcel boundaries. Properties on this map that were selected for research are listed below the map.

SELECTED ADDRESSES

The following addresses were selected by the client. Detailed findings are contained in the findings section. An "X" indicates where information was identified.

Address	***Type***	***Findings***
800 Cedar Street	Map ID: 1	
858 PINE ST	Map ID: 2	X
937 PINE ST	Map ID: 34	X
941 PINE ST	Map ID: 35	X
853 MCELROY ST	Map ID: 4	X
1769 GOSS ST	Map ID: 47	X
857 MCELROY ST	Map ID: 5	X

EXECUTIVE SUMMARY

Address	***Type***	***Findings***
1785 9TH ST	Map ID: 8	X
888 Cedar Street	Client Entered	
801 Cedar Street	Client Entered	
1832 9th Street	Client Entered	X
1820 10th Street	Client Entered	X
1778 10th Street	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

800 Cedar Street
Oakland, CA   94607

MapID: 1

FINDINGS DETAIL

Target Property research detail.

Year	***Uses***	***Source***
1992	GREGG S MECHANICAL SERVICES	PACIFIC BELL DIRECTORY
	J & A MACHINE SHOP	PACIFIC BELL DIRECTORY
	YOUNG BILL	PACIFIC BELL DIRECTORY
1991	i Greggs Mechanical Services	PACIFIC BELL WHITE PAGES
	Young Bill	PACIFIC BELL WHITE PAGES

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

10TH

2520 10TH

Year	*Uses*	*Source*
1928	SABIN JOHN M JR County Purchasing Agent Hall of Records H	R.L. Polk and Co of California

10TH ST

2526 10TH ST

Year	*Uses*	*Source*
1943	Sheffield Robt R asst mgr Aermotor Co r	R. L. Polk & Co.
1928	Portland Harriett B3wid John R R	R.L. Polk and Co of California

2622 10TH ST

Year	*Uses*	*Source*
1928	t Melin Anton Mary lab H	R.L. Polk and Co of California

2630 10TH ST

Year	*Uses*	*Source*
1928	Quesada Honrobono Mary M fctywkr H	R.L. Polk and Co of California

10th Street

1778 10th Street

Client Entered

Year	*Uses*	*Source*
2006	No Current Listing	Haines Company, Inc.
1996	JENKINS AUTO WRECKER	PACIFIC BELL DIRECTORY
1992	JENKINS AUTO WRECKER	PACIFIC BELL DIRECTORY
1967	JENKINS AUTO WRECKER	R. L. Polk & Co.

1820 10th Street

Client Entered

Year	*Uses*	*Source*
2006	GOLDEN EAGLE	Haines Company, Inc.
	TRUCKING	Haines Company, Inc.
	NO ANGANOCO	Haines Company, Inc.
	Alexander	Haines Company, Inc.

FINDINGS

Year	*Uses*	*Source*
2006	BETH EDEN	Haines Company, Inc.
	BAPTIST CHURCH	Haines Company, Inc.
2000	GOLDEN EAGLE TRUCKING	Pacific Bell
	CALIFORNIA WASTE SOLUTIONS INC	Pacific Bell
	U S FREIGHT SYSTEMS	Pacific Bell
1996	GOLDEN EAGLE TRUCKING	PACIFIC BELL DIRECTORY
	CALIFORNIA WASTE SOLUTIONS INC	PACIFIC BELL DIRECTORY
	CALIFORNIA WASTE SOLUTIONS INC	PACIFIC BELL DIRECTORY
1992	GLOBE METALS CO	PACIFIC BELL DIRECTORY
1967	GLOBE METALS SMELTERS	R. L. Polk & Co.

8TH ST

1754 8TH ST

Year	*Uses*	*Source*
2006	ROPER Marshall	Haines Company, Inc.
	HERNANDEZ David	Haines Company, Inc.
1967	STEWART DELBERT	R. L. Polk & Co.
	RIDLEY DOROTHY MRS	R. L. Polk & Co.

1756 8TH ST

Year	*Uses*	*Source*
2006	HERNANDEZ David	Haines Company, Inc.
1967	BRISCOE LEON	R. L. Polk & Co.

1764 8TH ST

Year	*Uses*	*Source*
2006	MACDOUGALL Jason	Haines Company, Inc.
1967	WOODFORD ORA M MRS	R. L. Polk & Co.
	BURTON OWENS	R. L. Polk & Co.

1765 8TH ST

Year	*Uses*	*Source*
2006	JONES Josi	Haines Company, Inc.
2000	JONES JOSSI	Pacific Bell
1996	JONES JOSSI	PACIFIC BELL DIRECTORY

1768 8TH ST

Year	*Uses*	*Source*
2006	BEHMARAMFareed	Haines Company, Inc.

Year	Uses	Source
1992	SHAW B	PACIFIC BELL DIRECTORY
1970	PRUITT ESTELLE	Pacific Telephone Directory
1967	PRUITT ESTELLE MRS	R. L. Polk & Co.
1943	Castro Frank bartndr r	R. L. Polk & Co.
1928	Prentiss Manuel R	R.L. Polk and Co of California

1770 8TH ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1967	RIK CONNIE MRS H	R. L. Polk & Co.

1772 8TH ST

Year	Uses	Source
2006	PINKARDLyn Ice	Haines Company, Inc.
1967	YELLING SALLIE MRS 0 G	R. L. Polk & Co.

1774 8TH ST

Year	Uses	Source
2006	o COOPER Chee	Haines Company, Inc.

1777 8TH ST

Year	Uses	Source
2006	l ARRIS Lee	Haines Company, Inc.
1967	JACKSON MILTON	R. L. Polk & Co.

1778 8TH ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1967	JEFFERSON ERLENE MRS	R. L. Polk & Co.
	BUTLER VINA K MRS	R. L. Polk & Co.
	A SMITH BERTH	R. L. Polk & Co.

1781 8TH ST

Year	Uses	Source
2006	AL BAKARIFad II	Haines Company, Inc.
1967	THOMPSON CALEB L	R. L. Polk & Co.

1782 8TH ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	PHINIEX GERTRUDE	Pacific Bell

Year	***Uses***	***Source***
1967	MAYE WILLIE M	R. L. Polk & Co.

1784 8TH ST

Year	***Uses***	***Source***
1967	VACANT	R. L. Polk & Co.

1791 8TH ST

Year	***Uses***	***Source***
1967	VINNELL STEEL CORP MFG CO	R. L. Polk & Co.

1792 8TH ST

Year	***Uses***	***Source***
1967	CRANE JOHN E	R. L. Polk & Co.

1794 8TH ST

Year	***Uses***	***Source***
1967	SNEED MACK S TE	R. L. Polk & Co.

1796 8TH ST

Year	***Uses***	***Source***
2006	SANDERS James	Haines Company, Inc.
	NO BLAINEH	Haines Company, Inc.
2000	ALPHA OMEGA FOUNDATION	Pacific Bell
1967	VALLADON GENEVIEVE C S	R. L. Polk & Co.

9TH ST

1752 9TH ST

Year	***Uses***	***Source***
2006	e MADDOX Raymond	Haines Company, Inc.
1967	HOLBERT HENRY	R. L. Polk & Co.

1756 9TH ST

Year	***Uses***	***Source***
2006	DAWSON VIldred	Haines Company, Inc.
1967	SMITH HENRY	R. L. Polk & Co.
	DUNLAP HENRY W	R. L. Polk & Co.

1760 9TH ST

Year	***Uses***	***Source***
2006	a WILLIAMS Jessica	Haines Company, Inc.

FINDINGS

Year	Uses	Source
1967	TUCKER WILLIE JR	R. L. Polk & Co.

1764 9TH ST

Year	Uses	Source
2006	e SMITH John	Haines Company, Inc.
	DEACON	Haines Company, Inc.
	LEWIS WILLIE	Haines Company, Inc.
2000	LEWIS WILLIE DEACON	Pacific Bell
1996	LEWIS WILLIE DEACON	PACIFIC BELL DIRECTORY
1992	LEWIS WILLIE DEACON	PACIFIC BELL DIRECTORY

1768 9TH ST

Year	Uses	Source
2006	e SOPONJose	Haines Company, Inc.
1992	MENDOZA N	PACIFIC BELL DIRECTORY
1967	CHAMBERS GERTRUDE MRS	R. L. Polk & Co.

1777 9TH ST

Year	Uses	Source
2006	BENNETT Barbara	Haines Company, Inc.
2000	LEWIS EDITH	Pacific Bell
1996	LEWIS EDITH	PACIFIC BELL DIRECTORY
1992	LEWIS EDITH	PACIFIC BELL DIRECTORY

1780 9TH ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1967	VACANT	R. L. Polk & Co.
	VEE LEW	R. L. Polk & Co.

1781 9TH ST

Year	Uses	Source
2006	JACKSON Ed Ith	Haines Company, Inc.
2000	JACKSON MILTON & EDITH	Pacific Bell
1996	JACKSON MILTON & EDITH	PACIFIC BELL DIRECTORY
1992	JACKSON MILTON & EDITH	PACIFIC BELL DIRECTORY
1967	JACKSON MILTON	R. L. Polk & Co.
	BILBO RICHD	R. L. Polk & Co.

FINDINGS

1782 9TH ST

Year	Uses	Source
1967	A SANDERS J	R. L. Polk & Co.
	BLACK ANNIE MRS	R. L. Polk & Co.
	AITEMON BEN J	R. L. Polk & Co.

1784 9TH ST

Year	Uses	Source
2006	ABIOYE Moses	Haines Company, Inc.
2000	WILLIAMS CAROLYN	Pacific Bell
1996	WILLIAMS CAROLYN	PACIFIC BELL DIRECTORY
	B WILLIAMS VIVIAN	PACIFIC BELL DIRECTORY

Map ID: 8

1785 9TH ST

Year	Uses	Source
2006	PORCHIACara	Haines Company, Inc.
1967	BROWN ERNST	R. L. Polk & Co.

1787 9TH ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1992	LIVINGSTON RAY A	PACIFIC BELL DIRECTORY

1788 9TH ST

Year	Uses	Source
2006	GREATOAKTHE	Haines Company, Inc.
1992	JACKSON HESTER	PACIFIC BELL DIRECTORY
1967	JENNINGS JIM	R. L. Polk & Co.
	CHU PETER	R. L. Polk & Co.

1790 9TH ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.

1794 9TH ST

Year	Uses	Source
2006	EMEZIEM Kenneth	Haines Company, Inc.
2000	GOODWIN VERDA LEE	Pacific Bell
1996	GOODWIN VERDA LEE	PACIFIC BELL DIRECTORY
1992	GOODWIN VERDA LEE	PACIFIC BELL DIRECTORY
1967	HARRIS GEORGIA MRS	R. L. Polk & Co.

FINDINGS

1796 9TH ST

Year	*Uses*	*Source*
1992	GOODWIN C	PACIFIC BELL DIRECTORY
1967	NO RETURN	R. L. Polk & Co.

1798 9TH ST

Year	*Uses*	*Source*
2006	GUERRAAntonio	Haines Company, Inc.
	RODRIGUEZJulia	Haines Company, Inc.
1967	VACANT	R. L. Polk & Co.

1819 9TH ST

Year	*Uses*	*Source*
1992	A IVAN S AUTO BODY	PACIFIC BELL DIRECTORY

1822 9TH ST

Year	*Uses*	*Source*
2006	NO ST GEORGE	Haines Company, Inc.
	TRAPEZE ARTS INC	Haines Company, Inc.
	SERBIAN ORTHDX	Haines Company, Inc.

1824 9TH ST

Year	*Uses*	*Source*
2000	CAP INTERNATIONAL	Pacific Bell
1996	ULLOA S AUTO REPAIR	PACIFIC BELL DIRECTORY
	TOW S R US	PACIFIC BELL DIRECTORY

1832 9TH ST

Year	*Uses*	*Source*
1996	ENVIRONMENTAL DRILLING SERVICE	PACIFIC BELL DIRECTORY

1846 9TH ST

Year	*Uses*	*Source*
1928	Katsulakis John T May ilk Jenny Wren Stores H	R.L. Polk and Co of California

9th Street

Client Entered

1832 9th Street

Year	*Uses*	*Source*
1996	ENVIRONMENTAL DRILLING SERVICE	PACIFIC BELL DIRECTORY

FINDINGS

Year	Uses	Source
1945	SPEARS WELLS MACHINERY CO INC	The Pacific Telephone & Telegraph Co.
	MICHIGAN POWER SHOVEL CO	The Pacific Telephone & Telegraph Co.
1938	SPEARS WELLS MCHY CO	Pacific Telephone
	GENERAL EXCAVATOR CO	Pacific Telephone
	MICHIGAN POWER SHOVEL CO	Pacific Telephone
	OSGOOD CO GAS SHOVELS	Pacific Telephone
1933	SPEARS WELLS MACHINERY CO INC W H B FOWLER PRES WARD WELLS V-PRES I M WELLS	R. L. Polk & Co.

CHASE CT

1745 CHASE CT

Year	Uses	Source
1975	JACKSON JAS	Pacific Telephone

1769 CHASE CT

Year	Uses	Source
1950	ALL STATE SUPPLY CO	The Pacific Telephone & Telegraph Co.

1771 CHASE CT

Year	Uses	Source
1950	MOORE FLORENCE R	The Pacific Telephone & Telegraph Co.

CHASE ST

1738 CHASE ST

Year	Uses	Source
2006	BENSONLee	Haines Company, Inc.
1970	ROBINSON WM L	Pacific Telephone Directory
1967	ROBINSON WM L	R. L. Polk & Co.
1962	Robinson Wm L	Pacific Telephone
	Robinson Daisey	Pacific Telephone
1955	ROBINSON GEO	The Pacific Telephone & Telegraph Co.
1950	BROWN MARY R	The Pacific Telephone & Telegraph Co.
1943	Jardine Ida I r	R. L. Polk & Co.
	Jardine Wm dairywkr h	R. L. Polk & Co.

Year	Uses	Source
1933	JARDINE WILLIE (IDA) CREAMERYWKR H	R. L. Polk & Co.
1928	Yardin Wm lab H	R.L. Polk and Co of California

1739 CHASE ST

Year	Uses	Source
2006	DEANJoe	Haines Company, Inc.
2000	DEAN JOE	Pacific Bell
1996	DEAN JOE	PACIFIC BELL DIRECTORY
1992	DEAN JOE	PACIFIC BELL DIRECTORY
1991	Dean Joe	PACIFIC BELL WHITE PAGES
1986	Dean Joe	PACIFIC BELL WHITE PAGES
1980	Dean Joe	Pacific Telephone
1975	DEAN JOE	Pacific Telephone
1970	DEAN JOE	Pacific Telephone Directory
1967	DEAN JOSEPH	R. L. Polk & Co.
1962	Dean Joe	Pacific Telephone
1955	DEAN HOWARD	The Pacific Telephone & Telegraph Co.
1950	FRAZIER MABLE R	The Pacific Telephone & Telegraph Co.
1945	PAYNES WESLEY R	The Pacific Telephone & Telegraph Co.
1943	Turner Edw shipydwkr r	R. L. Polk & Co.
	DEAN John M Ethel shipydwkr h	R. L. Polk & Co.
	Boyd Allen Estelle shipydwkr r	R. L. Polk & Co.
	WHITTAKER Octavia Mrs hotelwkr h	R. L. Polk & Co.
1938	WILLIAMS BERTHA R	Pacific Telephone
1933	WILEY BENJ CAR CLNR R	R. L. Polk & Co.
	PATRICK FLOYD CAR CLNR SPCO R	R. L. Polk & Co.
	ANDERSON ETHEL MRS H	R. L. Polk & Co.
1928	Surveyor Dora Mrs H	R.L. Polk and Co of California
	N Orange waiter R	R.L. Polk and Co of California
1925	FRANCIS MRS PEGGY R	R. L. Polk & Co. of California

1745 CHASE ST

Year	Uses	Source
2006	DURAN Gabriel	Haines Company, Inc.
	METCALFEHermon	Haines Company, Inc.
1992	4 JACKSON JAS	PACIFIC BELL DIRECTORY
	4 SMITH FANNIE	PACIFIC BELL DIRECTORY

FINDINGS

Year	Uses	Source
1991	Jackson Jas	PACIFIC BELL WHITE PAGES
	Smith Fannie	PACIFIC BELL WHITE PAGES
	Smith Farah	PACIFIC BELL WHITE PAGES
	Smith Farah	PACIFIC BELL WHITE PAGES
	Smith Fay	PACIFIC BELL WHITE PAGES
1986	Jackson Jas	PACIFIC BELL WHITE PAGES
	Smith Fannie	PACIFIC BELL WHITE PAGES
1980	Jackson Jas	Pacific Telephone
	Redmond Danl	Pacific Telephone
	Smith Fannie	Pacific Telephone

1765 CHASE ST

Year	Uses	Source
1933	GIGLIOTTI JOS (ANGELENA) CARMN H	R. L. Polk & Co.
1928	Gfillotti Eug tailor R	R.L. Polk and Co of California
	Jos Angelino lab H	R.L. Polk and Co of California

1769 CHASE ST

Year	Uses	Source
2006	ROBESON Nathan	Haines Company, Inc.
2000	JOE S TIRE AND BREAK SERVICE	Pacific Bell
1996	KELLY ESAU CONSTRUCTION	PACIFIC BELL DIRECTORY
1992	AMAR PRASAD AUTO REPAIR	PACIFIC BELL DIRECTORY
	JAXYSON JESSE C	PACIFIC BELL DIRECTORY
1991	Amar Prasad Auto Repair	PACIFIC BELL WHITE PAGES
1986	Amar Prasad Auto Repair	PACIFIC BELL WHITE PAGES
1980	J J J Metal Polishing Plating & Body Repair	Pacific Telephone
1970	TECHWELD CO	Pacific Telephone Directory
1967	TECHWELD CO STEEL FABRICATORS	R. L. Polk & Co.
1962	Techweld Co	Pacific Telephone
1955	GOODSTEIN WILLIAM ALL STATE SUPPLY CO	The Pacific Telephone & Telegraph Co.
	ALL-STATE SUPPLY CO	The Pacific Telephone & Telegraph Co.
1950	GOODSTEIN WM ALL STATE SUPPLY CO	The Pacific Telephone & Telegraph Co.

1771 CHASE ST

Year	Uses	Source
1992	GATISON KENNETH	PACIFIC BELL DIRECTORY
1991	English Annie Bell	PACIFIC BELL WHITE PAGES

Year	*Uses*	*Source*
1975	ENGLISH NED	Pacific Telephone
1970	ENGLISH NED	Pacific Telephone Directory
1967	ENGLISH NED	R. L. Polk & Co.
1962	English Ned	Pacific Telephone
1955	MCCORMICK ELOISE MRS	The Pacific Telephone & Telegraph Co.
1943	Flores Carlos lab r	R. L. Polk & Co.
	Flores Refugia Mrs h	R. L. Polk & Co.
1933	CONLEY ELIZ L (WID CHRIS) H	R. L. Polk & Co.
	CONLEY WM H LAB H	R. L. Polk & Co.
1928	n Philip Marie H	R.L. Polk and Co of California
	Guzman Angel car olnr R	R.L. Polk and Co of California
	Elisa Leonardo Onate H	R.L. Polk and Co of California

1771 1/2 CHASE ST

Year	*Uses*	*Source*
1945	DANIELS JOHNNIE R	The Pacific Telephone & Telegraph Co.

1773 CHASE ST

Year	*Uses*	*Source*
1955	RIVERS CELESTINE	The Pacific Telephone & Telegraph Co.
1950	RIVERS I REV R	The Pacific Telephone & Telegraph Co.
1943	Fruzzetti Ali lab SP Co h	R. L. Polk & Co.
	Fruzzetti Marie wid Louis h	R. L. Polk & Co.
1938	FRUZETTI A R	Pacific Telephone
1933	FRUZZETTI ANTONE LAB R	R. L. Polk & Co.
	FRUZZETTI MARY (WID LOUIS) H	R. L. Polk & Co.

1775 CHASE ST

Year	*Uses*	*Source*
1945	FRUZZETTI FRANCIS P R	The Pacific Telephone & Telegraph Co.
1943	Fruzzetti Francis P Helen M clk h	R. L. Polk & Co.
1928	Fruzzette Mary Mrs H	R.L. Polk and Co of California

1779 CHASE ST

Year	*Uses*	*Source*
2006	a ROBESON Nathan	Haines Company, Inc.
1970	SHUTTLEWORTH IRA JACK	Pacific Telephone Directory

Year	Uses	Source
1955	RELIFORD FRANCES	The Pacific Telephone & Telegraph Co.
1950	MITCHELL CLEO F R	The Pacific Telephone & Telegraph Co.
1943	Piona Manuel Dina ironwkr h	R. L. Polk & Co.
	Stevens Geo shipydwkr r	R. L. Polk & Co.
1933	DEL SARTO MAURICO LAB H	R. L. Polk & Co.
1928	Del Sarto Maurice lab H	R.L. Polk and Co of California

E 8TH ST

1770 E 8TH ST

Year	Uses	Source
1928	Ardley John fctywkr R	R.L. Polk and Co of California

GOSS ST

1769 GOSS ST

Map ID: 47

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1991	Sturholmarol	PACIFIC BELL WHITE PAGES
1980	Johnson A	Pacific Telephone
1970	PAGE ARTHUR	Pacific Telephone Directory
	PAGE GERALDINE	Pacific Telephone Directory
1967	PAGE GERALDINE MRS	R. L. Polk & Co.
1962	Adams John B Sr	Pacific Telephone
1955	BOYER HARVEY D	The Pacific Telephone & Telegraph Co.
1950	WILSON JAS R R	The Pacific Telephone & Telegraph Co.
1943	Fletcher Joel lab r	R. L. Polk & Co.
	Jones Theo barber r	R. L. Polk & Co.
	Shields Frances h	R. L. Polk & Co.
	Ferrel Coleman shipydwkr r	R. L. Polk & Co.
	EDWARDS Attis T porter r	R. L. Polk & Co.
1938	CRUIKSHANK MANUEL JR R	Pacific Telephone
1933	ROBERTSON MARGT M MAID R	R. L. Polk & Co.
	BATIES SOL CAR CLNR R	R. L. Polk & Co.
	DAVIS BERTHA (WID RAYMOND) H	R. L. Polk & Co.
1928	r Chas B H	R.L. Polk and Co of California
	Broadway Marshall porter R	R.L. Polk and Co of California

Year	Uses	Source
1925	BEASLEY MRS M R	R. L. Polk & Co. of California

MCELROY ST

852 MCELROY ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1962	Christian Dave	Pacific Telephone
1943	Sastini Leo S Annie shipydwkr h	R. L. Polk & Co.
	Sastini Angelina Mrs h	R. L. Polk & Co.

Map ID: 4

853 MCELROY ST

Year	Uses	Source
2006	DE LEON Rufno	Haines Company, Inc.
1943	Barcelas Mary Mrs Indywkr r	R. L. Polk & Co.
	Cabanaro John h	R. L. Polk & Co.

854 MCELROY ST

Year	Uses	Source
2006	ODONOGHUE Klean	Haines Company, Inc.
1943	SOUSA Tony A firemn SP Co h	R. L. Polk & Co.

856 MCELROY ST

Year	Uses	Source
2006	CHAMBERS Larry	Haines Company, Inc.
1986	Manuel R	PACIFIC BELL WHITE PAGES
	Manuel Perry	PACIFIC BELL WHITE PAGES
1980	Manuel Perry	Pacific Telephone
1943	Vasquez Roger carp r	R. L. Polk & Co.
	Vasquez Manuel Benigna whsmn h	R. L. Polk & Co.
	Torres Rudolph C clk S F Ry r	R. L. Polk & Co.

Map ID: 5

857 MCELROY ST

Year	Uses	Source
2006	VARDANEGA Robed	Haines Company, Inc.
1962	Collins Kattie	Pacific Telephone
1943	Rosso Onorato jan r	R. L. Polk & Co.
	Coggiola Colombo wid Enrico h	R. L. Polk & Co.
	Coggiola Eliz B r	R. L. Polk & Co.

FINDINGS

859 MCELROY ST

Year	Uses	Source
1943	HUDSON Kathleen Mrs h	R. L. Polk & Co.

860 MCELROY ST

Year	Uses	Source
2006	EVANS Wayne	Haines Company, Inc.
1980	Jackson Jas	Pacific Telephone
1943	ESTES Thos C Pearl shipydwkr h	R. L. Polk & Co.
	Lewis John W shipydwkr r	R. L. Polk & Co.
	Smith Vernon fctywkr r	R. L. Polk & Co.

861 MCELROY ST

Year	Uses	Source
2006	JARQUIN Anabel	Haines Company, Inc.
1986	Whitley Green	PACIFIC BELL WHITE PAGES
	Whitley J	PACIFIC BELL WHITE PAGES
	Whitley Janice	PACIFIC BELL WHITE PAGES
1980	Whitley Green	Pacific Telephone
1962	Whitley Green	Pacific Telephone
	Whitley Olevia	Pacific Telephone
1943	Arruda Aug L Mary shipydwkr h	R. L. Polk & Co.

863 MCELROY ST

Year	Uses	Source
2006	OSUNAEmes Io	Haines Company, Inc.
1962	Jackson Bobbie	Pacific Telephone

864 MCELROY ST

Year	Uses	Source
2006	MURRAY Kenneth	Haines Company, Inc.
	MURRAY Kenneth	Haines Company, Inc.
1962	Mc Kenna M	Pacific Telephone
1943	Madden Martin mech r	R. L. Polk & Co.
	Doyle Mary wid Thos h	R. L. Polk & Co.
	Fournier Volney U Dorothy tilewkr h	R. L. Polk & Co.

865 MCELROY ST

Year	Uses	Source
2006	PUKATCH Richard	Haines Company, Inc.
1991	Grayson Bobbie	PACIFIC BELL WHITE PAGES

FINDINGS

Year	Uses	Source
1986	Graze R	PACIFIC BELL WHITE PAGES
	Grayson Toni	PACIFIC BELL WHITE PAGES
	Grayson Shelley Mae	PACIFIC BELL WHITE PAGES
	Graze Walter	PACIFIC BELL WHITE PAGES
	Grayson Bobbie	PACIFIC BELL WHITE PAGES
	Grayson Chas Edw	PACIFIC BELL WHITE PAGES
	Grayson DD	PACIFIC BELL WHITE PAGES
1980	Grayson Chas Edw	Pacific Telephone
	Grayson Shelley Mae	Pacific Telephone
	Grayson Bobbie	Pacific Telephone
1962	Grayson Bobbie	Pacific Telephone
	Grayson Chas Edw	Pacific Telephone
	Grayson Shelley Mae	Pacific Telephone
1943	Cardoza Adelia D r	R. L. Polk & Co.
	Cardoza Manuel Adelia lab h	R. L. Polk & Co.
	Cardoza Manuel F lab r	R. L. Polk & Co.

868 MCELROY ST

Year	Uses	Source
1943	Rincon Arth Mary lab r	R. L. Polk & Co.
	DUARTE Victor Mary lab h	R. L. Polk & Co.
	DUARTE Susie cnrywkr r	R. L. Polk & Co.

869 MCELROY ST

Year	Uses	Source
2006	e NOCIFERAMario	Haines Company, Inc.
1962	Le Bars Henry r	Pacific Telephone
1943	Poulos Geo G Rose M electn h	R. L. Polk & Co.
	LE BARS Vincencia wid Yves h	R. L. Polk & Co.

872 MCELROY ST

Year	Uses	Source
2006	CARVAJAL Roberto	Haines Company, Inc.
1986	Perry Jessie L	PACIFIC BELL WHITE PAGES
1980	Perry Jessie L	Pacific Telephone
1943	Miller Lawrence F lab r	R. L. Polk & Co.
	Nilla Frank Mary lab h	R. L. Polk & Co.
	Nilla Frank jr seamn r	R. L. Polk & Co.
	Nilla Wm r	R. L. Polk & Co.

Year	Uses	Source
1943	Nilla Lawrence lab NSB r	R. L. Polk & Co.

873 MCELROY ST

Year	Uses	Source
2006	LAWTON Linda	Haines Company, Inc.
1943	Mirizzi Jos Anna guard NAB h	R. L. Polk & Co.
	Gigante Marie r	R. L. Polk & Co.

876 MCELROY ST

Year	Uses	Source
1962	Williams Mary G	Pacific Telephone

877 MCELROY ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1943	Wilson Douglas F lab h	R. L. Polk & Co.

880 MCELROY ST

Year	Uses	Source
2006	LETO Julio	Haines Company, Inc.
1962	Everett Dorothy	Pacific Telephone
	Everett Cleveland	Pacific Telephone
1943	Norbriga Jos lab h	R. L. Polk & Co.
	Norbriga John USA r	R. L. Polk & Co.
	Norbriga Evangeline smstrs r	R. L. Polk & Co.

886 MCELROY ST

Year	Uses	Source
2006	TOOMEYBIII	Haines Company, Inc.
1986	Benjamin F	PACIFIC BELL WHITE PAGES
	Benjamin Ethel M	PACIFIC BELL WHITE PAGES
1980	Benjamin Ethel M	Pacific Telephone
1962	Benjamin Ethel M	Pacific Telephone
1943	Mendez Reno Rena lab h	R. L. Polk & Co.
	Mendana Teresa Indywkr r	R. L. Polk & Co.

FINDINGS

PINE

1001 PINE

Year	*Uses*	*Source*
1955	BOLDRIDGE GEORGIA MRS R	The Pacific Telephone & Telegraph Co.
1928	Anthony M Evelyn blrmkr H	R.L. Polk and Co of California
	Creamery Sol emp SPCo R	R.L. Polk and Co of California
	t Herman J Evelyn blrmkr H	R.L. Polk and Co of California
1925	BROWN EVELYN B R	R. L. Polk & Co. of California

1003 PINE

Year	*Uses*	*Source*
1925	MARLOW BERT R	R. L. Polk & Co. of California

1004 PINE

Year	*Uses*	*Source*
1970	POST AUTO WRECKERS	Pacific Telephone Directory
1955	BELLAMY CLARENCE W	The Pacific Telephone & Telegraph Co.

1005 PINE

Year	*Uses*	*Source*
1955	MCCULLOUGH BERNICE R	The Pacific Telephone & Telegraph Co.

1006 PINE

Year	*Uses*	*Source*
1955	EMERICK C G	The Pacific Telephone & Telegraph Co.
1928	Dmnmick Virgil B Matilda ydmn H	R.L. Polk and Co of California
1925	DIMMICK V B R	R. L. Polk & Co. of California

1009 PINE

Year	*Uses*	*Source*
1970	FONTENETTE JOHN	Pacific Telephone Directory
1955	HUNTSBERRY MARY	The Pacific Telephone & Telegraph Co.

708 PINE

Year	*Uses*	*Source*
1980	Sawyer Shoe Shine Parlor	Pacific Telephone

FINDINGS

714 PINE

Year	*Uses*	*Source*
1980	Fritch Eugene	Pacific Telephone

727 PINE

Year	*Uses*	*Source*
1980	Hewitt Robt	Pacific Telephone

751 PINE

Year	*Uses*	*Source*
1955	CRUIKSHANK MANUEL JR R	The Pacific Telephone & Telegraph Co.
	CRUIKSHANK MANUEL JR PUB ACCT	The Pacific Telephone & Telegraph Co.

755 PINE

Year	*Uses*	*Source*
1955	HAMPTON ROSE ANNA	The Pacific Telephone & Telegraph Co.

759 PINE

Year	*Uses*	*Source*
1986	Golden Star Trucking	PACIFIC BELL WHITE PAGES
1980	Golden Star Trucking	Pacific Telephone
1955	FROST CALLIE	The Pacific Telephone & Telegraph Co.

763 PINE

Year	*Uses*	*Source*
1955	COOKS RAYMOND SR	The Pacific Telephone & Telegraph Co.

767 PINE

Year	*Uses*	*Source*
1980	St Lukes Missionary Baptist Church	Pacific Telephone
1955	MT MORIAH BAPTIST CHURCH	The Pacific Telephone & Telegraph Co.

779 PINE

Year	*Uses*	*Source*
1970	GILKEY L B	Pacific Telephone Directory
1955	HERMAN JOE	The Pacific Telephone & Telegraph Co.
	JENKINS JOS R	The Pacific Telephone & Telegraph Co.

FINDINGS

Year	Uses	Source
1955	STEVENS EDWINA MISS	The Pacific Telephone & Telegraph Co.
1925	HITE A M R	R. L. Polk & Co. of California

800 PINE

Year	Uses	Source
1991	Monsour M	PACIFIC BELL WHITE PAGES
	Montag D	PACIFIC BELL WHITE PAGES
	Montagne T	PACIFIC BELL WHITE PAGES
	Mc Laughlin Brian	PACIFIC BELL WHITE PAGES
	Mc Laughlin Bruce A	PACIFIC BELL WHITE PAGES
1986	Mc Mullen Kevin	PACIFIC BELL WHITE PAGES
	Monsour M	PACIFIC BELL WHITE PAGES
	Parker Robert	PACIFIC BELL WHITE PAGES
	Pine Iron Works	PACIFIC BELL WHITE PAGES
	Senegal D	PACIFIC BELL WHITE PAGES
	Senechal A	PACIFIC BELL WHITE PAGES
	Seneca Steel Co	PACIFIC BELL WHITE PAGES
	Schultz Bros Photographers	PACIFIC BELL WHITE PAGES
	Schultz Bart	PACIFIC BELL WHITE PAGES

806 PINE

Year	Uses	Source
1970	Clark Fredrick R	Pacific Telephone

808 PINE

Year	Uses	Source
1955	ODELL R E R	The Pacific Telephone & Telegraph Co.

812 PINE

Year	Uses	Source
1970	Bennett Robert R	Pacific Telephone
1928	Limos Nick cook H	R.L. Polk and Co of California

815 PINE

Year	Uses	Source
1991	Zajac Marianna	PACIFIC BELL WHITE PAGES
	Bischoff Jeffery	PACIFIC BELL WHITE PAGES
	Bischoff John	PACIFIC BELL WHITE PAGES
	Block Cinder	PACIFIC BELL WHITE PAGES

FINDINGS

Year	***Uses***	***Source***
1991	Zaitzew M	PACIFIC BELL WHITE PAGES
	Zajac D	PACIFIC BELL WHITE PAGES
1986	Anderson Greg L	PACIFIC BELL WHITE PAGES
	Espinosa Dante F	PACIFIC BELL WHITE PAGES

816 PINE

Year	***Uses***	***Source***
1980	Amos Minnie O	Pacific Telephone
1970	AMOS MINNIE O	Pacific Telephone Directory
1955	ELAM TOM	The Pacific Telephone & Telegraph Co.
1928	Varela Louise Q wid Mit iil H	R.L. Polk and Co of California
	Varela Iltoug R	R.L. Polk and Co of California
	Varela Leonore R	R.L. Polk and Co of California

817 PINE

Year	***Uses***	***Source***
1991	Calderwood Merl	PACIFIC BELL WHITE PAGES

818 PINE

Year	***Uses***	***Source***
1980	Stevenson Willnetta	Pacific Telephone
1970	THOMAS ALBERT R	Pacific Telephone Directory
1955	NEELEY FRED	The Pacific Telephone & Telegraph Co.

821 PINE

Year	***Uses***	***Source***
1991	CYPRE S S S ALVAGE	PACIFIC BELL WHITE PAGES
	Cypress Auto Salvage	PACIFIC BELL WHITE PAGES
	Cypress Used Auto Parts	PACIFIC BELL WHITE PAGES
1986	CYPRE S S S ALVAGE	PACIFIC BELL WHITE PAGES
	Cypress Used Auto Parts	PACIFIC BELL WHITE PAGES
	Cypress Auto Salvage	PACIFIC BELL WHITE PAGES
1980	Cypress Used Auto Parts	Pacific Telephone
	CYPRESS SALVAGE	Pacific Telephone
	Cypress Auto Salvage	Pacific Telephone

822 PINE

Year	***Uses***	***Source***
1986	Campbell Floyd	PACIFIC BELL WHITE PAGES

Year	Uses	Source
1980	Campbell Floyd	Pacific Telephone
	Howard D	Pacific Telephone
1970	LINZIE ESTORIA LEE	Pacific Telephone Directory
1955	LINZIE ROOSEVELT R	The Pacific Telephone & Telegraph Co.
	NICHOLAS ETHEL MRS	The Pacific Telephone & Telegraph Co.

826 PINE

Year	Uses	Source
1991	Walls Opal	PACIFIC BELL WHITE PAGES
	Gilliam Ronita	PACIFIC BELL WHITE PAGES
1986	Alexander Eddie	PACIFIC BELL WHITE PAGES
1980	Jackson Ethel	Pacific Telephone
1970	CHEATHAM CLYTIE	Pacific Telephone Directory
1955	CHEATHAM CLYTIE	The Pacific Telephone & Telegraph Co.

830 PINE

Year	Uses	Source
1986	Williams Demetrious	PACIFIC BELL WHITE PAGES
1980	Williams Demetrious	Pacific Telephone
1970	Woods Chas L	Pacific Telephone
	WELLS DORIS	Pacific Telephone Directory
1955	GOMEZ FRANK R	The Pacific Telephone & Telegraph Co.
	SPIKULA NICK JR R	The Pacific Telephone & Telegraph Co.

834 PINE

Year	Uses	Source
1970	WILLIAMS SAMMIE	Pacific Telephone Directory
1955	WILLIAMS SAMMIE	The Pacific Telephone & Telegraph Co.

835 PINE

Year	Uses	Source
1970	Miller J Ivan	Pacific Telephone

836 PINE

Year	Uses	Source
1991	Spikula John	PACIFIC BELL WHITE PAGES

FINDINGS

Year	*Uses*	*Source*
1986	Spikula John	PACIFIC BELL WHITE PAGES
1980	Spikula John	Pacific Telephone
1970	Taylor Norman J Jr	Pacific Telephone

842 PINE

Year	*Uses*	*Source*
1970	Gray Carson	Pacific Telephone

844 PINE

Year	*Uses*	*Source*
1986	Landry Wilmer C Chr Sci Pr	PACIFIC BELL WHITE PAGES
	Landry Ozell	PACIFIC BELL WHITE PAGES
1980	Landry Ozell	Pacific Telephone
1970	LANDRY OZELL	Pacific Telephone Directory
1955	LANDRY OZELL R	The Pacific Telephone & Telegraph Co.

846 PINE

Year	*Uses*	*Source*
1955	SPAGAN JOHNNIE	The Pacific Telephone & Telegraph Co.

848 PINE

Year	*Uses*	*Source*
1970	Holcomb Earl W	Pacific Telephone
1955	OWENS MARY	The Pacific Telephone & Telegraph Co.

850 PINE

Year	*Uses*	*Source*
1955	FLEMINGS IRELENE J	The Pacific Telephone & Telegraph Co.

852 PINE

Year	*Uses*	*Source*
1991	Jones Genner	PACIFIC BELL WHITE PAGES
1986	Jones Genner	PACIFIC BELL WHITE PAGES
1980	Jones Genner	Pacific Telephone
1970	JONES GENNER	Pacific Telephone Directory

FINDINGS

854 PINE

Year	Uses	Source
1955	HARRIS JAS	The Pacific Telephone & Telegraph Co.

858 PINE

Year	Uses	Source
1955	HENDERSON HENRY R	The Pacific Telephone & Telegraph Co.

860 PINE

Year	Uses	Source
1970	Bettencourt Edw D	Pacific Telephone

862 PINE

Year	Uses	Source
1955	DUARTE GREGORY	The Pacific Telephone & Telegraph Co.

865 PINE

Year	Uses	Source
1925	SCOTT W A TAXI SERV	R. L. Polk & Co. of California

866 PINE

Year	Uses	Source
1991	Rienhardt Chas	PACIFIC BELL WHITE PAGES
1986	Rienhardt Chas	PACIFIC BELL WHITE PAGES
1980	Rienhardt Chas	Pacific Telephone
1970	Bull Jason A	Pacific Telephone
	PEGG VELMA	Pacific Telephone Directory
1955	PEGG VELMA R	The Pacific Telephone & Telegraph Co.
1925	HODGES MRS A W R	R. L. Polk & Co. of California

870 PINE

Year	Uses	Source
1970	NEELY GERTRUDE	Pacific Telephone Directory
	NEELY SAMMIE	Pacific Telephone Directory
1955	CAREY ALEX R	The Pacific Telephone & Telegraph Co.

FINDINGS

874 PINE

Year	Uses	Source
1955	WHITE BOBBY	The Pacific Telephone & Telegraph Co.
	WHITE ESSIE MAE	The Pacific Telephone & Telegraph Co.

878 PINE

Year	Uses	Source
1970	Gainous Jack T	Pacific Telephone
1955	ELLIS REPAIR SERVICE	The Pacific Telephone & Telegraph Co.
1928	Martcellacci Victor Rose lab H	R.L. Polk and Co of California

882 PINE

Year	Uses	Source
1955	MARTINEZ MAX J	The Pacific Telephone & Telegraph Co.
	MARTINEZ ROBT	The Pacific Telephone & Telegraph Co.

884 PINE

Year	Uses	Source
1970	Lutz Bert	Pacific Telephone

886 PINE

Year	Uses	Source
1986	Reynolds Charlie J Red	PACIFIC BELL WHITE PAGES
1980	Martin Gertrude	Pacific Telephone
1970	MARTIN GERTRUDE	Pacific Telephone Directory

903 PINE

Year	Uses	Source
1991	Edwards Harvie	PACIFIC BELL WHITE PAGES
1986	Edwards Harvie	PACIFIC BELL WHITE PAGES
1980	Edwards Harvie	Pacific Telephone
1970	EDWARDS HARVIE	Pacific Telephone Directory
1955	EDWARDS HARVIE	The Pacific Telephone & Telegraph Co.
1925	ROSE LYDIA A R	R. L. Polk & Co. of California

FINDINGS

905 PINE

Year	*Uses*	*Source*
1955	CONN E A R	The Pacific Telephone & Telegraph Co.

907 PINE

Year	*Uses*	*Source*
1986	Kellum Chas	PACIFIC BELL WHITE PAGES
	Kellum Arthur Mack	PACIFIC BELL WHITE PAGES
1980	Kellum Arthur Mack	Pacific Telephone
1955	SILVA JENNIE D MRS	The Pacific Telephone & Telegraph Co.

911 PINE

Year	*Uses*	*Source*
1980	Battle Ernest R	Pacific Telephone
1970	BATTLE ERNEST R	Pacific Telephone Directory
1955	GABRIEL URIAH	The Pacific Telephone & Telegraph Co.

917 PINE

Year	*Uses*	*Source*
1955	WARE MOSES	The Pacific Telephone & Telegraph Co.

924 PINE

Year	*Uses*	*Source*
1991	Mendoza Alfred	PACIFIC BELL WHITE PAGES
1986	Mendoza Alfred	PACIFIC BELL WHITE PAGES
1980	Mendoza Alfred	Pacific Telephone
1970	MENDOZA ALFRED	Pacific Telephone Directory
1955	MENDOZA ALFRED R	The Pacific Telephone & Telegraph Co.

927 PINE

Year	*Uses*	*Source*
1980	Argueta Ana	Pacific Telephone

927 1/2 PINE

Year	*Uses*	*Source*
1970	KELLY JERRY	Pacific Telephone Directory
	KELLY JERRY	Pacific Telephone Directory

929 PINE

Year	Uses	Source
1970	CASTLEMAN W A	Pacific Telephone Directory
1955	CASTLEMAN W A	The Pacific Telephone & Telegraph Co.

930 PINE

Year	Uses	Source
1986	Radonich Dave	PACIFIC BELL WHITE PAGES
	Radomsky Salvage Co	PACIFIC BELL WHITE PAGES
1980	Radomsky Salvage Co	Pacific Telephone
1970	RADOMSKY SALVAGE CO	Pacific Telephone Directory

933 PINE

Year	Uses	Source
1925	DEWITT HENRY R	R. L. Polk & Co. of California

937 PINE

Year	Uses	Source
1955	LUCICH STEVE R	The Pacific Telephone & Telegraph Co.

942 PINE

Year	Uses	Source
1928	f Frances wid Jas A H	R.L. Polk and Co of California
1925	JONES FRANCES R	R. L. Polk & Co. of California

PINE AVE

1009 PINE AVE

Year	Uses	Source
1928	Fanelli Domenico H	R.L. Polk and Co of California

751 PINE AVE

Year	Uses	Source
1928	h John H	R.L. Polk and Co of California

755 PINE AVE

Year	Uses	Source
1928	Co Jessie Mrs H	R.L. Polk and Co of California
	Grabb Aug R	R.L. Polk and Co of California
	Grabb Henry meatctr R	R.L. Polk and Co of California

FINDINGS

758 PINE AVE

Year	***Uses***	***Source***
2006	WONGElaine	Haines Company, Inc.

759 PINE AVE

Year	***Uses***	***Source***
2006	a HOLDENER Thomas	Haines Company, Inc.
1928	Sipe Jacob M Nancy E solr H	R.L. Polk and Co of California
	Sipe Ray E formn PG&ECo R	R.L. Polk and Co of California

761 PINE AVE

Year	***Uses***	***Source***
1986	MC KONE THOMAS E	Pacific Bell

763 PINE AVE

Year	***Uses***	***Source***
1928	Kayo Win Victoria lab H	R.L. Polk and Co of California

767 PINE AVE

Year	***Uses***	***Source***
1928	Ciprian Michi car cln R	R.L. Polk and Co of California
	Deleget Mark lab R	R.L. Polk and Co of California
	Perianik Marko car insptr SPCo H	R.L. Polk and Co of California

774 PINE AVE

Year	***Uses***	***Source***
2006	POWERS Patrick	Haines Company, Inc.
1928	av Manufacturing Company C R Gray garden tools	R.L. Polk and Co of California

775 PINE AVE

Year	***Uses***	***Source***
2006	e DUPONT Patrick	Haines Company, Inc.

779 PINE AVE

Year	***Uses***	***Source***
1928	Clifford Alice waiter b H	R.L. Polk and Co of California

789 PINE AVE

Year	***Uses***	***Source***
2006	e REDWINE Eaine	Haines Company, Inc.

FINDINGS

790 PINE AVE

Year	Uses	Source
2006	LYNCH Ctiutopher	Haines Company, Inc.

808 PINE AVE

Year	Uses	Source
1928	Ohisamar Frank Milly lab H	R.L. Polk and Co of California

811 PINE AVE

Year	Uses	Source
2006	CROFOOTMichael	Haines Company, Inc.

812 PINE AVE

Year	Uses	Source
2006	a MEEKER Micael	Haines Company, Inc.

818 PINE AVE

Year	Uses	Source
1928	Peguero Francisco lab R	R.L. Polk and Co of California

821 PINE AVE

Year	Uses	Source
1928	Cedar Thos J Vivian car clnr H	R.L. Polk and Co of California

822 PINE AVE

Year	Uses	Source
1928	Crescent Edmonia Mrs H	R.L. Polk and Co of California

826 PINE AVE

Year	Uses	Source
1928	Spikula Nich Anna cook H	R.L. Polk and Co of California

830 PINE AVE

Year	Uses	Source
1928	h Guadalupe stdt R	R.L. Polk and Co of California
	tional Manuel lab R	R.L. Polk and Co of California
	tional Maria wid Jose H	R.L. Polk and Co of California

834 PINE AVE

Year	Uses	Source
1928	Sastini Eva C stdt R	R.L. Polk and Co of California
	Sastini Anelsna wi Michl H	R.L. Polk and Co of California

FINDINGS

835 PINE AVE

Year	***Uses***	***Source***
2006	a PRATHERWFtam	Haines Company, Inc.

836 PINE AVE

Year	***Uses***	***Source***
2006	o PRATHER Wiam	Haines Company, Inc.

837 PINE AVE

Year	***Uses***	***Source***
1928	Leimar Jos P R	R.L. Polk and Co of California
	Leimar Henry printer R	R.L. Polk and Co of California
	Leimar Alt R	R.L. Polk and Co of California
	Leimar Geo R	R.L. Polk and Co of California
	Leimar Louis Ilremn R	R.L. Polk and Co of California
	Leimar Manuel lab R	R.L. Polk and Co of California
	Leimar Manuel P Isabelle lab H	R.L. Polk and Co of California
	Leimar Virginia P R	R.L. Polk and Co of California
	Le Mar Jos lab R	R.L. Polk and Co of California
	Leamer Manuel K millmn R	R.L. Polk and Co of California

838 PINE AVE

Year	***Uses***	***Source***
1928	w Lee C electn H	R.L. Polk and Co of California

840 PINE AVE

Year	***Uses***	***Source***
1928	Padilla Lorenzo Sylvia lab H	R.L. Polk and Co of California

842 PINE AVE

Year	***Uses***	***Source***
1928	Ophelia Oliver P candymkr H	R.L. Polk and Co of California

844 PINE AVE

Year	***Uses***	***Source***
1928	Valadon Anthony Louise carp H	R.L. Polk and Co of California
	Valadon Al! A shtmtlwkr R	R.L. Polk and Co of California

846 PINE AVE

Year	***Uses***	***Source***
1928	Ouarez Sabino Aurelia lab H	R.L. Polk and Co of California

FINDINGS

848 PINE AVE

Year	***Uses***	***Source***
1928	Codenez Bianco H	R.L. Polk and Co of California

850 PINE AVE

Year	***Uses***	***Source***
1928	h Geo N Felicina blrmkr H	R.L. Polk and Co of California
	Gemignani Felicia fctywkr R	R.L. Polk and Co of California

851 PINE AVE

Year	***Uses***	***Source***
1928	Thos Wm S Lula M lab H	R.L. Polk and Co of California

852 PINE AVE

Year	***Uses***	***Source***
1928	Montangelo A lab R	R.L. Polk and Co of California

854 PINE AVE

Year	***Uses***	***Source***
1928	Miadlnich Michl Diana lab H	R.L. Polk and Co of California
	Miadlnich John R	R.L. Polk and Co of California
	Filipich Jos lab R	R.L. Polk and Co of California

858 PINE AVE

Year	***Uses***	***Source***
1928	Catalau Desiderio lab H	R.L. Polk and Co of California

859 PINE AVE

Year	***Uses***	***Source***
1986	LABORERS UNION LOCAL 304	Pacific Bell
1984	LABORDE PAUL J	Pacific Bell
1928	ster Leonardo lab H	R.L. Polk and Co of California
	Ornelas Nieles lab R	R.L. Polk and Co of California
	Rinozzo Edw lab R	R.L. Polk and Co of California
	Reynoso Eduogives lab R	R.L. Polk and Co of California

860 PINE AVE

Year	***Uses***	***Source***
2006	e LAZOPedm	Haines Company, Inc.
	LAZOS HOME	Haines Company, Inc.

FINDINGS

861 PINE AVE

Year	Uses	Source
2006	a HERNANDEZLarie	Haines Company, Inc.

862 PINE AVE

Year	Uses	Source
1928	Selado Delflno Pauline lab H	R.L. Polk and Co of California

865 PINE AVE

Year	Uses	Source
1928	av Frank M reprmn R	R.L. Polk and Co of California
	55th Wm A Bobbie H	R.L. Polk and Co of California

866 PINE AVE

Year	Uses	Source
1928	Fayette Mrs H	R.L. Polk and Co of California

870 PINE AVE

Year	Uses	Source
1928	Mannini Gino lab R	R.L. Polk and Co of California
	Nannini Lena Mrs H	R.L. Polk and Co of California
	Nannini Minnie fctywkr R	R.L. Polk and Co of California

874 PINE AVE

Year	Uses	Source
1928	Mc Beulah H	R.L. Polk and Co of California

884 PINE AVE

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.

885 PINE AVE

Year	Uses	Source
2006	HERZIG Maxim	Haines Company, Inc.

886 PINE AVE

Year	Uses	Source
2006	GOZZANOThwoa	Haines Company, Inc.
1928	Foundry n Peter M mach R	R.L. Polk and Co of California
	side Jos C firemn R	R.L. Polk and Co of California
	Havenscourt Gertrude R R	R.L. Polk and Co of California
	n Eliz A 4 Thos P H	R.L. Polk and Co of California

FINDINGS

Year	***Uses***	***Source***
1928	way Cath M R	R.L. Polk and Co of California

889 PINE AVE

Year	***Uses***	***Source***
1928	Borgas Joe Mary barbe R	R.L. Polk and Co of California
	H	R.L. Polk and Co of California

890 PINE AVE

Year	***Uses***	***Source***
2006	e ABDELLOUI Laila	Haines Company, Inc.

903 PINE AVE

Year	***Uses***	***Source***
1928	Cudro Felix Margt tmstr H	R.L. Polk and Co of California

905 PINE AVE

Year	***Uses***	***Source***
1928	B Austen A R	R.L. Polk and Co of California

907 PINE AVE

Year	***Uses***	***Source***
1928	F Frank D Jenny barbe R	R.L. Polk and Co of California
	H	R.L. Polk and Co of California

917 PINE AVE

Year	***Uses***	***Source***
1928	N Domingo Ellz lab H	R.L. Polk and Co of California

921 PINE AVE

Year	***Uses***	***Source***
1928	M Gladys pntr H	R.L. Polk and Co of California
	Jos M lab R	R.L. Polk and Co of California

924 PINE AVE

Year	***Uses***	***Source***
1928	land Johnie M wid Chas H	R.L. Polk and Co of California

927 PINE AVE

Year	***Uses***	***Source***
1928	Mary fctywkr R	R.L. Polk and Co of California

FINDINGS

929 PINE AVE

Year	Uses	Source
1928	Santa Prank C Kate clk Ala Belt Line H	R.L. Polk and Co of California
	Santa Francis E clk SPCo R	R.L. Polk and Co of California

932 PINE AVE

Year	Uses	Source
1928	Tillis Jas cook R	R.L. Polk and Co of California

933 PINE AVE

Year	Uses	Source
1928	San Robt Bessie waiter H	R.L. Polk and Co of California
	15th Wallace Anna lath grader H	R.L. Polk and Co of California

937 PINE AVE

Year	Uses	Source
1928	Lucich Anthony R	R.L. Polk and Co of California
	Lucich Lena R	R.L. Polk and Co of California
	Lucich Vivian R	R.L. Polk and Co of California
	Lucich Steve formn PG&ECo H	R.L. Polk and Co of California

942 PINE AVE

Year	Uses	Source
1928	av Sam cook R	R.L. Polk and Co of California
	wood Leonard D waiter R	R.L. Polk and Co of California
	av Jas A Jr stdt R	R.L. Polk and Co of California
	H Howard A porter R	R.L. Polk and Co of California

944 PINE AVE

Year	Uses	Source
1928	h & Pelosi Aladino Martinelli Marino Pelosi gre	R.L. Polk and Co of California

PINE CT

822 PINE CT

Year	Uses	Source
1950	LINZIE ALICE R	The Pacific Telephone & Telegraph Co.

PINE LN

866 PINE LN

Year	Uses	Source
1975	PEGG VELMA	Pacific Telephone

PINE ST

1001 PINE ST

Year	Uses	Source
1962	Boldridge Georgia Mrs	Pacific Telephone
1945	BOLDRIDGE GEORGIA MRS R	The Pacific Telephone & Telegraph Co.
1943	Baldridge Georgia Mrs h	R. L. Polk & Co.
1938	HAYNIE G K R	Pacific Telephone
1920	BROWN EVELYN B R	R. L. Polk & Co. of California

1003 PINE ST

Year	Uses	Source
1943	Boldridge Matthew Georgia barber r	R. L. Polk & Co.

1004 PINE ST

Year	Uses	Source
1967	BAYSIDE AUTO WRECKING	R. L. Polk & Co.
1950	EMERICK RAYMOND R	The Pacific Telephone & Telegraph Co.
1945	CARPENTER D R R	The Pacific Telephone & Telegraph Co.
1943	HORN Clyde Velma shipydwkr h	R. L. Polk & Co.

1005 PINE ST

Year	Uses	Source
1967	VACANT	R. L. Polk & Co.
1962	Murphy Ollie Lee	Pacific Telephone
1950	KEYS MARIE R	The Pacific Telephone & Telegraph Co.
1945	JOHNSON DAN R	The Pacific Telephone & Telegraph Co.
1943	Vittoli Frank mech r	R. L. Polk & Co.
	Benanda Michl Laura lab h	R. L. Polk & Co.
	Benanda Fred J shipydwkr r	R. L. Polk & Co.
1938	BENANDA MIKE R	Pacific Telephone
1933	BENANDA MICHL (LAURA) LAB H	R. L. Polk & Co.

FINDINGS

1006 PINE ST

Year	Uses	Source
1950	EMERICK C G R	The Pacific Telephone & Telegraph Co.
1945	EMERICK C G R	The Pacific Telephone & Telegraph Co.
1943	Emerick Claude G Alva swchmn h	R. L. Polk & Co.
1933	LEPURIN JOHN (LUCY) H	R. L. Polk & Co.

1009 PINE ST

Year	Uses	Source
1967	RICHARDS BENNIE	R. L. Polk & Co.
1950	FANELLI DOMENICO R	The Pacific Telephone & Telegraph Co.
1945	FANELLI DOMENICO R	The Pacific Telephone & Telegraph Co.
1943	Fanelli Dominic Rose lab h	R. L. Polk & Co.
1938	FANELLI D R	Pacific Telephone
1933	FANELLI DOMENICO (ROSE) LAB H	R. L. Polk & Co.

707 PINE ST

Year	Uses	Source
2002	WON Sau EKuen	Haines
	WON Sau EKuen	R. L. Polk & Co.
1920	WEST OAKLAND RESTAURANT	R. L. Polk & Co. of California

714 PINE ST

Year	Uses	Source
1967	VACANT	R. L. Polk & Co.
1933	SHEA MARTIN H	R. L. Polk & Co.

727 PINE ST

Year	Uses	Source
1967	OAKLAND FIRE DEPT STA	R. L. Polk & Co.
1962	Adams Ernest F	Pacific Telephone

751 PINE ST

Year	Uses	Source
1967	WIGGINS JOEVA	R. L. Polk & Co.
1950	CRUIKSHANK MANUEL JR R	The Pacific Telephone & Telegraph Co.
1945	CRUIKSHANK MANUEL JR R	The Pacific Telephone & Telegraph Co.

FINDINGS

Year	Uses	Source
1943	Cruickshank Manuel jr USA r	R. L. Polk & Co.
	Cruickshank Manuel Lillie barber h	R. L. Polk & Co.
1938	HITE H A R	Pacific Telephone

753 PINE ST

Year	Uses	Source
2002	CASTILLOVr Ior	R. L. Polk & Co.
	CASTILLOVr Ior	Haines
1986	HOLTON AMY	Pacific Bell
	CASTILLO VIE	Pacific Bell

755 PINE ST

Year	Uses	Source
2002	OLVERFFbyd	Haines
	BURCHFIELOBrandon T	Haines
	OLVERFFbyd	R. L. Polk & Co.
	BURCHFIELOBrandon T	R. L. Polk & Co.
1986	ANDERSEN S	Pacific Bell
1967	CHEEK THOS J	R. L. Polk & Co.
1962	Butler Rose Anna	Pacific Telephone
	Butler Matthew	Pacific Telephone
1950	LOVETT MARJORIE R	The Pacific Telephone & Telegraph Co.
1945	WILKERSON HELEN R	The Pacific Telephone & Telegraph Co.
1943	Williams Eug Linner whsmn h	R. L. Polk & Co.
	Mason Leon Mary whsmn r	R. L. Polk & Co.
1933	BRIGGS HAMPTON W (REBECCA G) JAN H	R. L. Polk & Co.

757 PINE ST

Year	Uses	Source
2002	MCCONNELLKaren	R. L. Polk & Co.
	MCCONNELLKaren	Haines
1979	GLOVER J D	Pacific Telephone

759 PINE ST

Year	Uses	Source
2006	a MADDEN Nolden	Haines Company, Inc.
2002	WENGERTJohn	Haines
	WENGERTJohn	R. L. Polk & Co.
1979	CHAKEDIS DENNIS	Pacific Telephone

Year	Uses	Source
1975	ANGELES FIRE EQUIPMENT CO	Pacific Telephone
1967	MARSHALL ERNEST	R. L. Polk & Co.
1962	Brooks Charlie	Pacific Telephone
1945	RAYFORD MARY R	The Pacific Telephone & Telegraph Co.
1943	THOMAS Jas lab h	R. L. Polk & Co.
1933	SAVAGE GEO R (FAYE) LAB H	R. L. Polk & Co.
	CAMARIS PETER LAB R	R. L. Polk & Co.

761 PINE ST

Year	Uses	Source
2002	KAHARICKMark	R. L. Polk & Co.
	KAHARICKMark	Haines
1979	BASCOM BARBARA L	Pacific Telephone

763 PINE ST

Year	Uses	Source
2002	GAJDALee	Haines
	GAJDALee	R. L. Polk & Co.
1986	FRY CHRISTINE D	Pacific Bell
1979	FRY GENE	Pacific Telephone
1967	BUTLER MARSHALLA MRS	R. L. Polk & Co.
1962	Patterson Allie	Pacific Telephone
1943	Bell Austin Fannie pntr h	R. L. Polk & Co.
	Williams Harry Ruth lab r	R. L. Polk & Co.
1920	WALTHOUR D L R	R. L. Polk & Co. of California

765 PINE ST

Year	Uses	Source
2002	BURDICKtawrence	Haines
	BURDICKtawrence	R. L. Polk & Co.
1979	METZ GEO R	Pacific Telephone

767 PINE ST

Year	Uses	Source
2006	MISSIONARY BAPT	Haines Company, Inc.
	STLUKES	Haines Company, Inc.
2002	LEISKEJanice	Haines
	LEISKEJanice	R. L. Polk & Co.
2000	ST LUKE S MISSIONARY BAPTIST CHURCH	Pacific Bell

Year	Uses	Source
1996	ST LUKE S MISSIONARY BAPTIST CHURCH	PACIFIC BELL DIRECTORY
1992	ST LUKE S MISSIONARY BAPTIST CHURCH	PACIFIC BELL DIRECTORY
1991	St Lukes Missionary Baptist Church	PACIFIC BELL WHITE PAGES
1943	Cage Robt P Callie shipydwkr h	R. L. Polk & Co.
	Gaines Elmer lab r	R. L. Polk & Co.
	Gaines Easel lab r	R. L. Polk & Co.
1933	HASKELL WALTER W LAB H	R. L. Polk & Co.

775 PINE ST

Year	Uses	Source
1967	GALATAIN MISSIONARY BAPTIST CHURCH	R. L. Polk & Co.

777 PINE ST

Year	Uses	Source
1967	VACANT	R. L. Polk & Co.

779 PINE ST

Year	Uses	Source
1950	J & M BARBECUE PIT	The Pacific Telephone & Telegraph Co.
	JENKINS JAS R	The Pacific Telephone & Telegraph Co.
1945	COCHRAN ELLA R	The Pacific Telephone & Telegraph Co.
1943	PRYOR Theo Lorene USA r	R. L. Polk & Co.
	Barnes Docia shipydwkr r	R. L. Polk & Co.
	COCHRAN Virgil L Ella lab h	R. L. Polk & Co.
	Cockwell Marvin mech r	R. L. Polk & Co.
	COLBERT Jas lab NSB r	R. L. Polk & Co.
	Hill Maxine Mrs r	R. L. Polk & Co.
	HOWARD Thos lab r	R. L. Polk & Co.
	JONES Benj lab r	R. L. Polk & Co.
1933	LOERA EVARISTO (CATH) PNTR H	R. L. Polk & Co.

780 PINE ST

Year	Uses	Source
2002	DECARLSLEBandy	R. L. Polk & Co.
	DECARLSLEBandy	Haines

FINDINGS

793 PINE ST

Year	*Uses*	*Source*
2002	NIXON 0 im	Haines
	NIXON 0 im	R. L. Polk & Co.
1986	JAKOWATZ JON	Pacific Bell
1979	CLEVENGER RAYLENE	Pacific Telephone

795 PINE ST

Year	*Uses*	*Source*
2002	SWANSONAlbert D	Haines
	SWANSONAlbert D	R. L. Polk & Co.
1986	SWANSON ALBERT D	Pacific Bell
1979	SWANSON ALBERT D	Pacific Telephone

799 PINE ST

Year	*Uses*	*Source*
1986	OBERMAN KEVIN	Pacific Bell

800 PINE ST

Year	*Uses*	*Source*
2006	STADLERSusanne	Haines Company, Inc.
	CHAPMAN A	Haines Company, Inc.
	BLUMGsry 510 S 28 0874	Haines Company, Inc.
2000	1 WEST OAKLAND HEALTH COUNCIL INC	Pacific Bell
	WEAP	Pacific Bell
1996	1 WEST OAKLAND HEALTH CENTER	PACIFIC BELL DIRECTORY
1992	MONSOUR M	PACIFIC BELL DIRECTORY
	8 STEVENSON TONY	PACIFIC BELL DIRECTORY
	4B FINNERTY JAMES	PACIFIC BELL DIRECTORY
	4C ARMSTRONG TED	PACIFIC BELL DIRECTORY
1950	SALAZAR AGAPITO R	The Pacific Telephone & Telegraph Co.

806 PINE ST

Year	*Uses*	*Source*
2002	NAVARRORalph	R. L. Polk & Co.
	NAVARRORalph	Haines

808 PINE ST

Year	*Uses*	*Source*
1967	ANDERSON MILDRED	R. L. Polk & Co.

FINDINGS

812 PINE ST

Year	Uses	Source
2002	BENNETTRobert	R. L. Polk & Co.
	BENNETTRobert	Haines
1967	VACANT	R. L. Polk & Co.
1945	DULMLERI JOHN R	The Pacific Telephone & Telegraph Co.
1933	ROBINSON MOLLIE R	R. L. Polk & Co.
	LISSE NICH COOK H	R. L. Polk & Co.

815 PINE ST

Year	Uses	Source
1992	BISCHOFF CINDER & JEFFERY	PACIFIC BELL DIRECTORY
	DORN CHRISTIAN	PACIFIC BELL DIRECTORY
	ABRAMS PETR	PACIFIC BELL DIRECTORY
	BAY AREA ROCK MAGAZINE	PACIFIC BELL DIRECTORY

816 PINE ST

Year	Uses	Source
2006	a LUCKETTFredic	Haines Company, Inc.
1967	AMOS MINNIE	R. L. Polk & Co.
1945	SPIKULA JOHN R	The Pacific Telephone & Telegraph Co.
1943	Spikula John Florence driver h	R. L. Polk & Co.
1933	CHESMIRE FRANK (MILLIE) LAB H	R. L. Polk & Co.

818 PINE ST

Year	Uses	Source
2006	Chrltopher	Haines Company, Inc.
	MURDOCH	Haines Company, Inc.
2002	WOOTENWil Irm T	Haines
	WOOTENWil Irm T	R. L. Polk & Co.
1986	JOHNSON L T	Pacific Bell
1979	JOHNSON L T	Pacific Telephone
1967	EVANS AZALEF MRS	R. L. Polk & Co.
1943	Cherry Roosevelt Hester lab h	R. L. Polk & Co.

821 PINE ST

Year	Uses	Source
1992	PHOENIX IRON WORKS	PACIFIC BELL DIRECTORY
	CYPRESS USED AUTO PARTS	PACIFIC BELL DIRECTORY

FINDINGS

Year	*Uses*	*Source*
1992	CYPRESS SALVAGE	PACIFIC BELL DIRECTORY
1967	VINNELL STEFL STEEL FABRICATORS	R. L. Polk & Co.
1945	INDEPENDENT IRON WORKS LTD	The Pacific Telephone & Telegraph Co.
1943	Independent Iron Works Henry Gede jr W G Meagher	R. L. Polk & Co.
1938	INDEPENDENT IRON WORKS LTD	Pacific Telephone
1920	DYE FANNIE NURSE	R. L. Polk & Co. of California

822 PINE ST

Year	*Uses*	*Source*
1967	LINZIE ROOSEVELT	R. L. Polk & Co.
1962	Linzie Estoria Lee	Pacific Telephone
	Linzie Roosevelt	Pacific Telephone
1945	LINZIE ALICE R	The Pacific Telephone & Telegraph Co.
1933	FORD LAVALLE PORTER R	R. L. Polk & Co.
	FORD OMAY MRS H	R. L. Polk & Co.

824 PINE ST

Year	*Uses*	*Source*
2002	OIXONJay	Haines
	OIXONJay	R. L. Polk & Co.
1979	POLLARD DEBRA	Pacific Telephone
	POLLARD WANDA J	Pacific Telephone

826 PINE ST

Year	*Uses*	*Source*
1992	SANDERS ROBIN	PACIFIC BELL DIRECTORY
1975	CHEATHAM CLYTIE	Pacific Telephone
1967	CHEATHAM CLYTIE	R. L. Polk & Co.
	JACKSON K P	R. L. Polk & Co.
1962	Cheatham Clytie	Pacific Telephone
1950	PONCE ANTONIO R	The Pacific Telephone & Telegraph Co.
1943	Spikula Nick Ann h	R. L. Polk & Co.
	Franco Magdelino Alta cementwkr r	R. L. Polk & Co.
1933	SPIKULA NICHOLAS (ANNIE) RESTR	R. L. Polk & Co.

FINDINGS

830 PINE ST

Year	Uses	Source
2006	WILLIAMS Sammen	Haines Company, Inc.
2002	LEE Patricia	Haines
	LEE Patricia	R. L. Polk & Co.
1986	SULLIVAN PAT	Pacific Bell
1979	WOODS CHAS L	Pacific Telephone
1967	SPEARS NICOLAS	R. L. Polk & Co.
1962	Gomez Frank r	Pacific Telephone
	Spikula Nick Jr r	Pacific Telephone
1950	SPIKULA NICK JR R	The Pacific Telephone & Telegraph Co.
1943	Spikula Nick jr Mary driver h	R. L. Polk & Co.
1933	PRICUT GEO LAB R	R. L. Polk & Co.
	PALANTA MATILDA (WID JOHN) H	R. L. Polk & Co.

834 PINE ST

Year	Uses	Source
1967	WILLIAMS SAMMIE	R. L. Polk & Co.
1962	Williams Sammie	Pacific Telephone
1945	DEVEREAUX HORACE R	The Pacific Telephone & Telegraph Co.
1943	Saavedra Engelina r	R. L. Polk & Co.
	Saavedra Dolores cnrywkr r	R. L. Polk & Co.
	Saavedra Manuel Eulalia h	R. L. Polk & Co.
	Saavedra Manuel jr lab r	R. L. Polk & Co.
	Saavedra Rita clk r	R. L. Polk & Co.

835 PINE ST

Year	Uses	Source
1986	MILLER J IVAN & BRONWYN	Pacific Bell
1979	MILLER J IVAN & BRONWYN	Pacific Telephone
1965	ROCKWELL E J	Pacific Telephone

836 PINE ST

Year	Uses	Source
2002	TAYLOR Norman	Haines
	TAYLOR Norman	R. L. Polk & Co.
2000	SPIKULA JOHN	Pacific Bell
1996	SPIKULA JOHN	PACIFIC BELL DIRECTORY
1992	SPIKULA JOHN	PACIFIC BELL DIRECTORY

Year	*Uses*	*Source*
1986	TAYLOR NORMAN J JR	Pacific Bell
1979	TAYLOR NORMAN J JR	Pacific Telephone
1965	HUFFMAN R E	Pacific Telephone
	HUFFMAN BETTY A	Pacific Telephone

837 PINE ST

Year	*Uses*	*Source*
1933	LEIMA MANUEL F LAB R	R. L. Polk & Co.
	LIMA ALFD LAB R	R. L. Polk & Co.
	LIMA LOUIS FIREMN R	R. L. Polk & Co.
	LIMA MANUEL F (ISABELLE) MLDR H	R. L. Polk & Co.
	LEMAR JOS LAB R	R. L. Polk & Co.
	LIMA JOS LAB R	R. L. Polk & Co.
	LIMA HENRY IRONWKR R	R. L. Polk & Co.

838 PINE ST

Year	*Uses*	*Source*
1933	WARNER LEE C ELECTN H	R. L. Polk & Co.

841 PINE ST

Year	*Uses*	*Source*
2006	HATCHER Jas S	Haines Company, Inc.

842 PINE ST

Year	*Uses*	*Source*
2002	COLLOMBrent	R. L. Polk & Co.
	COLLOMBrent	Haines
1979	VAN HOOK J H	Pacific Telephone
1967	GILBFRT EMORY	R. L. Polk & Co.
1965	GRAY CARSON	Pacific Telephone
1943	Cherry Knorvel Lucy lab h	R. L. Polk & Co.

844 PINE ST

Year	*Uses*	*Source*
2006	a BRODERSON Robert	Haines Company, Inc.
1975	LANDRY OZELL	Pacific Telephone
1967	LANDPY OZELL MRS	R. L. Polk & Co.
1962	Landry Ozell r	Pacific Telephone
1950	LANDRY OZELL R	The Pacific Telephone & Telegraph Co.

Year	Uses	Source
1943	GRAYSON Clarence Willie M lab h	R. L. Polk & Co.

846 PINE ST

Year	Uses	Source
1943	Hills Mary Mrs h	R. L. Polk & Co.
1933	BIKICH STEPH LAB H	R. L. Polk & Co.
	BARICH SPIRO LAB R	R. L. Polk & Co.

848 PINE ST

Year	Uses	Source
2002	DULISSEJane	Haines
	DULISSENck	R. L. Polk & Co.
	DULISSEM	R. L. Polk & Co.
	DULISSEJane	R. L. Polk & Co.
	DULISSEM	Haines
	DULISSENck	Haines
1979	ZILLER BERNARD L	Pacific Telephone
1965	HOLCOMB EARL W	Pacific Telephone
1950	OWENS MARY R	The Pacific Telephone & Telegraph Co.
1943	Garcia Dolores Mrs h	R. L. Polk & Co.
1933	FERNANDEZ JOS SIGN PNTR H	R. L. Polk & Co.

850 PINE ST

Year	Uses	Source
2006	o BRAYGe i	Haines Company, Inc.
	RAMSEYJanice	Haines Company, Inc.
1967	ANDERSON ELEANOR MRS	R. L. Polk & Co.
1950	HOWARD IRELENE J R	The Pacific Telephone & Telegraph Co.

852 PINE ST

Year	Uses	Source
2000	JOHNSON BETTY J	Pacific Bell
1996	JONES GENNER	PACIFIC BELL DIRECTORY
1992	JONES GENNER	PACIFIC BELL DIRECTORY
1975	JONES GEUNNR	Pacific Telephone
1967	JONES GENNER	R. L. Polk & Co.
1950	MASTRANGELO JOE R	The Pacific Telephone & Telegraph Co.

Year	Uses	Source
1945	MASTRANGELO JOE R	The Pacific Telephone & Telegraph Co.
1943	Bianchini Angie Mrs fctywkr r	R. L. Polk & Co.
	Bianchini Jerry r	R. L. Polk & Co.
	Mastrangelo Rose Mrs h	R. L. Polk & Co.
1933	MASTRENGELO ANGELO (ROSE) BRKLYR H	R. L. Polk & Co.

854 PINE ST

Year	Uses	Source
2002	WIDMAYEROa Cd	R. L. Polk & Co.
	WIDMAYEROa Cd	Haines
1979	GRAHAM JOHN W	Pacific Telephone
1967	RHODES JESSIE	R. L. Polk & Co.
1962	Therman Romona	Pacific Telephone
	Therman Roscoe	Pacific Telephone
1950	MIADINICH JOHN R	The Pacific Telephone & Telegraph Co.
1945	MLADINICH JOHN R	The Pacific Telephone & Telegraph Co.
1943	Miadinich Mate Dina h	R. L. Polk & Co.
	Miadinich Ruby pkr r	R. L. Polk & Co.
1933	MLADINICH MICHL (DIANA) LAB H	R. L. Polk & Co.
	MLADINICH JOHN MACH R	R. L. Polk & Co.

858 PINE ST

Map ID: 2

Year	Uses	Source
1967	SMITH THREATHER MRS	R. L. Polk & Co.
	SMITH THREATHER MRS	R. L. Polk & Co.
1955	HENDERSON HENRY R	The Pacific Telephone & Telegraph Co.
1950	HENDERSON HENRY R	The Pacific Telephone & Telegraph Co.
	JOIINSON ESTHER R	The Pacific Telephone & Telegraph Co.
	HENDERSON HENRY R	The Pacific Telephone & Telegraph Co.
	JOIINSON ESTHER R	The Pacific Telephone & Telegraph Co.
1945	HENDERSON HENRY R	The Pacific Telephone & Telegraph Co.
	HENDERSON HENRY R	The Pacific Telephone & Telegraph Co.

FINDINGS

Year	***Uses***	***Source***
1943	Catalan Desimerio lab SPCo h	R. L. Polk & Co.
	Catalan Desimerio lab SPCo h	R. L. Polk & Co.
1933	CATLAN DESIDERIO H	R. L. Polk & Co.
	CATALAN MADEINE LNDYWKR R	R. L. Polk & Co.
	CATALAN MADEINE LNDYWKR R	R. L. Polk & Co.
	CATLAN DESIDERIO H	R. L. Polk & Co.
1928	Catalau Desiderio lab H	R.L. Polk and Co of California
1920	CHAMPREUX A A R	R. L. Polk & Co. of California
	CHAMPREUX A A R	R. L. Polk & Co. of California

859 PINE ST

Year	***Uses***	***Source***
2002	XXXX	R. L. Polk & Co.
	XXXX	Haines

860 PINE ST

Year	***Uses***	***Source***
2002	BETTENCOURTEdw O	Haines
	BETTENCOURTEdw O	R. L. Polk & Co.
1986	BETTENCOURT EDW D	Pacific Bell
1979	BETTENCOURT EDW D	Pacific Telephone
1965	BETTENCOURT EDW D	Pacific Telephone

862 PINE ST

Year	***Uses***	***Source***
1967	JONES EUG V	R. L. Polk & Co.
1962	Jones Vernon	Pacific Telephone
	Jones Cortez	Pacific Telephone
	Jones Eugene V	Pacific Telephone
1943	Benitez Raymond Marina lab h	R. L. Polk & Co.
	Malone Lee R Lowell electn hlpr SPCo r	R. L. Polk & Co.
1933	CELADO DELFINO (PAULINE) GDNR H	R. L. Polk & Co.

863 PINE ST

Year	***Uses***	***Source***
1933	LANIER EFFIE MRS H	R. L. Polk & Co.

865 PINE ST

Year	***Uses***	***Source***
1933	SCOTT WM A (BOBBIE) H	R. L. Polk & Co.

FINDINGS

866 PINE ST

Year	Uses	Source
2006	&WHITTINGHILLJohn	Haines Company, Inc.
	VIGIL Daniel	Haines Company, Inc.
2002	PHAN Joseph	R. L. Polk & Co.
	PHAN Joseph	Haines
1992	2 NELSON JOSEPH	PACIFIC BELL DIRECTORY
1979	BULL JASON A	Pacific Telephone
1967	PEGG VELM	R. L. Polk & Co.
1962	Pegg Velma r	Pacific Telephone
1950	PEGS VELMA R	The Pacific Telephone & Telegraph Co.
1945	LITTLE WONDER BEAUTY SALON	The Pacific Telephone & Telegraph Co.
1943	Dimery Sidney r	R. L. Polk & Co.
	Hodges Fayette Mrs beauty shop	R. L. Polk & Co.
1938	HODGES A W MRS R	Pacific Telephone
1933	HOGUES FAYETTE MRS H	R. L. Polk & Co.

870 PINE ST

Year	Uses	Source
2006	a BROWN Sonya	Haines Company, Inc.
1967	NEELY SAMMIE	R. L. Polk & Co.
1950	MARTIN ALICE R	The Pacific Telephone & Telegraph Co.
1945	MARTIN R L R	The Pacific Telephone & Telegraph Co.
1943	DAVIS Robt whsmn r	R. L. Polk & Co.
	MARTIN Robt L Alice shipydwkr h	R. L. Polk & Co.
	Norman Vernon Flossie M clo clnr r	R. L. Polk & Co.
	SMITH Oscar shipydwkr r	R. L. Polk & Co.
	WHITE Robt T carp r	R. L. Polk & Co.
1933	NANNINI MANUEL D CLK R	R. L. Polk & Co.
	NANNINI GINO (LENA) LAB H	R. L. Polk & Co.
1920	JENSEN JACOB R	R. L. Polk & Co. of California

872 PINE ST

Year	Uses	Source
2002	MOATSPrice	Haines
	MOATSPrice	R. L. Polk & Co.
1965	ALEXANDER JAS C	Pacific Telephone

FINDINGS

874 PINE ST

Year	Uses	Source
2006	al LEDBETTER Carolyn	Haines Company, Inc.
1967	WHITE R L S	R. L. Polk & Co.
1943	Roberts David firemn r	R. L. Polk & Co.
	Dearing Kate wid Jos h	R. L. Polk & Co.

875 PINE ST

Year	Uses	Source
1975	CHEMSOURCE CORP	Pacific Telephone

878 PINE ST

Year	Uses	Source
2002	OANJOUEEAnousheh	R. L. Polk & Co.
	SIROTA Jef	Haines
	OANJOUEEAnousheh	Haines
	CURTt SJohn	Haines
	SIROTA Jef	R. L. Polk & Co.
	CURTt SJohn	R. L. Polk & Co.
1979	GREENLEE RALPH W	Pacific Telephone
1967	BELL MONROE C	R. L. Polk & Co.
1965	GAINOUS JACUMBAK T	Pacific Telephone
1962	Coleman Lindsey	Pacific Telephone
	Coleman Martha	Pacific Telephone
1950	LEWIS LILLIAN R	The Pacific Telephone & Telegraph Co.
	LEE EDW R	The Pacific Telephone & Telegraph Co.
1943	Martellacci Victor Rose clk SPCo h	R. L. Polk & Co.
1933	MARTELLACCI VITTORIO (ROSE) MSNGR H	R. L. Polk & Co.

880 PINE ST

Year	Uses	Source
1967	MARTINEZ ROST	R. L. Polk & Co.

882 PINE ST

Year	Uses	Source
2006	CENICEROS Dolores	Haines Company, Inc.
	MARTINEZ Stella	Haines Company, Inc.
1975	MARTINEZ MAX J	Pacific Telephone
1967	MARTINEZ MAX J	R. L. Polk & Co.

Year	Uses	Source
1962	Martinez Nemy	Pacific Telephone
	Martinez Max J	Pacific Telephone
1950	BOURGES JOS R	The Pacific Telephone & Telegraph Co.
1945	ROSA JOSEPHINE R	The Pacific Telephone & Telegraph Co.
1943	Borges Jos barber r	R. L. Polk & Co.
	Borgers Jas Mary barber h	R. L. Polk & Co.
1933	BORGES JOS (MARY E) BARBER	R. L. Polk & Co.

883 PINE ST

Year	Uses	Source
1933	KAYO WM (VICTORIA) YDMN SPCO H	R. L. Polk & Co.

884 PINE ST

Year	Uses	Source
1979	CATAPIA SACARIAS	Pacific Telephone
1965	PUTT PHYLLIS D	Pacific Telephone
	PUTT ROBT D	Pacific Telephone

886 PINE ST

Year	Uses	Source
2006	MARTINEZJavler	Haines Company, Inc.
1992	B REYNOLDS CHARLIE J RED	PACIFIC BELL DIRECTORY
1975	MARTIN GERTRUDE	Pacific Telephone
1967	MARTIN GERTRUDE	R. L. Polk & Co.
1943	MARTIN Gertrude h	R. L. Polk & Co.
	MARTIN Peter mach r	R. L. Polk & Co.
	MARTIN Jos C shipydwkr r	R. L. Polk & Co.
1933	MARTIN PETER M MACH R	R. L. Polk & Co.
	MARTIN JOS C FIREMN H	R. L. Polk & Co.
	MARTIN GERTRUDE R FCTYWKR R	R. L. Polk & Co.

903 PINE ST

Year	Uses	Source
2006	PUKATCH RPchnrd	Haines Company, Inc.
	JACKSON M	Haines Company, Inc.
1975	EDFWARDS HARFI	Pacific Telephone
1967	EDWARDS HARVIE	R. L. Polk & Co.
1962	Edwards Harvie	Pacific Telephone

Year	Uses	Source
1950	CRAIG EDNA F R	The Pacific Telephone & Telegraph Co.
1945	CUADRO E MISS R	The Pacific Telephone & Telegraph Co.
1943	Craig Clare R Edna clk h	R. L. Polk & Co.
1938	CUADRO E MISS R	Pacific Telephone
1933	CUADRO FELIX (MARGT) CHAUF H	R. L. Polk & Co.
1920	MUHOBERAC JOHN M R	R. L. Polk & Co. of California

905 PINE ST

Year	Uses	Source
1962	Wright Mary	Pacific Telephone
1945	SILVA LUCILLE L MRS R	The Pacific Telephone & Telegraph Co.
1943	SILVA Lawrence E Lucille barber h	R. L. Polk & Co.

907 PINE ST

Year	Uses	Source
2006	PUKATCH Richand	Haines Company, Inc.
	PACAS Jose A	Haines Company, Inc.
1975	KELLUM ANGELINE	Pacific Telephone
1967	SILVA J D MRS	R. L. Polk & Co.
1962	Silva Jennie D Mrs	Pacific Telephone
1943	Silva Frank D Jennie D barber h	R. L. Polk & Co.
1933	VARGAS FRANK D (MARIE) 2D HD CLO	R. L. Polk & Co.
	SILVA LAWRENCE E BARBER R	R. L. Polk & Co.
	SILVA FRANK D (JENNIE) BARBER	R. L. Polk & Co.

911 PINE ST

Year	Uses	Source
2006	GABRIELAnn	Haines Company, Inc.
1967	GABRIEL ANN MRS	R. L. Polk & Co.
1962	Battle Ernest R	Pacific Telephone
1950	HUNTER MARGIE R	The Pacific Telephone & Telegraph Co.
	EVANS ANN R	The Pacific Telephone & Telegraph Co.
1945	ROBINSON ROOSEVELT R	The Pacific Telephone & Telegraph Co.
1943	Bertovich Vincent lab r	R. L. Polk & Co.
	Bertovich Lucy r	R. L. Polk & Co.
	Bertovich John Madeline lab h	R. L. Polk & Co.

Year	***Uses***	***Source***
1943	Bertovich Jennie r	R. L. Polk & Co.
1938	BUTOROVICH JOHN R	Pacific Telephone
1933	BUTOROVICH JOHN (MADELINE) STEVEDORE H	R. L. Polk & Co.

917 PINE ST

Year	***Uses***	***Source***
2006	SMITH Jam Ie	Haines Company, Inc.
	TRIGGS Donna	Haines Company, Inc.
1967	CORNELIUS WILMER U	R. L. Polk & Co.
1950	PRINGLE RUTH R	The Pacific Telephone & Telegraph Co.
1943	Estrada Jas Anita paper baler h	R. L. Polk & Co.
1938	COOPER ODESSA R	Pacific Telephone
1933	DEL CESSANDORO CHERUBINO LAB H	R. L. Polk & Co.

921 PINE ST

Year	***Uses***	***Source***
2006	O JACK Marcel	Haines Company, Inc.
1967	SILVA JOE	R. L. Polk & Co.
1962	Silva Gerald	Pacific Telephone
1943	SILVA Joe Angie lab h	R. L. Polk & Co.
1933	SILVA JOS (ANGELINA) LAB H	R. L. Polk & Co.
	MENDONCA JOS LAB R	R. L. Polk & Co.

924 PINE ST

Year	***Uses***	***Source***
2006	a MOSLEY Maya	Haines Company, Inc.
1967	MENDOZA AL	R. L. Polk & Co.
1962	Mendoza Alfred r	Pacific Telephone
1950	MENDOZA ALFRED R	The Pacific Telephone & Telegraph Co.
1943	Mendoza Alf M Gladys V cementwkr h	R. L. Polk & Co.
1933	MENDOZA ALFD M (GLADYS V) LAB H	R. L. Polk & Co.
	O CONNELL JERRY R	R. L. Polk & Co.

927 PINE ST

Year	***Uses***	***Source***
2006	AMEEN Kall	Haines Company, Inc.
1967	NIBLETT LEDORA MRS	R. L. Polk & Co.
1962	Lopez Joe	Pacific Telephone

Year	Uses	Source
1962	Jimenez Josephine	Pacific Telephone
1943	Boatwright Jas Lillie h	R. L. Polk & Co.
	COOPER Saml r	R. L. Polk & Co.
1933	SMITH LUCILLE MRS H	R. L. Polk & Co.

929 PINE ST

Year	Uses	Source
2006	o CROSS Alff	Haines Company, Inc.
1967	CASTLEMAN W ARTH	R. L. Polk & Co.
1962	Castleman W A	Pacific Telephone
1950	CASTLEMAN WM A R	The Pacific Telephone & Telegraph Co.
1943	SMITH Benj bldr r	R. L. Polk & Co.
	HAYES Thos shipydwkr r	R. L. Polk & Co.
	CONLON Francis shipydwkr r	R. L. Polk & Co.
	Reed Herbt H Mary brkmn SPCo h	R. L. Polk & Co.
1933	CONLON FRANK (CATH) LAB H	R. L. Polk & Co.

930 PINE ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	RADOMSKY SALVAGE CO	Pacific Bell
1996	RADOMSKY SALVAGE CO	PACIFIC BELL DIRECTORY
1992	RADOMSKY SALVAGE CO	PACIFIC BELL DIRECTORY
1967	RADOMSKY SALVAGE SCRAP MTLS	R. L. Polk & Co.

933 PINE ST

Year	Uses	Source
1967	VACANT	R. L. Polk & Co.
1950	OSIHITS CLAUDINE R	The Pacific Telephone & Telegraph Co.
1945	OSIBIN CLAUDINE R	The Pacific Telephone & Telegraph Co.
1943	Osibin Wilmer USA r	R. L. Polk & Co.
	Osibin Walter mach h	R. L. Polk & Co.
	Osibin Robt r	R. L. Polk & Co.
	Osibin Percy lab r	R. L. Polk & Co.
	Osibin Claudine wid Walter r	R. L. Polk & Co.
1938	OSIBIN CLAUDINE R	Pacific Telephone

FINDINGS

937 PINE ST

Year	Uses	Source
1967	HOFFMAN JOHN L	R. L. Polk & Co.
	HOFFMAN JOHN L	R. L. Polk & Co.
1962	Lucich Steve r	Pacific Telephone
	Lucich Steve r	Pacific Telephone
1955	LUCICH STEVE R	The Pacific Telephone & Telegraph Co.
1945	LUCICH HELEN R	The Pacific Telephone & Telegraph Co.
	LUCICH HELEN R	The Pacific Telephone & Telegraph Co.
1943	Lucich Steph Bona lab h	R. L. Polk & Co.
	Lucich Helen manicurist r	R. L. Polk & Co.
	Lucich Helen manicurist r	R. L. Polk & Co.
	Lucich Steph Bona lab h	R. L. Polk & Co.
1938	LUCICH HELEN R	Pacific Telephone
	LUCICH HELEN R	Pacific Telephone
1928	Lucich Anthony R	R.L. Polk and Co of California
	Lucich Lena R	R.L. Polk and Co of California
	Lucich Steve formn PG&ECo H	R.L. Polk and Co of California
	Lucich Vivian R	R.L. Polk and Co of California

941 PINE ST

Map ID: 35

Year	Uses	Source
2000	HATCHER JAS S	Pacific Bell
1996	HATCHER JAS S	PACIFIC BELL DIRECTORY
1992	HATCHER JAS S	PACIFIC BELL DIRECTORY
1991	Hatcher Jas S	PACIFIC BELL WHITE PAGES
	Hatcher Jeff	PACIFIC BELL WHITE PAGES
	Hatcher L	PACIFIC BELL WHITE PAGES
1986	Hatcher Jas S	PACIFIC BELL WHITE PAGES
1980	Hatcher Ester	Pacific Telephone
	Edwards Richard G	Pacific Telephone
1975	HATCHER ESTER	Pacific Telephone
1970	HATCHER ESTER	Pacific Telephone Directory
1967	HATCHER ESTHER M MRS 9 451 R	R. L. Polk & Co.
1962	Bairfield Roy Lee	Pacific Telephone
	O K Cleaners	Pacific Telephone
1955	O K CLEANERS	The Pacific Telephone & Telegraph Co.

FINDINGS

Year	Uses	Source
1945	ONEAL OBRAY R	The Pacific Telephone & Telegraph Co.
1943	JOHNSON Le Roy lab r	R. L. Polk & Co.
	Desvigens Walter lab r	R. L. Polk & Co.
	Eubanks Jack lab r	R. L. Polk & Co.
	Nichols Lawrence B Grace rigger h	R. L. Polk & Co.
	Burney Kathleen maid r	R. L. Polk & Co.
	Eubanks Thos lab r	R. L. Polk & Co.
	READER Bobbie clk r	R. L. Polk & Co.
1933	DIAZ MICHL (LORETTA) PNTR SPCO H	R. L. Polk & Co.
	TORRES LOUIS (SARAH) LAB H	R. L. Polk & Co.
1920	WILLIAMS MRS ALMA R	R. L. Polk & Co. of California

942 PINE ST

Year	Uses	Source
1967	JACKSON HALLARD	R. L. Polk & Co.
1962	Jackson Hallard	Pacific Telephone
1950	BOWIE WM M R	The Pacific Telephone & Telegraph Co.
1943	Reno Jack Angelina bldr h	R. L. Polk & Co.
	Del Sarto Maurizio lab r	R. L. Polk & Co.
1933	JONES JAS LAB R	R. L. Polk & Co.
	JONES FRANCES MRS H	R. L. Polk & Co.
1920	DALY MRS FRANCES R	R. L. Polk & Co. of California

S 8TH ST

1768 S 8TH ST

Year	Uses	Source
1928	SILVA Augustino barbe R	R.L. Polk and Co of California
	H	R.L. Polk and Co of California

SHOREY ST

1800 SHOREY ST

Year	Uses	Source
1986	Light Rip	PACIFIC BELL WHITE PAGES
	Light Rail Plastic Manufacturing Co	PACIFIC BELL WHITE PAGES
	Light Ronald M	PACIFIC BELL WHITE PAGES

FINDINGS

1807 SHOREY ST

Year	Uses	Source
1967	EDOS AUTOMOTIVE GARAGE	R. L. Polk & Co.

1811 SHOREY ST

Year	Uses	Source
1933	BROWN VAUGHN G R	R. L. Polk & Co.
	AUBERT ALEX S PDLR H	R. L. Polk & Co.
1925	HALL M R	R. L. Polk & Co. of California

1813 SHOREY ST

Year	Uses	Source
1980	Allen Jessie	Pacific Telephone
1975	ALLEN JESSIE	Pacific Telephone
1970	ALLEN JESSIE	Pacific Telephone Directory
1967	ALLEN JESSE J	R. L. Polk & Co.
1962	Allen Jessie r	Pacific Telephone
1955	ALLEN JESSIE R	The Pacific Telephone & Telegraph Co.
1950	ALLEN JESSIE R	The Pacific Telephone & Telegraph Co.
1945	ARMSTRONG B L R	The Pacific Telephone & Telegraph Co.
1943	Armstrong Burton L h	R. L. Polk & Co.
1938	VOJVADA NICK R	Pacific Telephone
1933	VOJVODA KATE (WID ANTONE) H	R. L. Polk & Co.
	ARMSTRONG BURTON L (KATH) ENGMN SPCO H	R. L. Polk & Co.
	VOJVODA NICHOLAS A CLK R	R. L. Polk & Co.
1928	H	R.L. Polk and Co of California
	Vojvoda Antonio Kath rest R	R.L. Polk and Co of California

1815 SHOREY ST

Year	Uses	Source
1986	Barber Joe	PACIFIC BELL WHITE PAGES
1967	BARBER JOSEPH S	R. L. Polk & Co.
1962	Barber Carrie	Pacific Telephone
	Barber Joe	Pacific Telephone
1950	MOORE MERRELL R	The Pacific Telephone & Telegraph Co.
1943	ELLIS John E lab h	R. L. Polk & Co.
1925	BATIES SOLMON R	R. L. Polk & Co. of California

FINDINGS

1817 SHOREY ST

Year	Uses	Source
1992	THOMAS L M	PACIFIC BELL DIRECTORY
1991	Thomas L R	PACIFIC BELL WHITE PAGES
	Thomas LM	PACIFIC BELL WHITE PAGES
1986	Thomas L Mr & Mrs	PACIFIC BELL WHITE PAGES
	Thomas L M	PACIFIC BELL WHITE PAGES
1980	Thomas L M	Pacific Telephone
1970	THOMAS L M	Pacific Telephone Directory
1967	MARBLES DORIS L MRS	R. L. Polk & Co.
1962	Hayes Sylvia M	Pacific Telephone
1955	MAY LILLIE B R	The Pacific Telephone & Telegraph Co.
1950	MAY LILLIE B R	The Pacific Telephone & Telegraph Co.
1943	Ursich Frank Jennie shipydwkr h	R. L. Polk & Co.
	Shanks Rudolph USA r	R. L. Polk & Co.
1933	ZIMBAL ERNEST H	R. L. Polk & Co.

1818 SHOREY ST

Year	Uses	Source
1992	STOLTZ METALS	PACIFIC BELL DIRECTORY
	BONDI MICHAEL METAL DESIGN	PACIFIC BELL DIRECTORY
1991	Stoltz Metals	PACIFIC BELL WHITE PAGES
	Bondi Michael Metal Design	PACIFIC BELL WHITE PAGES
1986	Stoltz Metals	PACIFIC BELL WHITE PAGES
	BON DI ME TALS	PACIFIC BELL WHITE PAGES

1823 SHOREY ST

Year	Uses	Source
1991	LB & A Auto Wrecking Yard	PACIFIC BELL WHITE PAGES
	B&A S AFE TY & HE ALTH CON S ULTAN TS	PACIFIC BELL WHITE PAGES
1986	B & A Auto Wrecking Yard	PACIFIC BELL WHITE PAGES
1980	B & A Auto Wrecking Yard	Pacific Telephone
1975	B & A AUTO WRECKING YARD	Pacific Telephone
1943	Ross Peter lab h	R. L. Polk & Co.
1933	ROSS PETER LAB H	R. L. Polk & Co.

FINDINGS

1824 SHOREY ST

Year	Uses	Source
1933	MILLENAN WM H SOAP MFR	R. L. Polk & Co.
1925	MILLEMAN W H R	R. L. Polk & Co. of California

1825 SHOREY ST

Year	Uses	Source
1992	PETRIN JOSH	PACIFIC BELL DIRECTORY
1967	SWANSON ANTHONY L	R. L. Polk & Co.
1943	Swanson Anthony shipydwkr r	R. L. Polk & Co.
	Swanson Chas constwkr r	R. L. Polk & Co.
	Swanson Martha wid C S h	R. L. Polk & Co.
	Swanson Ida O r	R. L. Polk & Co.
1933	SWANSON CARL O (MARTHA) SEAMN H	R. L. Polk & Co.

W 9TH ST

1832 W 9TH ST

Year	Uses	Source
1945	SPEARS WELLS MACHINERY CO INC	The Pacific Telephone & Telegraph Co.
	MICHIGAN POWER SHOVEL CO	The Pacific Telephone & Telegraph Co.
1938	OSGOOD CO GAS SHOVELS	Pacific Telephone
	SPEARS WELLS MCHY CO	Pacific Telephone
	GENERAL EXCAVATOR CO	Pacific Telephone
	MICHIGAN POWER SHOVEL CO	Pacific Telephone
1933	SPEARS WELLS MACHINERY CO INC W H B FOWLER PRES WARD WELLS V-PRES I M WELLS	R. L. Polk & Co.

WOOD

813 WOOD

Year	Uses	Source
1980	Jones Phellix	Pacific Telephone

817 WOOD

Year	Uses	Source
1986	Brown Elaine	PACIFIC BELL WHITE PAGES
1980	Brown Elaine	Pacific Telephone

FINDINGS

820 WOOD

Year	Uses	Source
1986	Matteo M	PACIFIC BELL WHITE PAGES
	Matteo L E	PACIFIC BELL WHITE PAGES
	Matteck Belle	PACIFIC BELL WHITE PAGES
	Matte Paul Otto	PACIFIC BELL WHITE PAGES
1980	Matte Paul Otto	Pacific Telephone

823 WOOD

Year	Uses	Source
1991	Brown Zippy	PACIFIC BELL WHITE PAGES
	Brown Zellena	PACIFIC BELL WHITE PAGES
	Brown John Zellena	PACIFIC BELL WHITE PAGES
1986	Brown Zippy	PACIFIC BELL WHITE PAGES
	Brown Zelena	PACIFIC BELL WHITE PAGES
	Brown Johnnie	PACIFIC BELL WHITE PAGES
	Brown John Zellena	PACIFIC BELL WHITE PAGES
1980	Brown John Zellena	Pacific Telephone
	Godfrey Bobby	Pacific Telephone

828 WOOD

Year	Uses	Source
1980	Jackson Hester	Pacific Telephone

829 WOOD

Year	Uses	Source
1986	Watson Rufus Jr	PACIFIC BELL WHITE PAGES
1980	Watson Rufus Jr	Pacific Telephone

831 WOOD

Year	Uses	Source
1991	Lewis Booker T Rev	PACIFIC BELL WHITE PAGES
1986	Lewis Booker T Rev	PACIFIC BELL WHITE PAGES
1980	Lewis Booker T Rev	Pacific Telephone

832 WOOD

Year	Uses	Source
1980	Bryant Jimmie	Pacific Telephone

FINDINGS

839 WOOD

Year	Uses	Source
1986	Navarro Armando	PACIFIC BELL WHITE PAGES
1980	Navarro Armando	Pacific Telephone

855 WOOD

Year	Uses	Source
1991	I Hill Hayward R	PACIFIC BELL WHITE PAGES
	Hill Versa	PACIFIC BELL WHITE PAGES
	Hill Vickie	PACIFIC BELL WHITE PAGES
1986	Hill Hayward R	PACIFIC BELL WHITE PAGES
	Hill Versa	PACIFIC BELL WHITE PAGES
1980	Hill Hayward R	Pacific Telephone
	Hill Versa	Pacific Telephone

859 WOOD

Year	Uses	Source
1986	Brown V H	PACIFIC BELL WHITE PAGES
1980	Huckaby Chas	Pacific Telephone

868 WOOD

Year	Uses	Source
1980	Saechao Chiem Yoon	Pacific Telephone

872 WOOD

Year	Uses	Source
1980	Light House Church Of God In Christ	Pacific Telephone

873 WOOD

Year	Uses	Source
1980	Jackson Lucille	Pacific Telephone

875 WOOD

Year	Uses	Source
1980	Harris Leora	Pacific Telephone

WOOD CT

855 WOOD CT

Year	Uses	Source
1975	HILL GA A	Pacific Telephone

872 WOOD CT

Year	Uses	Source
1975	LASENBY MACK REV GALILEE CHURCH OF GOD IN CHRIST	Pacific Telephone

WOOD ST

808 WOOD ST

Year	Uses	Source
1967	VACANT	R. L. Polk & Co.

809 WOOD ST

Year	Uses	Source
2006	RAMOS Ignaclo L	Haines Company, Inc.
	PEREZMardsela V	Haines Company, Inc.
	PEREZJuan	Haines Company, Inc.
	a DEASSIS Eduardo	Haines Company, Inc.
1975	JEFFERSON WRENCO	Pacific Telephone
1970	HOPKINS RUSSELL	Pacific Telephone Directory
	JONES J	Pacific Telephone Directory
1967	VACANT	R. L. Polk & Co.
1955	HEATH L T MRS	The Pacific Telephone & Telegraph Co.
1950	CLARK L T R	The Pacific Telephone & Telegraph Co.
1943	Landon Theo J Adeline towermn Key System h	R. L. Polk & Co.
1938	LANDON TEDDIE R	Pacific Telephone
1933	SANSONI FRED (FRANCES) COOK H	R. L. Polk & Co.
1925	SIMS SYLVESTER R	R. L. Polk & Co. of California
1920	BROWN MRS W A R	R. L. Polk & Co. of California

813 WOOD ST

Year	Uses	Source
2006	a DEASSIS Renato	Haines Company, Inc.
1975	JONES PHELLIX	Pacific Telephone
1970	JONES PHELLIX	Pacific Telephone Directory
1967	JONES PHELLIX	R. L. Polk & Co.
1962	Jones Phellix	Pacific Telephone
1955	MARTINOVICH J S	The Pacific Telephone & Telegraph Co.
1943	Martinovich John oiler r	R. L. Polk & Co.

Year	Uses	Source
1943	Martinovich John V Margt shipydwkr h	R. L. Polk & Co.
1933	TAKOVICH JOHN LAB R	R. L. Polk & Co.
	MARTINOVICH JOHN (KATIE) OILER H	R. L. Polk & Co.
	MARTINOVICH JOHN AUTO MECH R	R. L. Polk & Co.

817 WOOD ST

Year	Uses	Source
2006	a CALDERON Erdka	Haines Company, Inc.
1975	BROWN ELAINE	Pacific Telephone
1970	BROWN ELAINE	Pacific Telephone Directory
1967	BROWN ELAINE MRS	R. L. Polk & Co.
1962	Brown Elaine	Pacific Telephone
1955	BROWN ELBERT R	The Pacific Telephone & Telegraph Co.
1950	BROWN ELBERT R	The Pacific Telephone & Telegraph Co.
1945	CABRAL ROBT K R	The Pacific Telephone & Telegraph Co.
1943	Cabral Robt K Kath steelwkr r	R. L. Polk & Co.
	Priznich Michl lab h	R. L. Polk & Co.
1933	PRIZMICH JOHN LAB R	R. L. Polk & Co.
	PRIZMICH MICHL LAB H	R. L. Polk & Co.
1925	LONG MRS R W R	R. L. Polk & Co. of California

820 WOOD ST

Year	Uses	Source
2006	a MEYER Jessica	Haines Company, Inc.
2000	PEREZ MARISELA V	Pacific Bell
	RAMOS IGNACIO L	Pacific Bell
1970	HARRIS JAS A MRS	Pacific Telephone Directory
1967	BARKER LOUISE MRS	R. L. Polk & Co.
	HARRIS ETHEL MRS	R. L. Polk & Co.
1962	Harris Jas A Mrs	Pacific Telephone
1955	HARRIS JAS A MRS	The Pacific Telephone & Telegraph Co.
1950	HARRIS JAS A R	The Pacific Telephone & Telegraph Co.
1945	HARRIS JAS A R	The Pacific Telephone & Telegraph Co.
1943	Harris Jas A Ethel mech h	R. L. Polk & Co.
	ROGERS Ernest shipydwkr r	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1943	Spates Ethel cook r	R. L. Polk & Co.
1938	COLMAN BILLIE R	Pacific Telephone
1933	JOHNSON HIRAM WAITER R	R. L. Polk & Co.
	ALLEN MAUDE MRS H	R. L. Polk & Co.
1925	SCHOONMAKER W T R	R. L. Polk & Co. of California

821 WOOD ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.

823 WOOD ST

Year	Uses	Source
2006	a ARMASRafae l	Haines Company, Inc.
1975	BROWN JOHN ZELLENA	Pacific Telephone
1970	MARTIN BESSIE MAE	Pacific Telephone Directory
1967	WALOT AGNES P MRS	R. L. Polk & Co.
1962	Smet Edward James r	Pacific Telephone
1955	SMET EDWARD JAMES R	The Pacific Telephone & Telegraph Co.
1950	SMET EDWARD JAMES R	The Pacific Telephone & Telegraph Co.
1945	SMET EDWARD JAMES R	The Pacific Telephone & Telegraph Co.
1943	Weldt Agnes wid David h	R. L. Polk & Co.
	Smet Edw storekpr NSB r	R. L. Polk & Co.
1933	WELDT AGNES P (WID D W) H	R. L. Polk & Co.
1925	WELDT CAPT D W R	R. L. Polk & Co. of California
1920	WELDT D W R	R. L. Polk & Co. of California

823 1/2 WOOD ST

Year	Uses	Source
1992	BROWN ZELLENA	PACIFIC BELL DIRECTORY

824 WOOD ST

Year	Uses	Source
2006	CARHUAZ Francisco	Haines Company, Inc.
	SALGADO Ana	Haines Company, Inc.
2000	PENNINGTON RANDY	Pacific Bell
1967	WILLIAMS GERTRUDE	R. L. Polk & Co.
1962	Brown Clarance	Pacific Telephone

Year	Uses	Source
1955	BROWN CLARENCE	The Pacific Telephone & Telegraph Co.
1950	JONES THOMAS R	The Pacific Telephone & Telegraph Co.
	SILAR HERMAN R	The Pacific Telephone & Telegraph Co.
1945	JONES THOMAS R	The Pacific Telephone & Telegraph Co.
1943	Anderson Sam clk r	R. L. Polk & Co.
	Pilet Hazel h	R. L. Polk & Co.
1933	BROWN EUG BUSMN R	R. L. Polk & Co.
	BROWN JAS (MAUDE) WAITER H	R. L. Polk & Co.
	CRAWFORD BEULAH MRS R	R. L. Polk & Co.
	SMITH HOWARD (MARTHA) PORTER H	R. L. Polk & Co.
	THORNTON BERTHA MRS H	R. L. Polk & Co.
	WILLIAMS EDW D SHOE SHINER R	R. L. Polk & Co.
1925	THORNTON MRS BERTHA R	R. L. Polk & Co. of California
1920	THORNTON MRS BERTHA R	R. L. Polk & Co. of California

828 WOOD ST

Year	Uses	Source
2006	Deleign	Haines Company, Inc.
	LOWE Noelle	Haines Company, Inc.
	a METCALFETHOMPS	Haines Company, Inc.
1970	JACKSON HESTER	Pacific Telephone Directory
1967	JACKSON HESTER	R. L. Polk & Co.
1945	VOLASGLS ETHEL R R	The Pacific Telephone & Telegraph Co.
1943	Velasco Rafael h	R. L. Polk & Co.
1925	LAWSON B R	R. L. Polk & Co. of California

829 WOOD ST

Year	Uses	Source
1991	Nifty Ideas	PACIFIC BELL WHITE PAGES
1967	VACANT	R. L. Polk & Co.
1950	JONES JOLIII J R	The Pacific Telephone & Telegraph Co.
	WILLIAMS MALZOAR R	The Pacific Telephone & Telegraph Co.
	WOODSIDE APTS	The Pacific Telephone & Telegraph Co.
1945	PATES WM APARTMENTS	The Pacific Telephone & Telegraph Co.

FINDINGS

Year	Uses	Source
1933	BAIRD BRUSH MFG CO R H ROBB PRES	R. L. Polk & Co.
	UNITED METAL PRODUCTS LTD HAROLD EDGAR MGR	R. L. Polk & Co.
1928	Telegraph Brush Manufacturing Co Inc R H Robb pres H H Edgar v pres R W Kimberlin sec	R.L. Polk and Co of California
1920	SEALRIGHT CO OF CAL	R. L. Polk & Co. of California

831 WOOD ST

Year	Uses	Source
1992	LEWIS BOOKER T REV	PACIFIC BELL DIRECTORY
1975	LEWIS BOOKER T REV	Pacific Telephone
1970	LEWIS BOOKER T REV	Pacific Telephone Directory
1967	LEWIS BOOKER T	R. L. Polk & Co.
1962	Atkins Josephine Mrs	Pacific Telephone
	Lewis Booker T Rev	Pacific Telephone
1955	LEWIS S GROCERY	The Pacific Telephone & Telegraph Co.
	LEWIS CLEMARD R	The Pacific Telephone & Telegraph Co.
1950	TUCKER WILLIS C R	The Pacific Telephone & Telegraph Co.
	LEWIS CLEMARD R	The Pacific Telephone & Telegraph Co.
1943	Smith Vern Mabel h	R. L. Polk & Co.

832 WOOD ST

Year	Uses	Source
1955	HICKS NANNIE T	The Pacific Telephone & Telegraph Co.
1950	THORN C A R	The Pacific Telephone & Telegraph Co.
1945	THORN C A R	The Pacific Telephone & Telegraph Co.
1943	Thorne Cyrus A porter r	R. L. Polk & Co.
	HICKS Nannie T Mrs h	R. L. Polk & Co.
1938	THORN C A R	Pacific Telephone
1933	THORN SILAS A PORTER H	R. L. Polk & Co.
	THOMAS NANNY COOK R	R. L. Polk & Co.
	HICKS NETTIE T (WID A W) H	R. L. Polk & Co.

FINDINGS

835 WOOD ST

Year	Uses	Source
2006	DEAN Dornse	Haines Company, Inc.
	GILMOREWendall	Haines Company, Inc.
1970	BAKER HOSEA	Pacific Telephone Directory
1967	BAKER HOSE	R. L. Polk & Co.
1962	Brooks Marie	Pacific Telephone
	Brooks Carl V	Pacific Telephone
1955	STUCKEY ANNIE	The Pacific Telephone & Telegraph Co.
1945	PADRON LOUIS R	The Pacific Telephone & Telegraph Co.
1943	Padron Louis Rebecca paper baler h	R. L. Polk & Co.
	Padrone Josephine slswn r	R. L. Polk & Co.
1933	GALTMAN MANUEL (VERA) LAB H	R. L. Polk & Co.
1925	UPTON R A R	R. L. Polk & Co. of California
1920	UPTON R A R	R. L. Polk & Co. of California

836 WOOD ST

Year	Uses	Source
1938	LEWIS MIKE R	Pacific Telephone

837 WOOD ST

Year	Uses	Source
2000	DEAN CHRISTOPHER JR	Pacific Bell

839 WOOD ST

Year	Uses	Source
2006	PETERSON Galen	Haines Company, Inc.
	a COLOTTI Unda	Haines Company, Inc.
2000	MORALES HECTOR O	Pacific Bell
1975	NAVARRO ARMANDO	Pacific Telephone
1970	NAVARRO ARMANDO	Pacific Telephone Directory
1967	NAVARRO AJOSEPHINE MRS TW	R. L. Polk & Co.
1962	Navarro Gilbert	Pacific Telephone
1955	NAVARRO ROCENDO R	The Pacific Telephone & Telegraph Co.
1950	NAVARRO R R	The Pacific Telephone & Telegraph Co.
1943	Navarro Alf Isabelle ironwkr r	R. L. Polk & Co.
	Navarro Josephine Mrs h	R. L. Polk & Co.
	Navarro Robt ironwkr r	R. L. Polk & Co.

Year	Uses	Source
1943	Navarro Rocendo ironwkr r	R. L. Polk & Co.
1933	NICHOLSON JOHN (ELIA) LAB H	R. L. Polk & Co.
1920	HOFFNER A J R	R. L. Polk & Co. of California

843 WOOD ST

Year	Uses	Source
1943	RIPLEY Louis B Elaine H USAC h	R. L. Polk & Co.

851 WOOD ST

Year	Uses	Source
2006	BLOCH Johathan	Haines Company, Inc.

855 WOOD ST

Year	Uses	Source
2006	GRAYSON Chadoote	Haines Company, Inc.
	HILL Hayward R	Haines Company, Inc.
2000	HILL HAYWARD R	Pacific Bell
1996	HILL HAYWARD R	PACIFIC BELL DIRECTORY
1992	HILL HAYWARD R	PACIFIC BELL DIRECTORY
1975	HILL VERSA	Pacific Telephone
1970	HILL HAYWARD R	Pacific Telephone Directory
	HILL VERSA	Pacific Telephone Directory
1967	HILL HAYWARD R	R. L. Polk & Co.
1962	Washington Versa	Pacific Telephone
1955	BOGAN BEE	The Pacific Telephone & Telegraph Co.
	MCDONALD CARRIE MRS	The Pacific Telephone & Telegraph Co.
	WASHINGTON VERSA	The Pacific Telephone & Telegraph Co.
1950	BEGAN BEE R	The Pacific Telephone & Telegraph Co.
1943	Schaffer Conrad R Jennie A shipydwkr h	R. L. Polk & Co.
1938	SCHAFFER AUGUST C R	Pacific Telephone

856 WOOD ST

Year	Uses	Source
2006	a SHARP Sylvia	Haines Company, Inc.
1967	THOMAS EDDIE L	R. L. Polk & Co.
1962	Lewis Irene	Pacific Telephone
1955	ROLLINS R	The Pacific Telephone & Telegraph Co.

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Year	Uses	Source
1955	BROWN PEARL MRS R	The Pacific Telephone & Telegraph Co.
1950	ROLLINS R R	The Pacific Telephone & Telegraph Co.
	BROWN PEARL MRS R	The Pacific Telephone & Telegraph Co.
1945	MARTIN FRANK R	The Pacific Telephone & Telegraph Co.
1943	MARTIN Marie cnrywkr r	R. L. Polk & Co.
	Martin Frank Claudina lbrmn h	R. L. Polk & Co.
1925	WARD MORGAN L R	R. L. Polk & Co. of California

859 WOOD ST

Year	Uses	Source
2006	a BROWN Victor	Haines Company, Inc.
1970	MURPHY MARY	Pacific Telephone Directory
1967	MURPHY JOHN	R. L. Polk & Co.
1962	Murphy Mary	Pacific Telephone
1955	MURPHY MARY	The Pacific Telephone & Telegraph Co.
1950	MURPHY JOHN R	The Pacific Telephone & Telegraph Co.
1945	MURPHY JOHN R	The Pacific Telephone & Telegraph Co.
1943	Enos Chas M Ruth driver h	R. L. Polk & Co.
1938	WASHINGTON J R	Pacific Telephone
1933	WASHINGTON GEO (JENNIE) LAB H	R. L. Polk & Co.
	SCHLIN HILMA MRS H	R. L. Polk & Co.
	ENOS HENRY C LAB OKLD ST DEPT H	R. L. Polk & Co.

862 WOOD ST

Year	Uses	Source
1933	HUBBARD HORACE B H	R. L. Polk & Co.
	HARRIS HENRY LAB R	R. L. Polk & Co.
	SMITH MAJOR COOK R	R. L. Polk & Co.

863 WOOD ST

Year	Uses	Source
2006	a BROWN Jessie	Haines Company, Inc.
1967	GIBSON RUTH	R. L. Polk & Co.
1955	GIBSON RUTH B R	The Pacific Telephone & Telegraph Co.

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Year	Uses	Source
1950	GIBSON RUTH B R	The Pacific Telephone & Telegraph Co.
	SCOTT LEO R	The Pacific Telephone & Telegraph Co.
1945	BOSCOVICH AGNES R	The Pacific Telephone & Telegraph Co.
1943	Boscovich Anna N Mrs drygds h	R. L. Polk & Co.
	Hexberg Mary E Mrs writer r	R. L. Polk & Co.
1938	BOSCOVICH AGNES R	Pacific Telephone
1933	BOSCOVICH AGNES CLK R	R. L. Polk & Co.
	BOSCOVICH ANNA (WID GEO) DRY GDS	R. L. Polk & Co.
	HOFFNER ALBT R	R. L. Polk & Co.
1928	Taller Andw H	R.L. Polk and Co of California

866 WOOD ST

Year	Uses	Source
2006	WILLIAMS Van 19ta	Haines Company, Inc.
1970	DOBBINS WALTER MRS	Pacific Telephone Directory
1967	BERRY FRANK J	R. L. Polk & Co.
1950	DRAKE IDALIA R	The Pacific Telephone & Telegraph Co.
1943	Weatherly Saml lab h	R. L. Polk & Co.
	ANDERSON Henry h	R. L. Polk & Co.
1933	LUPORINI MICHL (DOROTHY) LAB H	R. L. Polk & Co.

867 WOOD ST

Year	Uses	Source
2006	SNYDER Wiliam	Haines Company, Inc.
1970	BENNETT JOS	Pacific Telephone Directory
1967	BENNETT JOSEPH	R. L. Polk & Co.
1962	Bennett Jos	Pacific Telephone
1955	THROWER HOSIE R	The Pacific Telephone & Telegraph Co.
1950	GUNLOW LEE R	The Pacific Telephone & Telegraph Co.
1943	Concerta John Cerisa lab h	R. L. Polk & Co.
	Concerta Albino r	R. L. Polk & Co.
1933	FELICE JOHN (CONCHETTA) LAB H	R. L. Polk & Co.
1920	BOOTSMA WM A R	R. L. Polk & Co. of California

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868 WOOD ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	NEAL MONIQUE M	Pacific Bell
	LANKFORD KIANNA M	Pacific Bell
1975	BENNETT JOS	Pacific Telephone
1967	MORISE RAYFORD E	R. L. Polk & Co.
1962	Wiggins Charlie	Pacific Telephone
1955	WIGGINS CHARLIE	The Pacific Telephone & Telegraph Co.
1943	Robinson Robt Vunie waiter h	R. L. Polk & Co.
	BAILEY Harrison shipydwkr h	R. L. Polk & Co.
1933	SILVERA JOS R	R. L. Polk & Co.
	BENTON CHAS V (MARIAN) H	R. L. Polk & Co.
1925	MEYER CATHERINE R	R. L. Polk & Co. of California

871 WOOD ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.

872 WOOD ST

Year	Uses	Source
2006	PROCTOR Gary	Haines Company, Inc.
2000	NEAL MONIQUE	Pacific Bell
1996	UNITI PRESCHOOL	PACIFIC BELL DIRECTORY
1975	GATILEE CHURCH OF GOD IN CHRIST	Pacific Telephone
1970	GALILEE CHURCH OF GOD IN CHRIST	Pacific Telephone Directory
	LASENBY MACK REV GALILEE CHURCH OF GOD IN CHRIST	Pacific Telephone Directory
1967	CAESAR AL 8 ERT	R. L. Polk & Co.
1955	DAVIS W D REV	The Pacific Telephone & Telegraph Co.
1945	BOWDEN SARAH MRS R	The Pacific Telephone & Telegraph Co.
1943	Bowden Thos Sarah lab h	R. L. Polk & Co.
	Mc Clain Anna B Mrs r	R. L. Polk & Co.
1933	MONIZE MANUEL (GLORIA) LAB H	R. L. Polk & Co.

873 WOOD ST

Year	Uses	Source
2006	a ELLISON Lanell	Haines Company, Inc.
2000	LOWE S T	Pacific Bell

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Year	Uses	Source
1967	BERRY FRANK	R. L. Polk & Co.
1955	COOPER J W	The Pacific Telephone & Telegraph Co.
1950	GOSS ELIJAH H R	The Pacific Telephone & Telegraph Co.
1945	SCALES ANTIONETTE A MRS R	The Pacific Telephone & Telegraph Co.
1943	Melfi Laterza clk r	R. L. Polk & Co.
	Mastrangelo Rose Mrs r	R. L. Polk & Co.
	Melfi Rose Mrs h	R. L. Polk & Co.
1933	MASTRANGELO PETER R	R. L. Polk & Co.
	LATERZA PIETRO (ROSE) JAN H	R. L. Polk & Co.

875 WOOD ST

Year	Uses	Source
2006	a CHOYCE Gordon	Haines Company, Inc.
1975	HARRIS LEORA	Pacific Telephone
1970	HARRIS LEORA	Pacific Telephone Directory
1967	HARRIS HENRY	R. L. Polk & Co.
1962	Battle Pauline	Pacific Telephone
	Harris Leora	Pacific Telephone
	Battle John	Pacific Telephone
1955	DAVIS ERNEST	The Pacific Telephone & Telegraph Co.
	HARRIS LEORA R	The Pacific Telephone & Telegraph Co.
1950	HARRIS LEORA R	The Pacific Telephone & Telegraph Co.
1943	Lipanovich John Mary mech h	R. L. Polk & Co.
	Lipanovitch Michl J USN r	R. L. Polk & Co.
	Lipanovich Mary T r	R. L. Polk & Co.
1938	LIPANOVICH JOHN R	Pacific Telephone
1933	LIPANOVICH JOHN (MARY TRUCKMN SPCO H	R. L. Polk & Co.
1925	VRANKOVICH A R	R. L. Polk & Co. of California
1920	VRANKOVICH A R	R. L. Polk & Co. of California

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TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
800 Cedar Street	2006, 2002, 2000, 1996, 1993, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
1001 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1920
1001 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1940, 1933, 1932, 1928, 1926, 1925
1003 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1920
1003 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1004 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1004 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1005 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1005 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1932, 1928, 1926, 1925, 1920
1006 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1920
1006 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1938, 1932, 1928, 1926, 1925, 1920
1009 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1009 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
1009 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1932, 1928, 1926, 1925, 1920

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Address Researched	Address Not Identified in Research Source
1738 CHASE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1926, 1925, 1920
1739 CHASE ST	2002, 1993, 1984, 1982, 1979, 1976, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1932, 1926, 1920
1745 CHASE CT	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1745 CHASE ST	2002, 2000, 1996, 1993, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1752 9TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1754 8TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1756 8TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1756 9TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1760 9TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1764 8TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1764 9TH ST	2002, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1765 8TH ST	2002, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1765 CHASE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1926, 1925, 1920
1768 8TH ST	2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1926, 1925, 1920
1768 9TH ST	2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1768 S 8TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
1769 CHASE CT	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1769 CHASE ST	2002, 1993, 1984, 1982, 1979, 1976, 1975, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1769 GOSS ST	2002, 2000, 1996, 1993, 1992, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1940, 1932, 1926, 1920
1770 8TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	**Address Not Identified in Research Source**
1770 E 8TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
1771 1/2 CHASE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1771 CHASE CT	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1771 CHASE ST	2006, 2002, 2000, 1996, 1993, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1926, 1925, 1920
1772 8TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1773 CHASE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1940, 1932, 1928, 1926, 1925, 1920
1774 8TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1775 CHASE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1940, 1938, 1933, 1932, 1926, 1925, 1920
1777 8TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1777 9TH ST	2002, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1778 10th Street	2002, 2000, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1778 8TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1779 CHASE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1926, 1925, 1920
1780 9TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1781 8TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1781 9TH ST	2002, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1782 8TH ST	2002, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1782 9TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1784 8TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

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Address Researched	**Address Not Identified in Research Source**
1784 9TH ST	2002, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1785 9TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1787 9TH ST	2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1788 9TH ST	2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1790 9TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1791 8TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1792 8TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1794 8TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1794 9TH ST	2002, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1796 8TH ST	2002, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1796 9TH ST	2006, 2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1798 9TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1800 SHOREY ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1807 SHOREY ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1811 SHOREY ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1928, 1926, 1920
1813 SHOREY ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1932, 1926, 1925, 1920
1815 SHOREY ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1920
1817 SHOREY ST	2006, 2002, 2000, 1996, 1993, 1984, 1982, 1979, 1976, 1975, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
1818 SHOREY ST	2006, 2002, 2000, 1996, 1993, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1819 9TH ST	2006, 2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
1820 10th Street	2002, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1822 9TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1823 SHOREY ST	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
1824 9TH ST	2006, 2002, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1824 SHOREY ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1928, 1926, 1920
1825 SHOREY ST	2006, 2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
1832 9TH ST	2006, 2002, 2000, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1832 9th Street	2006, 2002, 2000, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1943, 1940, 1932, 1928, 1926, 1925, 1920
1832 W 9TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1943, 1940, 1932, 1928, 1926, 1925, 1920
1846 9TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
2520 10TH	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
2526 10TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1926, 1925, 1920
2622 10TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
2630 10TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
707 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925
708 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
714 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
714 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1928, 1926, 1925, 1920
727 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
727 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
751 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
751 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
751 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1933, 1932, 1928, 1926, 1925, 1920
753 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
755 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
755 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
755 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1938, 1932, 1928, 1926, 1925, 1920
757 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
758 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
759 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
759 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
759 PINE ST	2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1940, 1938, 1932, 1928, 1926, 1925, 1920
761 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
761 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
763 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
763 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
763 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925
765 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

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Address Researched	**Address Not Identified in Research Source**
767 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
767 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
767 PINE ST	1993, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
774 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
775 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
775 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
777 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
779 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1920
779 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
779 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1938, 1932, 1928, 1926, 1925, 1920
780 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
789 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
790 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
793 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
795 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
799 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
800 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
800 PINE ST	2002, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
801 Cedar Street	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

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Address Researched	**Address Not Identified in Research Source**
806 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
806 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
808 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
808 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
808 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
808 WOOD ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
809 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1940, 1932, 1928, 1926
811 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
812 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
812 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
812 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1943, 1940, 1938, 1932, 1928, 1926, 1925, 1920
813 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
813 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
815 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
815 PINE ST	2006, 2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
816 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
816 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1940, 1938, 1932, 1928, 1926, 1925, 1920
817 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
817 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
817 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1938, 1932, 1928, 1926, 1920

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Address Researched	**Address Not Identified in Research Source**
818 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
818 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
818 PINE ST	2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
820 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
820 WOOD ST	2002, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1932, 1928, 1926, 1920
821 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
821 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
821 PINE ST	2006, 2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1940, 1933, 1932, 1928, 1926, 1925
821 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
822 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
822 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
822 PINE CT	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
822 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1943, 1940, 1938, 1932, 1928, 1926, 1925, 1920
823 1/2 WOOD ST	2006, 2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
823 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
823 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1938, 1932, 1928, 1926
824 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
824 WOOD ST	2002, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1938, 1932, 1928, 1926
826 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
826 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
826 PINE ST	2006, 2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
828 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
828 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1940, 1938, 1933, 1932, 1928, 1926, 1920
829 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
829 WOOD ST	2006, 2002, 2000, 1996, 1993, 1992, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1943, 1940, 1938, 1932, 1926, 1925
830 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
830 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
830 PINE ST	2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
831 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
831 WOOD ST	2006, 2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
832 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
832 WOOD ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1932, 1928, 1926, 1925, 1920
834 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
834 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
834 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
835 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
835 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
835 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
835 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1940, 1938, 1932, 1928, 1926

FINDINGS

Address Researched	Address Not Identified in Research Source
836 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
836 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
836 PINE ST	2006, 1993, 1991, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
836 WOOD ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1933, 1932, 1928, 1926, 1925, 1920
837 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
837 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1928, 1926, 1925, 1920
837 WOOD ST	2006, 2002, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
838 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
838 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1928, 1926, 1925, 1920
839 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
839 WOOD ST	2002, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925
840 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
841 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
842 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
842 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
842 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
843 WOOD ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
844 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
844 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920

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Address Researched	Address Not Identified in Research Source
844 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
846 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
846 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
846 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
848 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
848 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
848 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
850 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
850 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
850 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
851 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
851 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
852 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
852 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
852 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
852 PINE ST	2006, 2002, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1938, 1932, 1928, 1926, 1925, 1920
853 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
854 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
854 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

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Address Researched	Address Not Identified in Research Source
854 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
854 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1938, 1932, 1928, 1926, 1925, 1920
855 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
855 WOOD CT	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
855 WOOD ST	2002, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1940, 1933, 1932, 1928, 1926, 1925, 1920
856 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
856 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1938, 1933, 1932, 1928, 1926, 1920
857 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
858 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
858 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
858 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1938, 1932, 1928, 1926, 1925
858 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1938, 1932, 1926, 1925
859 MCELROY ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
859 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
859 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
859 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
859 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1932, 1928, 1926, 1925, 1920
860 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
860 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

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Address Researched	**Address Not Identified in Research Source**
860 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
860 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
861 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
861 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
862 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
862 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
862 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
862 WOOD ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1928, 1926, 1925, 1920
863 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
863 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1928, 1926, 1925, 1920
863 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1932, 1926, 1925, 1920
864 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
865 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
865 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1920
865 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
865 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1928, 1926, 1925, 1920
866 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1920
866 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
866 PINE LN	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

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Address Researched	**Address Not Identified in Research Source**
866 PINE ST	2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1932, 1928, 1926, 1925, 1920
866 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
867 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925
868 MCELROY ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
868 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
868 WOOD ST	2002, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1965, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1920
869 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
870 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
870 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
870 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1938, 1932, 1928, 1926, 1925
871 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
872 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
872 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
872 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
872 WOOD CT	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
872 WOOD ST	2002, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1940, 1938, 1932, 1928, 1926, 1925, 1920
873 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
873 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
873 WOOD ST	2002, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1938, 1932, 1928, 1926, 1925, 1920

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Address Researched	**Address Not Identified in Research Source**
874 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
874 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
874 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
875 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
875 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
875 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1940, 1932, 1928, 1926
876 MCELROY ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
877 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
878 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
878 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
880 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
880 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
882 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
882 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1938, 1932, 1928, 1926, 1925, 1920
883 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1928, 1926, 1925, 1920
884 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
884 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
884 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
885 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

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Address Researched	**Address Not Identified in Research Source**
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886 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
886 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
886 PINE ST	2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
888 Cedar Street	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
889 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
890 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
903 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1920
903 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
903 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1932, 1928, 1926, 1925
905 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
905 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
905 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
907 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
907 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
907 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
911 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
911 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1932, 1928, 1926, 1925, 1920
917 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
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917 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1940, 1932, 1928, 1926, 1925, 1920
921 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
921 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
924 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
924 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
924 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
927 1/2 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
927 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
927 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
927 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
929 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
929 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
929 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
930 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
930 PINE ST	2002, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
932 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
933 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1920
933 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
933 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1933, 1932, 1928, 1926, 1925, 1920
937 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
937 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
937 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1940, 1933, 1932, 1928, 1926, 1925, 1920
937 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1940, 1933, 1932, 1926, 1925, 1920
941 PINE ST	2006, 2002, 1993, 1984, 1982, 1979, 1976, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1940, 1938, 1932, 1928, 1926, 1925
942 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1920
942 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
942 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925
944 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920

APPENDIX G
ENVIRONMENTAL PROFESSIONAL QUALIFICATIONS

DENNIS LADUZINSKY, P.G., C.E.G., R.E.A.

PRINCIPAL

Mr. Laduzinsky has more than 20 years of professional experience providing direct oversight and management of a wide variety of environmental and geologic engineering projects. He has performed or managed hundreds of Phase I and II environmental site assessments. He has managed team efforts for remedial investigations, feasibility studies, and evaluation of remedial alternatives and implementation of remedial measures. Mr. Laduzinsky's background includes extensive project experience in environmental evaluation for commercial and residential real estate development, and includes substantial expertise in basic engineering geology and hydrogeologic evaluation. His redevelopment experience includes projects ranging from small industrial sites to mixed commercial and residential developments covering several city blocks. This experience includes EPA-funded Brownfields assessments for the City of Oakland, site assessments and cleanup plans for railway corridor sites for the Santa Clara Valley Transportation Authority and at private mixed-use redevelopments, and cleanup plan design and implementation at Brownfields Sites. This work has required generating the technical data required for the our clients to make effective site cleanup and development decisions.

REPRESENTATIVE EXPERIENCE

- *King's Court Shopping Center, Los Gatos, California* – Project manager for site characterization and remediation at a former dry cleaning facility located in an up-scale strip-mall. Implemented complete soil and groundwater cleanup programs including soil vapor extraction, air-sparging, and groundwater extraction and treatment. Performed indoor air quality evaluations and developed engineering controls to manage air quality issues.

- *Confidential Dry Cleaners, Santa Rosa, California* – Provided data compilation and evaluation services to develop plans for additional site characterization and cleanup at dry cleaner site involved in a co-mingled plume with two nearby gasoline service stations. Performed a detailed evaluation of historic site characterization data for the dry cleaner and adjacent service stations, produced by different consultants over a 15-year time frame and compiled the information into a single coherent document. Developed a scope of work to complete the site characterization studies, and evaluated alternative cleanup options for the dry cleaner, including soil vapor extraction, excavation and disposal, and chemical oxidation. Also provided evaluation of a planned regional groundwater cleanup program to address the co-mingled groundwater contamination plume. Negotiated work scopes and cleanup levels with the California RWQCB.

- *Scotts Valley Shopping Centers, Scotts Valley, California* – Project Manager for Phase I/Phase II evaluation at two shopping centers in Scotts Valley, an environmentally significant area in that the region is underlain by a sole-source aquifer, and municipal supply wells in the area have become increasingly contaminated with volatile organic compounds (VOCs). Site history evaluations revealed that both sites had been formerly occupied by dry-cleaning establishments and were surrounded by off-site potential contamination sources, including numerous CERCLIS sites. Provided field engineering services for focused evaluations of soil and groundwater quality, which determined that both sites were impacted by the former cleaning operations.

- Served as expert witness for two hydrocarbon contamination cases. Provided depositions and attended non-binding arbitration settlements. Both cases successfully resolved prior to court. Provided technical evaluation and consultation for several VOC and petroleum hydrocarbon contamination cases. Represented client in binding arbitration for cost recovery for facility closure and site cleanup at an automobile dealership.

- *Redevelopment Agency of the City of San Jose, San Jose, California* – Served as Project Manager for Phase I environmental assessments for eight separate downtown redevelopment projects. Projects ranged from high-rise hotels to mixed commercial and condominium projects covering square city blocks. Services included identification of previous land use histories, evaluations of existing contamination data, and detailed chain-of-title reviews to develop lists of potentially responsible parties. Services included preparation of estimates of site clean-up costs. Individual projects involved review or oversight of third party environmental consultant or remediation contractor work. Previous land use histories included service stations, automotive repair facilities, dry cleaners, paint and chemical manufacturing facilities, and coal gasification plants.
- *Former Union Pacific Railroad Yard, San Jose, California* – Mr. Laduzinsky served as a Project Manager for implementation of removal actions for managing pesticide- and metals-impacted soil during redevelopment of a 50-acre shopping center. Removal actions consisted of selective excavation, on-site encapsulation, and off-site disposal or reuse of over 250,000 cubic yards of pesticide-impacted soil, and off-site removal of more than 350,000 cubic yards of “clean” soil. The project success required careful management of large volumes of soil during full-scale site grading operations, requiring significant coordination with contractors, regulatory agencies, the general public, and other interested parties. The project also included third-party oversight of the regulatory cleanup and closure of an automobile dealership performed by others. Effective project management and coordination allowed the project to proceed without any construction or development delays related to the removal actions or other issues related to the presence of contamination at the site. The project is listed on the “Brownfields Success Stories” section of the DTSC web site.
- *Santana Row (former Town and Country Village), San Jose, California* – Project Manager for implementing removal actions for managing pesticide- and metals-impacted soil during redevelopment of a 50-acre shopping center. Removal actions consisted of selective excavation, on-site encapsulation, and off-site disposal or reuse of over 250,000 cubic yards of pesticide-impacted soil, and off-site removal of more than 350,000 cubic yards of “clean” soil. The project required careful management of large volumes of soil during full-scale site grading operations, requiring significant coordination with contractors, regulatory agencies, and the general public. The project also included third-party oversight of the regulatory cleanup and closure of an automobile dealership performed by others. Effective project management and coordination allowed the project to proceed without any construction or development delays related to the removal actions or other issues related to the presence of contamination at the site. The project is listed on the “Brownfields Success Stories” section of the DTSC web site.
- *Garin Vista Housing Development, Hayward, California* – Performed site characterization studies and subsequent air monitoring services for massive hillside grading program in an area underlain by naturally occurring asbestos. Developed and implemented an asbestos air monitoring plan and an asbestos dust mitigation plan in accordance with the California Air Resources Board Asbestos Toxic Control Measure for grading in areas underlain by naturally occurring asbestos.
- *Former Almaden Air Force Station at Mt. Umunhum, Sierra Azul Open Space Preserve, Santa Clara County, California* – Mr. Laduzinsky oversaw Phase I environmental site assessments and Phase II soil and groundwater investigations, as well as asbestos and lead pain investigations on this former Air Force Station currently owned by an Open Space District.
- *Bruener Property (former Murray and Davis Properties),Richmond, California* – Performed comprehensive due diligence evaluation of historic site conditions of bay margin property for proposed residential development. Investigation identified extensive areas of potentially contaminated fill materials, in-filled boat repair marina, petroleum pipeline releases, and other issues of potential concern. Developed work scopes for complete site characterization studies to

evaluate the vertical and lateral extent of soil and groundwater contamination at the site and developed preliminary site cleanup strategies and options.

- *Hearthstone Advisors, California* – Project Manager for third-party peer-review services reviewing Phase I/II assessments performed by others. Significant findings include presence of former fuel storage issues and skeet-shooting facilities overlooked by original consultants.
- *Phase I/II Assessment, Moitozo Property, San Jose, California* – Project Manager for a Phase I and Phase II assessment at the site of a former orchard in San Jose. Studies quantified the presence and distribution of elevated levels of DDT, lead, and arsenic in shallow soil, and identified the presence of a former easement for a waste discharge line originating from a solvent recycling firm. Performed detailed health risk assessment to evaluating acceptable risk levels associated with pesticide and metals contamination, and recommended implementation of simple on-site mitigation measures.
- *Livermore Senior Housing, Livermore, California* – Performed comprehensive Phase I and II site characterization studies and remedial actions on a 10-acre redevelopment site containing several abandoned railroad easements. Remedial actions performed under a Voluntary Cleanup Agreement with DTSC consisted of the on-site encapsulation of about 5,000 cubic yards of arsenic-impacted soil associated with one of the railroad embankments. Northgate currently provides annual operation and maintenance inspections in accordance with a land use restriction recorded at the site. The project is listed on the "Brownfields Success Stories" section of the DTSC web site.
- *Catalyst Project, Alameda, California* – Provided complete environmental assessment and management for a downtown redevelopment program that included demolition of existing structures, constructing a new theater and multi-level parking garage, and renovation of a historic art-deco movie theater. The investigation included a complete assessment of the site history, characterization of soil and groundwater contamination, and evaluation of asbestos, lead-paint, and mold in the existing buildings. The Phase I investigation indicated that a portion of the site had been historically occupied by a gasoline service station with eleven underground storage tanks for which no removal records were found. A Phase II site characterization study delineated the vertical and lateral extent of residual contamination. A baseline risk assessment demonstrated that residual contamination would not significantly impact the proposed redevelopment. Environmental management services included preparation of cost estimates for possible site mitigation alternatives, development of contingency plans and bid document specifications for dealing with hydrocarbon-impacted soil and groundwater encountered during construction, and managing potentially contaminated groundwater produced during construction dewatering activities at the site.
- *Former Auto Wrecking Yard, Parr Boulevard at Garden Track Road, Richmond*, *California* – Performed detailed site history review to identify potential soil and groundwater contamination conditions at a 20 acre Bay Margin site formerly used as an auto wrecking yard. Investigation included comprehensive review of BCDC project files, investigation of historic unpermitted in-filling, and delineation of wetlands areas within the site boundary.
- *Duc Housing Partners, Federal Realty Investment Trust, Palo Alto Medical Foundation, Edenbridge, Standard Pacific Homes, Cousins Properties, Brooks Street, Brookfield Homes, Davidon Homes, Delco Builders, Watson Land Company, and Other Residential and Commercial Developers, Northern and Southern California* – Performed and managed Phase I and Phase II assessments at over 100 sites throughout California for residential and commercial developers. Sites variously included former industrial properties, chemical manufacturers, food processing facilities, railroad yards, downtown redevelopment projects, strip malls, shopping centers, dry cleaners, schools, corporation yards, agricultural lands, cattle ranches, diary farms,

in-filled quarries, oil and gas fields, and other sites. Projects commonly included follow up site characterization studies for evaluation of potential indoor air quality impacts, evaluation of remedial alternatives, preparation of preliminary remediation costs and schedules. Contaminants of concern commonly included pesticides, petroleum hydrocarbons, metals, polynuclear aromatic hydrocarbons, volatile organic compounds, PCBs, asbestos, lead paint, mold, and other contamination issues.

- *Confidential VOC Project, Mountain View, California* – Performed detailed site characterization studies to evaluate the source and extent of VOC contamination in soil and groundwater at a bay-margin R&D business park. Identified RPs based on historic land use evaluation. Initial site characterization studies were used to negotiate a settlement agreement and obtain pollution legal liability insurance for the site. Continuing work consists of peer review and oversight of additional investigation and cleanup of VOC contamination by others on behalf of the property owner, including representing the property owner at regulatory meetings, presentations at the RWQCB, negotiations with RPs and other interested parties, discussions with insurance company representatives, and development of technical support strategies for subsequent legal actions to enforce the settlement agreement, when required.

- *301 Industrial Way, San Carlos, California* – Performed a comprehensive due diligence review for the proposed purchase of an 18-acre industrial facility used to manufacture vacuum tubes for over 50 years. Performed comprehensive review of historic environmental reports, detailed analysis of environmental documents and remedial action plans prepared by the seller, and performed an independent evaluation of existing site conditions and estimated site cleanup costs. Assisted the prospective purchaser in negotiating the sales agreement terms and conditions, liability transfer issues, and cleanup cost set-asides. Provided the client with a turnkey real estate transfer solution that included assumption of the site cleanup responsibilities and environmental insurance policies to manage liabilities.

- *Santa Clara Valley Water District* – Program manager for a multi-year environmental service contract that includes Phase I and II environmental site assessments for a variety of land transactions performed by the District, including leases, transfers, purchases and sales. Services include specific assessment of potential risk and liability associated with each transaction.

- *City of Oakland and City of San Francisco Public Works Agencies*—Served as Project Manager for Phase I and Phase II environmental assessments and other due diligence evaluation services on multi-year as-needed master service contracts. Services included evaluation and cleanup at the former Oakland Army Base, downtown redevelopment projects, tenant audit programs for hazardous materials management on city-owned properties, and storm water management and control programs.

- *Palo Alto Airport and City Refuse System Maintenance Yard*—Program manager for Phase I and Phase II ESAs on city-owned parcels, performed to assist the city in renegotiating leases for independent facility operators.

- *Facility Closure Review, San Francisco Bay Area, California*—Performed third-party oversight of facility closure programs on behalf of commercial property owners at a number of sites throughout the San Francisco Bay Area. Facilities include medical research facilities, light and heavy manufacturing facilities, medical offices, automotive repair facilities, automobile dealerships, and other sites. Worked to ensure compliance with local regulations and to evaluate potential soil and groundwater contamination and building contamination issues overlooked by local regulatory inspectors.

- *Jacques Gulch Investigation and Geologic Assessment, San Jose California* – Performed geologic assessments of two creek channels to define extent of mercury mill tailings and slope stability of creekbed slopes. Developed tailing extent and geologic field maps. Worked with the project team to develop an engineering report, CEQA input and project plans
- *Lower Silver Creek Realignment, San Jose, California* – Project Manager of a project to support land acquisition and to develop criteria for disposal of excess construction spoils. Supervised performance of a detailed environmental investigation of the first mile of Lower Silver Creek above its confluence with Coyote Creek, in suburban San Jose. Identified and evaluated potential sources of pollution along the creek realignment, evaluated remedial alternatives and relative costs for disposal of potentially contaminated soil.
- *Ontario Corporation Facility, San Carlos, California* – Senior Manager for site characterization and remediation of VOCs at a bay-margin metal-products manufacturing facility. Project included characterization of VOC plumes in bay-margin setting, including evaluation of former shorelines and tidal channels. Developed a hydrogeologic model to evaluate fate and transport of VOCs in tidally influenced shallow water zones overlying deeper aquifers separated by low-permeability Bay Muds. Implemented a remediation program consisting of a horizontal vapor extraction system beneath the former chemical storage area slab. Site closed by state and local agencies.
- *Unocal Bulk Transfer Terminals, Richmond and Eureka, California* – Project Manager responsible for performing evaluation and quarterly groundwater monitoring at two bulk transfer terminals. Services included hydrogeologic evaluation and monitoring following rupture of a large aboveground gasoline storage tank during the Loma Prieta Earthquake. Performed tidal influence studies in geologically complex in-filled former-shoreline environments using data-logger arrays measuring water elevation, temperature, and salinity.
- *Sinskey Winery, Yountville, California* – Performed hydrologic testing for water supply development at a proposed winery site. Investigation included constant discharge drawdown/ recovery tests, evaluation of local hydrologic resources, and projections of anticipated effects on neighboring wells related to peak demand pumping at the proposed winery
- *El Granada Groundwater Investigation, San Mateo County, California* – Project Hydrogeologist for basin-wide groundwater supply evaluation. Project performed for County of San Mateo Environmental Health Department for land use and well-permit allotment planning. Project included evaluation of the occurrence and movement of groundwater, and distribution of water quality indicators. Project resulted in recommendations for three optional levels of groundwater management planning. Services included formal public presentations at County Board of Supervisors meetings, and representing the County in basin-management meetings with the Regional Water Quality Control Board.
- *Eastern Alameda Disposal Site, Livermore, California* – Project geologist for investigations and compliance monitoring for an active Class III landfill. Investigations included site and facility investigation reports, hydrologic investigation reports, report of waste discharge investigations, and geologic investigation reports. Projects included active fault evaluation programs, geologic mapping, and hydrogeologic assessment to permit a new portion of the landfill, general compliance mapping, and managing quarterly groundwater and leachate monitoring programs.
- *Alameda Marina Area, Alameda, California* – Managed complete characterization and remediation of cyanide and heavy metal contaminated soil at the site of a former photochemical machine shop. Project involved coordination and negotiation of investigation scope and cleanup standards with County Health Department and the RWQCB. Project received agency sign-off following excavation of soil from beneath an existing building and presentation of evidence of no health risk.

- *Port of Oakland Galbraith Dredged Material Disposal Facility Project, Oakland, California* – Project Manager for air, surface water, and groundwater monitoring at the Galbraith Disposal Site. Responsible for ensuring compliance with the RWQCB NPDES permits for the site, where over 1 million cubic yards of sediment dredged from the Oakland Harbor were disposed and dried over a period of 7 years in containment lagoons constructed over a former landfill.

EDUCATION

M.A., Geology, University of California, Santa Barbara, 1990
B.S., Earth Science, Northeastern Illinois University, 1975

PROFESSIONAL HISTORY

Northgate Environmental Management, Inc., Principal, 2002–present
Henshaw Associates, Inc., Senior Project Manager, 1997–2002
Harza Engineering Company, Senior Engineering Geologist, 1989–1997
Kleinfelder, Inc., Project Geologist, 1986–1989
Pacific Materials Laboratory, Staff Geologist, 1976–1981

REGISTRATIONS

Professional Geologist: CA No. 4910
Certified Engineering Geologist: CA No. 1535
Registered Environmental Assessor: CA No. 03845

PUBLICATIONS

Laduzinsky, D., D.F. Hoexter, K. Knudsen, B. Hecht, and G. Fielder, *Creep and Downslope Movements in the Hayward Fault Zone in North Berkeley; Ten Years Later*, in Borchardt, G., and others, eds., Proceedings of the Second Conference on Earthquake Hazards in the Eastern San Francisco Bay Area; CDMG Special Publication 113, p.121-127, 1992

Laduzinsky, D., and D.F. Hoexter, *Pre-Purchase Site Characterization of Soil and Groundwater Quality from the Perspective of California's Silicon Valley*; Association of Engineering Geologists, 29th Annual Meeting, Abstracts and Program, 1986

Laduzinsky, D., *Tectonics of An Active Fold-Thrust Belt, San Emigdio Mountains, California*; G.S.A. Abstracts with Programs, 1986

Laduzinsky, D., E.A. Keller, D.B. Seaver, E.X. Zhao, and R.L. Zepeda, *Late Pleistocene-Holocene Chronology for Evaluating Tectonic Framework and Events, Transverse Ranges, California*; Final Technical Report, U.S. Geological Survey, Contract No. 14-08-001-21829, 1985

800 Cedar
800 Cedar Street
Oakland, CA 94607

Inquiry Number: 3170104.7
September 22, 2011

The EDR Environmental LienSearch™ Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

The EDR Environmental LienSearch™ Report

The EDR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

The EDR Environmental LienSearch™ Report

TARGET PROPERTY INFORMATION

ADDRESS

800 Cedar Street
800 Cedar
Oakland, CA 94607

RESEARCH SOURCE

Source 1:

Alameda county recorder
Alameda, CA

PROPERTY INFORMATION

Deed 1:

Type of Deed:	Deed
Title is vested in:	California Department of Transportation
Title received from:	Phoenix Properties
Deed Dated	10/10/1997
Deed Recorded:	10/10/1997
Book:	NA
Page:	na
Volume:	na
Instrument:	na
Docket:	NA
Land Record Comments:	see exhibit
Miscellaneous Comments:	na
Legal Description:	see exhibit
Legal Current Owner:	California Department of Transportation
Property Identifiers:	006-0047-001
Comments:	see exhibit

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found ☐ Not Found ☒

Deed Exhibit 1

PLEASE COMPLETE THIS INFORMATION

RECORDING REQUESTED BY:
State of California

WHEN RECORDED MAIL TO:
Dept. of Transportation
P.O. Box 23440
Oakland, CA 94623-0440

DH
8
W

Recorded in Official Records, Alameda County
Patrick O'Connell, Clerk-Recorder
No Fee
97266530 12:08pm 10/10/97
005 20040440 20 12
A47 0 7.00 21.00 0.00 0.00 0.00 0.00 0.00
0.00

THIS SPACE FOR RECORDER'S USE ONLY

Final Order of Condemnation

TITLE OF DOCUMENT

THIS PAGE ADDED TO PROVIDE ADEQUATE SPACE FOR RECORDING INFORMATION
(Govt. Code 27361.6)
(Additional recording fee applies)

273-214
(Rev. 6/94)

97266530

DANIEL C. MURPHY
RICHARD COVERT
ANTONIO R. ANZIANO (State Bar No. 121302)
ARDINE ZAZZERON (State Bar No. 130109)
JANET WONG (State Bar No. 124581)
Attorneys for Plaintiff
STATE OF CALIFORNIA

595 Market Street, Suite 1700
Mail: P.O. Box 7444
San Francisco, CA 94120-7444
Telephone: (415) 982-3130

FILED
ALAMEDA COUNTY
OCT 10 1997
CLERK OF THE SUPERIOR COURT
By
DEPUTY

SUPERIOR COURT OF THE STATE OF CALIFORNIA

FOR THE COUNTY OF ALAMEDA

THE PEOPLE OF THE STATE OF CALIFORNIA, acting by and through the Department of Transportation, Plaintiff, v. PHOENIX PROPERTIES, a California General Partnership, et al., Defendants.	No. 731654-0 Parcels 1, 2 and 3 FINAL ORDER OF CONDEMNATION

It appearing to the court that plaintiff has compensated the defendants entitled thereto the sums of money assessed by the Judgments in Condemnation entered in this proceeding; and

It further appearing to the court that plaintiff was authorized to take possession on May 20, 1994.

NOW, THEREFORE, IT IS HEREBY ORDERED, ADJUDGED AND DECREED that the real property situated in the County of Alameda, State of California, and more particularly described as follows, be condemned to plaintiff for State highway purposes, in fee simple absolute, unless a lesser estate is described:

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PARCEL 1 (50127-1):

For freeway purposes, that real property described as PARCEL A and PARCEL B below:

PARCEL A:

Being Lots 16 to 22 inclusive, Block 36, Map of Land on Oakland Point, [Rail-Road Ferry Landing] City of Oakland, Tract 406, filed May 24, 1864, Map Book 5, Page 33, Alameda County Records, described as follows:

COMMENCING at the point of intersection of the northern line of Goss Street with the eastern line of Cedar Street, as said streets are shown on the map herein referred to; thence easterly along said line of Goss Street, 105 feet 7 1/2 inches; thence northerly parallel with said line of Cedar Street, 100 feet 4 1/2 inches; thence westerly parallel with said line of Goss Street 25 feet; thence northerly parallel with said line of Cedar Street 50 feet; thence westerly parallel with said line of Goss Street 80 feet 7 1/2 inches to the eastern line of Cedar Street; thence southerly along said line of Cedar Street 150 feet 4 1/2 inches to the point of commencement.

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PARCEL B:

Portion of Block 521, Boardman's Map of Oakland and Vicinity, filed April 23, 1883, Map Book 17, Page 14, Alameda County Records, described as follows:

Beginning at the southeasterly corner of Shorrey [Short] Streets and Cedar Street; thence easterly along the southerly line of Shorey [Short] Streets 80 feet and 7 1/2 inches; thence at right angles southerly 50 feet and 4 1/2 inches; thence at right angles westerly 80 feet and 7 1/2 inches to the easterly line of Cedar Street; thence at right angles northerly along the 1st named line 50 feet and 4 1/2 inches to the point of beginning.

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PARCEL 2 (50106-1):

For freeway purposes, that real property described as follows:

The land referred to herein is situated in the State of California, County of Alameda, City of Oakland, and is described as follows:

That certain piece of Parcel of land bounded on the northeast by the southwest line of 9th Street, as said street now exists; bounded on the northwest by the southeast line of Cedar Street, as said street now exists; bounded on the southeast by the northwest line of Pine Street, as said street now exists; and bounded on the southwest by the northeast line of Shorey Street, as said street now exists.

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PARCEL 3 (50109-1):

For freeway purposes, that real property described as follows:

Beginning at the intersection of the northeasterly line of Eighth Street with the northwesterly line of Cedar Street, in said City of Oakland; thence North 31° 58' 44" East along said northeasterly line of Cedar Street, 881.82 feet to a point which is 43.50 feet southeasterly measured at right angles from center line of eastward main tract of Southern Pacific Railroad Company, between Oakland and Martinez; thence South 46° 53' 29" West parallel with and distant 50 feet southeasterly measured at right angles from center line of said eastward main tract, 600.00 feet; thence leaving said parallel line South 43° 21' 26" West 155.07 feet; thence South 47° 37' 16" West, 155.77 feet to a point on the northeasterly line of said Eighth Street; thence South 58° 01' 16" East, along said northeasterly line of Eighth Street 227.00 feet to the point of beginning.

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IT IS FURTHER ORDERED, ADJUDGED AND DECREED that a certified copy of this order be recorded in the office of the County Recorder of the County of Alameda, State of California, and thereupon title to said property described above shall vest in plaintiff and all interests of defendants PHOENIX PROPERTIES, a California General Partnership; LNB CORPORATION, SUCCESSOR IN INTEREST TO AM VAL FINANCIAL CORPORATION, as Trustee; COMMUNITY FIRST NATIONAL BANK, SUCCESSOR IN INTEREST TO AMADOR VALLEY SAVINGS AND LOAN ASSOCIATION; DREAM BUILDERS; ABRAMS, MILLIKAN & KENT; CYPRESS AUTO SALVAGE; STEVE HECK; RAMONA DOWNEY; PHOENIX PIANO WORKS; THE PIANO MOVERS; PHOENIX IRON WORKS, INC., a California corporation, sued and served as Doe One; and DUANE CASH, sued and served as Doe Two, in and to said real property shall be terminated.

DATED: 10-10-97

RICHARD A. HODGE
Judge of the Superior Court

The foregoing instrument is a correct copy of the original on file in this office.
ATTEST: OCT 10 1997
RONALD G. OVERHOLT
Executive Officer/Clerk of the Superior Court, State of California, County of Alameda
BY ______ DEPUTY

800 Cedar
800 Cedar Street
Oakland, CA 94607

Inquiry Number: 3170104.2s
September 20, 2011

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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SECTION **PAGE**

GEOCHECK ADDENDUM

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

800 CEDAR STREET
OAKLAND, CA 94607

COORDINATES

Latitude (North):	37.809800 - 37˚ 48' 35.3''
Longitude (West):	122.303300 - 122˚ 18' 11.9''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	561327.9
UTM Y (Meters):	4184735.8
Elevation:	14 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	37122-G3 OAKLAND WEST, CA
Most Recent Revision:	1980

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year:	2005
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
PHOENIX 800 PROPERTY 800 CEDAR STREET OAKLAND, CA 94607	FINDS	N/A
CALTRANS 800 CEDAR ST OAKLAND, CA 94607	RCRA-SQG FINDS VCP HAZNET ENVIROSTOR Status: Inactive - Needs Evaluation	CAR000011692

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

Proposed NPL	Proposed National Priority List Sites
NPL LIENS	Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL	National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY	Federal Facility Site Information listing

Federal RCRA CORRACTS facilities list

CORRACTS	Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF	RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG	RCRA - Large Quantity Generators
RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls

Federal ERNS list

ERNS	Emergency Response Notification System

State and tribal landfill and/or solid waste disposal site lists

SWF/LF	Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST	Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

UST	Active UST Facilities

INDIAN UST	Underground Storage Tanks on Indian Land
FEMA UST	Underground Storage Tank Listing

State and tribal voluntary cleanup sites

INDIAN VCP	Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
ODI	Open Dump Inventory
WMUDS/SWAT	Waste Management Unit Database
SWRCY	Recycler Database
HAULERS	Registered Waste Tire Haulers Listing
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL	Clandestine Drug Labs
SCH	School Property Evaluation Program
CDL	Clandestine Drug Labs
US HIST CDL	National Clandestine Laboratory Register

Local Land Records

LIENS 2	CERCLA Lien Information
LUCIS	Land Use Control Information System
LIENS	Environmental Liens Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing

Other Ascertainable Records

RCRA-NonGen	RCRA - Non Generators
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
MINES	Mines Master Index File
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System

EXECUTIVE SUMMARY

MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
RAATS	RCRA Administrative Action Tracking System
WDS	Waste Discharge System
NPDES	NPDES Permits Listing
DRYCLEANERS	Cleaner Facilities
WIP	Well Investigation Program Case List
EMI	Emissions Inventory Data
INDIAN RESERV	Indian Reservations
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
FINANCIAL ASSURANCE	Financial Assurance Information Listing
PCB TRANSFORMER	PCB Transformer Registration Database
PROC	Certified Processors Database
MWMP	Medical Waste Management Program Listing
COAL ASH DOE	Sleam-Electric Plan Operation Data

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants	EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 03/31/2011 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMCO CHEMICAL	***1414 THIRD STREET***	***SE 1/2 - 1 (0.614 mi.)***	***0***	***16***

EXECUTIVE SUMMARY

Federal CERCLIS list

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 02/25/2011 has revealed that there are 2 CERCLIS sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GAINES PROPERTY	***1795 11TH STREET***	***NE 1/8 - 1/4 (0.193 mi.)***	***J29***	***89***
USARMY OAKLAND ARMY BASE	***BLDG-1 ALASKA STREET***	***NW 1/4 - 1/2 (0.406 mi.)***	***X76***	***271***

Federal CERCLIS NFRAP site List

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 02/25/2011 has revealed that there are 3 CERC-NFRAP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BATAVIA PROPERTY	1832 9TH STREET	NE 0 - 1/8 (0.064 mi.)	C5	57

Lower Elevation	Address	Direction / Distance	Map ID	Page
WEST RECYCLER BIN STORAGE	1405 WOOD STREET	NE 1/4 - 1/2 (0.388 mi.)	U70	222
LOT AT 530-542 LEWIS STREET	530-542 LEWIS STREET	SE 1/4 - 1/2 (0.405 mi.)	V71	223

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 06/15/2011 has revealed that there are 6 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MORGAN MARINE INC	***1776 11TH ST INSIDE BLD***	***NE 1/8 - 1/4 (0.204 mi.)***	***L39***	***114***
MORGAN CHEMICAL INC	***1776 11TH ST OUTDOOR ST***	***NE 1/8 - 1/4 (0.204 mi.)***	***L40***	***115***

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MORGAN RESIDENCE	*1771 11TH STREET*	*ENE 1/8 - 1/4 (0.207 mi.)*	*L42*	*119*

Lower Elevation	Address	Direction / Distance	Map ID	Page
OCEAN CONLAINER SYSTEMS	*801 CEDAR ST*	*WSW 0 - 1/8 (0.037 mi.)*	*B3*	*54*
NAUTICAL ENGINEERING, INC	1790 - 11TH STREET	NE 1/8 - 1/4 (0.210 mi.)	J43	121
WEST OAKLAND YARD	*515 BAY STREET*	*SW 1/8 - 1/4 (0.245 mi.)*	*P52*	*188*

State- and tribal - equivalent NPL

RESPONSE: Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

A review of the RESPONSE list, as provided by EDR, and dated 08/09/2011 has revealed that there are 11 RESPONSE sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JENKINS AUTO WRECKERS	*1778 10TH STREET*	*ENE 1/8 - 1/4 (0.146 mi.)*	*G19*	*77*

Lower Elevation	Address	Direction / Distance	Map ID	Page
VACANT AUTO REPAIR	*SHOREY STREET*	*SW 0 - 1/8 (0.059 mi.)*	*B4*	*55*
GAINES PROPERTY	*1795 11TH STREET*	*NE 1/8 - 1/4 (0.193 mi.)*	*J29*	*89*
OAKLAND ARMY BASE-EARLY TRANSF	*700 MURMANSK STREET, SU*	*NW 1/8 - 1/4 (0.211 mi.)*	*M45*	*123*
528 LEWIS STREET	*528 LEWIS STREET*	*SE 1/4 - 1/2 (0.406 mi.)*	*V74*	*230*
OAKLAND ARMY BASE	*2475-D WEST 12TH STREET*	*NW 1/4 - 1/2 (0.406 mi.)*	*X75*	*239*
PORT OF OAKLAND - FORMER OAKLA	*MARITIME STREET AND 14T*	*NW 1/4 - 1/2 (0.469 mi.)*	*82*	*308*
SOUTHERN PACIFIC TRANSPORTATIO	*1707 WOOD ST*	*NE 1/2 - 1 (0.549 mi.)*	*AA92*	*324*
SF BAY AREA RAPID TRANSIT DIST	*349 MANDELA PKWY*	*SE 1/2 - 1 (0.671 mi.)*	*AB102*	*351*
PORT OF OAKLAND, BERTH 25 AND	*2500 7TH STREET*	*W 1/2 - 1 (0.806 mi.)*	*111*	*389*
OAB HEROIC WAR DEAD USAR AKA:	*2400 ENGINEER ROAD*	*N 1/2 - 1 (0.972 mi.)*	*120*	*440*

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control’s (DTSC’s) Site Mitigation and Brownfields Reuse Program’s (SMBRP’s) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 08/09/2011 has revealed that there are 46 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMCO CHEMICAL Status: Active	*1414 THIRD STREET*	*SE 1/2 - 1 (0.614 mi.)*	*0*	*16*

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BATAVIA PROPERTY Status: No Further Action	1832 9TH STREET	NE 0 - 1/8 (0.064 mi.)	C6	58
B & A AUTO DISMANTLERS Status: Certified	***1823 SHOREY STREET***	***S 0 - 1/8 (0.074 mi.)***	***D8***	***59***
OLD OAKLAND FIRE HOUSE 3 Status: Certified	***727 PINE STREET***	***S 0 - 1/8 (0.087 mi.)***	***D10***	***63***
JENKINS AUTO WRECKERS Status: Backlog	***1778 10TH STREET***	***ENE 1/8 - 1/4 (0.146 mi.)***	***G19***	***77***
CHURCH’S FRIED CHICKEN Status: Certified	***1766 7TH***	***S 1/8 - 1/4 (0.171 mi.)***	***I26***	***83***
UNITED STATES POSTAL SERVICE, Status: Certified	***1675 7TH ST***	***SE 1/4 - 1/2 (0.292 mi.)***	***R62***	***208***
WEST OAKLAND BART STATION SITE Status: Refer: Local Agency	1451 7TH STREET	SE 1/2 - 1 (0.544 mi.)	89	321
NEW OAKLAND FIRE STATION #3 Status: Certified	***CENTER AND 14TH STREET***	***E 1/2 - 1 (0.577 mi.)***	***96***	***337***
SMILO CHEMICAL COMPANY Status: Inactive - Needs Evaluation	***500 KIRKHAM STREET***	***ESE 1/2 - 1 (0.755 mi.)***	***106***	***368***
PALM COURT Status: No Further Action	***902 UNION STREET***	***ESE 1/2 - 1 (0.784 mi.)***	***108***	***384***
NABISCO Status: No Further Action	1267 14TH STREET	E 1/2 - 1 (0.803 mi.)	AC109	387
CONDOR FREIGHT Status: No Further Action	***324 UNION ST***	***ESE 1/2 - 1 (0.810 mi.)***	***112***	***409***

Lower Elevation	Address	Direction / Distance	Map ID	Page
VACANT AUTO REPAIR Status: No Further Action	***SHOREY STREET***	***SW 0 - 1/8 (0.059 mi.)***	***B4***	***55***
WILFRED’S AUTO WRECKING Status: Certified	***1834 7TH STREET***	***SSW 1/8 - 1/4 (0.143 mi.)***	***17***	***73***
GAINES PROPERTY Status: Certified	***1795 11TH STREET***	***NE 1/8 - 1/4 (0.193 mi.)***	***J29***	***89***
LIPS PROPELLERS Status: No Further Action	***1899 7TH***	***SW 1/8 - 1/4 (0.194 mi.)***	***K30***	***100***
OAKLAND ARMY BASE-EARLY TRANSF Status: Active	***700 MURMANSK STREET, SU***	***NW 1/8 - 1/4 (0.211 mi.)***	***M45***	***123***
CAL-EAST FOODS Status: Certified	***505 CEDAR STREET***	***S 1/8 - 1/4 (0.234 mi.)***	***O48***	***170***
PHOENIX 524 PROPERTY Status: Inactive - Needs Evaluation	***524 CEDAR STREET***	***SSE 1/8 - 1/4 (0.238 mi.)***	***O49***	***177***
VACANT BUILDING ON 5TH STREET Status: Inactive - Needs Evaluation	***1851 5TH STREET***	***SW 1/8 - 1/4 (0.245 mi.)***	***P51***	***183***
SO. PRESCOTT NEIGHBORHOOD PARK Status: Certified	***3RD STREET***	***S 1/4 - 1/2 (0.291 mi.)***	***60***	***203***
WEST RECYCLER BIN STORAGE Status: Refer: RWQCB	1405 WOOD STREET	NE 1/4 - 1/2 (0.388 mi.)	U69	221

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
WILLOW PARK Status: No Further Action	***1368 WILLOW STREET***	***ENE 1/4 - 1/2 (0.406 mi.)***	***W72***	***224***
528 LEWIS STREET Status: Certified	***528 LEWIS STREET***	***SE 1/4 - 1/2 (0.406 mi.)***	***V74***	***230***
OAKLAND ARMY BASE Status: Active	***2475-D WEST 12TH STREET***	***NW 1/4 - 1/2 (0.406 mi.)***	***X75***	***239***
CYPRESS FREEWAY-3RD STREET SOU Status: Certified	***3RD STREET BETWEEN CENT***	***SSE 1/4 - 1/2 (0.459 mi.)***	***81***	***305***
PORT OF OAKLAND - FORMER OAKLA Status: Certified / Operation & Maintenance	***MARITIME STREET AND 14T***	***NW 1/4 - 1/2 (0.469 mi.)***	***82***	***308***
BASF CORPORATION Status: Refer: RWQCB	1545 WILLOW STREET	ENE 1/4 - 1/2 (0.489 mi.)	Z86	317
SOUTHERN PACIFIC TRANSPORTATIO Status: Refer: RWQCB	***1707 WOOD ST***	***NE 1/2 - 1 (0.549 mi.)***	***AA92***	***324***
1536 THIRD STREET Status: Refer: Other Agency	1536 THIRD STREET	SSE 1/2 - 1 (0.554 mi.)	94	329
RELIANCE UPHOLSTERY SUPPLY Status: Certified	***1614 CAMPBELL STREET***	***ENE 1/2 - 1 (0.564 mi.)***	***95***	***331***
MANNYSERVICES/MCKINNEY GAS Status: Refer: Other Agency	1600 PERALTA	ENE 1/2 - 1 (0.608 mi.)	97	340
A. BERCOVICH 18TH STREET Status: Certified O&M - Land Use Restrictions Only	***1639 18TH STREET***	***ENE 1/2 - 1 (0.665 mi.)***	***99***	***342***
CA SODA CO Status: No Further Action	***355 MANDELA PKWY***	***SE 1/2 - 1 (0.669 mi.)***	***AB101***	***348***
SF BAY AREA RAPID TRANSIT DIST Status: Certified	***349 MANDELA PKWY***	***SE 1/2 - 1 (0.671 mi.)***	***AB102***	***351***
BOBO'S JUNKYARD Status: Certified / Operation & Maintenance	***1401 THIRD STREET***	***SE 1/2 - 1 (0.672 mi.)***	***103***	***357***
ALTA PLATING & CHEMICAL CORP. Status: Inactive - Needs Evaluation	1433 18TH STREET	ENE 1/2 - 1 (0.728 mi.)	104	367
CONTAINER FREIGHT Status: Inactive - Needs Evaluation	***1285 5TH***	***SE 1/2 - 1 (0.758 mi.)***	***107***	***377***
PORT OF OAKLAND, BERTH 25 AND Status: Active	***2500 7TH STREET***	***W 1/2 - 1 (0.806 mi.)***	***111***	***389***
AMTRAK MAINTENANCE FACILITY Status: Certified / Operation & Maintenance	***3RD & UNION STREETS***	***SE 1/2 - 1 (0.835 mi.)***	***113***	***416***
ARMY-NAVY DISTRIBUTING CENTER Status: No Further Action	2233 WOOD STREET	NE 1/2 - 1 (0.859 mi.)	AD114	424
LDS TRUCKING Status: Certified	***2233 WOOD STREET***	***NE 1/2 - 1 (0.861 mi.)***	***AD115***	***425***
SHEREX CHEMICAL COMPANY INC Status: Refer: Local Agency	***1401 MIDDLE HARBOR RD***	***SSE 1/2 - 1 (0.880 mi.)***	***116***	***430***
MANDELA GRAND Status: Inactive - Needs Evaluation	***MANDELA PARKWAY AND WES***	***ENE 1/2 - 1 (0.905 mi.)***	***117***	***436***
OAB HEROIC WAR DEAD USAR AKA: Status: Certified / Operation & Maintenance Status: No Further Action	***2400 ENGINEER ROAD***	***N 1/2 - 1 (0.972 mi.)***	***120***	***440***

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 08/09/2011 has revealed that there are 18 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GOSSWOOD HOUSING ASSOCIAT Status: Completed - Case Closed	***1751 GOSS***	***SSE 1/8 - 1/4 (0.157 mi.)***	***21***	***80***
CHURCH'S FRIED CHICKEN Status: Completed - Case Closed	***1766 7TH***	***S 1/8 - 1/4 (0.171 mi.)***	***I26***	***83***
UNITED STATES POSTAL SERVICE, Status: Open - Site Assessment	***1675 7TH ST***	***SE 1/4 - 1/2 (0.292 mi.)***	***R62***	***208***
RELIABLE HANDI CAR Status: Completed - Case Closed	***1520 7TH***	***SE 1/4 - 1/2 (0.471 mi.)***	***83***	***313***

Lower Elevation	Address	Direction / Distance	Map ID	Page
PHOENIX IRON WORKS Status: Open - Site Assessment	***888 CEDAR***	***NE 0 - 1/8 (0.100 mi.)***	***E11***	***68***
BONNELLI ENTERPRISES Status: Completed - Case Closed	***1111 PINE***	***NE 1/8 - 1/4 (0.198 mi.)***	***J34***	***106***
SOUTHERN PACIFIC TRANSPORTATIO Status: Completed - Case Closed	***1912 7TH***	***WSW 1/8 - 1/4 (0.203 mi.)***	***K38***	***112***
CAL-EAST FOODS Status: Completed - Case Closed	***505 CEDAR STREET***	***S 1/8 - 1/4 (0.234 mi.)***	***O48***	***170***
ALL WEATHER DOOR Status: Open - Site Assessment	1851 5TH ST	SW 1/8 - 1/4 (0.245 mi.)	P50	182
VACANT BUILDING ON 5TH STREET	***1851 5TH STREET***	***SW 1/8 - 1/4 (0.245 mi.)***	***P51***	***183***
SOUTHERN PACIFIC DESERT RAIL Status: Open - Site Assessment	515 BAY ST	SSW 1/8 - 1/4 (0.247 mi.)	Q56	196
SPT CO LOCO FUEL PLANT WD	***UNKNOWN PINE ST FOOT OF***	***SSW 1/4 - 1/2 (0.267 mi.)***	***59***	***202***
TAYLOR ROOF STRUCTURES Status: Completed - Case Closed	***1746 13TH***	***ENE 1/4 - 1/2 (0.354 mi.)***	***S64***	***216***
SOUTHERN PACIFIC TRANS CO Status: Completed - Case Closed	***1399 WOOD***	***NE 1/4 - 1/2 (0.384 mi.)***	***T67***	***219***
PORT OF OAKLAND YUSEN TERMINAL Status: Completed - Case Closed	***1195 MARITIME***	***NW 1/4 - 1/2 (0.452 mi.)***	***Y77***	***294***
UTILITY TRUCK BODIES Status: Completed - Case Closed	***1530 WOOD ST***	***NE 1/4 - 1/2 (0.453 mi.)***	***80***	***303***
BASF CORPORATION Status: Completed - Case Closed	***1545 WILLOW ST***	***ENE 1/4 - 1/2 (0.489 mi.)***	***Z85***	***314***
BASF CORPORATION Status: Completed - Case Closed	1545 WILLOW	ENE 1/4 - 1/2 (0.489 mi.)	Z87	318

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 08/09/2011 has revealed that there are 5 SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USPS - MAIN POST OFFICE ELEVAT Facility Status: Open - Site Assessment	1675 7TH ST	SE 1/4 - 1/2 (0.292 mi.)	R61	207

Lower Elevation	Address	Direction / Distance	Map ID	Page
PACIFIC CANNERY LOFTS (PCL) Facility Status: Completed - Case Closed	1111-1199 PINE STREET	NE 1/8 - 1/4 (0.198 mi.)	J33	106
14TH ST APARTMENTS @ CENTRAL S Facility Status: Open - Remediation	***1801 14TH ST***	***NE 1/4 - 1/2 (0.376 mi.)***	***T65***	***217***
CENTRAL STATION LAND, LLC	1399-1707 WOOD STREET	NE 1/4 - 1/2 (0.384 mi.)	T66	218
CENTRAL STATION VILLAGE Facility Status: Completed - Case Closed	1401-1599 WOOD STREET	NE 1/4 - 1/2 (0.387 mi.)	U68	221

Alameda County CS: A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

A review of the Alameda County CS list, as provided by EDR, and dated 07/21/2011 has revealed that there are 15 Alameda County CS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GOSSWOOD HOUSING ASSOCIAT	***1751 GOSS***	***SSE 1/8 - 1/4 (0.157 mi.)***	***21***	***80***
CHURCHS FRIED CHICKEN / CALTRA	1766 7TH ST	S 1/8 - 1/4 (0.171 mi.)	I27	89
UNITED STATES POSTAL SERVICE,	***1675 7TH ST***	***SE 1/4 - 1/2 (0.292 mi.)***	***R62***	***208***
RELIABLE HANDI CAR	***1520 7TH***	***SE 1/4 - 1/2 (0.471 mi.)***	***83***	***313***

Lower Elevation	Address	Direction / Distance	Map ID	Page
PHOENIX IRON WORKS	***888 CEDAR***	***NE 0 - 1/8 (0.100 mi.)***	***E11***	***68***
BONNELLI ENTERPRISES	***1111 PINE***	***NE 1/8 - 1/4 (0.198 mi.)***	***J34***	***106***
SOUTHERN PACIFIC TRANSPORTATIO	***1912 7TH***	***WSW 1/8 - 1/4 (0.203 mi.)***	***K38***	***112***
CAL-EAST FOODS	***505 CEDAR STREET***	***S 1/8 - 1/4 (0.234 mi.)***	***O48***	***170***
VACANT BUILDING ON 5TH STREET	***1851 5TH STREET***	***SW 1/8 - 1/4 (0.245 mi.)***	***P51***	***183***
S.P. CO. DESERT YARD	***515 BAY ST***	***SSW 1/8 - 1/4 (0.247 mi.)***	***Q58***	***201***
TAYLOR ROOF STRUCTURES	***1746 13TH***	***ENE 1/4 - 1/2 (0.354 mi.)***	***S64***	***216***
SOUTHERN PACIFIC TRANS CO	***1399 WOOD***	***NE 1/4 - 1/2 (0.384 mi.)***	***T67***	***219***
STEVEDORING SERVICES OF AMERIC	***1195 MARITIME ST***	***NW 1/4 - 1/2 (0.452 mi.)***	***Y79***	***298***
UTILITY TRUCK BODIES	***1530 WOOD ST***	***NE 1/4 - 1/2 (0.453 mi.)***	***80***	***303***
BASF CORPORATION	***1545 WILLOW ST***	***ENE 1/4 - 1/2 (0.489 mi.)***	***Z85***	***314***

State and tribal registered storage tank lists

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the State Water Resources Control Board’s Hazardous Substance Storage Container Database.

A review of the AST list, as provided by EDR, and dated 08/01/2009 has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
WEST OAKLAND YARD	1851 FIFTH ST.	SW 1/8 - 1/4 (0.245 mi.)	P53	192

State and tribal voluntary cleanup sites

VCP: Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

A review of the VCP list, as provided by EDR, and dated 08/09/2011 has revealed that there are 12 VCP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
B & A AUTO DISMANTLERS	***1823 SHOREY STREET***	***S 0 - 1/8 (0.074 mi.)***	***D8***	***59***
OLD OAKLAND FIRE HOUSE 3	***727 PINE STREET***	***S 0 - 1/8 (0.087 mi.)***	***D10***	***63***
CHURCH'S FRIED CHICKEN	***1766 7TH***	***S 1/8 - 1/4 (0.171 mi.)***	***I26***	***83***
UNITED STATES POSTAL SERVICE,	***1675 7TH ST***	***SE 1/4 - 1/2 (0.292 mi.)***	***R62***	***208***

Lower Elevation	Address	Direction / Distance	Map ID	Page
WILFRED'S AUTO WRECKING	***1834 7TH STREET***	***SSW 1/8 - 1/4 (0.143 mi.)***	***17***	***73***
LIPS PROPELLERS	***1899 7TH***	***SW 1/8 - 1/4 (0.194 mi.)***	***K30***	***100***
CAL-EAST FOODS	***505 CEDAR STREET***	***S 1/8 - 1/4 (0.234 mi.)***	***O48***	***170***
PHOENIX 524 PROPERTY	***524 CEDAR STREET***	***SSE 1/8 - 1/4 (0.238 mi.)***	***O49***	***177***
VACANT BUILDING ON 5TH STREET	***1851 5TH STREET***	***SW 1/8 - 1/4 (0.245 mi.)***	***P51***	***183***
SO. PRESCOTT NEIGHBORHOOD PARK	***3RD STREET***	***S 1/4 - 1/2 (0.291 mi.)***	***60***	***203***
WILLOW PARK	***1368 WILLOW STREET***	***ENE 1/4 - 1/2 (0.406 mi.)***	***W72***	***224***
CYPRESS FREEWAY-3RD STREET SOU	***3RD STREET BETWEEN CENT***	***SSE 1/4 - 1/2 (0.459 mi.)***	***81***	***305***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properites addressed by Cooperative Agreement Recipients and Brownfields properties addressed by Targeted Brownfields Assessments

A review of the US BROWNFIELDS list, as provided by EDR, and dated 06/27/2011 has revealed that there is 1 US BROWNFIELDS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
WILLOW PARK	1368 WILLOW STREET	ENE 1/4 - 1/2 (0.406 mi.)	W73	227

Local Lists of Hazardous waste / Contaminated Sites

HIST Cal-Sites: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

A review of the HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there are 8 HIST Cal-Sites sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMCO CHEMICAL	***1414 THIRD STREET***	***SE 1/2 - 1 (0.614 mi.)***	***0***	***16***

Lower Elevation	Address	Direction / Distance	Map ID	Page
GAINES PROPERTY	***1795 11TH STREET***	***NE 1/8 - 1/4 (0.193 mi.)***	***J29***	***89***
OAKLAND ARMY BASE-EARLY TRANSF	***700 MURMANSK STREET, SU***	***NW 1/8 - 1/4 (0.211 mi.)***	***M45***	***123***
528 LEWIS STREET	***528 LEWIS STREET***	***SE 1/4 - 1/2 (0.406 mi.)***	***V74***	***230***
OAKLAND ARMY BASE	***2475-D WEST 12TH STREET***	***NW 1/4 - 1/2 (0.406 mi.)***	***X75***	***239***
SF BAY AREA RAPID TRANSIT DIST	***349 MANDELA PKWY***	***SE 1/2 - 1 (0.671 mi.)***	***AB102***	***351***
PORT OF OAKLAND, BERTH 25 AND	***2500 7TH STREET***	***W 1/2 - 1 (0.806 mi.)***	***111***	***389***
OAB HEROIC WAR DEAD USAR AKA:	***2400 ENGINEER ROAD***	***N 1/2 - 1 (0.972 mi.)***	***120***	***440***

Toxic Pits: The Toxic Pits Cleanup Act Sites database identifies sites suspected of containing hazardous substances where cleanup has not yet been completed. The data come from the State Water Resources Control Board.

A review of the Toxic Pits list, as provided by EDR, and dated 07/01/1995 has revealed that there are 2 Toxic Pits sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SP, W.OAKLAND YD.-(OILY WASTE) Closure Date: 04/21/93	1707 WOOD STREET	NE 1/2 - 1 (0.549 mi.)	AA90	323
SP, W.OAKLAND YARD-(WASHWATER) Closure Date: 06/30/92	1707 WOOD STREET	NE 1/2 - 1 (0.549 mi.)	AA91	324

Local Lists of Registered Storage Tanks

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 5 CA FID UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PHOENIX IRON WORKS	***888 CEDAR***	***NE 0 - 1/8 (0.100 mi.)***	***E11***	***68***
GLOBE METALS CO.	***1820 010TH ST***	***NNE 1/8 - 1/4 (0.136 mi.)***	***15***	***72***
BONNELLI ENTERPRISES	***1111 PINE***	***NE 1/8 - 1/4 (0.198 mi.)***	***J34***	***106***
SOUTHERN PACIFIC TRANSPORTAIO	***1912 007TH ST***	***SW 1/8 - 1/4 (0.207 mi.)***	***K41***	***118***
SOUTHERN PACIFIC DESERT Y	***515 BAY***	***SSW 1/8 - 1/4 (0.247 mi.)***	***Q57***	***196***

EXECUTIVE SUMMARY

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 7 HIST UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PHOENIX IRON WKS.	888 CEDAR ST.	NE 0 - 1/8 (0.100 mi.)	E12	71
GLOBE METALS CO.	1820 10TH ST	NE 1/8 - 1/4 (0.126 mi.)	F14	71
ADELPHI ALUMINUM CO.	1111 PINE ST	NE 1/8 - 1/4 (0.198 mi.)	J32	105
SOUTHERN PACIFIC TRANSPORTATIO	1912 7TH AVE	WSW 1/8 - 1/4 (0.203 mi.)	K36	111
ALL-WEATHER ARCH. ALUM. INC.	***1851 5TH ST***	***SW 1/8 - 1/4 (0.245 mi.)***	***P54***	***192***
W.O. RIP TRACK	515 BAY ST	SSW 1/8 - 1/4 (0.247 mi.)	Q55	195
S.P. CO. DESERT YARD	***515 BAY ST***	***SSW 1/8 - 1/4 (0.247 mi.)***	***Q58***	***201***

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 8 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GOSSWOOD HOUSING ASSOCIAT	***1751 GOSS***	***SSE 1/8 - 1/4 (0.157 mi.)***	***21***	***80***

Lower Elevation	Address	Direction / Distance	Map ID	Page
PHOENIX IRON WORKS	***888 CEDAR***	***NE 0 - 1/8 (0.100 mi.)***	***E11***	***68***
GLOBE METALS CO.	***1820 010TH ST***	***NNE 1/8 - 1/4 (0.136 mi.)***	***15***	***72***
BONNELLI ENTERPRISES	***1111 PINE***	***NE 1/8 - 1/4 (0.198 mi.)***	***J34***	***106***
SOUTHERN PACIFIC TRANSPORTAIO	***1912 007TH ST***	***SW 1/8 - 1/4 (0.207 mi.)***	***K41***	***118***
CAL-EAST FOODS	***505 CEDAR STREET***	***S 1/8 - 1/4 (0.234 mi.)***	***O48***	***170***
SOUTHERN PACIFIC DESERT Y	***515 BAY***	***SSW 1/8 - 1/4 (0.247 mi.)***	***Q57***	***196***
S.P. CO. DESERT YARD	***515 BAY ST***	***SSW 1/8 - 1/4 (0.247 mi.)***	***Q58***	***201***

Local Land Records

DEED: The use of recorded land use restrictions is one of the methods the DTSC uses to protect the public from unsafe exposures to hazardous substances and wastes .

A review of the DEED list, as provided by EDR, and dated 06/13/2011 has revealed that there is 1 DEED site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
OAKLAND ARMY BASE	***2475-D WEST 12TH STREET***	***NW 1/4 - 1/2 (0.406 mi.)***	***X75***	***239***

Other Ascertainable Records

DOD: Consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

Equal/Higher Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
OAKLAND ARMY BASE (CLOSED)		NW 1/4 - 1/2 (0.433 mi.)	0	15

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 12/31/2009 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
ARMY-NAVY DISTRIBUTING CENTER		NE 1/2 - 1 (0.932 mi.)	119	439

CA BOND EXP. PLAN: Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

A review of the CA BOND EXP. PLAN list, as provided by EDR, and dated 01/01/1989 has revealed that there is 1 CA BOND EXP. PLAN site within approximately 1 mile of the target property.

Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
SOUTHERN PACIFIC TRANSPORTATIO	1707 WOOD STREET	NE 1/2 - 1 (0.549 mi.)	AA93	329

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

A review of the Cortese list, as provided by EDR, and dated 07/01/2011 has revealed that there are 4 Cortese sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
JENKINS AUTO WRECKERS	1778 10TH STREET	ENE 1/8 - 1/4 (0.146 mi.)	G18	77

Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
OAKLAND GATEWAY DEVELOPMENT AR	700 MURMANSK STREET, SU	NW 1/8 - 1/4 (0.211 mi.)	M44	122
OAKLAND ARMY BASE	***2475-D WEST 12TH STREET***	***NW 1/4 - 1/2 (0.406 mi.)***	***X75***	***239***
PORT OF OAKLAND - FORMER OAKLA	***MARITIME STREET AND 14T***	***NW 1/4 - 1/2 (0.469 mi.)***	***82***	***308***

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES].

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 20 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
PEP BOYS	1818 SHOREY	S 0 - 1/8 (0.072 mi.)	D7	59
GOSSWOOD HOUSING ASSOCIAT	***1751 GOSS***	***SSE 1/8 - 1/4 (0.157 mi.)***	***21***	***80***
CHURCH'S FRIED CHICKEN	***1766 7TH***	***S 1/8 - 1/4 (0.171 mi.)***	***I26***	***83***
UNITED STATES POSTAL SERVICE,	***1675 7TH ST***	***SE 1/4 - 1/2 (0.292 mi.)***	***R62***	***208***
RELIABLE HANDI CAR	***1520 7TH***	***SE 1/4 - 1/2 (0.471 mi.)***	***83***	***313***

Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
PHOENIX IRON WORKS	***888 CEDAR***	***NE 0 - 1/8 (0.100 mi.)***	***E11***	***68***
GLOBE METALS COMPANY	182010TH	NE 1/8 - 1/4 (0.125 mi.)	F13	71
LIPS PROPELLERS	***1899 7TH***	***SW 1/8 - 1/4 (0.194 mi.)***	***K30***	***100***
BONNELLI ENTERPRISES	***1111 PINE***	***NE 1/8 - 1/4 (0.198 mi.)***	***J34***	***106***
SOUTHERN PACIFIC TRANS CO	1912 7TH	WSW 1/8 - 1/4 (0.203 mi.)	K37	112
CAL-EAST FOODS	***505 CEDAR STREET***	***S 1/8 - 1/4 (0.234 mi.)***	***O48***	***170***
PHOENIX 524 PROPERTY	***524 CEDAR STREET***	***SSE 1/8 - 1/4 (0.238 mi.)***	***O49***	***177***
VACANT BUILDING ON 5TH STREET	***1851 5TH STREET***	***SW 1/8 - 1/4 (0.245 mi.)***	***P51***	***183***
SOUTHERN PACIFIC DESERT Y	***515 BAY***	***SSW 1/8 - 1/4 (0.247 mi.)***	***Q57***	***196***
SPT CO LOCO FUEL PLANT WD	***UNKNOWN PINE ST FOOT OF***	***SSW 1/4 - 1/2 (0.267 mi.)***	***59***	***202***
TAYLOR ROOF STRUCTURES	***1746 13TH***	***ENE 1/4 - 1/2 (0.354 mi.)***	***S64***	***216***
SOUTHERN PACIFIC TRANS CO	***1399 WOOD***	***NE 1/4 - 1/2 (0.384 mi.)***	***T67***	***219***
STEVEDORING SVCS OF AMERI	***1195 MARITIME***	***NW 1/4 - 1/2 (0.452 mi.)***	***Y78***	***296***
UTILITY TRUCK BODIES	***1530 WOOD ST***	***NE 1/4 - 1/2 (0.453 mi.)***	***80***	***303***
BASF CORPORATION	1545 WILLOW	ENE 1/4 - 1/2 (0.489 mi.)	Z84	314

Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the Notify 65 list, as provided by EDR, and dated 10/21/1993 has revealed that there are 7 Notify 65 sites within approximately 1 mile of the target property.

Equal/Higher Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
NABISCO BRANDS, INC.	1267 14TH STREET	E 1/2 - 1 (0.803 mi.)	AC110	388

Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
TAYLOR ROOF STRUCTURES	1769 13TH STREET	ENE 1/4 - 1/2 (0.345 mi.)	S63	216
FORMER PAKER WAREHOUSE	***801 MARITIME***	***W 1/2 - 1 (0.501 mi.)***	***88***	***319***
SEA-LAND SERVICE, INC.	***1425 MARITIME STREET***	***N 1/2 - 1 (0.634 mi.)***	***98***	***341***
MARINE TERMINAL	1195 MARITIME	WNW 1/2 - 1 (0.669 mi.)	100	348
BUILDING 331 EAST	7 MERRITIME	NNE 1/2 - 1 (0.729 mi.)	105	368
C-103 YARD	2700 7TH STEET	W 1/2 - 1 (0.906 mi.)	118	439

EXECUTIVE SUMMARY

EDR PROPRIETARY RECORDS

EDR Proprietary Records

EDR Historical Auto Stations: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

A review of the EDR Historical Auto Stations list, as provided by EDR, has revealed that there are 2 EDR Historical Auto Stations sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EDO S AUTOMOTIVE	1807 SHOREY ST	S 0 - 1/8 (0.075 mi.)	D9	63
DAHL SAML	1775 7TH ST	S 1/8 - 1/4 (0.169 mi.)	I25	82

EDR Historical Cleaners: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

A review of the EDR Historical Cleaners list, as provided by EDR, has revealed that there are 9 EDR Historical Cleaners sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SUNLIGHT CLEANERS	801 WOOD ST	SSE 1/8 - 1/4 (0.139 mi.)	16	73
MIYAKE TAKITARO	1796 7TH ST	S 1/8 - 1/4 (0.147 mi.)	H20	79
RAMSAY GRANT	1777 7TH ST	S 1/8 - 1/4 (0.169 mi.)	I24	82
RITCHEY GUS	1753 7TH ST	S 1/8 - 1/4 (0.177 mi.)	I28	89
LOUSTALET M A MRS	1735 10TH ST	E 1/8 - 1/4 (0.196 mi.)	31	105
HOSHISAKI S	1725 7TH ST	SSE 1/8 - 1/4 (0.224 mi.)	N46	170
KONDO SEKI	1726 7TH ST	SSE 1/8 - 1/4 (0.227 mi.)	N47	170

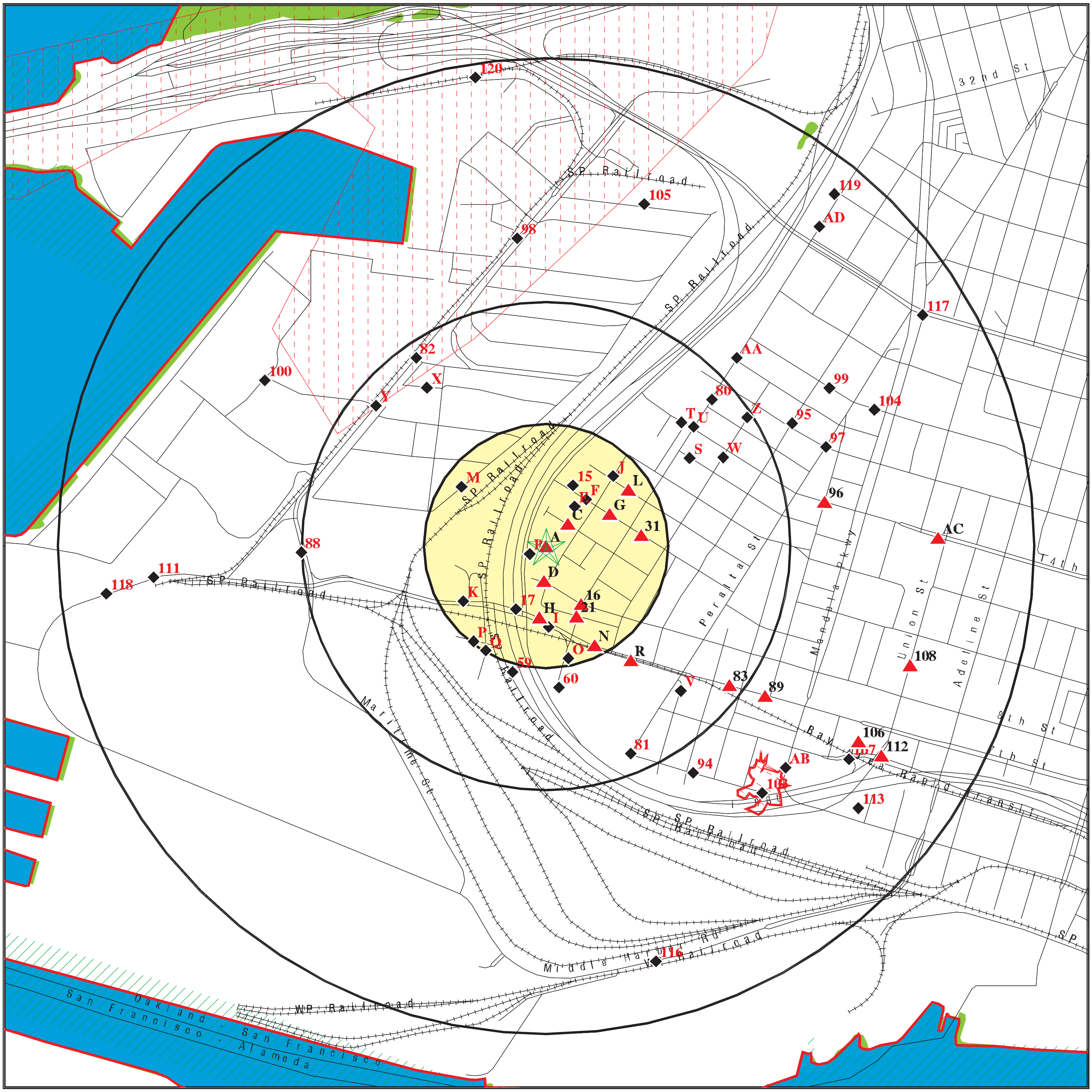
Lower Elevation	Address	Direction / Distance	Map ID	Page
L AND E CLEANERS	1791 7TH ST	S 1/8 - 1/4 (0.165 mi.)	H22	82
SAPATA LEONIDES	1787 7TH ST	S 1/8 - 1/4 (0.166 mi.)	I23	82

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 38 records.

Site Name	Database(s)
PHOENIX 766 PROPERTY	HIST CORTESE, VCP, ENVIROSTOR
SOUTHERN PACIFIC	HIST CORTESE, LUST, CA FID UST, Alameda County CS, SWEEPS UST
OAKLAND CITY OF PARKING S	HIST CORTESE
SOUTHERN PACIFIC RAILYARD	HIST CORTESE
BART MAINTENANCE FACILITY	HIST CORTESE
VACANT LOT	HIST CORTESE
SOUTHERN PACIFIC TRANSPORT COMPANY	HIST CORTESE, LUST
CALTRANS EAST BAY SERVICE ROAD TEN	Alameda County CS
UNION PACIFIC RAILROAD/SPT CO LOCO	Alameda County CS
CITY OF OAKLAND POLICE STATION	Alameda County CS
CALTRANS CYPRESS PROJECT	Alameda County CS
BAYPORTE VILLAGE (ACORN II APARTME	Alameda County CS
BNSF WOOD STREET YARD	HIST Cal-Sites, DEED, RESPONSE, ENVIROSTOR
IKEA (FORMER BARBARY COAST)	HIST Cal-Sites, Cortese, DEED, EMI
EBMUD POLLUTION CONTRL PLANT	LUST, CHMIRS
FOSTER’S PLATING	CERCLIS
EMERYVILLE MARKETPLACE	CERC-NFRAP
CAPITOL REF CO	CERC-NFRAP
PG&E GAS PLANT OAKLAND 601 2	CERC-NFRAP
EAST BAY MUNICIPAL UTILITY DISTRIC	SWF/LF
GREYHOUND LINE INC	LUST
OAKLAND OEDE CITY OF	LUST, SLIC
SOUTHERN PACIFIC RAILYARD	LUST
P*I*E NATIONWIDE, INC.	HIST UST
RYDER/PIE NATIONWIDE, INC.	HIST UST
JUDSON STEEL CORPORATION	HIST UST
STEAM PLANT, W.O. DIESEL SHOP	HIST UST
OAKLAND TERMINAL	AST
DEPARTMENT OF TRANSPORTATION	RCRA-SQG, HAZNET
CALTRANS DIST 4 OAKLAND TOUCHDOWN	RCRA-LQG
5TH AND CEDAR	ERNS
7TH AND CEDAR STS	ERNS
OAKLAND TERMINAL RAILWAY PROPERTY	SLIC
UNION PACIFIC RAILROAD - 5TH AND U	SLIC
UNION PACIFIC RAILROAD/SPT CO LOCO	SLIC
BAY BRIDGE TOLL PLAZA	SLIC
OAKLAND CITY OF	SLIC
ST ALBANS SENIOR CENTER	ENVIROSTOR

OVERVIEW MAP - 3170104.2s



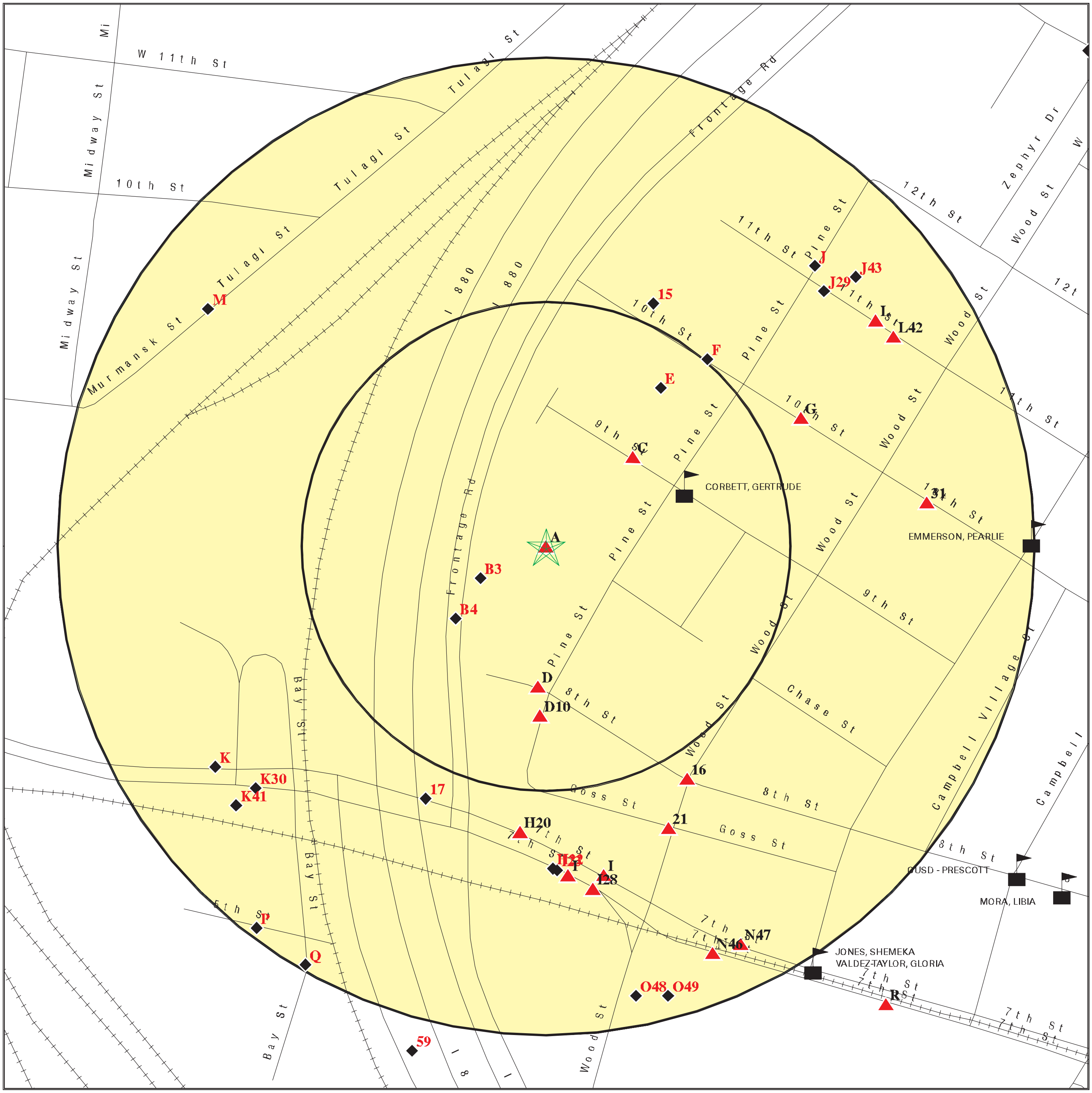
0 1/4 1/2 1 Miles

- ☆ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ♟ Manufactured Gas Plants
- ▨ National Priority List Sites
- ▨ Dept. Defense Sites
- ▨ Indian Reservations BIA
- ╱ County Boundary
- ╱ Oil & Gas pipelines from USGS
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- 🟩 National Wetland Inventory
- ▦ Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	800 Cedar	CLIENT:	Northgate Env. Management Inc.
ADDRESS:	800 Cedar Street Oakland CA 94607	CONTACT:	Anya Starovoytov
		INQUIRY #:	3170104.2s
LAT/LONG:	37.8098 / 122.3033	DATE:	September 20, 2011 6:04 pm

DETAIL MAP - 3170104.2s



0 1/16 1/8 1/4 Miles

☆ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

♟ Manufactured Gas Plants

⚑ Sensitive Receptors

▨ National Priority List Sites

▨ Dept. Defense Sites

▨ Indian Reservations BIA

〰 Oil & Gas pipelines from USGS

▨ 100-year flood zone

▨ 500-year flood zone

▦ Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 800 Cedar
ADDRESS: 800 Cedar Street
Oakland CA 94607
LAT/LONG: 37.8098 / 122.3033

CLIENT: Northgate Env. Management Inc.
CONTACT: Anya Starovoytov
INQUIRY #: 3170104.2s
DATE: September 20, 2011 6:05 pm

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL		1.000	0	0	0	1	NR	1
Proposed NPL		1.000	0	0	0	0	NR	0
NPL LIENS		TP	NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL		1.000	0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS		0.500	0	1	1	NR	NR	2
FEDERAL FACILITY		1.000	0	0	0	0	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP		0.500	1	0	2	NR	NR	3
Federal RCRA CORRACTS facilities list								
CORRACTS		1.000	0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF		0.500	0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG		0.250	0	0	NR	NR	NR	0
RCRA-SQG	X	0.250	1	5	NR	NR	NR	6
RCRA-CESQG		0.250	0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
Federal ERNS list								
ERNS		TP	NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE		1.000	1	3	3	4	NR	11
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	X	1.000	4	9	9	24	NR	46
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF		0.500	0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST		0.500	1	8	9	NR	NR	18
SLIC		0.500	0	1	4	NR	NR	5

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Alameda County CS		0.500	1	7	7	NR	NR	15
INDIAN LUST		0.500	0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST		0.250	0	0	NR	NR	NR	0
AST		0.250	0	1	NR	NR	NR	1
INDIAN UST		0.250	0	0	NR	NR	NR	0
FEMA UST		0.250	0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	X	0.500	2	6	4	NR	NR	12
INDIAN VCP		0.500	0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS		0.500	0	0	1	NR	NR	1
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
HAULERS		TP	NR	NR	NR	NR	NR	0
INDIAN ODI		0.500	0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL		TP	NR	NR	NR	NR	NR	0
HIST Cal-Sites		1.000	0	2	2	4	NR	8
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	2	NR	2
CDL		TP	NR	NR	NR	NR	NR	0
US HIST CDL		TP	NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA FID UST		0.250	1	4	NR	NR	NR	5
HIST UST		0.250	1	6	NR	NR	NR	7
SWEEPS UST		0.250	1	7	NR	NR	NR	8
Local Land Records								
LIENS 2		TP	NR	NR	NR	NR	NR	0
LUCIS		0.500	0	0	0	NR	NR	0
LIENS		TP	NR	NR	NR	NR	NR	0
DEED		0.500	0	0	1	NR	NR	1
Records of Emergency Release Reports								
HMIRS		TP	NR	NR	NR	NR	NR	0
CHMIRS		TP	NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LDS		TP	NR	NR	NR	NR	NR	0
MCS		TP	NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA-NonGen		0.250	0	0	NR	NR	NR	0
DOT OPS		TP	NR	NR	NR	NR	NR	0
DOD		1.000	0	0	1	0	NR	1
FUDS		1.000	0	0	0	1	NR	1
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
HIST FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
FINDS	X	TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
CA BOND EXP. PLAN		1.000	0	0	0	1	NR	1
WDS		TP	NR	NR	NR	NR	NR	0
NPDES		TP	NR	NR	NR	NR	NR	0
Cortese		0.500	0	2	2	NR	NR	4
HIST CORTESE		0.500	2	10	8	NR	NR	20
Notify 65		1.000	0	0	1	6	NR	7
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
HAZNET	X	TP	NR	NR	NR	NR	NR	0
EMI		TP	NR	NR	NR	NR	NR	0
INDIAN RESERV		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0
HWP		1.000	0	0	0	0	NR	0
HWT		0.250	0	0	NR	NR	NR	0
COAL ASH EPA		0.500	0	0	0	NR	NR	0
FINANCIAL ASSURANCE		TP	NR	NR	NR	NR	NR	0
PCB TRANSFORMER		TP	NR	NR	NR	NR	NR	0
PROC		0.500	0	0	0	NR	NR	0
MWMP		0.250	0	0	NR	NR	NR	0
COAL ASH DOE		TP	NR	NR	NR	NR	NR	0
EDR PROPRIETARY RECORDS								
EDR Proprietary Records								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		0.250	1	1	NR	NR	NR	2
EDR Historical Cleaners		0.250	0	9	NR	NR	NR	9

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
Target
Property

PHOENIX 800 PROPERTY
800 CEDAR STREET
OAKLAND, CA 94607

FINDS

1010726461
N/A

Site 1 of 2 in cluster A

Actual:
14 ft.

FINDS:

Registry ID: 110033611517

Environmental Interest/Information System
California Department of Toxic Substances Control EnviroStor System (DTSC-EnviroStor) is an online search and Geographic Information System (GIS) tool for identifying sites that have known contamination or sites for which there may be reasons to investigate further. The EnviroStor database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites.

A2
Target
Property

CALTRANS
800 CEDAR ST
OAKLAND, CA 94607

RCRA-SQG
FINDS
VCP
HAZNET
ENVIROSTOR

1001111632
CAR000011692

Site 2 of 2 in cluster A

Actual:
14 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: CALTRANS
Facility address: 800 CEDAR ST
OAKLAND, CA 94607
EPA ID: CAR000011692
Mailing address: P O BOX 23360
OAKLAND, CA 946230660
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: CALTRANS
Owner/operator address: P O BOX 23360
OAKLAND, CA 94623
Owner/operator country: Not reported
Owner/operator telephone: (510) 286-5651
Legal status: State
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

CALTRANS (Continued) **1001111632**

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110002911608

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

VCP:

Facility ID:	01330037
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	5.51
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	JACINTO SOTO
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	200350
Assembly:	16
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Inactive - Needs Evaluation
Status Date:	09/03/2010
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.8097029817399 / -122.303367589819
APN:	6-47-1
Past Use:	MANUFACTURING - METAL, MANUFACTURING - OTHER
Potential COC:	30024

CALTRANS (Continued) **1001111632**

Confirmed COC: 30024
Potential Description: SOIL
Alias Name: CALTRANS 880/CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: INDEPENDENT IRON WORKS
Alias Type: Alternate Name
Alias Name: PHOENIX PROPERTIES
Alias Type: Alternate Name
Alias Name: 6-47-1
Alias Type: APN
Alias Name: 110033611517
Alias Type: EPA (FRS #)
Alias Name: 200350
Alias Type: Project Code (Site Code)
Alias Name: 01330037
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/07/1999
Comments: Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 01/13/1998
Comments: Approved Removal Action report excavating 104 cubic yards of contaminated soil.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 10/02/1995
Comments: Approved RAW covering hotspot soil removal and building demolition.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/02/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 10/28/1992
Comments: Approval of Site Investigation Report - Area 4. Soils at the site were found to be contaminated with elevated levels of TPH-d.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 08/15/2002
Comments: Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

CALTRANS (Continued) **1001111632**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Removal Action Completion Report
Future Due Date: 2012
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2013
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2012
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: CEQA - Initial Study/ Environmental Impact Report
Schedule Due Date: 12/28/2011
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Removal Action Workplan
Schedule Due Date: 12/28/2011
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Public Notice
Schedule Due Date: 10/31/2011
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Operations and Maintenance Plan
Schedule Due Date: 2/23/2012
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Fact Sheets
Schedule Due Date: 10/29/2011
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Investigation Report
Schedule Due Date: 7/14/2011
Schedule Revised Date: Not reported

HAZNET:
Year: 2000
Gepaid: CAC001479328

CALTRANS (Continued) **1001111632**

Contact: DEPT OF TRANSPORTATION
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 111 GRAND AVE 14TH FL
Mailing City,St,Zip: OAKLAND, CA 946230000
Gen County: 1
TSD EPA ID: CAD008302903
TSD County: Los Angeles
Waste Category: Contaminated soil from site clean-up
Disposal Method: H01
Tons: 1.7500
Facility County: 1

Year: 1996
Gepaid: CAP600929029
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: Not reported
Mailing City,St,Zip: 000000000
Gen County: 0
TSD EPA ID: CAD980675276
TSD County: Kern
Waste Category: Contaminated soil from site clean-up
Disposal Method: T01
Tons: 3436.1706
Facility County: 0

Year: 1996
Gepaid: CAP600929029
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: Not reported
Mailing City,St,Zip: 000000000
Gen County: 0
TSD EPA ID: CAD980675276
TSD County: Kern
Waste Category: Contaminated soil from site clean-up
Disposal Method: ***
Tons: 30.3408
Facility County: 0

Year: 1995
Gepaid: CAC001029656
Contact: CALTRANS
Telephone: 5102865651
Mailing Name: Not reported
Mailing Address: PO BOX 23660
Mailing City,St,Zip: OAKLAND, CA 946230660
Gen County: 1
TSD EPA ID: CAT000646117
TSD County: Kings
Waste Category: Empty containers less than 30 gallons
Disposal Method: D80
Tons: 8.4280
Facility County: 1

CALTRANS (Continued) **1001111632**

Year: 1995
Gepaid: CAP600929029
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: Not reported
Mailing City,St,Zip: 000000000
Gen County: 0
TSD EPA ID: CAD083166728
TSD County: Stanislaus
Waste Category: Unspecified oil-containing waste
Disposal Method: R01
Tons: 2.2768
Facility County: 0

Click this hyperlink while viewing on your computer to access
10 additional CA_HAZNET: record(s) in the EDR Site Report.

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 5.51
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: JACINTO SOTO
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 01330037
Site Code: 200350
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program
Status: Inactive - Needs Evaluation
Status Date: 09/03/2010
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8097029817399
Longitude: -122.303367589819
APN: 6-47-1
Past Use: MANUFACTURING - METAL, MANUFACTURING - OTHER
Potential COC: 30024
Confirmed COC: 30024
Potential Description: SOIL
Alias Name: CALTRANS 880/CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: INDEPENDENT IRON WORKS
Alias Type: Alternate Name
Alias Name: PHOENIX PROPERTIES
Alias Type: Alternate Name
Alias Name: 6-47-1
Alias Type: APN
Alias Name: 110033611517
Alias Type: EPA (FRS #)
Alias Name: 200350
Alias Type: Project Code (Site Code)

CALTRANS (Continued) **1001111632**

Alias Name:	01330037
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	01/07/1999
Comments:	Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	01/13/1998
Comments:	Approved Removal Action report excavating 104 cubic yards of contaminated soil.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	10/02/1995
Comments:	Approved RAW covering hotspot soil removal and building demolition.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	05/02/1994
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	10/28/1992
Comments:	Approval of Site Investigation Report - Area 4. Soils at the site were found to be contaminated with elevated levels of TPH-d.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	08/15/2002
Comments:	Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Removal Action Completion Report

CALTRANS (Continued) **1001111632**

Future Due Date: 2012
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2013
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2012
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: CEQA - Initial Study/ Environmental Impact Report
Schedule Due Date: 12/28/2011
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Removal Action Workplan
Schedule Due Date: 12/28/2011
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Public Notice
Schedule Due Date: 10/31/2011
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Operations and Maintenance Plan
Schedule Due Date: 2/23/2012
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Fact Sheets
Schedule Due Date: 10/29/2011
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Investigation Report
Schedule Due Date: 7/14/2011
Schedule Revised Date: Not reported

DOD **OAKLAND ARMY BASE (CLOSED)** **DOD** **CUSA136080**
Region **N/A**
NW **OAKLAND ARMY BASE (CLOSED (County), CA**
1/4-1/2
2288 ft.

DOD:
Feature 1: Army DOD
Feature 2: Not reported
Feature 3: Not reported
URL: Not reported
Name 1: Oakland Army Base (Closed)
Name 2: Not reported
Name 3: Not reported
State: CA
DOD Site: Yes
Tile name: CAALAMEDA

NPL **Region** **SE** **1/2-1** **3243 ft.**	**AMCO CHEMICAL** **1414 THIRD STREET** **OAKLAND, CA 94607**	**NPL** **CERCLIS** **HIST Cal-Sites** **Cortese** **ENVIROSTOR**	**1001115054** **CA0001576081**

NPL:

EPA ID:	CA0001576081
EPA Region:	09
Federal:	N
Final Date:	2003-09-29 00:00:00

Category Details:

NPL Status:	Currently on the Final NPL
Category Description:	Surface Water Adjacent To Site-Wetland-Unknown
Category Value:	U

Site Details:

Site Name:	AMCO CHEMICAL
Site Status:	Final
Site Zip:	94607
Site City:	OAKLAND
Site State:	CA
Federal Site:	No
Site County:	ALAMEDA
EPA Region:	09
Date Proposed:	04/30/03
Date Deleted:	Not reported
Date Finalized:	09/29/03

Substance Details:

NPL Status:	Currently on the Final NPL
Substance ID:	Not reported
Substance:	Not reported
CAS #:	Not reported
Pathway:	Not reported
Scoring:	Not reported

NPL Status:	Currently on the Final NPL
Substance ID:	A054
Substance:	TRICHLOROBENZENE, 1,2,4-
CAS #:	120-82-1
Pathway:	NO PATHWAY INDICATED
Scoring:	1

NPL Status:	Currently on the Final NPL
Substance ID:	C266
Substance:	ETHYL CHLORIDE
CAS #:	75-00-3
Pathway:	NO PATHWAY INDICATED
Scoring:	1

NPL Status:	Currently on the Final NPL
Substance ID:	C324
Substance:	CIS-1,2-DICHLOROETHYLENE
CAS #:	156-59-2
Pathway:	NO PATHWAY INDICATED
Scoring:	1

AMCO CHEMICAL (Continued) **1001115054**

NPL Status: Currently on the Final NPL
Substance ID: C424
Substance: TRIMETHYLBENZENE, 1,2,4-
CAS #: 95-63-6
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: C537
Substance: TRIMETHYLBENZENE, 1,3,5-
CAS #: 108-67-8
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: C616
Substance: TRICHLOROBENZENE, 1,2,3-
CAS #: 87-61-6
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U037
Substance: CHLOROBENZENE
CAS #: 108-90-7
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U043
Substance: VINYL CHLORIDE
CAS #: 75-01-4
Pathway: AIR PATHWAY
Scoring: 4

NPL Status: Currently on the Final NPL
Substance ID: U070
Substance: DICHLOROBENZENE, 1,2-
CAS #: 95-50-1
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U071
Substance: DICHLOROBENZENE, 1,3-
CAS #: 541-73-1
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U072
Substance: DICHLOROBENZENE, 1,4-
CAS #: 106-46-7
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL

AMCO CHEMICAL (Continued) **1001115054**

Substance ID: U076
Substance: DICHLOROETHANE, 1,1-
CAS #: 75-34-3
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U077
Substance: DICHLOROETHANE, 1,2-
CAS #: 107-06-2
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U080
Substance: METHYLENE CHLORIDE
CAS #: 75-09-2
Pathway: AIR PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U161
Substance: METHYL ISOBUTYL KETONE
CAS #: 108-10-1
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U165
Substance: NAPHTHALENE
CAS #: 91-20-3
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U210
Substance: TETRACHLOROETHENE
CAS #: 127-18-4
Pathway: AIR PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U226
Substance: TRICHLOROETHANE, 1,1,1-
CAS #: 71-55-6
Pathway: AIR PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U228
Substance: TRICHLOROETHYLENE (TCE)
CAS #: 79-01-6
Pathway: AIR PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: Z003

AMCO CHEMICAL (Continued) **1001115054**

Substance:	BUTYLBENZENE,SEC-
CAS #:	135-98-8
Pathway:	NO PATHWAY INDICATED
Scoring:	1
NPL Status:	Currently on the Final NPL
Substance ID:	Z009
Substance:	ISOPROPYLBENZENE
CAS #:	98-82-8
Pathway:	NO PATHWAY INDICATED
Scoring:	1
NPL Status:	Currently on the Final NPL
Substance ID:	Z010
Substance:	ISOPROPYLTOLUENE,P-
CAS #:	25155-15-1
Pathway:	NO PATHWAY INDICATED
Scoring:	1
NPL Status:	Currently on the Final NPL
Substance ID:	Z014
Substance:	PROPYLBENZENE,N-
CAS #:	103-65-1
Pathway:	NO PATHWAY INDICATED
Scoring:	1

Summary Details:

Conditions at Proposal April 30, 2003): The AMCO Chemical site AMCO) is part of a 0.83-acre property at 1414 Third Street in a mixed residential and light industrial area of Oakland, California. The property is bordered on the north by a vacant lot, on the west by residences, on the east by Nelson Mandela Parkway, and on the south by Third Street. A recently constructed elevated portion of the Interstate-880 I-880) freeway is located immediately across Third Street from the property.The property at 1401 Third Street) was historically occupied by Bobo s Junkyard. From the 1960s to 1989, the AMCO site was occupied by AMCO Chemical Company. AMCO operated a chemical distribution facility that included a warehouse, railroadspur, above-ground tanks, underground tanks, and drums used to transfer and store raw materials. In July 1988, the Oakland Fire Department observed leaking/rotting drums on the property. A subsequent emergency response investigation by AlamedaCounty and the U.S. Coast Guard revealed greater than 100 full and empty 5- and 55-gallon weathered drums in an open area behind AMCO Chemical s main building. Stenciled labels on the drums indicated that the contents included acetone; 1,1,1-trichloroethane 1,1,1-TCA); methyl ethyl ketone; and dry-cleaning solvent. From 1989 to November 1998, DC Metals operated a scrap metal yard on the site. Cable Moore, Inc., currently uses the site for cable storage. Structures remaining on site include an office building, warehouse, and two small storage buildings. In June 1995, a construction crew noted odors at the intersection of Third Street and Nelson Mandela Parkway, while excavating a trench needed to relocate an underground electrical line in preparation for a freeway project. Subsequent subsurface investigation by California Department of Transportation Caltrans), DC Metals, and EPA revealed the presence of volatile organic compounds VOCs) including vinyl chloride in soil, soilgas, and shallow ground water at the AMCO site, beneath Third Street, and at the 1401 Third Street property former Bobo s Junkyard). On December 5, 1996, the EPA Emergency Response Office initiated a removal action at the AMCO site that involved the construction of a ground water and soil vapor extraction

AMCO CHEMICAL (Continued) **1001115054**

SVE) treatment system. The EPA treatment system collection trench was excavated from December 5 through December 20, 1996. By December 23, 1996, the trench had been lined with a silt curtain, filled with gravel, and covered with a tarp. Cement was poured to permanently cover the trench on January 8, 1997. The treatment system operated from January 1997 through July 1998 and extracted approximately 7,000 pounds of VOCs, approximately 40 pounds of which were vinyl chloride. Operation of the system ceased in July 1998, due to community concern over the potential for a release of dioxins from the thermal oxidation unit. On December 5 and 14, 1996, during construction of the treatment system collection trench, the EPA On-Scene Coordinator observed shimmering vapors emanating from the open trench. SUMMA tm) canister sampling indicated the presence of vinyl chloride; methylene chloride; 1,1,1-trichloroethane TCA); and trichloroethene TCE) in the immediate area of the trench. In addition, one SUMMA canister sample collected from in front of a residence adjacent to the site contained TCE. The EPA conducted several sampling events on and adjacentto the AMCO site between 1997 and 2000. VOCs continued to be detected in soil, soil gas, and ground water on site. In September 1999, SUMMA canister samples were collected from the crawl spaces of three residences located adjacent to the site. Vinyl chloride was detected in the three crawl spaces at 0.02 to 0.045 parts per billion by volume ppbv). There are 626 people living within a quarter of a mile of the source. There are also approximately three workers on site. Status September 2003):EPA is considering various alternatives for this site. The description of the site release) is based on information available at the time the site was evaluated with the HRS. The description may change as additional information is gathered on the sources and extent of contamination. See 56 FR 5600, February 11, 1991, or subsequent FR notices. For more information about the ha ardous substances identified in this narrative summary, including general information regarding the effects of exposure to these substances on human health, please see the Agency for Toxic Substances and Disease Registry ATSDR) ToxFAQs. ATSDR ToxFAQs can be found on the Internet at http://www.atsdr.cdc.gov/toxfaq.html or by telephone at 1-888-42-ATSDR or 1-888-422-8737.

Site Status Details:

NPL Status:	Proposed
Proposed Date:	04/30/2003
Final Date:	Not reported
Deleted Date:	Not reported

Narratives Details:

NPL Name:	AMCO CHEMICAL
City:	OAKLAND
State:	CA

CERCLIS:

Site ID:	0905334
EPA ID:	CA0001576081
Facility County:	ALAMEDA
Short Name:	AMCO CHEMICAL
Congressional District:	08
IFMS ID:	09DJ
SMSA Number:	7360
USGC Hydro Unit:	18050004
Federal Facility:	Not a Federal Facility
DMNSN Number:	Not reported

AMCO CHEMICAL (Continued) **1001115054**

Site Orphan Flag: N
RCRA ID: Not reported
USGS Quadrangle: Not reported
Site Init By Prog: Not reported
NFRAP Flag: Not reported
Parent ID: Not reported
RST Code: Not reported
EPA Region: 09
Classification: Other
Site Settings Code: Not reported
NPL Status: Currently on the Final NPL
DMNSN Unit Code: Not reported
RBRAC Code: Not reported
RResp Fed Agency Code: Not reported
Non NPL Status: Not reported
Non NPL Status Date: Not reported
Site Fips Code: 06001
CC Concurrence Date: Not reported
CC Concurrence FY: Not reported
Alias EPA ID: Not reported
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):
Contact ID: 9271184.00000
Contact Name: Karen Jurist
Contact Tel: (415) 972-3219
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 9270048.00000
Contact Name: Jeff Inglis
Contact Tel: (415) 972-3095
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 13002167.00000
Contact Name: Carl Brickner
Contact Tel: (415) 972-3814
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 9000056.00000
Contact Name: Rosemarie Caraway
Contact Tel: (415) 972-3158
Contact Title: Remedial Project Manager (RPM)
Contact Email: Not reported

Contact ID: 9270438.00000
Contact Name: Dawn Richmond
Contact Tel: (415) 972-3097
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

CERCLIS Site Alias Name(s):
Alias ID: 101
Alias Name: D C METALS

AMCO CHEMICAL (Continued) **1001115054**

Alias Address: 1414 THIRD STREET
OAKLAND, CA 94607
Alias ID: 102
Alias Name: AMCO CHEMICAL
Alias Address: 1414 THIRD STREET
OAKLAND, CA 94607
Alias ID: 101
Alias Comments: THIS SITE LISTED IN CERCLIS AS D C METALS UNTIL 6/20/01. SITE NAME CHANGED TO AMCO CHEMICALS AT RACHEL LOFTIN'S REQUEST.
Site Description: Site listed as D C Metals in CERCLIS until 6/20/01. Site name changed to AMCO Chemical at Rachel Loftin's request.

CERCLIS Assessment History:

Action Code: 001
Action: DISCOVERY
Date Started: Not reported
Date Completed: 10/17/1996
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: ADMINISTRATIVE RECORDS
Date Started: 01/27/1997
Date Completed: 01/27/1997
Priority Level: Admin Record Compiled for a Removal Event
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: INFORMATION REPOSITORY ESTABLISHED
Date Started: Not reported
Date Completed: 01/27/1997
Priority Level: Not reported
Operable Unit: OPERABLE UNIT 001
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: REMOVAL
Date Started: 12/02/1996
Date Completed: 07/31/1998
Priority Level: Cleaned up
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary

AMCO CHEMICAL (Continued) **1001115054**

Urgency Indicator: Time Critical
Action Anomaly: Not reported

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Action Code:	001
Action:	COMBINED PRELIMINARY ASSESSMENT/SITE INSPECTION
Date Started:	10/17/1996
Date Completed:	10/11/2001
Priority Level:	Higher priority for further assessment
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

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Action Code:	001
Action:	COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started:	03/07/2002
Date Completed:	Not reported
Priority Level:	Not reported
Operable Unit:	OPERABLE UNIT 001
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

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AMCO CHEMICAL (Continued) **1001115054**

Action Code: 001
Action: PROPOSAL TO NATIONAL PRIORITIES LIST
Date Started: Not reported
Date Completed: 04/30/2003
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: Public Notice Published
Date Started: Not reported
Date Completed: 04/30/2003
Priority Level: Not reported
Operable Unit: OPERABLE UNIT 001
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: ISSUE REQUEST LETTERS (104E)
Date Started: Not reported
Date Completed: 09/05/2003
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: NON-NATIONAL PRIORITIES LIST POTENTIALLY RESPONSIBLE PARTY SEARCH
Date Started: 10/02/1996
Date Completed: 09/26/2003
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

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Action Code: 001
Action: FINAL LISTING ON NATIONAL PRIORITIES LIST
Date Started: Not reported
Date Completed: 09/29/2003
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported

AMCO CHEMICAL (Continued) **1001115054**

Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: TECHNICAL ASSISTANCE GRANT
Date Started: 03/31/2004
Date Completed: Not reported
Priority Level: Not reported
Operable Unit: OPERABLE UNIT 001
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

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Action Code: 001
Action: HEALTH ASSESSMENT

AMCO CHEMICAL (Continued) **1001115054**

Date Started:	07/03/2003
Date Completed:	09/22/2005
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	State, Fund Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	002
Action:	REMOVAL
Date Started:	07/23/2007
Date Completed:	09/19/2007
Priority Level:	Cleaned up
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Approved
Urgency Indicator:	Time Critical
Action Anomaly:	Not reported

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Action Code: 003
Action: REMOVAL
Date Started: 10/26/2009
Date Completed: 11/30/2009
Priority Level: Cleaned up
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Time Critical
Action Anomaly: Not reported

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Federal Register Details:

Fed Register Date:	09/29/2003
Fed Register Volume:	68
Page Number:	55875
Fed Register Date:	04/30/2003
Fed Register Volume:	68
Page Number:	23094

Click this hyperlink while viewing on your computer to access
918 additional US CERCLIS Financial: record(s) in the EDR Site Report.

HISTORICAL CAL-SITES:

Facility ID:	01390001
Region:	2
Region Name:	BERKELEY
Branch:	NC
Branch Name:	NORTH COAST
File Name:	DC METALS
State Senate District:	05012002
Status:	AWP - ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency:	EPA
Lead Agency:	ENVIRONMENTAL PROTECTION AGENCY
Facility Type:	NPJF
Type Name:	NPL SITE, JOINT STATE/FEDERAL-FUNDED
NPL:	Listed
SIC Code:	39
SIC Name:	MISCELLANEOUS MANUFACTURING INDUSTRIES
Access:	Controlled

AMCO CHEMICAL (Continued) **1001115054**

Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Confirmed
Staff Member Responsible for Site: LNAKASHI
Supervisor Responsible for Site: Not reported
Region Water Control Board: SF
Region Water Control Board Name: SAN FRANCISCO BAY
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 16
State Senate District Code: 09
Facility ID: 01390001
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 04261996
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01390001
Activity: ENFFU
Activity Name: ENFORCEMENT FOLLOW UP, AG OR DA REFERRAL, ETC.
AWP Code: SFACT
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 01171997
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported

AMCO CHEMICAL (Continued) **1001115054**

Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Alternate Address: 1414 THIRD STREET
Alternate City,St,Zip: OAKLAND, CA 94607
Background Info: The site was occupied by AMCO Chemical Corp. until December 1989. DTSC inspected the site on August 4, 1988. An order to Fence and Post the site was issued on August 8, 1988. On February 24, 1989 a Report of Violation was issued to correct violations related to leakage of hazardous waste from piping and containers; storage of hazardous waste in deteriorated or otherwise corroded conditions; and unlabeled waste containers. Soil and groundwater located outside of the site boundary were sampled by Caltrans and Southern Pacific Railroad. Elevated levels of VOC’s (vinyl chloride,1,1-DCE,PCE,1,1,1-TCA, 1,2-DCE), acetone, toluene and xylene have been found in soil and/or groundwater.
Comments Date: 04261996
Comments: DTSC issued an I or SE Order and RAO to the previous and current
Comments Date: 04261996
Comments: owner, and operator.
Comments Date: 04302003
Comments: US EPA proposed to list site on the National Priotrities List
Comments Date: 04302003
Comments: (NPL). US EPA implemented a removal action in 1997 to address
Comments Date: 04302003
Comments: high concentrations of vinyl chloride at or near the AMCO site.
Comments Date: 04302003
Comments: A groundwater extraction and treatment system and a soil vapor
Comments Date: 04302003
Comments: extraction system were installed to address the vinyl chloride
Comments Date: 04302003
Comments: and other contaminants found in shallow groundwater and soils.
Comments Date: 04302003
Comments: Operation of this system ceased in July 1998 due to community
Comments Date: 04302003
Comments: concerns. US EPA conducted several sampling events on and
Comments Date: 04302003
Comments: adjacent to the site between 1997 and 2002. VOCs continued to
Comments Date: 04302003
Comments: be detected in soil, soil gas and groundwater on the site.
Comments Date: 09292003
Comments: US EPA formally listed site on NPL. In August 2004, US EPA
Comments Date: 09292003
Comments: approved the Remedial Investigation Sampling and Analysis Plan.
Comments Date: 09292003
Comments: Investigation activities began in September 2004.
ID Name: EPA IDENTIFICATION NUMBER
ID Value: CAD009142324
ID Name: CALSTARS CODE
ID Value: 200687
Alternate Name: D.C. METALS, INC.DC METALSAMCO CHEMICALAMOCO CHEMICAL
Special Programs Code: Not reported
Special Programs Name: Not reported

AMCO CHEMICAL (Continued) **1001115054**

Cortese:
Region: CORTESE
Envirostor Id: 1390001
Site/Facility Type: FEDERAL SUPERFUND - LISTED
Cleanup Status: ACTIVE
Status Date: 5/1/2002
Site Code: 200687
Latitude: 37.8028387474033
Longitude: -122.294878140158
EPA Id: Not reported
Owner: Not reported
Enf Type: Not reported
Effective Date: Not reported
Order No: Not reported
Region: Not reported
WDID: Not reported
Swat R: Not reported
Waste Discharger System Num: Not reported
Solid Waste Id Num: Not reported
Waste Management Unit Name: Not reported
Agency Name: Not reported

ENVIROSTOR:
Site Type: Federal Superfund
Site Type Detailed: State Response or NPL
Acres: 0.83
NPL: YES
Regulatory Agencies: SMBRP, US EPA, CITY OF OAKLAND
Lead Agency: US EPA
Program Manager: LYNN NAKASHIMA
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Facility ID: 01390001
Site Code: 200687
Assembly: 16
Senate: 09
Special Program: EPA - Multi-Site Cooperative Agreement
Status: Active
Status Date: 05/01/2002
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Joint State/Federal-Funded
Latitude: 37.8028387474033
Longitude: -122.294878140158
APN: 004007301002
Past Use: TRANSFER STATION
Potential COC: 30022, 30024, 30027, 30028
Confirmed COC: 30022,30024,30027,30028
Potential Description: OTH, SOIL, SV, IA
Alias Name: AMOCO CHEMICAL
Alias Type: Alternate Name
Alias Name: D.C. METALS, INC.
Alias Type: Alternate Name
Alias Name: DC METALS
Alias Type: Alternate Name
Alias Name: 004007301002

AMCO CHEMICAL (Continued) **1001115054**

Alias Type: APN
Alias Name: CAD009142324
Alias Type: EPA Identification Number
Alias Name: 110002635462
Alias Type: EPA (FRS #)
Alias Name: T0600102206
Alias Type: GeoTracker Global ID
Alias Name: 200687
Alias Type: Project Code (Site Code)
Alias Name: 01390001
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 06/15/2009
Comments: Fact Sheet issued by U.S. EPA

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 05/01/2009
Comments: US EPA issued fact sheet seeking interest in establishing a Community Advisory Group

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 08/04/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 01/01/1997
Comments: US EPA implemented a removal action in 1997 to address high concentrations of vinyl chloride at or near the AMCO site. A groundwater extraction and treatment system and a soil vapor extraction system were installed to address the vinyl chloride and other contaminants found in shallow groundwater and soils. Operation of this system ceased in July 1998 due to community concerns. US EPA conducted several sampling events on and adjacent to the site between 1997 and 2002.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 04/26/1996
Comments: DTSC issued an I or SE Order and RAO to the previous and current owner, and operator.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Record of Decision
Future Due Date: 2014
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported

AMCO CHEMICAL (Continued) **1001115054**

Future Document Type: Feasibility Study Report
Future Due Date: 2013
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Proposed Plan
Future Due Date: 2013
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Investigation Report
Schedule Due Date: 3/30/2012
Schedule Revised Date: Not reported

B3
WSW
< 1/8
0.037 mi.
198 ft.

OCEAN CONLAINER SYSTEMS **RCRA-SQG** **1000150327**
801 CEDAR ST **FINDS** **CAD982338030**
OAKLAND, CA 94607

Site 1 of 2 in cluster B

Relative:
Lower

Actual:
13 ft.

RCRA-SQG:
Date form received by agency: 12/08/1987
Facility name: OCEAN CONLAINER SYSTEMS
Facility address: 801 CEDAR ST
OAKLAND, CA 94607
EPA ID: CAD982338030
Contact: ENVIRONMENTAL MANAGER
Contact address: 801 CEDAR ST
OAKLAND, CA 94507
Contact country: US
Contact telephone: (415) 451-6562
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: FORBES TUAN
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported

OCEAN CONLAINER SYSTEMS (Continued) **1000150327**

Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110008276365

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

B4
SW
< 1/8
0.059 mi.
313 ft.

VACANT AUTO REPAIR
SHOREY STREET
OAKLAND, CA 94607

Site 2 of 2 in cluster B

RESPONSE **S102008264**
ENVIROSTOR **N/A**

Relative:
Lower

Actual:
13 ft.

RESPONSE:

Facility ID:	01750020
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	Not reported
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	Not reported
Supervisor:	Denise Tsuji
Division Branch:	Cleanup Berkeley
Site Code:	200470
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	16
Senate:	09
Special Program Status:	Not reported
Status:	No Further Action

VACANT AUTO REPAIR (Continued) **S102008264**

Status Date: 02/03/1994
Restricted Use: NO
Funding: Responsible Party
Latitude: 37.8088
Longitude: -122.3038
APN: NONE SPECIFIED
Past Use: NONE
Potential COC: NONE SPECIFIED,31000
Confirmed COC: NONE SPECIFIED
Potential Description: NMA
Alias Name: 110033613221
Alias Type: EPA (FRS #)
Alias Name: 200470
Alias Type: Project Code (Site Code)
Alias Name: 01750020
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: Not reported
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Denise Tsuji
Division Branch: Cleanup Berkeley
Facility ID: 01750020
Site Code: 200470
Assembly: 16
Senate: 09
Special Program: Not reported
Status: No Further Action
Status Date: 02/03/1994
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8088
Longitude: -122.3038
APN: NONE SPECIFIED

VACANT AUTO REPAIR (Continued) **S102008264**

Past Use: NONE
Potential COC: NONE SPECIFIED,31000
Confirmed COC: NONE SPECIFIED
Potential Description: NMA
Alias Name: 110033613221
Alias Type: EPA (FRS #)
Alias Name: 200470
Alias Type: Project Code (Site Code)
Alias Name: 01750020
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

C5
NE
< 1/8
0.064 mi.
336 ft.

BATAVIA PROPERTY
1832 9TH STREET
OAKLAND, CA

Site 1 of 2 in cluster C

CERC-NFRAP

1003880072
CA0002059400

Relative:
Equal

Actual:
14 ft.

CERC-NFRAP:
Site ID: 0905364
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13052565.00000
Person ID: 9271184.00000

Contact Sequence ID: 13058639.00000
Person ID: 9270048.00000

Contact Sequence ID: 13089361.00000
Person ID: 13002167.00000

Contact Sequence ID: 13175476.00000
Person ID: 9270438.00000

CERCLIS-NFRAP Site Alias Name(s):
Alias Name: MOLINA PROPERTY
Alias Address: Not reported
Not reported

BATAVIA PROPERTY (Continued) **1003880072**

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 09/25/1997
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 02/09/1999
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: 10/20/1997
Date Completed: 02/09/1999
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

---

C6 **BATAVIA PROPERTY** **ENVIROSTOR** **S102860821**
NE **1832 9TH STREET** **N/A**
< 1/8 **OAKLAND, CA 94607**
0.064 mi.
336 ft. **Site 2 of 2 in cluster C**

Relative:
Equal

Actual:
14 ft.

ENVIROSTOR:
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 4.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Facility ID: 01990021
Site Code: 201020
Assembly: 16
Senate: 09
Special Program: EPA - PASI
Status: No Further Action
Status Date: 08/25/1998
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 37.8105555555556
Longitude: -122.302222222222
APN: NONE SPECIFIED
Past Use: OFFICE BUILDING, TRANSPORTATION - WAREHOUSING
Potential COC: NONE SPECIFIED,31000
Confirmed COC: 31000-NO
Potential Description: NMA
Alias Name: 201020
Alias Type: Project Code (Site Code)
Alias Name: 01990021
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report

BATAVIA PROPERTY (Continued) **S102860821**

Completed Date:	08/31/1998
Comments:	Completed PEA.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	06/27/1997
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

D7
South
< 1/8
0.072 mi.
380 ft.

PEP BOYS
1818 SHOREY
OAKLAND, CA 94607

HIST CORTESE **S105025313**
N/A

Site 1 of 4 in cluster D

Relative:
Equal

Actual:
14 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	3157

D8
South
< 1/8
0.074 mi.
388 ft.

B & A AUTO DISMANTLERS
1823 SHOREY STREET
OAKLAND, CA 94607

VCP **S102008243**
ENVIROSTOR **N/A**

Site 2 of 4 in cluster D

Relative:
Equal

Actual:
14 ft.

VCP:

Facility ID:	01500106
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0.04
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	LYNN NAKASHIMA
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Site Code:	200473
Assembly:	16
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified
Status Date:	01/08/1997

B & A AUTO DISMANTLERS (Continued) **S102008243**

Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.8086897384466 / -122.304215734298
APN:	6-45-3
Past Use:	JUNKYARD
Potential COC:	10097, 30013, 3002502
Confirmed COC:	30013,10097,3002502
Potential Description:	SOIL
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	6-45-3
Alias Type:	APN
Alias Name:	110033617049
Alias Type:	EPA (FRS #)
Alias Name:	200473
Alias Type:	Project Code (Site Code)
Alias Name:	01500106
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	08/09/1996
Comments:	Completed Remedial Action. As part of the Cypress construction project, the entire site was excavated to a depth of 15 to 20 feet as part of the construction of the 7th Street undercrossing. All contaminated soil was removed and the underlying groundwater was dewatered. No further remedial work was required.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	11/16/1995
Comments:	Approved Design.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Plan
Completed Date:	08/14/1995
Comments:	Approved RAP.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation / Feasibility Study
Completed Date:	07/03/1995
Comments:	Completed RIFS.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	05/04/1993
Comments:	Completed Site Screening. Earlier site investigations indicated surface soil contamination. Another investigation was conducted in October 1992 in conjunction with CalTrans activities and revealed presence of the following contaminants in soil: Total Revocerable Petroleum Hydorcarbons (TRPH) as high as 6,350 ppm; and lead as high as 161 ppm. Groundwater samples also showed TRPH as high as 2.6 ppm.

B & A AUTO DISMANTLERS (Continued) **S102008243**

Surface soil staining was also noted during sampling activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 01/08/1997
Comments: Certified Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: Signed VCA.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 0.04
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: LYNN NAKASHIMA
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Facility ID: 01500106
Site Code: 200473
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program
Status: Certified
Status Date: 01/08/1997
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8086897384466
Longitude: -122.304215734298
APN: 6-45-3
Past Use: JUNKYARD
Potential COC: 10097, 30013, 3002502
Confirmed COC: 30013,10097,3002502
Potential Description: SOIL
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: 6-45-3
Alias Type: APN
Alias Name: 110033617049
Alias Type: EPA (FRS #)

B & A AUTO DISMANTLERS (Continued) **S102008243**

Alias Name:	200473
Alias Type:	Project Code (Site Code)
Alias Name:	01500106
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	08/09/1996
Comments:	Completed Remedial Action. As part of the Cypress construction project, the entire site was excavated to a depth of 15 to 20 feet as part of the construction of the 7th Street undercrossing. All contaminated soil was removed and the underlying groundwater was dewatered. No further remedial work was required.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	11/16/1995
Comments:	Approved Design.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Plan
Completed Date:	08/14/1995
Comments:	Approved RAP.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation / Feasibility Study
Completed Date:	07/03/1995
Comments:	Completed RIFS.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	05/04/1993
Comments:	Completed Site Screening. Earlier site investigations indicated surface soil contamination. Another investigation was conducted in October 1992 in conjunction with CalTrans activities and revealed presence of the following contaminants in soil: Total Revocerable Petroleum Hydorcarbons (TRPH) as high as 6,350 ppm; and lead as high as 161 ppm. Groundwater samples also showed TRPH as high as 2.6 ppm. Surface soil staining was also noted during sampling activities.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	01/08/1997
Comments:	Certified Site.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	Signed VCA.

B & A AUTO DISMANTLERS (Continued) **S102008243**

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

D9
South
< 1/8
0.075 mi.
396 ft.

EDO S AUTOMOTIVE
1807 SHOREY ST
OAKLAND, CA

EDR Historical Auto Stations

1009011132
N/A

Site 3 of 4 in cluster D

Relative:
Equal

Actual:
14 ft.

EDR Historical Auto Stations:

Name:	EDO S AUTOMOTIVE
Year:	1967
Type:	AUTOMOBILE REPAIRING

D10
South
< 1/8
0.087 mi.
457 ft.

OLD OAKLAND FIRE HOUSE 3
727 PINE STREET
OAKLAND, CA 94607

VCP
HAZNET
ENVIROSTOR

S103670589
N/A

Site 4 of 4 in cluster D

Relative:
Equal

Actual:
14 ft.

VCP:

Facility ID:	01920064
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0.3
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	JACINTO SOTO
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Site Code:	200458
Assembly:	16
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified
Status Date:	06/30/2006
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.8078778257312 / -122.303906384317
APN:	6-45-26
Past Use:	FUEL - VEHICLE STORAGE/ REFUELING
Potential COC:	30024
Confirmed COC:	30024
Potential Description:	SOIL
Alias Name:	CYPRESS FREEWAY/FIRE STATION #3
Alias Type:	Alternate Name

OLD OAKLAND FIRE HOUSE 3 (Continued) **S103670589**

Alias Name:	CYPRESS FREEWAY/OLD FIRE STATION #3
Alias Type:	Alternate Name
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	6-45-26
Alias Type:	APN
Alias Name:	110033612473
Alias Type:	EPA (FRS #)
Alias Name:	200458
Alias Type:	Project Code (Site Code)
Alias Name:	01920064
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Plan
Completed Date:	08/14/1995
Comments:	Approved RAP required removal of underground tank under oversight of Alameda County.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/30/2006
Comments:	Submittal of the Underground Storage Tank Removal Report on June 4, 2006.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	07/03/1995
Comments:	Approval of Fact Sheet to inform the community of the availibity of the FS/RAP for review.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation / Feasibility Study
Completed Date:	07/03/1995
Comments:	RIFS approved. Site investigation activities, performed prior to the 5/10/1994 VCA, were reported in the Site Investigation Report Area 1 dated August 1992. The RI/FS was approved on July 3, 1995 when the Remedial Action Plan Was approved.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	07/03/1995
Comments:	Public Notice approval to notify the community of the FS/RAP availibity for review.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	08/15/2002
Comments:	Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

OLD OAKLAND FIRE HOUSE 3 (Continued) **S103670589**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	01/07/1999
Comments:	Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/30/2006
Comments:	Certification completed. Implementation report documenting tank removal has been submitted, reviewed and confirms that cleanup was done in accordance with RAP requirements.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

HAZNET:

Year:	1995
Gepaid:	CAC001105040
Contact:	CAL TRANS
Telephone:	5102865647
Mailing Name:	Not reported
Mailing Address:	PO BOX 23660
Mailing City,St,Zip:	OAKLAND, CA 946230660
Gen County:	1
TSD EPA ID:	UTC093012201
TSD County:	99
Waste Category:	Contaminated soil from site clean-up
Disposal Method:	D80
Tons:	.0000
Facility County:	1

ENVIROSTOR:

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	0.3

OLD OAKLAND FIRE HOUSE 3 (Continued) **S103670589**

NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	JACINTO SOTO
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Facility ID:	01920064
Site Code:	200458
Assembly:	16
Senate:	09
Special Program:	Voluntary Cleanup Program
Status:	Certified
Status Date:	06/30/2006
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.8078778257312
Longitude:	-122.303906384317
APN:	6-45-26
Past Use:	FUEL - VEHICLE STORAGE/ REFUELING
Potential COC:	30024
Confirmed COC:	30024
Potential Description:	SOIL
Alias Name:	CYPRESS FREEWAY/FIRE STATION #3
Alias Type:	Alternate Name
Alias Name:	CYPRESS FREEWAY/OLD FIRE STATION #3
Alias Type:	Alternate Name
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	6-45-26
Alias Type:	APN
Alias Name:	110033612473
Alias Type:	EPA (FRS #)
Alias Name:	200458
Alias Type:	Project Code (Site Code)
Alias Name:	01920064
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Plan
Completed Date:	08/14/1995
Comments:	Approved RAP required removal of underground tank under oversight of Alameda County.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/30/2006
Comments:	Submittal of the Underground Storage Tank Removal Report on June 4, 2006.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	07/03/1995
Comments:	Approval of Fact Sheet to inform the community of the availibity of

OLD OAKLAND FIRE HOUSE 3 (Continued) **S103670589**

the FS/RAP for review.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: RIFS approved. Site investigation activities, performed prior to the 5/10/1994 VCA, were reported in the Site Investigation Report Area 1 dated August 1992. The RI/FS was approved on July 3, 1995 when the Remedial Action Plan Was approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 07/03/1995
Comments: Public Notice approval to notify the community of the FS/RAP availibity for review.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 08/15/2002
Comments: Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/07/1999
Comments: Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/30/2006
Comments: Certification completed. Implementation report documenting tank removal has been submitted, reviewed and confirms that cleanup was done in accordance with RAP requirements.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported

OLD OAKLAND FIRE HOUSE 3 (Continued) **S103670589**

Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

E11	**PHOENIX IRON WORKS**	**HIST CORTESE**	**S101624385**
NE	**888 CEDAR**	**LUST**	**N/A**
< 1/8	**OAKLAND, CA 94607**	**CA FID UST**	
0.100 mi.		**Alameda County CS**	
528 ft.	**Site 1 of 2 in cluster E**	**SWEEPS UST**	

Relative:
Lower

Actual:
13 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-2420

LUST:
Region: STATE
Global Id: T0600102229
Latitude: 37.8079530450688
Longitude: -122.304010391235
Case Type: LUST Cleanup Site
Status: Open - Site Assessment
Status Date: 10/28/2010
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Case Worker: Not reported
Local Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number: 01-2420
LOC Case Number: RO0000417
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Acetone, Other Solvent or Non-Petroleum Hydrocarbon, Diesel, Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0600102229
Contact Type: Local Agency Caseworker
Contact Name: BARBARA COOK
Organization Name: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Address: 700 HEINZ ST.
City: BERKELEY
Email: Not reported
Phone Number: Not reported

Global Id: T0600102229
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0600102229

PHOENIX IRON WORKS (Continued) **S101624385**

Action Type: REMEDIATION
Date: 1950-01-01 00:00:00
Action: Excavate and Dispose

Global Id: T0600102229
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Discovery

Global Id: T0600102229
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

Global Id: T0600102229
Action Type: ENFORCEMENT
Date: 2008-07-03 00:00:00
Action: Technical Correspondence / Assistance / Other - #20080703

Global Id: T0600102229
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Stopped

LUST REG 2:
Region: 2
Facility Id: 01-2420
Facility Status: Preliminary site assessment workplan submitted
Case Number: 612
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 7/11/1995
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: 1/2/1965
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CA FID UST:
Facility ID: 01002778
Regulated By: UTNKA
Regulated ID: 00059789
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4154659900
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: OAKLAND 94607
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported

PHOENIX IRON WORKS (Continued) **S101624385**

NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

Alameda County CS:

Status: Pollution Characterization
Record Id: RO0000417
PE: 5602

Status: Leak being confirmed
Record Id: RO0000417
PE: 5602

Status: Case Transferred
Record Id: RO0000417
PE: 5602

SWEEPS UST:

Status: A
Comp Number: 59789
Number: 9
Board Of Equalization: 44-000599
Ref Date: 07-01-85
Act Date: Not reported
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 1
Swrcb Tank Id: 01-000-059789-000001
Actv Date: 07-01-85
Capacity: 500
Tank Use: M.V. FUEL
Stg: P
Content: LEADED
Number Of Tanks: 2

Status: A
Comp Number: 59789
Number: 9
Board Of Equalization: 44-000599
Ref Date: 07-01-85
Act Date: Not reported
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 2
Swrcb Tank Id: 01-000-059789-000002
Actv Date: 07-01-85
Capacity: 1000
Tank Use: M.V. FUEL
Stg: P
Content: DIESEL
Number Of Tanks: Not reported

E12 **PHOENIX IRON WKS.** **HIST UST** **U001599209**
NE **888 CEDAR ST.** **N/A**
< 1/8 **OAKLAND, CA 94607**
0.100 mi.
528 ft. **Site 2 of 2 in cluster E**

Relative:
Lower

Actual:
13 ft.

HIST UST:

Region:	STATE
Facility ID:	00000059789
Facility Type:	Other
Other Type:	FOUNDRY
Total Tanks:	0002
Contact Name:	W. RUSSELL
Telephone:	4154659900
Owner Name:	PHOENIX PROPERTIES
Owner Address:	888 CEDAR ST.
Owner City,St,Zip:	OAKLAND, CA 94607

Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Tank Construction:	Not reported
Leak Detection:	None

Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Tank Construction:	Not reported
Leak Detection:	None

F13 **GLOBE METALS COMPANY** **HIST CORTESE** **S105025323**
NE **182010TH** **N/A**
1/8-1/4 **OAKLAND, CA 94607**
0.125 mi.
662 ft. **Site 1 of 2 in cluster F**

Relative:
Lower

Actual:
13 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1918

F14 **GLOBE METALS CO.** **HIST UST** **1000162180**
NE **1820 10TH ST** **N/A**
1/8-1/4 **OAKLAND, CA 94607**
0.126 mi.
667 ft. **Site 2 of 2 in cluster F**

Relative:
Lower

Actual:
13 ft.

HIST UST:

Region:	STATE
Facility ID:	00000001004
Facility Type:	Other

GLOBE METALS CO. (Continued) **1000162180**

Other Type: ALUMINUM RECYCLING
Total Tanks: 0001
Contact Name: LUIGI FERRI
Telephone: 4154442776
Owner Name: GLOBE METALS CO.
Owner Address: 1820 TENTH STREET
Owner City,St,Zip: OAKLAND, CA 94607

Tank Num: 001
Container Num: 1
Year Installed: 1963
Tank Capacity: 00000560
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

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15 **NNE** **1/8-1/4** **0.136 mi.** **716 ft.**	**GLOBE METALS CO.** **1820 010TH ST** **OAKLAND, CA 94607**	**CA FID UST** **SWEEPS UST**	**1000590094** **N/A**

Relative:
Lower

Actual:
13 ft.

CA FID UST:
Facility ID: 01002075
Regulated By: UTNKI
Regulated ID: 00001004
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4154442776
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: OAKLAND 94607
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

SWEEPS UST:
Status: Not reported
Comp Number: 1004
Number: Not reported
Board Of Equalization: Not reported
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-001004-000001
Actv Date: Not reported
Capacity: 560
Tank Use: M.V. FUEL
Stg: PRODUCT

GLOBE METALS CO. (Continued) **1000590094**

Content: REG UNLEADED
Number Of Tanks: 1

Map ID / Direction / Distance / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
16 **SSE** **1/8-1/4** **0.139 mi.** **733 ft.**	**SUNLIGHT CLEANERS** **801 WOOD ST** **OAKLAND, CA**	**EDR Historical Cleaners**	**1009139854** **N/A**

Relative:
Higher

Actual:
15 ft.

EDR Historical Cleaners:
Name: SUNLIGHT CLEANERS
Year: 1967
Type: CLEANERS AND DYERS

Map ID / Direction / Distance / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
17 **SSW** **1/8-1/4** **0.143 mi.** **756 ft.**	**WILFRED’S AUTO WRECKING** **1834 7TH STREET** **OAKLAND, CA 94607**	**VCP** **ENVIROSTOR**	**S102860807** **N/A**

Relative:
Lower

Actual:
13 ft.

VCP:
Facility ID: 01500105
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 0.05
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: LYNN NAKASHIMA
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Site Code: 200356
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified
Status Date: 10/17/1997
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.8077434205394 / -122.304592359478
APN: 6-45-33
Past Use: VEHICLE MAINTENANCE
Potential COC: 10097, 30013, 3002502, 30407
Confirmed COC: 30407,30013,10097,3002502
Potential Description: SOIL
Alias Name: CYPRESS FREEWAY/ WILFRED’S AUTO WRECKING
Alias Type: Alternate Name
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: 6-45-33
Alias Type: APN
Alias Name: 110033620151
Alias Type: EPA (FRS #)
Alias Name: 200356

WILFRED'S AUTO WRECKING (Continued) **S102860807**

Alias Type: Project Code (Site Code)
Alias Name: 01500105
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 08/22/1997
Comments: Completed Remedial Action. Approximately 1,946 cubic yards of soil were excavated from 3 to 6 feet below ground surface.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 11/22/1995
Comments: Approved Design.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: Approved RAP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: Completed RIFS.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/04/1993
Comments: Completed Site Screening. The site is a currently operating wrecking yard and is fully occupied by abandoned cars, parts, and debris. Earlier site investigation indicated surface soil contamination. Subsequent field investigation conducted in October 1992 in conjunction with CalTrans activities revealed the presence of total recoverable petroleum hydrocarbons (TPRH) as high as 138,000 ppm. Approximate volume of contaminated soil is 950 cubic yards. Additional site characterization is necessary.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 10/17/1997
Comments: Certified Site. Remediation goals were met for all contaminants. After remediation activities were completed, the site was further excavated by Caltrans to a minimum of 15 feet for the construction of the 7th Street undercrossing.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: Signed VCA.

WILFRED’S AUTO WRECKING (Continued) **S102860807**

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	0.05
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	LYNN NAKASHIMA
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Facility ID:	01500105
Site Code:	200356
Assembly:	16
Senate:	09
Special Program:	Voluntary Cleanup Program
Status:	Certified
Status Date:	10/17/1997
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.8077434205394
Longitude:	-122.304592359478
APN:	6-45-33
Past Use:	VEHICLE MAINTENANCE
Potential COC:	10097, 30013, 3002502, 30407
Confirmed COC:	30407,30013,10097,3002502
Potential Description:	SOIL
Alias Name:	CYPRESS FREEWAY/ WILFRED’S AUTO WRECKING
Alias Type:	Alternate Name
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	6-45-33
Alias Type:	APN
Alias Name:	110033620151
Alias Type:	EPA (FRS #)
Alias Name:	200356
Alias Type:	Project Code (Site Code)
Alias Name:	01500105
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	08/22/1997
Comments:	Completed Remedial Action. Approximately 1,946 cubic yards of soil were excavated from 3 to 6 feet below ground surface.

WILFRED’S AUTO WRECKING (Continued) **S102860807**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 11/22/1995
Comments: Approved Design.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: Approved RAP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: Completed RIFS.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/04/1993
Comments: Completed Site Screening. The site is a currently operating wrecking yard and is fully occupied by abandoned cars, parts, and debris. Earlier site investigation indicated surface soil contamination. Subsequent field investigation conducted in October 1992 in conjunction with CalTrans activities revealed the presence of total recoverable petroleum hydrocarbons (TPRH) as high as 138,000 ppm. Approximate volume of contaminated soil is 950 cubic yards. Additional site characterization is necessary.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 10/17/1997
Comments: Certified Site. Remediation goals were met for all contaminants. After remediation activities were completed, the site was further excavated by Caltrans to a minimum of 15 feet for the construction of the 7th Street undercrossing.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: Signed VCA.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

G18
ENE
1/8-1/4
0.146 mi.
771 ft.

JENKINS AUTO WRECKERS
1778 10TH STREET
OAKLAND, CA 94607

Site 1 of 2 in cluster G

Cortese **S109851011**
N/A

Relative:
Equal

Actual:
14 ft.

Cortese:

Region:	CORTESE
Envirostor Id:	1750025
Site/Facility Type:	STATE RESPONSE
Cleanup Status:	BACKLOG
Status Date:	6/22/2010
Site Code:	200869
Latitude:	37.8109328588317
Longitude:	-122.300700026272
EPA Id:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Effective Date:	Not reported
Order No:	Not reported
Region:	Not reported
WDID:	Not reported
Swat R:	Not reported
Waste Discharger System Num:	Not reported
Solid Waste Id Num:	Not reported
Waste Management Unit Name:	Not reported
Agency Name:	Not reported

G19
ENE
1/8-1/4
0.146 mi.
771 ft.

JENKINS AUTO WRECKERS
1778 10TH STREET
OAKLAND, CA 94607

Site 2 of 2 in cluster G

RESPONSE
ENVIROSTOR

S102860812
N/A

Relative:
Equal

Actual:
14 ft.

RESPONSE:

Facility ID:	01750025
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	0.5
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	TOM PRICE
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	200869
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	16
Senate:	09
Special Program Status:	EPA - PASI
Status:	Backlog
Status Date:	06/22/2010
Restricted Use:	NO
Funding:	Not reported
Latitude:	37.8109328588317
Longitude:	-122.300700026272
APN:	6-31-39, 6-31-40, 6-31-41, 6-31-42, 6-31-43, 6-31-44
Past Use:	JUNKYARD
Potential COC:	31001

JENKINS AUTO WRECKERS (Continued) **S102860812**

Confirmed COC:	31001-NO
Potential Description:	SOIL
Alias Name:	6-31-39
Alias Type:	APN
Alias Name:	6-31-40
Alias Type:	APN
Alias Name:	6-31-41
Alias Type:	APN
Alias Name:	6-31-42
Alias Type:	APN
Alias Name:	6-31-43
Alias Type:	APN
Alias Name:	6-31-44
Alias Type:	APN
Alias Name:	200869
Alias Type:	Project Code (Site Code)
Alias Name:	01750025
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	PA/SI Site Screening
Completed Date:	06/12/2009
Comments:	A release of waste oil to surface soils occurred. Oil-saturated soil and oil and grease-stained soils have been observed at the site since 1996. Lead concentrations in the stockpiled soil are also elevated. DTSC is assigned to follow up.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	State Response
Site Type Detailed:	State Response or NPL
Acres:	0.5
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	TOM PRICE
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	01750025
Site Code:	200869
Assembly:	16
Senate:	09
Special Program:	EPA - PASI
Status:	Backlog
Status Date:	06/22/2010
Restricted Use:	NO

JENKINS AUTO WRECKERS (Continued) **S102860812**

Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.8109328588317
Longitude:	-122.300700026272
APN:	6-31-39, 6-31-40, 6-31-41, 6-31-42, 6-31-43, 6-31-44
Past Use:	JUNKYARD
Potential COC:	31001
Confirmed COC:	31001-NO
Potential Description:	SOIL
Alias Name:	6-31-39
Alias Type:	APN
Alias Name:	6-31-40
Alias Type:	APN
Alias Name:	6-31-41
Alias Type:	APN
Alias Name:	6-31-42
Alias Type:	APN
Alias Name:	6-31-43
Alias Type:	APN
Alias Name:	6-31-44
Alias Type:	APN
Alias Name:	200869
Alias Type:	Project Code (Site Code)
Alias Name:	01750025
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	PA/SI Site Screening
Completed Date:	06/12/2009
Comments:	A release of waste oil to surface soils occurred. Oil-saturated soil and oil and grease-stained soils have been observed at the site since 1996. Lead concentrations in the stockpiled soil are also elevated. DTSC is assigned to follow up.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

H20
South
1/8-1/4
0.147 mi.
775 ft.

MIYAKE TAKITARO
1796 7TH ST
OAKLAND, CA

Site 1 of 2 in cluster H

EDR Historical Cleaners **1009140845**
N/A

Relative:
Equal

Actual:
14 ft.

EDR Historical Cleaners:

Name:	MIYAKE TAKITARO
Year:	1933
Type:	CLOTHES PRESSERS AND CLEANERS

21 **SSE** **1/8-1/4** **0.157 mi.** **828 ft.**	**GOSSWOOD HOUSING ASSOCIAT** **1751 GOSS** **OAKLAND, CA 94607**	**HIST CORTESE** **LUST** **Alameda County CS** **SWEEPS UST**	**S103890797** **N/A**

Relative:
Equal

Actual:
14 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-0944

LUST:

Region:	STATE
Global Id:	T0600100869
Latitude:	37.807965
Longitude:	-122.301524
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	08/11/1993
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	EC
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-0944
LOC Case Number:	RO0000795
File Location:	Stored electronically as an E-file
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0600100869
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0600100869
Contact Type:	Local Agency Caseworker
Contact Name:	EVA CHU
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	Not reported
Phone Number:	5105676762

LUST:

Global Id:	T0600100869
Action Type:	ENFORCEMENT
Date:	1992-06-08 00:00:00
Action:	* Historical Enforcement - #UNK

Global Id:	T0600100869
Action Type:	REMEDIATION

GOSSWOOD HOUSING ASSOCIAT (Continued) **S103890797**

Date:	1950-01-01 00:00:00
Action:	Excavate and Dispose
Global Id:	T0600100869
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Reported

LUST REG 2:

Region:	2
Facility Id:	01-0944
Facility Status:	Case Closed
Case Number:	4180
How Discovered:	Tank Closure
Leak Cause:	Structure Failure
Leak Source:	Tank
Date Leak Confirmed:	6/8/1992
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	1/15/1993
Preliminary Site Assesment Began:	10/27/1992
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

Alameda County CS:

Status:	Case Closed
Record Id:	RO0000795
PE:	5602

SWEEPS UST:

Status:	Not reported
Comp Number:	13837
Number:	Not reported
Board Of Equalization:	Not reported
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-013837-000001
Actv Date:	Not reported
Capacity:	1000
Tank Use:	PETROLEUM
Stg:	PRODUCT
Content:	UNKNOWN GASO
Number Of Tanks:	1

H22
South
1/8-1/4
0.165 mi.
870 ft.

L AND E CLEANERS | **EDR Historical Cleaners** | **1009140598**
N/A
1791 7TH ST
OAKLAND, CA

Site 2 of 2 in cluster H

Relative:
Lower

Actual:
13 ft.

EDR Historical Cleaners:
Name: L & E CLEANERS
Year: 1967
Type: CLEANERS AND DYERS

Name: L AND E CLEANERS
Year: 1967
Type: DRY CLEANERS AND DYERS

I23
South
1/8-1/4
0.166 mi.
876 ft.

SAPATA LEONIDES | **EDR Historical Cleaners** | **1009140195**
N/A
1787 7TH ST
OAKLAND, CA

Site 1 of 6 in cluster I

Relative:
Lower

Actual:
13 ft.

EDR Historical Cleaners:
Name: SAPATA LEONIDES
Year: 1925
Type: CLEANERS DYERS AND PRESSERS

I24
South
1/8-1/4
0.169 mi.
890 ft.

RAMSAY GRANT | **EDR Historical Cleaners** | **1009139774**
N/A
1777 7TH ST
OAKLAND, CA

Site 2 of 6 in cluster I

Relative:
Equal

Actual:
14 ft.

EDR Historical Cleaners:
Name: RAMSAY GRANT
Year: 1925
Type: CLEANERS DYERS AND PRESSERS

I25
South
1/8-1/4
0.169 mi.
893 ft.

DAHL SAML | **EDR Historical Auto Stations** | **1009013438**
N/A
1775 7TH ST
OAKLAND, CA

Site 3 of 6 in cluster I

Relative:
Equal

Actual:
14 ft.

EDR Historical Auto Stations:
Name: DAHL SAML
Year: 1925
Type: AUTOMOBILE REPAIRERS

I26 **South** **1/8-1/4** **0.171 mi.** **900 ft.**	**CHURCH'S FRIED CHICKEN** **1766 7TH** **OAKLAND, CA 94607** **Site 4 of 6 in cluster I**	**HIST CORTESE** **LUST** **VCP** **ENVIROSTOR**	**S102008249** **N/A**

Relative:
Equal

Actual:
14 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	CALSI
Reg Id:	01540002

LUST:

Region:	STATE
Global Id:	T06019710161
Latitude:	37.807469
Longitude:	-122.302587
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	11/04/2010
Lead Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Case Worker:	Not reported
Local Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number:	NA
LOC Case Number:	RO0002843
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel, Gasoline
Site History:	Completed - Case Closed 8/25/2004 per DTSC's letter agreeing with CalTrans recommendation for No Further Action. see Site Docs Shaw letter 9/15/2009 has DTSC 8/25/2004 agreement letter attached.

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T06019710161
Contact Type:	Local Agency Caseworker
Contact Name:	STEVEN PLUNKETT
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	Not reported
Phone Number:	5103831767

LUST:

Global Id:	T06019710161
Action Type:	ENFORCEMENT
Date:	2008-07-03 00:00:00
Action:	Technical Correspondence / Assistance / Other - #20080703
Global Id:	T06019710161
Action Type:	REMEDIATION
Date:	1950-01-01 00:00:00
Action:	Excavate and Dispose
Global Id:	T06019710161
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Discovery

CHURCH'S FRIED CHICKEN (Continued) **S102008249**

Global Id:	T06019710161
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Reported
Global Id:	T06019710161
Action Type:	ENFORCEMENT
Date:	2009-07-27 00:00:00
Action:	Staff Letter
Global Id:	T06019710161
Action Type:	ENFORCEMENT
Date:	2009-07-24 00:00:00
Action:	Notice of Violation
Global Id:	T06019710161
Action Type:	RESPONSE
Date:	2009-08-10 00:00:00
Action:	Electronic Reporting Submittal Due

VCP:

Facility ID:	01540002
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0.3
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	JACINTO SOTO
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Site Code:	200353
Assembly:	16
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified
Status Date:	12/27/2005
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.8072688360468 / -122.302619665919
APN:	6-37-18
Past Use:	RETAIL - SERVICE STATION
Potential COC:	30001, 30003, 30013, 30025, 3002502, 30272, 30407, 30550, 30593
Confirmed COC:	30550,30025,30272,30407,30001,30003,30013,3002502,30593
Potential Description:	SOIL
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	6-37-18
Alias Type:	APN
Alias Name:	110033620534
Alias Type:	EPA (FRS #)
Alias Name:	T06019710161
Alias Type:	GeoTracker Global ID
Alias Name:	200353

CHURCH'S FRIED CHICKEN (Continued) **S102008249**

Alias Type: Project Code (Site Code)
Alias Name: 01540002
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 12/27/2005
Comments: RA Certification approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 01/19/1996
Comments: DES approved for soil removal and groundwater monitoring network.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: RAP required hotspot soil removed and groundwater monitored.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 12/07/1994
Comments: Approval of Remedial Action Options Report, dated December 27, 1994.The purpose of this investigation was to address the DTSC concerns regarding the November 1993 PEA which include: (1) confirmation of the removal of 5 underground storage tanks and associated piping; (2) assessment of the presence of contaminants in the soils in the area of the former waste oil tank; and (3) assessment of contaminants in the ground water beneath the site. Additional soil and groundwater samples confirmed similar levels and types of contaminants.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 11/22/1993
Comments: Aproval of PEA, dated May 1993. Soil and groundwater contamination found.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: RIFS approved. Site investigation activities, performed prior to the 5/10/1994 VCA, were reported in the Site Investigation Report Area 2 dated August 1992. The RI/FS was approved on July 3, 1995 when the Remedial Action Plan Was approved for public review.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 08/02/2001
Comments: The removal action consisted of excavation and off-site disposal of

CHURCH'S FRIED CHICKEN (Continued) **S102008249**

approximately 2,480 cubic yards of soil contaminated with petroleum hydrocarbons (as gasoline, diesel and total hydrocarbons),benzene, toluene, ethyl benzene, xylenes, lead, nickel and arsenic. The soil was excavated down to 10 feet below ground surface where groundwater was encountered and excavation was stopped.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	08/25/2004
Comments:	Submittal of Soil Investigation Report.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	08/15/2002
Comments:	Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	01/07/1999
Comments:	Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	0.3
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	JACINTO SOTO
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley

CHURCH'S FRIED CHICKEN (Continued) **S102008249**

Facility ID: 01540002
Site Code: 200353
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program
Status: Certified
Status Date: 12/27/2005
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8072688360468
Longitude: -122.302619665919
APN: 6-37-18
Past Use: RETAIL - SERVICE STATION
Potential COC: 30001, 30003, 30013, 30025, 3002502, 30272, 30407, 30550, 30593
Confirmed COC: 30550,30025,30272,30407,30001,30003,30013,3002502,30593
Potential Description: SOIL
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: 6-37-18
Alias Type: APN
Alias Name: 110033620534
Alias Type: EPA (FRS #)
Alias Name: T06019710161
Alias Type: GeoTracker Global ID
Alias Name: 200353
Alias Type: Project Code (Site Code)
Alias Name: 01540002
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 12/27/2005
Comments: RA Certification approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 01/19/1996
Comments: DES approved for soil removal and groundwater monitoring network.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: RAP required hotspot soil removed and groundwater monitored.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 12/07/1994
Comments: Approval of Remedial Action Options Report, dated December 27, 1994.The purpose of this investigation was to address the DTSC concerns regarding the November 1993 PEA which include: (1) confirmation of the removal of 5 underground storage tanks and associated piping; (2) assessment of the presence of contaminants in

CHURCH'S FRIED CHICKEN (Continued) **S102008249**

the soils in the area of the former waste oil tank; and (3) assessment of contaminants in the ground water beneath the site. Additional soil and groundwater samples confirmed similar levels and types of contaminants.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 11/22/1993
Comments: Aproval of PEA, dated May 1993. Soil and groundwater contamination found.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: RIFS approved. Site investigation activities, performed prior to the 5/10/1994 VCA, were reported in the Site Investigation Report Area 2 dated August 1992. The RI/FS was approved on July 3, 1995 when the Remedial Action Plan Was approved for public review.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 08/02/2001
Comments: The removal action consisted of excavation and off-site disposal of approximately 2,480 cubic yards of soil contaminated with petroleum hydrocarbons (as gasoline, diesel and total hydrocarbons),benzene, toluene, ethyl benzene, xylenes, lead, nickel and arsenic. The soil was excavated down to 10 feet below ground surface where groundwater was encountered and excavation was stopped.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 08/25/2004
Comments: Submittal of Soil Investigation Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 08/15/2002
Comments: Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Completed Area Name: PROJECT WIDE

CHURCH'S FRIED CHICKEN (Continued) **S102008249**

Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	01/07/1999
Comments:	Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

I27
South
1/8-1/4
0.171 mi.
900 ft.

CHURCHS FRIED CHICKEN / CALTRANS CYPRESS AREA 2
1766 7TH ST
OAKLAND, CA 94607

Site 5 of 6 in cluster I

Alameda County CS

S106661100
N/A

Relative:
Equal

Actual:
14 ft.

Alameda County CS:

Status:	Leak being confirmed
Record Id:	RO0002843
PE:	5602

Status:	Case Transferred
Record Id:	RO0002843
PE:	5602

I28
South
1/8-1/4
0.177 mi.
933 ft.

RITCHEY GUS
1753 7TH ST
OAKLAND, CA

Site 6 of 6 in cluster I

EDR Historical Cleaners

1009140194
N/A

Relative:
Equal

Actual:
14 ft.

EDR Historical Cleaners:

Name:	RITCHEY GUS
Year:	1925
Type:	CLEANERS DYERS AND PRESSERS

J29
NE
1/8-1/4
0.193 mi.
1017 ft.

GAINES PROPERTY
1795 11TH STREET
OAKLAND, CA 94607

Site 1 of 5 in cluster J

CERCLIS
FINDS
HIST Cal-Sites
RESPONSE
HAZNET
ENVIROSTOR

1001212406
CA0002059426

Relative:
Lower

Actual:
13 ft.

CERCLIS:

Site ID:	0905367
EPA ID:	CA0002059426
Facility County:	ALAMEDA
Short Name:	GAINES PROPERTY
Congressional District:	Not reported

GAINES PROPERTY (Continued) **1001212406**

IFMS ID:	Not reported
SMSA Number:	Not reported
USGC Hydro Unit:	Not reported
Federal Facility:	Not a Federal Facility
DMNSN Number:	Not reported
Site Orphan Flag:	Not reported
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	S
NFRAP Flag:	Not reported
Parent ID:	Not reported
RST Code:	Not reported
EPA Region:	09
Classification:	Not reported
Site Settings Code:	Not reported
NPL Status:	Not on the NPL
DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information
Non NPL Status Date:	20070323
Site Fips Code:	06001
CC Concurrence Date:	Not reported
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported

CERCLIS Site Contact Name(s):

Contact ID:	9271184.00000
Contact Name:	Karen Jurist
Contact Tel:	(415) 972-3219
Contact Title:	Site Assessment Manager (SAM)
Contact Email:	Not reported
Contact ID:	9270048.00000
Contact Name:	Jeff Inglis
Contact Tel:	(415) 972-3095
Contact Title:	Site Assessment Manager (SAM)
Contact Email:	Not reported
Contact ID:	13002167.00000
Contact Name:	Carl Brickner
Contact Tel:	(415) 972-3814
Contact Title:	Site Assessment Manager (SAM)
Contact Email:	Not reported
Contact ID:	9270438.00000
Contact Name:	Dawn Richmond
Contact Tel:	(415) 972-3097
Contact Title:	Site Assessment Manager (SAM)
Contact Email:	Not reported
Alias Comments:	Not reported

Site Description: Not reported

CERCLIS Assessment History:

GAINES PROPERTY (Continued) **1001212406**

Action Code:	001
Action:	DISCOVERY
Date Started:	Not reported
Date Completed:	09/25/1997
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	State, Fund Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	001
Action:	PRELIMINARY ASSESSMENT
Date Started:	04/17/2002
Date Completed:	01/29/2003
Priority Level:	Higher priority for further assessment
Operable Unit:	SITEWIDE
Primary Responsibility:	State, Fund Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	001
Action:	OTHER CLEANUP ACTIVITY
Date Started:	Not reported
Date Completed:	03/23/2007
Priority Level:	NFRAP-Site does not qualify for the NPL based on existing information
Operable Unit:	SITEWIDE
Primary Responsibility:	State, Fund Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

FINDS:

Registry ID: 110009266757

Environmental Interest/Information System

California Department of Toxic Substances Control EnviroStor System (DTSC-EnviroStor) is an online search and Geographic Information System (GIS) tool for identifying sites that have known contamination or sites for which there may be reasons to investigate further. The EnviroStor database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites.

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

GAINES PROPERTY (Continued) **1001212406**

HISTORICAL CAL-SITES:

Facility ID: 01750030
Region: 2
Region Name: BERKELEY
Branch: NC
Branch Name: NORTH COAST
File Name: Not reported
State Senate District: 09192003
Status: CERT - CERTIFIED AS HAVING BEEN REMEDIED SATISFACTORILY UNDER DTSC OVERSIGHT
Status Name: CERTIFIED
Lead Agency: DTSC
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type: STATE
Type Name: STATE FUNDED SITE
NPL: Not Listed
SIC Code: 75
SIC Name: AUTO REPAIR, SERVICES & PARKING
Access: Not reported
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Unknown
Staff Member Responsible for Site: KHILF
Supervisor Responsible for Site: Not reported
Region Water Control Board: SF
Region Water Control Board Name: SAN FRANCISCO BAY
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 16
State Senate District Code: 09
Facility ID: 01750030
Activity: PEA
Activity Name: PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 08311998
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: CERT
Definition of Status: CERTIFIED
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0

GAINES PROPERTY (Continued) **1001212406**

Facility ID:	01750030
Activity:	RAW
Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	02092003
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01750030
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09192003
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	485
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	IN ADDITION TO SOIL REMOVAL, 9 COMPRESSED GAS CYLINDERS AND DRUMS CONTAINING ZINC DUST AND PAINT DEBRIS WERE REMOVED AND DISPOSED AT ANAPPROVED LANDFILL.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01750030
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported

GAINES PROPERTY (Continued) **1001212406**

Comments Date: 09192003
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: CERT
Definition of Status: CERTIFIED
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01750030
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: I&SE
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 07292002
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: CERT
Definition of Status: CERTIFIED
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01750030
Activity: FDNC
Activity Name: FINAL DETERMINATION OF NON-COMPLIANCE
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 09202002
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: CERT
Definition of Status: CERTIFIED
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported

GAINES PROPERTY (Continued) **1001212406**

Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Alternate Address: 1795 11TH STREET
Alternate City,St,Zip: OAKLAND, CA 94607
Background Info: The Gaines Site is a vacant lot located in a mixed residential/commercial/industrial neighborhood. It has been used to store automobiles, drums, pressurized gas containers and other miscellaneous equipment. Surface samples collected found lead as high as 28,000 parts per million (ppm). No volatile or semivolatile organic compounds were detected at significant levels.
Comments Date: 02092003
Comments: A Removal Action Workplan was approved in February 2003 which
Comments Date: 02092003
Comments: required the removal of all soil containing metals above
Comments Date: 02092003
Comments: residential standards.
Comments Date: 06271997
Comments: Site Screening prepared under the US EPA Grant indicates that
Comments Date: 06271997
Comments: further assessment of this Site is needed.
Comments Date: 08012002
Comments: DTSC issued an Imminent and Substantial Endangerment Order to
Comments Date: 08012002
Comments: property owner.
Comments Date: 08311998
Comments: DTSC concluded that further assessment was needed and recommended
Comments Date: 08311998
Comments: that a site inspection be conducted by the City of Oakland.
Comments Date: 09192003
Comments: In June and July 2003, DTSC’s remediation contractor conducted a
Comments Date: 09192003
Comments: Removal Action which consisted of excavation, consolidation and
Comments Date: 09192003
Comments: offsite disposal of 485 cubic yards of lead-contaminated soil
Comments Date: 09192003
Comments: and debris to a Class I landfill. In September 2003, DTSC
Comments Date: 09192003
Comments: approved the Completion Report for the Removal Action. DTSC
Comments Date: 09192003
Comments: certified that the property has been cleaned to unrestricted
Comments Date: 09192003
Comments: residential standards.
Comments Date: 09202002
Comments: DTSC determined the property owner to be in non-compliance with
Comments Date: 09202002
Comments: the order.
Comments Date: 11182001
Comments: DTSC staff conducted sampling at the property. Lead was found in
Comments Date: 11182001
Comments: surface soils at concentrations as high as 28,000 milligrams/

GAINES PROPERTY (Continued) **1001212406**

Comments Date: 11182001
Comments: kilogram (ppm).
ID Name: CALSTARS CODE
ID Value: 201021
Alternate Name: GAINES PROPERTY
Special Programs Code: Not reported
Special Programs Name: Not reported

RESPONSE:
Facility ID: 01750030
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: 0.11
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: KATHARINE HILF
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 201021
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 16
Senate: 09
Special Program Status: Not reported
Status: Certified
Status Date: 09/19/2003
Restricted Use: NO
Funding: Orphan Funds
Latitude: 37.811510723446
Longitude: -122.300713505779
APN: 6-31-15
Past Use: JUNKYARD, RECYCLING - SCRAP METAL
Potential COC: 30013
Confirmed COC: 30013
Potential Description: SOIL
Alias Name: 6-31-15
Alias Type: APN
Alias Name: 110009266757
Alias Type: EPA (FRS #)
Alias Name: 201021
Alias Type: Project Code (Site Code)
Alias Name: 01750030
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 09/19/2003
Comments: In June and July 2003, DTSC's remediation contractor conducted a Removal Action which consisted of excavation, consolidation and offsite disposal of 485 cubic yards of lead-contaminated soil and debris to a Class I landfill.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

GAINES PROPERTY (Continued) **1001212406**

Completed Document Type:	Removal Action Workplan
Completed Date:	02/09/2003
Comments:	A Removal Action Workplan was approved in February 2003 which required the removal of all soil containing metals above residential standards.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment/Site Inspection Report (PA/SI)
Completed Date:	08/31/1998
Comments:	Lead was found in surface soils at concentrations as high as 28,000 parts per million (ppm). DTSC concluded that further assessment was needed and recommended that a site inspection be conducted by the City of Oakland.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	11/15/2002
Comments:	Fact Sheet for Draft RAW
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	11/15/2002
Comments:	Public Notice for Draft RAW
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Final Determination of Non-Compliance
Completed Date:	09/20/2002
Comments:	DTSC determined the property owner to be in non-compliance with the order.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	07/29/2002
Comments:	I&SE Determination and Order and Remedial Action Order which required the removal of lead-contaminated soil.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	09/19/2003
Comments:	DTSC certified that the property has been cleaned up to unrestricted residential standards.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

GAINES PROPERTY (Continued) **1001212406**

HAZNET:
Year: 2003
Gepaid: CAC002561281
Contact: MIKE TRAINOR
Telephone: 2095782219
Mailing Name: Not reported
Mailing Address: PO BOX 3928
Mailing City,St,Zip: MODESTO, CA 953523928
Gen County: Alameda
TSD EPA ID: CAD028409019
TSD County: Alameda
Waste Category: Off-specification, aged or surplus organics
Disposal Method: H01
Tons: 0.3
Facility County: 1

ENVIROSTOR:
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 0.11
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: KATHARINE HILF
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 01750030
Site Code: 201021
Assembly: 16
Senate: 09
Special Program: Not reported
Status: Certified
Status Date: 09/19/2003
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Orphan Funds
Latitude: 37.811510723446
Longitude: -122.300713505779
APN: 6-31-15
Past Use: JUNKYARD, RECYCLING - SCRAP METAL
Potential COC: 30013
Confirmed COC: 30013
Potential Description: SOIL
Alias Name: 6-31-15
Alias Type: APN
Alias Name: 110009266757
Alias Type: EPA (FRS #)
Alias Name: 201021
Alias Type: Project Code (Site Code)
Alias Name: 01750030
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 09/19/2003

GAINES PROPERTY (Continued) **1001212406**

Comments:	In June and July 2003, DTSC's remediation contractor conducted a Removal Action which consisted of excavation, consolidation and offsite disposal of 485 cubic yards of lead-contaminated soil and debris to a Class I landfill.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	02/09/2003
Comments:	A Removal Action Workplan was approved in February 2003 which required the removal of all soil containing metals above residential standards.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment/Site Inspection Report (PA/SI)
Completed Date:	08/31/1998
Comments:	Lead was found in surface soils at concentrations as high as 28,000 parts per million (ppm). DTSC concluded that further assessment was needed and recommended that a site inspection be conducted by the City of Oakland.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	11/15/2002
Comments:	Fact Sheet for Draft RAW
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	11/15/2002
Comments:	Public Notice for Draft RAW
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Final Determination of Non-Compliance
Completed Date:	09/20/2002
Comments:	DTSC determined the property owner to be in non-compliance with the order.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	07/29/2002
Comments:	I&SE Determination and Order and Remedial Action Order which required the removal of lead-contaminated soil.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	09/19/2003
Comments:	DTSC certified that the property has been cleaned up to unrestricted residential standards.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported

GAINES PROPERTY (Continued) **1001212406**

Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

K30
SW
1/8-1/4
0.194 mi.
1023 ft.

LIPS PROPELLERS
1899 7TH
OAKLAND, CA 94607

Site 1 of 5 in cluster K

HIST CORTESE
VCP
HAZNET
ENVIROSTOR

S100938943
N/A

Relative:
Lower

Actual:
13 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: CALSI
Reg Id: 01350121

VCP:
Facility ID: 01350121
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 3.8
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: LYNN NAKASHIMA
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Site Code: 200352
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: No Further Action
Status Date: 01/07/2003
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.80744515467 / -122.305895210203
APN: 6-55-1
Past Use: MANUFACTURING - OTHER
Potential COC: 10097, 10199, 30013
Confirmed COC: 10199,30013,10097
Potential Description: SOIL
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: LIPS PROPELLERS
Alias Type: Alternate Name
Alias Name: 6-55-1
Alias Type: APN
Alias Name: 110033607746
Alias Type: EPA (FRS #)
Alias Name: 200352
Alias Type: Project Code (Site Code)

LIPS PROPELLERS (Continued) **S100938943**

Alias Name: 01350121
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: Approved RAP requiring removal of contamination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/21/1995
Comments: Approved PEA to define extent of contamination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: Approved RIFS noted presence of contamination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 10/26/1992
Comments: Site screening noted presence of two sumps. Soil and groundwater samples detected TPH, lead and copper above remediation goals.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/07/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 08/15/2002
Comments: Signed VCA amendment for time only. Amendment to the May 10, 1994 VCA

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: Signed VCA with Caltrans for Cypress Reconstruction. This property is part of the project.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LIPS PROPELLERS (Continued) **S100938943**

HAZNET:

Year: 1994
Gepaid: CAL000038482
Contact: GREGORY COLE
Telephone: 5104518219
Mailing Name: Not reported
Mailing Address: 1899 SEVENTH ST
Mailing City,St,Zip: OAKLAND, CA 946070000
Gen County: 1
TSD EPA ID: CAD009452657
TSD County: San Mateo
Waste Category: Aqueous solution with total organic residues 10 percent or more
Disposal Method: R01
Tons: .2293
Facility County: 1

Year: 1994
Gepaid: CAL000038482
Contact: GREGORY COLE
Telephone: 5104518219
Mailing Name: Not reported
Mailing Address: 1899 SEVENTH ST
Mailing City,St,Zip: OAKLAND, CA 946070000
Gen County: 1
TSD EPA ID: CAD009452657
TSD County: San Mateo
Waste Category: Aqueous solution with total organic residues 10 percent or more
Disposal Method: Not reported
Tons: .4587
Facility County: 1

Year: 1994
Gepaid: CAL000038482
Contact: GREGORY COLE
Telephone: 5104518219
Mailing Name: Not reported
Mailing Address: 1899 SEVENTH ST
Mailing City,St,Zip: OAKLAND, CA 946070000
Gen County: 1
TSD EPA ID: CAD980887418
TSD County: 1
Waste Category: Waste oil and mixed oil
Disposal Method: R01
Tons: .6880
Facility County: 1

Year: 1994
Gepaid: CAL000038482
Contact: GREGORY COLE
Telephone: 5104518219
Mailing Name: Not reported
Mailing Address: 1899 SEVENTH ST
Mailing City,St,Zip: OAKLAND, CA 946070000
Gen County: 1
TSD EPA ID: CAT080031628
TSD County: Kern
Waste Category: Waste oil and mixed oil

LIPS PROPELLERS (Continued) **S100938943**

Disposal Method:	R01
Tons:	.0834
Facility County:	1

Year:	1993
Gepaid:	CAL000038482
Contact:	GREGORY COLE
Telephone:	5104518219
Mailing Name:	Not reported
Mailing Address:	1899 SEVENTH ST
Mailing City,St,Zip:	OAKLAND, CA 946070000
Gen County:	1
TSD EPA ID:	CAD009452657
TSD County:	San Mateo
Waste Category:	Aqueous solution with total organic residues 10 percent or more
Disposal Method:	D99
Tons:	1.3759
Facility County:	1

Click this hyperlink while viewing on your computer to access
1 additional CA_HAZNET: record(s) in the EDR Site Report.

ENVIROSTOR:

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	3.8
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	LYNN NAKASHIMA
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Facility ID:	01350121
Site Code:	200352
Assembly:	16
Senate:	09
Special Program:	Voluntary Cleanup Program
Status:	No Further Action
Status Date:	01/07/2003
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.80744515467
Longitude:	-122.305895210203
APN:	6-55-1
Past Use:	MANUFACTURING - OTHER
Potential COC:	10097, 10199, 30013
Confirmed COC:	10199,30013,10097
Potential Description:	SOIL
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	LIPS PROPELLERS
Alias Type:	Alternate Name
Alias Name:	6-55-1
Alias Type:	APN
Alias Name:	110033607746
Alias Type:	EPA (FRS #)

LIPS PROPELLERS (Continued) **S100938943**

Alias Name:	200352
Alias Type:	Project Code (Site Code)
Alias Name:	01350121
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Plan
Completed Date:	08/14/1995
Comments:	Approved RAP requiring removal of contamination.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	07/21/1995
Comments:	Approved PEA to define extent of contamination.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation / Feasibility Study
Completed Date:	07/03/1995
Comments:	Approved RIFS noted presence of contamination.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	10/26/1992
Comments:	Site screening noted presence of two sumps. Soil and groundwater samples detected TPH, lead and copper above remediation goals.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	01/07/1999
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	08/15/2002
Comments:	Signed VCA amendment for time only. Amendment to the May 10, 1994 VCA
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	Signed VCA with Caltrans for Cypress Reconstruction. This property is part of the project.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported

LIPS PROPELLERS (Continued) **S100938943**

Schedule Revised Date: Not reported

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31 **LOUSTALET M A MRS** **EDR Historical Cleaners** **1009139881**
East **1735 10TH ST** **N/A**
1/8-1/4 **OAKLAND, CA**
0.196 mi.
1035 ft.

Relative:
Higher

Actual:
16 ft.

EDR Historical Cleaners:

Name: LOUSTALET PIERRE
Year: 1928
Type: LAUNDRIES

Name: LAUSTALET J
Year: 1933
Type: LAUNDRIES-HAND

Name: LOUSTALET M A MRS
Year: 1943
Type: LAUNDRIES-HAND

J32 **ADELPHI ALUMINUM CO.** **HIST UST** **U001599144**
NE **1111 PINE ST** **N/A**
1/8-1/4 **OAKLAND, CA 94607**
0.198 mi.
1048 ft. **Site 2 of 5 in cluster J**

Relative:
Lower

Actual:
13 ft.

HIST UST:

Region: STATE
Facility ID: 00000006111
Facility Type: Other
Other Type: MFG
Total Tanks: 0002
Contact Name: Not reported
Telephone: 4158393222
Owner Name: ADELPHI ALUMINUM CO.
Owner Address: 1111 PINE ST.
Owner City,St,Zip: OAKLAND, CA 94607

Tank Num: 001
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: Not reported
Leak Detection: None

Tank Num: 002
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00000500
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: None

J33
NE
1/8-1/4
0.198 mi.
1048 ft.

PACIFIC CANNERY LOFTS (PCL)
1111-1199 PINE STREET
OAKLAND, CA

Site 3 of 5 in cluster J

SLIC

S108991963
N/A

Relative:
Lower

Actual:
13 ft.

SLIC:
Region: STATE
Facility Status: Completed - Case Closed
Status Date: 01/01/2008
Global Id: SL0600111446
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.812502
Longitude: -122.300289
Case Type: Cleanup Program Site
Case Worker: MEJ
Local Agency: Not reported
RB Case Number: 01S0556
File Location: Regional Board
Potential Media Affected: Soil
Potential Contaminants of Concern: Heating Oil / Fuel Oil
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

J34
NE
1/8-1/4
0.198 mi.
1048 ft.

BONNELLI ENTERPRISES
1111 PINE
OAKLAND, CA 94607

Site 4 of 5 in cluster J

HIST CORTESE
LUST
CA FID UST
Alameda County CS
SWEEPS UST
CHMIRS
HAZNET

S101580345
N/A

Relative:
Lower

Actual:
13 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1824

LUST:
Region: STATE
Global Id: T0600101690
Latitude: 37.811863
Longitude: -122.3008182
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 05/13/1998
Lead Agency: ALAMEDA COUNTY LOP
Case Worker: PE
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: 01-1824
LOC Case Number: RO0000789
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

BONNELLI ENTERPRISES (Continued) **S101580345**

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0600101690
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported
Global Id:	T0600101690
Contact Type:	Local Agency Caseworker
Contact Name:	PAMELA EVANS
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0600101690
Action Type:	REMEDIATION
Date:	1950-01-01 00:00:00
Action:	Excavate and Dispose
Global Id:	T0600101690
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Reported

LUST REG 2:

Region:	2
Facility Id:	01-1824
Facility Status:	Case Closed
Case Number:	247
How Discovered:	Tank Closure
Leak Cause:	UNK
Leak Source:	Tank
Date Leak Confirmed:	9/22/1993
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

CA FID UST:

Facility ID:	01002541
Regulated By:	UTNKA
Regulated ID:	00006111
Cortese Code:	Not reported

BONNELLI ENTERPRISES (Continued) **S101580345**

SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 1111 PINE ST
Mailing Address 2: Not reported
Mailing City,St,Zip: OAKLAND 94607
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

Alameda County CS:
Status: Case Closed
Record Id: RO0000789
PE: 5602

SWEEPS UST:
Status: Not reported
Comp Number: 6111
Number: Not reported
Board Of Equalization: 44-000088
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-006111-000001
Actv Date: Not reported
Capacity: 1000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: LEADED
Number Of Tanks: 2

Status: Not reported
Comp Number: 6111
Number: Not reported
Board Of Equalization: 44-000088
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-006111-000002
Actv Date: Not reported
Capacity: 500
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

CHMIRS:
OES Incident Number: 5561

BONNELLI ENTERPRISES (Continued) **S101580345**

OES notification: Not reported
OES Date: 12/7/1994
OES Time: 09:18:57 AM
Incident Date: Not reported
Date Completed: Not reported
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
Special Studies 1: Not reported
Special Studies 2: Not reported
Special Studies 3: Not reported
Special Studies 4: Not reported
Special Studies 5: Not reported
Special Studies 6: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA/DOT/PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Comments: Not reported
Facility Telephone: Not reported
Waterway Involved: YES
Waterway: Not reported
Spill Site: Not reported
Cleanup By: Not reported
Containment: Not reported
What Happened: Not reported
Type: CHEMICAL
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 1994
Agency: oakland fd
Incident Date: 12/07/94 0851
Admin Agency: Not reported
Amount: 1 qt to .5 gallons
Contained: NO
Site Type: RD
E Date: Not reported
Substance: muriatic acid
Quantity Released: Not reported
BBLS: Not reported

BONNELLI ENTERPRISES (Continued) **S101580345**

Cups: Not reported
CUFT: Not reported
Gallons: Not reported
Grams: Not reported
Pounds: Not reported
Liters: Not reported
Ounces: Not reported
Pints: Not reported
Quarts: Not reported
Sheen: Not reported
Tons: Not reported
Unknown: Not reported
Evacuations: NO
Number of Injuries: NO
Number of Fatalities: NO
Description: spilled onto street. noticed by opd.

HAZNET:
Year: 2002
Gepaid: CAC002555152
Contact: BARBARA ALIMADADIAN/RESTEC CON
Telephone: 5107321996
Mailing Name: Not reported
Mailing Address: 1136 AMADOR
Mailing City,St,Zip: BERKELEY, CA 947070000
Gen County: Alameda
TSD EPA ID: Not reported
TSD County: 99
Waste Category: Polychlorinated biphenyls and material containing PCBs
Disposal Method: D80
Tons: 0.17
Facility County: Not reported

Year: 2002
Gepaid: CAC002555152
Contact: BARBARA ALIMADADIAN/RESTEC CON
Telephone: 5107321996
Mailing Name: Not reported
Mailing Address: 1136 AMADOR
Mailing City,St,Zip: BERKELEY, CA 947070000
Gen County: Alameda
TSD EPA ID: Not reported
TSD County: Alameda
Waste Category: Asbestos containing waste
Disposal Method: D80
Tons: 0.84
Facility County: Not reported

L35 **NE** **1/8-1/4** **0.201 mi.** **1064 ft.**	**MARITIME ADMINISTRATION** **1776 11TH STREET** **OAKLAND, CA 94601** **Site 1 of 4 in cluster L**	**MANIFEST**	**1009219036** **N/A**

Relative:
Equal

Actual:
14 ft.

NY MANIFEST:
EPA ID: CAP982452716
Country: USA
Mailing Name: MARITIME ADMINISTRATION
Mailing Contact: MARITIME ADMINISTRATION
Mailing Address: 211 MAIN STREET ROOM 1112
Mailing Address 2: Not reported
Mailing City: SAN FRANCISCO
Mailing State: CA
Mailing Zip: 94105
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 415-744-2560

Document ID: NYB4716603
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: 10222PNY
Trans2 State ID: Not reported
Generator Ship Date: 920811
Trans1 Recv Date: 920811
Trans2 Recv Date: Not reported
TSD Site Recv Date: 920901
Part A Recv Date: Not reported
Part B Recv Date: 920915
Generator EPA ID: CAP982452716
Trans1 EPA ID: NYD980769947
Trans2 EPA ID: Not reported
TSDF ID: NYD000632372
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00044
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Year: 92

K36 **WSW** **1/8-1/4** **0.203 mi.** **1074 ft.**	**SOUTHERN PACIFIC TRANSPORTATIO** **1912 7TH AVE** **OAKLAND, CA 94607** **Site 2 of 5 in cluster K**	**HIST UST**	**U001599224** **N/A**

Relative:
Lower

Actual:
13 ft.

HIST UST:
Region: STATE
Facility ID: 00000024515
Facility Type: Other
Other Type: RAILYARD
Total Tanks: 0003
Contact Name: C. SHELTON
Telephone: 4158917728
Owner Name: SOUTHERN PACIFIC TRANSPORTATIO
Owner Address: 1 MARKET PLAZA

SOUTHERN PACIFIC TRANSPORTATIO (Continued) **U001599224**

Owner City,St,Zip: SAN FRANCISCO, CA 94105

Tank Num: 001
Container Num: #1
Year Installed: 1979
Tank Capacity: 00002500
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: 3/8" inches
Leak Detection: Pressure Test

Tank Num: 002
Container Num: #2
Year Installed: 1978
Tank Capacity: 00003000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: 3/8" inches
Leak Detection: Pressure Test

Tank Num: 003
Container Num: #3
Year Installed: 1980
Tank Capacity: 00002500
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: 3/8" inches
Leak Detection: Pressure Test

K37
WSW
1/8-1/4
0.203 mi.
1074 ft.

SOUTHERN PACIFIC TRANS CO
1912 7TH
OAKLAND, CA 94607

HIST CORTESE **S104539362**
N/A

Site 3 of 5 in cluster K

Relative:
Lower

Actual:
13 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1401

K38
WSW
1/8-1/4
0.203 mi.
1074 ft.

SOUTHERN PACIFIC TRANSPORTATION COMPANY
1912 7TH
OAKLAND, CA 94607

LUST **S105870950**
Alameda County CS **N/A**

Site 4 of 5 in cluster K

Relative:
Lower

Actual:
13 ft.

LUST:
Region: STATE
Global Id: T0600101295
Latitude: 37.8081661
Longitude: -122.3067691
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 05/14/1997
Lead Agency: ALAMEDA COUNTY LOP

SOUTHERN PACIFIC TRANSPORTATION COMPANY (Continued) **S105870950**

Case Worker: AL
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: 01-1401
LOC Case Number: RO0001127
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0600101295
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0600101295
Contact Type: Local Agency Caseworker
Contact Name: AMY LEECH
Organization Name: ALAMEDA COUNTY LOP
Address: 1131 HARBOR BAY PARKWAY
City: ALAMEDA
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600101295
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: 01-1401
Facility Status: Case Closed
Case Number: 3681
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 5/28/1992
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Case Closed

SOUTHERN PACIFIC TRANSPORTATION COMPANY (Continued) **S105870950**

Record Id: RO0001127
PE: 5602

L39
NE
1/8-1/4
0.204 mi.
1079 ft.

MORGAN MARINE INC
1776 11TH ST INSIDE BLDG
OAKLAND, CA 94607

Site 2 of 4 in cluster L

RCRA-SQG **1000345679**
FINDS **CAD099955387**

Relative:
Equal

Actual:
14 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	MORGAN MARINE INC
Facility address:	1776 11TH ST INSIDE BLDG OAKLAND, CA 94607
EPA ID:	CAD099955387
Mailing address:	1776 ELEVEN ST OAKLAND, CA 94607
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	THOMAS & ROSEMARY MORGAN
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No

MORGAN MARINE INC (Continued) **1000345679**

Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	08/01/1990
Facility name:	MORGAN MARINE INC
Classification:	Large Quantity Generator
Violation Status:	No violations found

FINDS:

Registry ID: 110002666204

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

L40
NE
1/8-1/4
0.204 mi.
1079 ft.

MORGAN CHEMICAL INC
1776 11TH ST OUTDOOR STRG YARD
OAKLAND, CA 94607

Site 3 of 4 in cluster L

RCRA-SQG
FINDS
HAZNET

1000232678
CAD982413163

Relative:
Equal

Actual:
14 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	MORGAN CHEMICAL INC
Facility address:	1776 11TH ST OUTDOOR STRG YARD OAKLAND, CA 94607
EPA ID:	CAD982413163
Mailing address:	1776 ELEVEN STREET OAKLAND, CA 94607
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

MORGAN CHEMICAL INC (Continued) **1000232678**

hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	ROSEMARY & THOMAS MORGAN
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Municipal
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	08/10/1990
Facility name:	MORGAN CHEMICAL INC
Classification:	Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002807730

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA

MORGAN CHEMICAL INC (Continued) **1000232678**

program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

Year:	1994
Gepaid:	CAD982413163
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	1776 11TH STREET
Mailing City,St,Zip:	OAKLAND, CA 946070000
Gen County:	1
TSD EPA ID:	CAT080010101
TSD County:	San Diego
Waste Category:	Adhesives
Disposal Method:	H01
Tons:	.4587
Facility County:	1

Year:	1993
Gepaid:	CAD982413163
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	1776 11TH STREET
Mailing City,St,Zip:	OAKLAND, CA 946070000
Gen County:	1
TSD EPA ID:	CAT080010101
TSD County:	San Diego
Waste Category:	Laboratory waste chemicals
Disposal Method:	Not reported
Tons:	.0011
Facility County:	1

Year:	1993
Gepaid:	CAD982413163
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	1776 11TH STREET
Mailing City,St,Zip:	OAKLAND, CA 946070000
Gen County:	1
TSD EPA ID:	CAT080010101
TSD County:	San Diego
Waste Category:	Unspecified solvent mixture
Disposal Method:	H01
Tons:	.4170
Facility County:	1

Year:	1993
Gepaid:	CAD982413163
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	1776 11TH STREET
Mailing City,St,Zip:	OAKLAND, CA 946070000

MORGAN CHEMICAL INC (Continued) **1000232678**

Gen County: 1
TSD EPA ID: CAD000088252
TSD County: Los Angeles
Waste Category: Unspecified solvent mixture
Disposal Method: H01
Tons: .2293
Facility County: 1

Year: 1993
Gepaid: CAD982413163
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 1776 11TH STREET
Mailing City,St,Zip: OAKLAND, CA 946070000
Gen County: 1
TSD EPA ID: CAT080010101
TSD County: San Diego
Waste Category: Adhesives
Disposal Method: Not reported
Tons: .7297
Facility County: 1

Click this hyperlink while viewing on your computer to access
5 additional CA_HAZNET: record(s) in the EDR Site Report.

K41
SW
1/8-1/4
0.207 mi.
1092 ft.

SOUTHERN PACIFIC TRANSPORTAIO
1912 007TH ST
OAKLAND, CA 94607

Site 5 of 5 in cluster K

CA FID UST **S101624395**
SWEEPS UST **N/A**

Relative:
Lower

Actual:
13 ft.

CA FID UST:
Facility ID: 01002156
Regulated By: UTNKI
Regulated ID: 00024515
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4158917728
Mail To: Not reported
Mailing Address: 1912 007TH ST
Mailing Address 2: Not reported
Mailing City,St,Zip: OAKLAND 94607
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

SWEEPS UST:
Status: Not reported
Comp Number: 24515
Number: Not reported
Board Of Equalization: 44-000293
Ref Date: Not reported

SOUTHERN PACIFIC TRANSPORTAIO (Continued) **S101624395**

Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-024515-000001
Actv Date:	Not reported
Capacity:	2500
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	LEADED
Number Of Tanks:	3

Status:	Not reported
Comp Number:	24515
Number:	Not reported
Board Of Equalization:	44-000293
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-024515-000002
Actv Date:	Not reported
Capacity:	3000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	24515
Number:	Not reported
Board Of Equalization:	44-000293
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-024515-000003
Actv Date:	Not reported
Capacity:	2500
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	DIESEL
Number Of Tanks:	Not reported

L42 **MORGAN RESIDENCE** **RCRA-SQG** **1006930269**
ENE **1771 11TH STREET** **HAZNET** **CAR000147827**
1/8-1/4 **OAKLAND, CA 94607**
0.207 mi.
1095 ft. **Site 4 of 4 in cluster L**

Relative:
Equal

Actual:
14 ft.

RCRA-SQG:

Date form received by agency:	09/04/2003
Facility name:	MORGAN RESIDENCE
Facility address:	1771 11TH STREET OAKLAND, CA 94607
EPA ID:	CAR000147827

MORGAN RESIDENCE (Continued) **1006930269**

Mailing address:	1233 21ST STREET OAKLAND, CA 94607
Contact:	TOM H MORGAN
Contact address:	1233 21ST STREET OAKLAND, CA 94607
Contact country:	US
Contact telephone:	510-267-0134
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	TOM MORGAN
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/28/1986
Owner/Op end date:	Not reported

Owner/operator name:	TOM MORGAN
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/28/1986
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Hazardous Waste Summary:

Waste code:	D008

MORGAN RESIDENCE (Continued) **1006930269**

Waste name: LEAD

Violation Status: No violations found

HAZNET:
Year: 2004
Gepaid: CAR000147827
Contact: MORGAN RESIDENCE
Telephone: Not reported
Mailing Name: Not reported
Mailing Address: 1233 21ST STREET
Mailing City,St,Zip: OAKLAND, CA 946070000
Gen County: Alameda
TSD EPA ID: CAT080033681
TSD County: Los Angeles
Waste Category: Other inorganic solid waste
Disposal Method: D80
Tons: 0.2
Facility County: Not reported

J43
NE
1/8-1/4
0.210 mi.
1107 ft.

NAUTICAL ENGINEERING, INC **RCRA-SQG** **1010313100**
1790 - 11TH STREET **CAL000124582**
OAKLAND, CA 94607

Site 5 of 5 in cluster J

Relative:
Lower

Actual:
13 ft.

RCRA-SQG:
Date form received by agency: 02/03/2006
Facility name: NAUTICAL ENGINEERING, INC
Facility address: 1790 - 11TH STREET
OAKLAND, CA 94607
EPA ID: CAL000124582
Contact: MARILYN A DRUMMOND
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (510) 839-0902
Contact email: MARILYN@NAUTICALENGINEERING.COM
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NAUTICAL ENGINEERING
Owner/operator address: 1790 - 11TH STREET
OAKLAND, CA 94607
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/02/1994
Owner/Op end date: Not reported

Owner/operator name: NAUTICAL ENGINEERING, INC

NAUTICAL ENGINEERING, INC (Continued) **1010313100**

Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/02/1994
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	02/03/2006
Facility name:	NAUTICAL ENGINEERING, INC
Classification:	Large Quantity Generator

Hazardous Waste Summary:

Waste code:	D001
Waste name:	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Waste code:	D008
Waste name:	LEAD
Violation Status:	No violations found

M44
NW
1/8-1/4
0.211 mi.
1116 ft.

OAKLAND GATEWAY DEVELOPMENT AREA
700 MURMANSK STREET, SUITE 3
OAKLAND, CA 94607

Cortese **S107736946**
N/A

Site 1 of 2 in cluster M

Relative:
Lower

Actual:
11 ft.

Cortese:

Region:	CORTESE
Envirostor Id:	1970016
Site/Facility Type:	STATE RESPONSE
Cleanup Status:	ACTIVE

OAKLAND GATEWAY DEVELOPMENT AREA (Continued) **S107736946**

Status Date: 7/14/2004
Site Code: 201537
Latitude: 37.810333
Longitude: -122.312048
EPA Id: Not reported
Owner: Not reported
Enf Type: Not reported
Effective Date: Not reported
Order No: Not reported
Region: Not reported
WDID: Not reported
Swat R: Not reported
Waste Discharger System Num: Not reported
Solid Waste Id Num: Not reported
Waste Management Unit Name: Not reported
Agency Name: Not reported

M45
NW
1/8-1/4
0.211 mi.
1116 ft.

OAKLAND ARMY BASE-EARLY TRANSFER
700 MURMANSK STREET, SUITE 3
OAKLAND, CA 94607

HIST Cal-Sites
RESPONSE
ENVIROSTOR

S106568695
N/A

Site 2 of 2 in cluster M

Relative:
Lower

Actual:
11 ft.

HISTORICAL CAL-SITES:
Facility ID: 01970016
Region: 2
Region Name: BERKELEY
Branch: NO
Branch Name: OMF-NORTHERN CALIF
File Name: OAKLAND GATEWAY DEVELOPMENT AREA
State Senate District: 07142004
Status: AWP - ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency: DTSC
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type: CLOSE
Type Name: CLOSED MILITARY BASE
NPL: Not Listed
SIC Code: 97
SIC Name: NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Access: Not reported
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Confirmed
Staff Member Responsible for Site: HWONG
Supervisor Responsible for Site: Not reported
Region Water Control Board: Not reported
Region Water Control Board Name: Not reported
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 16
State Senate District Code: 09
Facility ID: 01970016
Activity: RMDL
Activity Name: REMEDIAL ACTION (RAP REQUIRED)

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

AWP Code: RMP
Proposed Budget: 0
AWP Completion Date: 06302013
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: DES
Activity Name: DESIGN
AWP Code: RMP
Proposed Budget: 0
AWP Completion Date: 06302013
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: RMDL
Activity Name: REMEDIAL ACTION (RAP REQUIRED)
AWP Code: US11A
Proposed Budget: 0
AWP Completion Date: 06302007
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: RMDL
Activity Name: REMEDIAL ACTION (RAP REQUIRED)
AWP Code: B99GW
Proposed Budget: 0
AWP Completion Date: 06302007
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: RMDL
Activity Name: REMEDIAL ACTION (RAP REQUIRED)
AWP Code: B808
Proposed Budget: 0
AWP Completion Date: 06302007
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01970016
Activity:	RMDL
Activity Name:	REMEDIAL ACTION (RAP REQUIRED)
AWP Code:	B99SO
Proposed Budget:	0
AWP Completion Date:	06302007
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01970016
Activity:	DES
Activity Name:	DESIGN
AWP Code:	B807
Proposed Budget:	0
AWP Completion Date:	06302006
Revised Due Date:	Not reported
Comments Date:	06062005
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01970016
Activity:	DES
Activity Name:	DESIGN
AWP Code:	B808
Proposed Budget:	0
AWP Completion Date:	06302006

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: DES
Activity Name: DESIGN
AWP Code: B991
Proposed Budget: 0
AWP Completion Date: 08152005
Revised Due Date: 08152005
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970016
Activity: DES
Activity Name: DESIGN
AWP Code: B99SO
Proposed Budget: 0
AWP Completion Date: 09302006
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01970016
Activity:	DES
Activity Name:	DESIGN
AWP Code:	B1
Proposed Budget:	0
AWP Completion Date:	06302005
Revised Due Date:	Not reported
Comments Date:	03302005
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01970016
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	BSWD
Proposed Budget:	0
AWP Completion Date:	06302014
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Alternate Address: 700 MURMANSK STREET, SUITE 3
Alternate City,St,Zip: OAKLAND, CA 94607
Background Info: ase which wil be redeveloped by the City of Oakland with a variet
y of commercial and industrial uses as part of the Gateway Develo
pment Area. Also, close to 185 acres (plus roughly 56 acres of s
ubmerged lands) will be developed by the Port of Oakland for mari
time, rail and other port activities as part of the Port Developm
ent Area. No residential uses will be allowed on the former Oakl
and Army Base property under the Amended Reuse Plan. The Amended
Reuse Plan, draft RAP, and draft RMP are analyzed in the former
Oakland Army Base Area Redevelopment Environmental Impact Report
pursuant to the California Environmental Quality Act. The Army h
as been conducting site environmental investigations and selected
remedial actions since 1989. DTSC is the primary agency oversee
ing the investigation and cleanup of the former Oakland Army Base
, and the Regional Water Qulaity Control Board, San Francisico Ba
y Region regulates the removal and closure of petroleum fuel tank
s. The Army’s remedial activities have included removal of above
ground petroleum storage tanks (ASTs) and underground petroleum s
torage tanks (USTs), excavation of contaminated soil and removed
petroleum hydrocarbons from monitoring wells at former tank locat
ions, excavation of pesticide-containing soil from the off-site w
etlands area, and replacement of many transformers and electrical
equipment containing polychlorinated biphenyls (PCBs).
On August 6, 2003, Governor Davis approved Early Transfer of the
former Oakland Army Base to the City of Oakland. The U.S. Army r
equested that the State of California approve the deferral of rem
ediation of hazardous substance contamination and approve the tra
nsfer of the 363.5 acre base to the Oakland Base Reuse Author- it
y and the City of Oakland acting by and through the Oakland Redev
elopment Agency via an Economic Development Conveyance process.
The City of Oakland will begin remediation of hazardous substance
s in soil and groundwater as required in the Remedial Action Play
(RAP). The early transfer advances economic development for Oak
land and the region by integrating redevelopment with remediation
. The RAP identifies preferred alternatives at seven sites which
have been fully investigated and characterized for release of haz
ardous substances and for which remediation would proceed upon fi
nal approval of the RAP. The Risk Management Plan (RMP), which is
an appendix to the RAP, addresses all other areas of known or po
tential contamination, which may not yet have been fully investig
ated or characterized. The RMP specifies health protective measur
es that must be follwed during and after redevelopment at these l
ocations. The RMP includes protocols for conducting inspections,
performing routine sampling, maintaining institutional and engine
ering controls, elevating RMP location to RAP sites as appropriat
e, and fulfilling reporting obligations. The former Oakland Arm
y Base comprises of approximately 425 acres. Much of the base pr
operty was originally tidal flats or shallow open water. During
the first half of 1900s, the area was filled to create the land s
ubsequently acquired by the Army 1941. The former Oakland Army B
ase served as a major Army cargo port and warehousing facility fr
om 1941 until it was closed under the Base Realignment and Closur
e program on September 30, 1999. Army activities supported the f
ormer Oakland Army Base’s primary military mission as a distribut
ion center and included maintaining and fueling railroad locomoti
ve engines and trucks that transported cargo, draining fluids fro

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

m vehicles for overseas shipment, and repairing and servicing veh
icles equipment, and base facilities. The Amended Draft final Reu
se Plan for the Oakland Army Base, Dated July 23, 2001 (Amended R
euse Plan), incoudes about 189 acres of the former Oakland Army B

Comments Date:	03302005
Comments:	DTSC accepted the PDIM.
Comments Date:	04272005
Comments:	DTSC approved the PDIM for Bldg 99 Soil.
Comments Date:	06062005
Comments:	DTSC approved the PDIM for Bldg 991.
ID Name:	CALSTARS CODE
ID Value:	201537
Alternate Name:	EDC AreaFORMER OAKLAND ARMY BASEOakland Gateway Development AreaOakland Army Base-Economic Development COakland Army Base-Early Transfer
Special Programs Code:	Not reported
Special Programs Name:	Not reported

AWP:

AWP Facility ID:	01970016
Region Code:	2
Region:	BERKELEY
SMBR Branch Code:	NO
SMBR Branch Unit:	OMF-NORTHERN CALIF
Site Name.:	OAKLAND GATEWAY DEVELOPMENT AREA
Current Status Date:	07142004
Current Status:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency Code:	DTSC
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type:	Closed military facility
Awp Site Type:	CLOSED MILITARY BASE
NPL:	Not Listed
Tier Of AWP Site:	Not reported
Source Of Funding:	Not reported
Responsible Staff Member:	HWONG
Supervisor Responsible:	Not reported
SIC Code:	97
Facility SIC:	NATIONAL SECURITY/INTERNATIONAL AFFAIRS
RWQCB Code:	Not reported
RWQCB Associated With Site:	Not reported
Site Access Controlled:	Not reported
Site Listed HWS List:	Not reported
Hazard Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Confirmed
# Of Contamination Sources:	0
Lat/Long:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Description Of Entity:	Not reported
State Assembly Distt Code:	16
State Senate District:	09

RESPONSE:

Facility ID:	01970016
Site Type:	State Response
Site Type Detail:	Closed Base

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Acres:	363.5
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	HENRY WONG
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	201537
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	16
Senate:	09
Special Program Status:	Not reported
Status:	Active
Status Date:	07/14/2004
Restricted Use:	NO
Funding:	BRAC 95
Latitude:	37.810333
Longitude:	-122.312048
APN:	NONE SPECIFIED
Past Use:	FOUNDRY, ILLEGAL DUMPING, LANDFILL - HAZARDOUS WASTE, MANUFACTURED GAS PLANT, OIL FIELD, UNKNOWN, BATTERY STORAGE, DEGREASING FACILITY, DISTRIBUTOR - CHEMICAL, DRY CLEANING, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, FUEL - VEHICLE STORAGE/ REFUELING, FUEL HYDRANT PUMPING STATIONS, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, ILLEGAL DUMPING, MACHINE SHOP, OIL/WATER SEPARATORS, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, RAIL ROAD MAINTENANCE SHOP, RECYCLING - DRUM, RECYCLING - OTHER, RECYCLING - SCRAP METAL, RECYCLING - USED OIL , SHIPYARD - TERMINAL, VEHICLE MAINTENANCE, TRANSFER STATION, MACHINE SHOP, OIL/WATER SEPARATORS, UNDERGROUND STORAGE TANKS, TRANSPORTATION - WAREHOUSING, FUEL - VEHICLE STORAGE/ REFUELING, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, ILLEGAL DUMPING, UNKNOWN, TRANSPORTATION - WAREHOUSING
Potential COC:	30000, 30009, 30013, 30018, 30019, 30024, 30025, 3002502, 30001, 30003, 30004, 30006, 30007, 30008, 30010, 30013, 30024, 30025, 3002502, 30026, 30027, 30028, 30001, 30013, 30018, 30024, 30025, 3002502, 30026, 30027, 30028, 30003, 30016, 30024, 30025, 3002502, 30272, 30550, 30593, 30027, 30028, 30195, 30196
Confirmed COC:	30000,30019,30024,30025,3002502,30018,30013,30009,, ,30001,30003,30004,30006,30007,30008,30010,30013,30024,30025,30026, 30027,30028,3002502,, ,30001,30024,30025,30026,3002502,30018,30027,30028,30013,, ,30003,30016,30272,30593,30024,30025,30550,3002502,, ,30027,30028,30195,30196
Potential Description:	OTH, SOIL, OTH, SED, SOIL, OTH, SOIL, SV, IA, OTH, SV, IA, OTH, SV
Alias Name:	EDC Area
Alias Type:	Alternate Name
Alias Name:	FORMER OAKLAND ARMY BASE
Alias Type:	Alternate Name
Alias Name:	Oakland Army Base-Early Transfer
Alias Type:	Alternate Name
Alias Name:	Oakland Army Base-Economic Development Conveyance Area
Alias Type:	Alternate Name
Alias Name:	Oakland Gateway Development Area
Alias Type:	Alternate Name
Alias Name:	01970006

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Alias Type:	Former Project ID
Alias Name:	110033612366
Alias Type:	EPA (FRS #)
Alias Name:	201537
Alias Type:	Project Code (Site Code)
Alias Name:	01970006
Alias Type:	Envirostor ID Number
Alias Name:	01970016
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	RMP Locations 11, 75, 86, 93, 105, 106, 108,
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	04/05/2010
Comments:	On April 5, 2010, DTSC determined that all appropriate removal/remedial actions had been completed and that all acceptable engineering practices were implemented; however, the site requires ongoing operation and maintenance and monitoring efforts. On August 8, 2003, the City of Oakland and DTSC executed and recorded the Covenant to Restrict Use of Property, Environmental Restriction for the Oakland Gateway Development Area, which includes RMP Locations 11, 75, 86, 93, 105, 106, 108, and 109. The City of Oakland implemented the institutional control remedy by recording the Covenant with the Alameda County Assessor s Office. The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, the first five-year statutory review is due for RMP Locations 11, 75, 86, 93, 105, 106, 108, and 109 by November 2010.

Completed Area Name:	Package E-1
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/24/2010
Comments:	On June 24, 2010, DTSC issued the Remedial Action Certification for the Package E-1 Area. On June 14, 2010, DTSC approved the Completion Report and concluded that the Port (a) had adequately investigated the site, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required remedies for the Package E-1 Area in accordance with the RAP and RMP.

Completed Area Name:	Package B
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/29/2010
Comments:	On June 29, 2010, DTSC issued the Remedial Action Certification for the Package B Area. On June 29, 2010, DTSC approved the Completion Report and concluded that the Port (a) had adequately investigated the site, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required remedies for the Package B Area in accordance with the RAP and RMP.

Completed Area Name:	USTs 11/12/13 & 11A/12A/13A
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/24/2010
Comments:	On June 24, 2010, DTSC issued the Remedial Action Certification for

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

the USTs 11/12/13 and 11A/12A/13A RAP Site. One June 24, 2010, DTSC approved the Completion Report and concluded that the Port of Oakland (a) had investigated the site adequately, (b) had implemented the required remedial action, (c) had monitored the groundwater for four quarters, and (d) had demonstrated achievement of the remedial action objectives at the USTs 11/12/13 and 11A/12A/13A RAP Site in accordance with the RAP, RMP, and RDIP.

Completed Area Name:	Bldg 99 GW
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/25/2009
Comments:	On 6/25/09, DTSC completed the Remedial Action Certification for the Building 99 Groundwater Remedial Action Plan (RAP) Site (also known as the VOCs in Groundwater near Building 99 RAP Site). In 2005, the Port of Oakland installed five wells and monitored the groundwater for four quarters. Soil data from the new well locations do not show VOC concentrations above normal reporting limits. Groundwater data from the monitoring events confirm that the VOC concentrations are below the remediation goals. The cumulative excess cancer risk less than 1.0E-05 and non-cancer hazard index less than 1 for potential industrial/commercial human receptors.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	04/20/2010
Comments:	On March 22, 2010 DTSC, City of Oakland, and Port of Oakland inspected the Oakland Gateway Development Area. DTSC found site activities consistent with the land use covenant.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	08/11/2008
Comments:	The Port of Oakland and City of Oakland are requesting five years extension for the following RAP Sites:

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	08/12/2008
Comments:	DTSC issued a letter identifying that the trigger date for a statutory five-year review was the mobilization date of Building 1 remedy implementation (i.e., November 28, 2005). Therefore, DTSC should review and approve the first statutory five-year review report on or before November 28, 2010. The letter specifies that the first Draft Five-Year Review Report is due in May 2010.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction Monitoring Report
Completed Date:	01/28/2009
Comments:	The City of Oakland and the Port of Oakland provided their Annual Certification letters for the Gateway Development Area (GDA) and the Port Development Area (PDA), respectively on 1/13/09 and 1/22/09. These letters certify compliance with the environmental restrictions

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of the Oakland Gateway Development Area (OGDA) as required by the Covenant to Restrict Use of Property, Environmental Restriction Section 4.01(e). DTSC has reviewed and concurred with the Annual Certification letters.

Completed Area Name:	Bldg 807
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	10/19/2009
Comments:	DTSC approved the Remedial Design and Implementation Plan for VOCs in Groundwater at Eastern End of Building 807 RAP Site on 10/19/09. The overall remedial action sequence is as follows: 1.

Completed Area Name:	Bldg 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	05/26/2006
Comments:	DTSC approved the Plan Modification Request Number 1 for Section 2.8 of the Soil Treatment Process Plan for the Building 1 Area. DTSC concurs that the City of Oakland may use pH indicator test strips in the field for the pre-treatment samples from Organic Residue.

Completed Area Name:	Bldg 99 GW
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	03/30/2005
Comments:	DTSC approved the Pre-Design Investigation Memorandum on 3/30/05 for the Building 99 Groundwater Remedial Action Plan Site.

Completed Area Name:	Bldg 99 Soil
Completed Sub Area Name:	Not reported
Completed Document Type:	* Remedial Action Completion or Implementation
Completed Date:	07/16/2007
Comments:	On 7/16/07, DTSC approved the Completion Report for the Building 99 Soil Remedial Action Plan (RAP) Site, and four adjacent Risk Management Plan (RMP) Locations listed below: Potential Lead-Based Paint Impacted Soils outside of Building 99 (NAD83 Northing and Easting Coordinates: 2125825, 6039940), Hydraulic Lift Cylinders inside Building 99 (NAD83 Northing and Easting Coordinates: 2125712, 6039884), Former Oily-Water Separator (OWS-4) outside the Southeastern Corner of Building 99 (NAD83 Northing and Easting Coordinates: 2125570, 6039966), and Decommissioned Washrack (Facility 98) outside the Southeastern Corner of Building 99 (NAD83 Northing and Easting Coordinates: 2125642, 6039973). The Port of Oakland completed further investigation to show that the residual soils contain chemical of concerns meeting the remediation goals at the Building 99 Soil RAP Site and four adjacent RMP Locations.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Newsletter
Completed Date:	04/15/2005
Comments:	The Community Update presents the cleanup status of the portion of the former Oakland Army Base, now known as the Former Oakland Army Base Economic Development Conveyance Area. The update also transmits a survey to solicit community inputs regarding the cleanup project.

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Completed Area Name:	Bldg 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	06/14/2006
Comments:	DTSC concluded that there was no need for a formal draft final document.
Completed Area Name:	Bldg 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Plan
Completed Date:	08/01/2008
Comments:	DTSC confirmed that the City has responded and revised the Health and Safety Plan appropriately. DTSC s 7/29/08 letter serves as agency concurrence on the subject document.
Completed Area Name:	Bldg 99 GW
Completed Sub Area Name:	Not reported
Completed Document Type:	* Remedial Action Completion or Implementation
Completed Date:	07/16/2007
Comments:	On 7/16/07, DTSC approved the Completion Report, VOCs in Groundwater near Building 99 RAP Site. In 2005, the Port of Oakland installed five wells and monitored the groundwater for four quarters. Soil data from the new well locations do not show VOC concentrations above normal reporting limits. Groundwater data from the monitoring events confirm that the VOC concentrations are below the remediation goals. The cumulative excess cancer risk less than 1.0E-05 and non-cancer hazard index less than 1 for potential industrial/commercial human receptors.
Completed Area Name:	Bldg 807
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	10/24/2005
Comments:	On 10/24/05, DTSC approved the Pre-Design Investigation Memorandum (PDIM) dated September 19, 2005 for volatile organic compounds in groundwater in the vicinity of Buildings 807, 808, and 823 at the Former Oakland Army Base Economic Development Conveyance Area. The PDIM proposes additional investigates to aid the Remedial Design and Implementation Plan preparation.
Completed Area Name:	Bldg 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	02/14/2006
Comments:	DTSC approved the Remedial Design and Implementation Plan which proposes detailed cleanup actions at the Former Oil Reclaiming Plant/Building 1 Area. The City of Oakland will remediate soils and sludge contaminated with organic chemicals, neutralize corrosive soils, stabilize lead in soils, and dispose all wastes at permitted land disposal facilities.
Completed Area Name:	USTs 11/12/13 & 11A/12A/13A
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/24/2010
Comments:	On June 24, DTSC approved the June 2010 Completion Report for USTs 11/12/13 and 11A/12A/13A RAP Site and concluded that the Port of

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Oakland (a) had investigated the site adequately, (b) had implemented the required remedial action, (c) had monitored the groundwater for four quarters, and (d) had demonstrated achievement of the remedial action objectives at the USTs 11/12/13 and 11A/12A/13A RAP Site in accordance with the RAP, RMP, and RDIP.

Completed Area Name: Bldg 1
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 05/12/2009
Comments: On May 12, 2009, DTSC concluded that the City of Oakland has implemented the remedy pursuant to the Remedial Action Plan (RAP) and Remedial Design Implementation Plan (RDIP) at the Building 1 RAP Site and has demonstrated achievement of the remedial action objectives. Approximately 11,642 tons of treated Building 1 remediation waste was disposed of as non-RCRA hazardous waste at the Kettleman Hills Landfill. Approximately 578 tons of overburden soil, that was deemed unsuitable for on-site reuse, was disposed of as non-hazardous daily cover at the Altamont Facility. Approximately 10,000 gallons of wastewater, which included decontamination water and water from utility demolition was discharged to the City of Oakland sewer system in accordance with the East Bay Municipal Utility District Wastewater Discharge Permit and City of Oakland Building Inspection Sewer Permit. No excavation dewatering was conducted. Approximately 1 ton of sediment removed from the decontamination tank during cleaning was sampled and analyzed, and subsequently disposed of as non-hazardous daily cover at the Altamont Facility.

Completed Area Name: USTs 11/12/13 & 11A/12A/13A
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 08/23/2007
Comments: DTSC approved the Remedial Design and Implementation Plan for USTs 11/12/13 and 11A/12A/13A RAP Site (RDIP) dated August 2007. The RDIP describes the remedial activities at the USTs 11/12/13 AND 11A/12A/13A RAP Site. The Remedy includes re-excavating the backfill of the former USTs 11/12/13 excavation to one to two feet below the groundwater table (approximately 30 x 37 x 8 depth), pumping out groundwater that accumulates in the excavation, collecting confirmation soil samples on the sidewalls and floor, introducing oxygen release compound to the bottom of the excavation, backfilling excavation, and conducting quarterly groundwater monitoring at the site for at least one year.

Completed Area Name: Bldg 1
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 11/21/2003
Comments: DTSC approved the Pre-Design Investigation Memorandum on 11/21/03 for the Building 1 Area. The memorandum describes a focused, pre-design investigation to obtain additional visual descriptions of encountered soil and waste layers, soil physical parameter data, and limited chemical data that will be useful for finalizing design decisions and to provide information to bidding remediation contractors.

Completed Area Name: RMP Location - Building 99 Debris Area
Completed Sub Area Name: Not reported

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Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 02/14/2006
Comments: DTSC approved the Report on Phase I Investigation and Work Plan for Phase II Investigation of Debris Area near Building 99 on February 14, 2006. The Phase I Report summarizes findings on two test pits. The Phase II Work Plan proposes investigation to define the lateral and vertical extent of contamination at the Debris Area.

Completed Area Name: Bldg 1
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/22/2006
Comments: DTSC approved the Plan Modification Request Number 4 for a modification to the Soil Treatment Process Plan to include the use of the Caterpillar 330 excavator (as described in the plan Section 2.2), Front Loader (as described in the plan Section 2.2), and/or a Caterpillar D5 Dozer to mix the reagent with the Building 1 waste.

Completed Area Name: Bldg 808 and 823
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/08/2009
Comments: DTSC concludes that the City of Oakland (a) has implemented the selected remedy pursuant to the Remedial Action Plan and Pre-Design Investigation Memorandum and (b) has demonstrated achievement of the remedial action objectives for the Buildings 808 and 823 RAP Site. DTSC hereby approves the Completion Report. DTSC will change the status of the Buildings 808 and 823 RAP Site on its EnviroStor database to Certified with Ongoing Operation and Maintenance.

Completed Area Name: Bldg 99 Soil
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 04/27/2005
Comments: DTSC approved the Pre-Design Investigation Memorandum on 4/27/05 for the Building 99 Soil Remedial Action Plan Site. The memorandum is a sampling plan for additional soil investigation at the Building 99 area to supplement existing data.

Completed Area Name: Bldg 991
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 06/06/2005
Comments: DTSC approved the Pre-Design Investigation Memorandum on 6/6/05 for the Building 991 Remedial Action Plan Site.

Completed Area Name: RMP Locations
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 08/19/2008
Comments: DTSC reviewed sampling proposals for the Risk Management Plan (RMP) Locations at Packages E-1 and E-2 emailed on 3/16/07. Package E-1 contains RMP Locations 71, 72, 73, 79, 81, and 92. Package E-2 contains RMP Location 90. DTSC provided verbal comments on the sampling strategy during the 7/3/07 Environmental Technical Team Meeting (meeting minutes #37). DTSC forwarded a concurrence to the Port of Oakland stating that the Packages E-1 and E-2 sampling

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proposals are consistent with the RMP (i.e., Appendix E of the 9/27/02 DTSC-approved Remedial Action Plan). The RMP itself is already a Remedial Design for all RMP Locations.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Workplan
Completed Date: 08/12/2008
Comments: DTSC concurs with the well destruction proposal for the following 40 groundwater monitoring wells: BB-3, EMW1, EMW2, EMW3, ICFMW216, ITMW237, ITMW238, ITMW239, ITMW241, ITMW242, ITMW245, ITMW246, ITMW247, ITMW248, ITMW251, K738BM01, K738DW01, K99BM01 or B99BM01, K99DW01 or B99DW01, K99DW02 or B99DW02, OBMW01, OBMW02, SMW-21, SMW-48, SMW-53, SMW-55, SMW-56, SMW-65, SMW-66, SMW-69, SMW-70, SMW-71, SMW-72, SMW-73, SMW-74, SMW-75, SMW-88, SMW-89, SMW-90, and SMW-92. DTSC requests the City of Oakland to destroy the wells in accordance with the procedures outlined in Appendix B, Section 2.6 of the DTSC-approved Quality Assurance Program Plan dated April 8, 2005.

Completed Area Name: USTs 11/12/13 & 11A/12A/13A
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Constructed: Operating Properly & Successfully
Completed Date: 04/22/2010
Comments: On 4/22/10, DTSC approved the Technical Report for Implementation of Remedial Action at UST 11/12/13 and 11A/12A/13A RAP Site (Technical Report) dated April 2010. The Port of Oakland commenced remediation in August 2007 and completed field activities in October 2007. The Technical Report documents the cleanup activities pursuant to the DTSC-approved Remedial Design and Implementation Plan dated August 23, 2007.

Completed Area Name: Bldg 1
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 11/25/2008
Comments: On 11/25/08, DTSC approves the revised Operations and Maintenance Plan, Former ORP/Building 1 Area Remediation Project, Former Oakland Army Base Economic Development Conveyance Area (O&M Plan). The O&M Plan proposes (a) groundwater monitoring at the Building 1 Remedial Action Plan Site and (b) compliance reporting pursuant to the 8/8/03 Covenant to Restrict Use of Property, Environmental Restriction. The City of Oakland has satisfactorily responded to DTSC s 5/12/08 comments and revised the O&M Plan accordingly.

Completed Area Name: RMP Location - Building 99 Debris Area
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 12/12/2007
Comments: The investigation work plan presents a general approach to performing exploratory investigation activities and collecting soil samples to further define the extent of the debris containing layer and fill data gaps from prior investigations. The plan addresses the Building 99 Debris Area as a Risk Management Plan Location to be remediated in accordance with the DTSC-approved 2002 Final Remedial Action Plan / Risk Management Plan.

Completed Area Name: RMP Location - Building 99 Debris Area

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Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 01/19/2011
Comments: The Phase II Report concludes that further investigation and remediation are necessary, both within and outside of the EDC Area. The Port of Oakland and City of Oakland own separate portions of off-site areas potentially contaminated with hazardous substances from the Debris Area. DTSC has requested the Port and City to provide a schedule for subsequent investigation and remediation for the Debris Area within the EDC Area and adjacent off-site areas.

Completed Area Name: RMP Location - Building 99 Debris Area
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 04/13/2011
Comments: The Investigation Report confirms the presence of contamination within the EDC Area. This contamination is likely impacting off-site areas west of the Debris Area.

Completed Area Name: RMP Locations 3, 4, 5, and 6
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 04/29/2009
Comments: The City of Oakland (a) has adequately investigated Risk Management Plan (RMP) Locations 3, 4, 5, and 6, (b) has demonstrated achievement of the remedial action objectives, and (c) has implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name: Package E-1
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/14/2010
Comments: On June 14, 2010, DTSC approved the June 2010 Completion Report for the Package E-1 Area. Based on the information presented in the Completion Report, DTSC concluded that the Port of Oakland (a) had adequately investigated the site, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required remedies for the Package E-1 Area in accordance with the Remedial Action Plan and Risk Management Plan.

Completed Area Name: Package E-2
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/29/2010
Comments: On June 29, 2010, DTSC approved the Completion Report and concluded that the Port (a) had adequately investigated the site, (b) had demonstrated achievement of remedial action objectives, and (c) had implemented the required remedies for the Package E-2 Area in accordance with the RAP and RMP.

Completed Area Name: RMP Location 96
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 02/09/2011
Comments: On February 9, 2011, DTSC issued the Remedial Action Certification for Risk Management Plan (RMP) Location 96. On February 2, 2011, DTSC approved the Request for Completion and concluded that the City of

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Oakland (a) had documented the removal of impacted-soil from RMP Location 96, (d) had presented investigation results to demonstrate the achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the project site including RMP Location 96.

Completed Area Name:	RMP Locations 27, 28, and 89
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/07/2011
Comments:	On 6/1/2011, DTSC issued a Remedial Action Certification for RMP Locations 27, 28, and 89 attesting that the Port of Oakland (a) had adequately investigated RMP Locations 27, 28, and 89, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name:	RMP Locations 7, 22, and 29
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	03/17/2011
Comments:	On March 17, 2011, DTSC issued the Remedial Action Certification for Risk Management Plan (RMP) Locations 7, 22, and 29. On March 15, 2011, DTSC approved the Request for Completion and concluded that the City of Oakland (a) had adequately investigated RMP Locations 7, 22, and 29, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name:	RMP Locations 48-51, 83, 115, 116, 119, and 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/01/2011
Comments:	On 6/1/2011, DTSC issued a Remedial Action Certification for RMP Locations 48, 49, 50, 51, 83, 115, 116, 119, and 120 attesting that the Port of Oakland (a) had adequately investigated RMP Locations 48, 49, 50, 51, 83, 115, 116, 119, and 120, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name:	RMP Locations 23, 24, 25, 87, 88, 113, 114, a
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	07/19/2010
Comments:	On July 19, 2010, DTSC determined that all appropriate removal/remedial actions had been completed and that all acceptable engineering practices were implemented; however, the site requires ongoing operation and maintenance and monitoring efforts. On August 8, 2003, the City of Oakland and DTSC executed and recorded the Covenant to Restrict Use of Property, Environmental Restriction for the Oakland Gateway Development Area, which includes RMP Locations 23, 24, 25, 87, 88, 113, 114, and 123. The City of Oakland implemented the institutional control remedy by recording the Covenant with the Alameda County Assessor s Office. The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render

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the property not suitable for unrestricted use, the first five-year statutory review is due for RMP Locations 23, 24, 25, 87, 88, 113, 114, and 123 by November 2010.

Completed Area Name:	Bldg 808 and 823
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/18/2009
Comments:	On October 24, 2005, DTSC approved the Pre-Design Investigation Memorandum (PDIM) for additional four quarters of groundwater monitoring to better define the plume boundary and to aid preparation of the remedial design document. Vinyl chloride is the only COC for the Buildings 808 and 823 RAP Site. The maximum detected concentration of vinyl chloride in groundwater from four recent quarterly monitoring events was 26 g/L, which is below the remediation goal of 32 g/L. All other VOCs were below the respective remediation goals. On March 20, 2009, DTSC issued the Risk Management Plan Modification letter specifying new language for RMP, Section 6.2 regarding vapor intrusion mitigation measures. This RMP Modification requires additional evaluation and consultation with DTSC if new buildings were to be constructed at the Buildings 808 and 823 RAP Site and vicinity areas. The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, five-year statutory reviews are required for the Buildings 808 and 823 RAP Site. The trigger date for a statutory five-year review was the mobilization date of first remedy implementation for the Oakland Gateway Development Area project (i.e., Building 1 RAP Site on November 28, 2005). Therefore, DTSC should review and approve the first statutory five-year review report on or before November 28, 2010. As a result, DTSC shall receive the first Draft Five-Year Review Report in May 2010.

Completed Area Name:	Bldg 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/18/2009
Comments:	On February 14, 2006, DTSC approved the Remedial Design and Implementation Plan (RDIP) for the Building 1 RAP Site. The RDIP detailed cleanup procedures for contaminated soil and treatment for the Building 1 remediation waste. The City of Oakland commenced site preparatory activities on November 28, 2005, excavated soils and treated hazardous wastes on-site in 2006, and completed site restoration in early 2007. The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, five-year statutory reviews are required for this site. The trigger date for a statutory five-year review was the mobilization date of the Building 1 remedy implementation, November 28, 2005. Therefore, DTSC should review and approve the first statutory five-year review report on or before November 28, 2010. As a result, DTSC shall receive the first Draft Five-Year Review Report in May 2010.

Completed Area Name:	RMP Locations 8, 10, 19/107, and 97
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification

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Completed Date: 06/28/2011
Comments: On 6/28/2011, DTSC issued a Remedial Action Certification for RMP Locations 8, 10, 19, 97, and 107 attesting that the City of Oakland (a) had adequately investigated RMP Locations 8, 10, 19, 97, and 107, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name: Package D-1/C-1
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/14/2011
Comments: On 6/14/2011, DTSC issued a Remedial Action Certification for the Package D-1/C-1 Area attesting that the Port of Oakland (a) had adequately investigated and remediated the Package D-1/C-1 Area, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject areas.

Completed Area Name: RMP Locations 3, 4, 5, and 6
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/29/2010
Comments: On April 29, 2009, DTSC determined that all appropriate removal/remedial actions had been completed and that all acceptable engineering practices were implemented; however, the site requires ongoing operation and maintenance and monitoring efforts. On August 8, 2003, the City of Oakland and DTSC executed and recorded the Covenant to Restrict Use of Property, Environmental Restriction for the Oakland Gateway Development Area, which includes RMP Locations 3, 4, 5, and 6. The City of Oakland implemented the institutional control remedy by recording the Covenant with the Alameda County Assessor s Office. The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, the first five-year statutory review is due for RMP Locations 3, 4, 5, and 6 by November 2010.

Completed Area Name: RMP Locations 20, 99, and 100
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/29/2010
Comments: On March 4, 2008, DTSC determined that all appropriate removal/remedial actions had been completed and that all acceptable engineering practices were implemented; however, the site requires ongoing operation and maintenance and monitoring efforts. On August 8, 2003, the City of Oakland and DTSC executed and recorded the Covenant to Restrict Use of Property, Environmental Restriction for the Oakland Gateway Development Area, which includes RMP Locations 20, 99, and 100. The City of Oakland implemented the institutional control remedy by recording the Covenant with the Alameda County Assessor s Office. The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, the first five-year statutory review is due for RMP Locations 20, 99, and 100 by November 2010.

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Completed Area Name:	Package E-2
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/29/2010
Comments:	On June 29, 2010, DTSC issued the Remedial Action Certification for the Package E-2 Area. On June 29, 2010, DTSC approved the Completion Report and concluded that the Port (a) had adequately investigated the site, (b) had demonstrated achievement of remedial action objectives, and (c) had implemented the required remedies for the Package E-2 Area in accordance with the RAP and RMP.
Completed Area Name:	Bldg 99 Soil
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/25/2009
Comments:	On 6/25/09, DTSC completed the Remedial Action Certification for the Building 99 Soil Remedial Action Plan (RAP) Site, and four adjacent Risk Management Plan (RMP) Locations listed below: Potential Lead-Based Paint Impacted Soils outside of Building 99 (NAD83 Northing and Easting Coordinates: 2125825, 6039940), Hydraulic Lift Cylinders inside Building 99 (NAD83 Northing and Easting Coordinates: 2125712, 6039884), Former Oily-Water Separator (OWS-4) outside the Southeastern Corner of Building 99 (NAD83 Northing and Easting Coordinates: 2125570, 6039966), and Decommissioned Washrack (Facility 98) outside the Southeastern Corner of Building 99 (NAD83 Northing and Easting Coordinates: 2125642, 6039973). The Port of Oakland completed further investigation to show that the residual soils contain chemical of concerns meeting the remediation goals at the Building 99 Soil RAP Site and four adjacent RMP Locations.
Completed Area Name:	Bldg 807
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedy Constructed: Operating Properly & Successfully
Completed Date:	10/14/2010
Comments:	On 10/14/10, DTSC approved the Remedial Action Implementation Report for the Building 807 RAP Site. DTSC concurred that the Port of Oakland had successfully constructed the remedy which included injecting Hydrogen Releasing Compound at 76 locations at the Building 807 RAP Site. The Port of Oakland will begin groundwater monitoring program as scheduled.
Completed Area Name:	RMP Locations 7, 22, and 29
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	03/15/2011
Comments:	DTSC approved the Request for Completion and concluded that the City of Oakland (a) had adequately investigated RMP Locations 7, 22, and 29, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.
Completed Area Name:	Bldg 991
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Design - Preliminary/Intermediate
Completed Date:	01/26/2011
Comments:	DTSC approved the Tech Memo proposing the soil remediation goals for dieldrin, endrin, and lindane to be 0.13, 0.021, and 0.10 mg/kg,

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respectively, for the Building 991 RAP Site only.

Completed Area Name: Package D-1/C-1
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/14/2011
Comments: DTSC approved the Completion Report and concluded that the Port of Oakland (a) had adequately investigated and remediated the Package D-1/C-1 Area, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject areas.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence - Received
Completed Date: 10/27/2010
Comments: On 10/27/10, DTSC approved the waiver request allowing the City of Oakland s sub-lessee, Anka Behavioral, to use the interior of Building 821 as an emergency winter shelter for homeless individuals from November 1, 2010 through April 30, 2011.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence - Received
Completed Date: 04/21/2009
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence - Received
Completed Date: 10/10/2008
Comments: On 10/10/2008, DTSC approved the City of Oakland s request allowing Anka Behavioral to use the interior of Building 821 as an emergency winter shelter for homeless individuals from November 1, 2008 through April 30, 2009.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence - Received
Completed Date: 10/31/2006
Comments: On 10/31/06, DTSC approved the Interim Land Use Waiver request allowing Operation Dignity to use the interior of Building 821 as an emergency winter shelter for homeless individuals from November 2006 through April 2007, and from November 2007 through April 2008.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence - Received
Completed Date: 03/27/2007
Comments: On 3/27/07, DTSC approved an Interim Land Use Waiver request allowing CEDA to use the Building 821 Lot as a winter encampment area as specified in CEDA s February 8, 2007 request letter. This Interim Land Use Waiver allows CEDA to operate the Building 821 Lot from April through August 2007. The wavier does not apply to any date not specified. This Interim Land Use Waiver expires on August 31, 2007.

Completed Area Name: Sites With No Operable Unit

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence - Received
Completed Date:	07/11/2007
Comments:	On 7/11/07, DTSC approved an extension request allowing CEDA to use the Building 821 Lot from September 1, 2007 through April 30, 2008.
Completed Area Name:	RMP Location 96
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	02/02/2011
Comments:	On February 2, 2011, DTSC approved the Request for Completion and concluded that the City of Oakland (a) had documented the removal of impacted-soil from RMP Location 96, (d) had presented investigation results to demonstrate the achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the project site including RMP Location 96.
Completed Area Name:	Bldg 807
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	11/15/2010
Comments:	DTSC acknowledged the receipt of the September 2010 Quarterly Groundwater Monitoring Data Report. Formal regulatory review on the data report is not necessary at this time. A completion report with data interpretation is forth coming at an appropriate time.
Completed Area Name:	Package B
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/29/2010
Comments:	On 6/29/10, DTSC approved the Completion Report for the Package B Area and concluded that the Port of Oakland (a) had adequately investigated the site, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required remedies for the Package B Area in accordance with the RAP and RMP.
Completed Area Name:	RMP Locations 11, 75, 86, 93, 105, 106, 108,
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	10/20/2009
Comments:	Based on the information presented in the Completion Request, DTSC concludes that environmental data do not suggest evidence of contamination. DTSC hereby concurs that the City of Oakland (a) has adequately investigated RMP Locations 11, 75, 86, 93, 105, 106, 108, and 109, (b) has demonstrated achievement of the remedial action objectives, and (c) has implemented the required institutional control remedy for the subject RMP Locations. DTSC requested the City of Oakland to collect a grab groundwater sample at RMP Location 107 (UST-19) to fill a data gap. The City of Oakland has agreed to collect additional groundwater data at RMP Location 107 and defer the completion request for this location.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	04/20/2010
Comments:	On March 22, 2010 DTSC, City of Oakland, and Port of Oakland

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

inspected the Oakland Gateway Development Area. DTSC found site activities consistent with the land use covenant.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	03/01/2011
Comments:	DTSC reviewed the Annual Certification letters for the Oakland Gateway Development Area covering the Gateway Development Area (GDA) and Port Development Area (PDA), dated 2/4/11 and 1/6/11, respectively. DTSC has no comment.
Completed Area Name:	Bldg 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	10/22/2009
Comments:	The City of Oakland conducted quarterly monitoring events in August 2008, November 2008, February 2009, and May 2009 at five monitoring wells B1MW001 through B1MW005. The results of four quarters of groundwater monitoring at the Building 1 Area indicate that the groundwater monitoring objectives have been met. No volatile COCs are present in groundwater at concentrations above remediation goals, and no significant increases in concentrations of metals or other non-volatile COCs are occurring. Based on the information presented in the July 24, 2009 Report, DTSC concurs with the City of Oakland s request to terminate groundwater monitoring at the Building 1 Area.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	11/16/2009
Comments:	DTSC has received the Port of Oakland s September 23, 2009 letter proposing Risk Management Plan (RMP) implementation protocols for storm drains and sanitary sewers (SD/SS). The September 27, 2002 DTSC-approved RMP includes SD/SS within the RMP Implementation Area. However, the RMP does not address implementation for "SD/SS without suspected or known contamination." DTSC issued a letter on 11/16/09 clarifying Section 2.2.2.7 of the RMP and specifying implementation protocols for "SD/SS without suspected or known contamination."
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Workplan
Completed Date:	05/11/2010
Comments:	On 5/11/10, DTSC completed initial review of a draft section from the draft Five-Year Review Report regarding remediation goals (RGs) for lead and total petroleum hydrocarbons (TPHs) at the Oakland Gateway Development Area (aka: Former OARB - EDC Area). DTSC agrees with the lead RG but disagrees with the TPH RGs.
Completed Area Name:	RMP Locations 20, 99, and 100
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	03/04/2008
Comments:	Based on the information presented in the 4/10/07 letter report, DTSC concluded that environmental data do not suggest potential of contamination. On 3/4/08, DTSC concurred that the City of Oakland (a)

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

has adequately investigated RMP Locations 20, 99, and 100, (b) has demonstrated achievement of the remedial action objectives, and (c) has implemented the required remedies for the subject RMP Locations. In addition, DTSC agreed with decommission of well ITMW241 associated with RMP Location 20.

Completed Area Name:	RMP Locations 23, 24, 25, 87, 88, 113, 114, a
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	07/19/2010
Comments:	On July 19, 2010, DTSC approved the City of Oakland s Completion Request and concluded that the City of Oakland (a) had investigated RMP Locations 23, 24, 25, 87, 88, 113, 114, and 123 adequately, (b) had removed 842 cubic yards of impacted-soil from RMP Locations 23, 113, and 123, (c) had demonstrated achievement of the remedial action objectives, and (d) had implemented the required institutional control remedy for the subject RMP Locations. DTSC also approved the identification of RMP Location 159 to be addressed during future site redevelopment.

Completed Area Name:	RMP Locations 8, 10, 19/107, and 97
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Design - Preliminary/Intermediate
Completed Date:	07/15/2010
Comments:	DTSC reviewed the Site Health and Safety Plan and concurred that the City of Oakland may proceed with field investigation at RMP Locations 8, 10, 19, 97, and 107 as schedule pursuant to the DTSC-approved Risk Management Plan.

Completed Area Name:	RMP Locations 27, 28, and 89
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Design - Preliminary/Intermediate
Completed Date:	02/02/2011
Comments:	DTSC concurred with the sampling proposal for RMP Locations 27, 28, and 89.

Completed Area Name:	RMP Locations 48-51, 83, 115, 116, 119, and 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/01/2011
Comments:	DTSC approved the Completion Report and concluded that the Port of Oakland (a) had adequately investigated RMP Locations 48, 49, 50, 51, 83, 115, 116, 119, and 120, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name:	RMP Locations 8, 10, 19/107, and 97
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/28/2011
Comments:	DTSC approved the Completion Request and concluded that the City of Oakland (a) had adequately investigated RMP Locations 8, 10, 19, 97, and 107, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name:	Outfalls 8 through 11

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Completed Sub Area Name: Not reported
Completed Document Type: Ecological Risk Assessment Report
Completed Date: 01/26/2011
Comments: Instead of re-reviewing the 2002/2003 documents, DTSC believes that a supplemental marine sediment investigation and new risk evaluation are necessary. Depending on the results, DTSC may require a feasibility study and Remedial Action Plan Amendment to select the final remedy for Outfalls 8 through 11.

Completed Area Name: Bldg 807
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/26/2011
Comments: DTSC acknowledged the receipt of the December 2010 Quarterly Groundwater Monitoring Data Report. Formal regulatory review on the data report is not necessary at this time. A completion report with data interpretation is forth coming at an appropriate time.

Completed Area Name: RMP Locations 15, 91, and 98
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Implementation Workplan
Completed Date: 05/09/2011
Comments: The City will incorporate DTSC’s recommendations as provided in DTSC 4/19/11 comment memorandum.

Completed Area Name: RMP Locations 27, 28, and 89
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/07/2011
Comments: DTSC approved the Completion Report and concluded that the Port of Oakland (a) had adequately investigated RMP Locations 27, 28, and 89, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name: RMP Locations 43, 125, 128, and 160
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 07/26/2011
Comments: DTSC approved the Port’s proposal to investigate RMP Locations 43, 125, 128, and 160 as specified.

Completed Area Name: RMP Locations 1 and 2
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 08/02/2011
Comments: DTSC has reviewed EKI’s 7/20/11 sampling approach at location K02S107 and agrees with the proposal.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 12/10/2008
Comments: DTSC’s Environmental Chemistry Lab recommends 50 to 100 gm of samples to be extracted (by rinsing with appropriate solvents), followed by methods 6010, 8270, 1664, 8081, 8141, 8028 etc.) for COC mentioned.

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Future Area Name: Basewide
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2015
Future Area Name: Bldg 991
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Completion Report
Future Due Date: 2012
Future Area Name: Bldg 807
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Completion Report
Future Due Date: 2013
Future Area Name: RMP Locations
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Completion Report
Future Due Date: 2014
Future Area Name: RMP Locations 43, 125, 128, and 160
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2012
Future Area Name: RMP Locations
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2014
Future Area Name: Bldg 807
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2013
Future Area Name: Bldg 991
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2012
Future Area Name: Basewide
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2015
Future Area Name: Basewide
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2020
Schedule Area Name: Package A
Schedule Sub Area Name: Not reported
Schedule Document Type: Certification
Schedule Due Date: 11/30/2011
Schedule Revised Date: Not reported
Schedule Area Name: RMP Locations in the Central Motor Pool Area
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Action Completion Report
Schedule Due Date: 2/28/2012
Schedule Revised Date: Not reported
Schedule Area Name: Package A
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Action Completion Report
Schedule Due Date: 10/30/2011
Schedule Revised Date: Not reported
Schedule Area Name: Categorical RMP Location 147 Geotechnical Borings
Schedule Sub Area Name: Not reported

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Schedule Document Type: Remedial Action Completion Report
Schedule Due Date: 6/30/2012
Schedule Revised Date: Not reported
Schedule Area Name: RMP Locations 43, 125, 128, and 160
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Action Completion Report
Schedule Due Date: 4/30/2012
Schedule Revised Date: Not reported
Schedule Area Name: Bldg 991
Schedule Sub Area Name: Not reported
Schedule Document Type: Design/Implementation Workplan
Schedule Due Date: 11/30/2011
Schedule Revised Date: Not reported
Schedule Area Name: RMP Locations in the Central Motor Pool Area
Schedule Sub Area Name: Not reported
Schedule Document Type: Certification
Schedule Due Date: 3/30/2012
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: 5 Year Review Reports
Schedule Due Date: 11/30/2011
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: State Response
Site Type Detailed: Closed Base
Acres: 363.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: HENRY WONG
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 01970016
Site Code: 201537
Assembly: 16
Senate: 09
Special Program: Not reported
Status: Active
Status Date: 07/14/2004
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: BRAC 95
Latitude: 37.810333
Longitude: -122.312048
APN: NONE SPECIFIED
Past Use: FOUNDRY, ILLEGAL DUMPING, LANDFILL - HAZARDOUS WASTE, MANUFACTURED GAS PLANT, OIL FIELD, UNKNOWN, BATTERY STORAGE, DEGREASING FACILITY, DISTRIBUTOR - CHEMICAL, DRY CLEANING, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, FUEL - VEHICLE STORAGE/ REFUELING, FUEL HYDRANT PUMPING STATIONS, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, ILLEGAL DUMPING, MACHINE SHOP, OIL/WATER SEPARATORS, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, RAIL ROAD MAINTENANCE SHOP, RECYCLING - DRUM, RECYCLING - OTHER, RECYCLING - SCRAP METAL, RECYCLING - USED OIL , SHIPYARD - TERMINAL, VEHICLE MAINTENANCE, TRANSFER STATION, MACHINE SHOP, OIL/WATER SEPARATORS,

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

UNDERGROUND STORAGE TANKS, TRANSPORTATION - WAREHOUSING, FUEL - VEHICLE STORAGE/ REFUELING, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, ILLEGAL DUMPING, UNKNOWN, TRANSPORTATION - WAREHOUSING

Potential COC: 30000, 30009, 30013, 30018, 30019, 30024, 30025, 3002502, 30001, 30003, 30004, 30006, 30007, 30008, 30010, 30013, 30024, 30025, 3002502, 30026, 30027, 30028, 30001, 30013, 30018, 30024, 30025, 3002502, 30026, 30027, 30028, 30003, 30016, 30024, 30025, 3002502, 30272, 30550, 30593, 30027, 30028, 30195, 30196

Confirmed COC: 30000,30019,30024,30025,3002502,30018,30013,30009,,
,30001,30003,30004,30006,30007,30008,30010,30013,30024,30025,30026,
30027,30028,3002502,,
,30001,30024,30025,30026,3002502,30018,30027,30028,30013,,
,30003,30016,30272,30593,30024,30025,30550,3002502,,
,30027,30028,30195,30196

Potential Description: OTH, SOIL, OTH, SED, SOIL, OTH, SOIL, SV, IA, OTH, SV, IA, OTH, SV
Alias Name: EDC Area
Alias Type: Alternate Name
Alias Name: FORMER OAKLAND ARMY BASE
Alias Type: Alternate Name
Alias Name: Oakland Army Base-Early Transfer
Alias Type: Alternate Name
Alias Name: Oakland Army Base-Economic Development Conveyance Area
Alias Type: Alternate Name
Alias Name: Oakland Gateway Development Area
Alias Type: Alternate Name
Alias Name: 01970006
Alias Type: Former Project ID
Alias Name: 110033612366
Alias Type: EPA (FRS #)
Alias Name: 201537
Alias Type: Project Code (Site Code)
Alias Name: 01970006
Alias Type: Envirostor ID Number
Alias Name: 01970016
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: RMP Locations 11, 75, 86, 93, 105, 106, 108,
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 04/05/2010
Comments: On April 5, 2010, DTSC determined that all appropriate removal/remedial actions had been completed and that all acceptable engineering practices were implemented; however, the site requires ongoing operation and maintenance and monitoring efforts. On August 8, 2003, the City of Oakland and DTSC executed and recorded the Covenant to Restrict Use of Property, Environmental Restriction for the Oakland Gateway Development Area, which includes RMP Locations 11, 75, 86, 93, 105, 106, 108, and 109. The City of Oakland implemented the institutional control remedy by recording the Covenant with the Alameda County Assessor s Office. The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, the first five-year statutory review is due for RMP Locations 11, 75, 86, 93, 105, 106, 108, and 109 by November 2010.

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Completed Area Name: Package E-1
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/24/2010
Comments: On June 24, 2010, DTSC issued the Remedial Action Certification for the Package E-1 Area. On June 14, 2010, DTSC approved the Completion Report and concluded that the Port (a) had adequately investigated the site, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required remedies for the Package E-1 Area in accordance with the RAP and RMP.

Completed Area Name: Package B
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/29/2010
Comments: On June 29, 2010, DTSC issued the Remedial Action Certification for the Package B Area. On June 29, 2010, DTSC approved the Completion Report and concluded that the Port (a) had adequately investigated the site, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required remedies for the Package B Area in accordance with the RAP and RMP.

Completed Area Name: USTs 11/12/13 & 11A/12A/13A
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/24/2010
Comments: On June 24, 2010, DTSC issued the Remedial Action Certification for the USTs 11/12/13 and 11A/12A/13A RAP Site. One June 24, 2010, DTSC approved the Completion Report and concluded that the Port of Oakland (a) had investigated the site adequately, (b) had implemented the required remedial action, (c) had monitored the groundwater for four quarters, and (d) had demonstrated achievement of the remedial action objectives at the USTs 11/12/13 and 11A/12A/13A RAP Site in accordance with the RAP, RMP, and RDIP.

Completed Area Name: Bldg 99 GW
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/25/2009
Comments: On 6/25/09, DTSC completed the Remedial Action Certification for the Building 99 Groundwater Remedial Action Plan (RAP) Site (also known as the VOCs in Groundwater near Building 99 RAP Site). In 2005, the Port of Oakland installed five wells and monitored the groundwater for four quarters. Soil data from the new well locations do not show VOC concentrations above normal reporting limits. Groundwater data from the monitoring events confirm that the VOC concentrations are below the remediation goals. The cumulative excess cancer risk less than 1.0E-05 and non-cancer hazard index less than 1 for potential industrial/commercial human receptors.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 04/20/2010
Comments: On March 22, 2010 DTSC, City of Oakland, and Port of Oakland inspected the Oakland Gateway Development Area. DTSC found site activities consistent with the land use covenant.

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/11/2008
Comments: The Port of Oakland and City of Oakland are requesting five years extension for the following RAP Sites:

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/12/2008
Comments: DTSC issued a letter identifying that the trigger date for a statutory five-year review was the mobilization date of Building 1 remedy implementation (i.e., November 28, 2005). Therefore, DTSC should review and approve the first statutory five-year review report on or before November 28, 2010. The letter specifies that the first Draft Five-Year Review Report is due in May 2010.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 01/28/2009
Comments: The City of Oakland and the Port of Oakland provided their Annual Certification letters for the Gateway Development Area (GDA) and the Port Development Area (PDA), respectively on 1/13/09 and 1/22/09. These letters certify compliance with the environmental restrictions of the Oakland Gateway Development Area (OGDA) as required by the Covenant to Restrict Use of Property, Environmental Restriction Section 4.01(e). DTSC has reviewed and concurred with the Annual Certification letters.

Completed Area Name: Bldg 807
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 10/19/2009
Comments: DTSC approved the Remedial Design and Implementation Plan for VOCs in Groundwater at Eastern End of Building 807 RAP Site on 10/19/09. The overall remedial action sequence is as follows: 1.

Completed Area Name: Bldg 1
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 05/26/2006
Comments: DTSC approved the Plan Modification Request Number 1 for Section 2.8 of the Soil Treatment Process Plan for the Building 1 Area. DTSC concurs that the City of Oakland may use pH indicator test strips in the field for the pre-treatment samples from Organic Residue.

Completed Area Name: Bldg 99 GW
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 03/30/2005
Comments: DTSC approved the Pre-Design Investigation Memorandum on 3/30/05 for the Building 99 Groundwater Remedial Action Plan Site.

Completed Area Name: Bldg 99 Soil
Completed Sub Area Name: Not reported

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Completed Document Type:	* Remedial Action Completion or Implementation
Completed Date:	07/16/2007
Comments:	On 7/16/07, DTSC approved the Completion Report for the Building 99 Soil Remedial Action Plan (RAP) Site, and four adjacent Risk Management Plan (RMP) Locations listed below: Potential Lead-Based Paint Impacted Soils outside of Building 99 (NAD83 Northing and Easting Coordinates: 2125825, 6039940), Hydraulic Lift Cylinders inside Building 99 (NAD83 Northing and Easting Coordinates: 2125712, 6039884), Former Oily-Water Separator (OWS-4) outside the Southeastern Corner of Building 99 (NAD83 Northing and Easting Coordinates: 2125570, 6039966), and Decommissioned Washrack (Facility 98) outside the Southeastern Corner of Building 99 (NAD83 Northing and Easting Coordinates: 2125642, 6039973). The Port of Oakland completed further investigation to show that the residual soils contain chemical of concerns meeting the remediation goals at the Building 99 Soil RAP Site and four adjacent RMP Locations.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Newsletter
Completed Date:	04/15/2005
Comments:	The Community Update presents the cleanup status of the portion of the former Oakland Army Base, now known as the Former Oakland Army Base Economic Development Conveyance Area. The update also transmits a survey to solicit community inputs regarding the cleanup project.

Completed Area Name:	Bldg 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	06/14/2006
Comments:	DTSC concluded that there was no need for a formal draft final document.

Completed Area Name:	Bldg 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Plan
Completed Date:	08/01/2008
Comments:	DTSC confirmed that the City has responded and revised the Health and Safety Plan appropriately. DTSC s 7/29/08 letter serves as agency concurrence on the subject document.

Completed Area Name:	Bldg 99 GW
Completed Sub Area Name:	Not reported
Completed Document Type:	* Remedial Action Completion or Implementation
Completed Date:	07/16/2007
Comments:	On 7/16/07, DTSC approved the Completion Report, VOCs in Groundwater near Building 99 RAP Site. In 2005, the Port of Oakland installed five wells and monitored the groundwater for four quarters. Soil data from the new well locations do not show VOC concentrations above normal reporting limits. Groundwater data from the monitoring events confirm that the VOC concentrations are below the remediation goals. The cumulative excess cancer risk less than 1.0E-05 and non-cancer hazard index less than 1 for potential industrial/commercial human receptors.

Completed Area Name:	Bldg 807
Completed Sub Area Name:	Not reported

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Completed Document Type: Design/Implementation Workplan
Completed Date: 10/24/2005
Comments: On 10/24/05, DTSC approved the Pre-Design Investigation Memorandum (PDIM) dated September 19, 2005 for volatile organic compounds in groundwater in the vicinity of Buildings 807, 808, and 823 at the Former Oakland Army Base Economic Development Conveyance Area. The PDIM proposes additional investigates to aid the Remedial Design and Implementation Plan preparation.

Completed Area Name: Bldg 1
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 02/14/2006
Comments: DTSC approved the Remedial Design and Implementation Plan which proposes detailed cleanup actions at the Former Oil Reclaiming Plant/Building 1 Area. The City of Oakland will remediate soils and sludge contaminated with organic chemicals, neutralize corrosive soils, stabilize lead in soils, and dispose all wastes at permitted land disposal facilities.

Completed Area Name: USTs 11/12/13 & 11A/12A/13A
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/24/2010
Comments: On June 24, DTSC approved the June 2010 Completion Report for USTs 11/12/13 and 11A/12A/13A RAP Site and concluded that the Port of Oakland (a) had investigated the site adequately, (b) had implemented the required remedial action, (c) had monitored the groundwater for four quarters, and (d) had demonstrated achievement of the remedial action objectives at the USTs 11/12/13 and 11A/12A/13A RAP Site in accordance with the RAP, RMP, and RDIP.

Completed Area Name: Bldg 1
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 05/12/2009
Comments: On May 12, 2009, DTSC concluded that the City of Oakland has implemented the remedy pursuant to the Remedial Action Plan (RAP) and Remedial Design Implementation Plan (RDIP) at the Building 1 RAP Site and has demonstrated achievement of the remedial action objectives. Approximately 11,642 tons of treated Building 1 remediation waste was disposed of as non-RCRA hazardous waste at the Kettleman Hills Landfill. Approximately 578 tons of overburden soil, that was deemed unsuitable for on-site reuse, was disposed of as non-hazardous daily cover at the Altamont Facility. Approximately 10,000 gallons of wastewater, which included decontamination water and water from utility demolition was discharged to the City of Oakland sewer system in accordance with the East Bay Municipal Utility District Wastewater Discharge Permit and City of Oakland Building Inspection Sewer Permit. No excavation dewatering was conducted. Approximately 1 ton of sediment removed from the decontamination tank during cleaning was sampled and analyzed, and subsequently disposed of as non-hazardous daily cover at the Altamont Facility.

Completed Area Name: USTs 11/12/13 & 11A/12A/13A
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Completed Date: 08/23/2007
Comments: DTSC approved the Remedial Design and Implementation Plan for USTs 11/12/13 and 11A/12A/13A RAP Site (RDIP) dated August 2007. The RDIP describes the remedial activities at the USTs 11/12/13 AND 11A/12A/13A RAP Site. The Remedy includes re-excavating the backfill of the former USTs 11/12/13 excavation to one to two feet below the groundwater table (approximately 30 x 37 x 8 depth), pumping out groundwater that accumulates in the excavation, collecting confirmation soil samples on the sidewalls and floor, introducing oxygen release compound to the bottom of the excavation, backfilling excavation, and conducting quarterly groundwater monitoring at the site for at least one year.

Completed Area Name: Bldg 1
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 11/21/2003
Comments: DTSC approved the Pre-Design Investigation Memorandum on 11/21/03 for the Building 1 Area. The memorandum describes a focused, pre-design investigation to obtain additional visual descriptions of encountered soil and waste layers, soil physical parameter data, and limited chemical data that will be useful for finalizing design decisions and to provide information to bidding remediation contractors.

Completed Area Name: RMP Location - Building 99 Debris Area
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 02/14/2006
Comments: DTSC approved the Report on Phase I Investigation and Work Plan for Phase II Investigation of Debris Area near Building 99 on February 14, 2006. The Phase I Report summarizes findings on two test pits. The Phase II Work Plan proposes investigation to define the lateral and vertical extent of contamination at the Debris Area.

Completed Area Name: Bldg 1
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/22/2006
Comments: DTSC approved the Plan Modification Request Number 4 for a modification to the Soil Treatment Process Plan to include the use of the Caterpillar 330 excavator (as described in the plan Section 2.2), Front Loader (as described in the plan Section 2.2), and/or a Caterpillar D5 Dozer to mix the reagent with the Building 1 waste.

Completed Area Name: Bldg 808 and 823
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/08/2009
Comments: DTSC concludes that the City of Oakland (a) has implemented the selected remedy pursuant to the Remedial Action Plan and Pre-Design Investigation Memorandum and (b) has demonstrated achievement of the remedial action objectives for the Buildings 808 and 823 RAP Site. DTSC hereby approves the Completion Report. DTSC will change the status of the Buildings 808 and 823 RAP Site on its EnviroStor database to Certified with Ongoing Operation and Maintenance.

Completed Area Name: Bldg 99 Soil

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	04/27/2005
Comments:	DTSC approved the Pre-Design Investigation Memorandum on 4/27/05 for the Building 99 Soil Remedial Action Plan Site. The memorandum is a sampling plan for additional soil investigation at the Building 99 area to supplement existing data.
Completed Area Name:	Bldg 991
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	06/06/2005
Comments:	DTSC approved the Pre-Design Investigation Memorandum on 6/6/05 for the Building 991 Remedial Action Plan Site.
Completed Area Name:	RMP Locations
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	08/19/2008
Comments:	DTSC reviewed sampling proposals for the Risk Management Plan (RMP) Locations at Packages E-1 and E-2 emailed on 3/16/07. Package E-1 contains RMP Locations 71, 72, 73, 79, 81, and 92. Package E-2 contains RMP Location 90. DTSC provided verbal comments on the sampling strategy during the 7/3/07 Environmental Technical Team Meeting (meeting minutes #37). DTSC forwarded a concurrence to the Port of Oakland stating that the Packages E-1 and E-2 sampling proposals are consistent with the RMP (i.e., Appendix E of the 9/27/02 DTSC-approved Remedial Action Plan). The RMP itself is already a Remedial Design for all RMP Locations.
Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Well Decommissioning Workplan
Completed Date:	08/12/2008
Comments:	DTSC concurs with the well destruction proposal for the following 40 groundwater monitoring wells: BB-3, EMW1, EMW2, EMW3, ICFMW216, ITMW237, ITMW238, ITMW239, ITMW241, ITMW242, ITMW245, ITMW246, ITMW247, ITMW248, ITMW251, K738BM01, K738DW01, K99BM01 or B99BM01, K99DW01 or B99DW01, K99DW02 or B99DW02, OBMW01, OBMW02, SMW-21, SMW-48, SMW-53, SMW-55, SMW-56, SMW-65, SMW-66, SMW-69, SMW-70, SMW-71, SMW-72, SMW-73, SMW-74, SMW-75, SMW-88, SMW-89, SMW-90, and SMW-92. DTSC requests the City of Oakland to destroy the wells in accordance with the procedures outlined in Appendix B, Section 2.6 of the DTSC-approved Quality Assurance Program Plan dated April 8, 2005.
Completed Area Name:	USTs 11/12/13 & 11A/12A/13A
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedy Constructed: Operating Properly & Successfully
Completed Date:	04/22/2010
Comments:	On 4/22/10, DTSC approved the Technical Report for Implementation of Remedial Action at UST 11/12/13 and 11A/12A/13A RAP Site (Technical Report) dated April 2010. The Port of Oakland commenced remediation in August 2007 and completed field activities in October 2007. The Technical Report documents the cleanup activities pursuant to the DTSC-approved Remedial Design and Implementation Plan dated August 23, 2007.

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Completed Area Name:	Bldg 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Plan
Completed Date:	11/25/2008
Comments:	On 11/25/08, DTSC approves the revised Operations and Maintenance Plan, Former ORP/Building 1 Area Remediation Project, Former Oakland Army Base Economic Development Conveyance Area (O&M Plan). The O&M Plan proposes (a) groundwater monitoring at the Building 1 Remedial Action Plan Site and (b) compliance reporting pursuant to the 8/8/03 Covenant to Restrict Use of Property, Environmental Restriction. The City of Oakland has satisfactorily responded to DTSC s 5/12/08 comments and revised the O&M Plan accordingly.

Completed Area Name:	RMP Location - Building 99 Debris Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Design - Preliminary/Intermediate
Completed Date:	12/12/2007
Comments:	The investigation work plan presents a general approach to performing exploratory investigation activities and collecting soil samples to further define the extent of the debris containing layer and fill data gaps from prior investigations. The plan addresses the Building 99 Debris Area as a Risk Management Plan Location to be remediated in accordance with the DTSC-approved 2002 Final Remedial Action Plan / Risk Management Plan.

Completed Area Name:	RMP Location - Building 99 Debris Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Design - Preliminary/Intermediate
Completed Date:	01/19/2011
Comments:	The Phase II Report concludes that further investigation and remediation are necessary, both within and outside of the EDC Area. The Port of Oakland and City of Oakland own separate portions of off-site areas potentially contaminated with hazardous substances from the Debris Area. DTSC has requested the Port and City to provide a schedule for subsequent investigation and remediation for the Debris Area within the EDC Area and adjacent off-site areas.

Completed Area Name:	RMP Location - Building 99 Debris Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Design - Preliminary/Intermediate
Completed Date:	04/13/2011
Comments:	The Investigation Report confirms the presence of contamination within the EDC Area. This contamination is likely impacting off-site areas west of the Debris Area.

Completed Area Name:	RMP Locations 3, 4, 5, and 6
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	04/29/2009
Comments:	The City of Oakland (a) has adequately investigated Risk Management Plan (RMP) Locations 3, 4, 5, and 6, (b) has demonstrated achievement of the remedial action objectives, and (c) has implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name:	Package E-1
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Completed Date:	06/14/2010
Comments:	On June 14, 2010, DTSC approved the June 2010 Completion Report for the Package E-1 Area. Based on the information presented in the Completion Report, DTSC concluded that the Port of Oakland (a) had adequately investigated the site, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required remedies for the Package E-1 Area in accordance with the Remedial Action Plan and Risk Management Plan.
Completed Area Name:	Package E-2
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/29/2010
Comments:	On June 29, 2010, DTSC approved the Completion Report and concluded that the Port (a) had adequately investigated the site, (b) had demonstrated achievement of remedial action objectives, and (c) had implemented the required remedies for the Package E-2 Area in accordance with the RAP and RMP.
Completed Area Name:	RMP Location 96
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	02/09/2011
Comments:	On February 9, 2011, DTSC issued the Remedial Action Certification for Risk Management Plan (RMP) Location 96. On February 2, 2011, DTSC approved the Request for Completion and concluded that the City of Oakland (a) had documented the removal of impacted-soil from RMP Location 96, (d) had presented investigation results to demonstrate the achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the project site including RMP Location 96.
Completed Area Name:	RMP Locations 27, 28, and 89
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/07/2011
Comments:	On 6/1/2011, DTSC issued a Remedial Action Certification for RMP Locations 27, 28, and 89 attesting that the Port of Oakland (a) had adequately investigated RMP Locations 27, 28, and 89, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.
Completed Area Name:	RMP Locations 7, 22, and 29
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	03/17/2011
Comments:	On March 17, 2011, DTSC issued the Remedial Action Certification for Risk Management Plan (RMP) Locations 7, 22, and 29. On March 15, 2011, DTSC approved the Request for Completion and concluded that the City of Oakland (a) had adequately investigated RMP Locations 7, 22, and 29, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.
Completed Area Name:	RMP Locations 48-51, 83, 115, 116, 119, and 1
Completed Sub Area Name:	Not reported

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Completed Document Type:	Certification
Completed Date:	06/01/2011
Comments:	On 6/1/2011, DTSC issued a Remedial Action Certification for RMP Locations 48, 49, 50, 51, 83, 115, 116, 119, and 120 attesting that the Port of Oakland (a) had adequately investigated RMP Locations 48, 49, 50, 51, 83, 115, 116, 119, and 120, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.
Completed Area Name:	RMP Locations 23, 24, 25, 87, 88, 113, 114, a
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	07/19/2010
Comments:	On July 19, 2010, DTSC determined that all appropriate removal/remedial actions had been completed and that all acceptable engineering practices were implemented; however, the site requires ongoing operation and maintenance and monitoring efforts. On August 8, 2003, the City of Oakland and DTSC executed and recorded the Covenant to Restrict Use of Property, Environmental Restriction for the Oakland Gateway Development Area, which includes RMP Locations 23, 24, 25, 87, 88, 113, 114, and 123. The City of Oakland implemented the institutional control remedy by recording the Covenant with the Alameda County Assessor s Office. The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, the first five-year statutory review is due for RMP Locations 23, 24, 25, 87, 88, 113, 114, and 123 by November 2010.
Completed Area Name:	Bldg 808 and 823
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/18/2009
Comments:	On October 24, 2005, DTSC approved the Pre-Design Investigation Memorandum (PDIM) for additional four quarters of groundwater monitoring to better define the plume boundary and to aid preparation of the remedial design document. Vinyl chloride is the only COC for the Buildings 808 and 823 RAP Site. The maximum detected concentration of vinyl chloride in groundwater from four recent quarterly monitoring events was 26 g/L, which is below the remediation goal of 32 g/L. All other VOCs were below the respective remediation goals. On March 20, 2009, DTSC issued the Risk Management Plan Modification letter specifying new language for RMP, Section 6.2 regarding vapor intrusion mitigation measures. This RMP Modification requires additional evaluation and consultation with DTSC if new buildings were to be constructed at the Buildings 808 and 823 RAP Site and vicinity areas. The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, five-year statutory reviews are required for the Buildings 808 and 823 RAP Site. The trigger date for a statutory five-year review was the mobilization date of first remedy implementation for the Oakland Gateway Development Area project (i.e., Building 1 RAP Site on November 28, 2005). Therefore, DTSC should review and approve the first statutory five-year review report on or before November 28, 2010. As a result, DTSC shall receive the

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first Draft Five-Year Review Report in May 2010.

Completed Area Name: Bldg 1
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/18/2009
Comments: On February 14, 2006, DTSC approved the Remedial Design and Implementation Plan (RDIP) for the Building 1 RAP Site. The RDIP detailed cleanup procedures for contaminated soil and treatment for the Building 1 remediation waste. The City of Oakland commenced site preparatory activities on November 28, 2005, excavated soils and treated hazardous wastes on-site in 2006, and completed site restoration in early 2007. The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, five-year statutory reviews are required for this site. The trigger date for a statutory five-year review was the mobilization date of the Building 1 remedy implementation, November 28, 2005. Therefore, DTSC should review and approve the first statutory five-year review report on or before November 28, 2010. As a result, DTSC shall receive the first Draft Five-Year Review Report in May 2010.

Completed Area Name: RMP Locations 8, 10, 19/107, and 97
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/28/2011
Comments: On 6/28/2011, DTSC issued a Remedial Action Certification for RMP Locations 8, 10, 19, 97, and 107 attesting that the City of Oakland (a) had adequately investigated RMP Locations 8, 10, 19, 97, and 107, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name: Package D-1/C-1
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/14/2011
Comments: On 6/14/2011, DTSC issued a Remedial Action Certification for the Package D-1/C-1 Area attesting that the Port of Oakland (a) had adequately investigated and remediated the Package D-1/C-1 Area, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject areas.

Completed Area Name: RMP Locations 3, 4, 5, and 6
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/29/2010
Comments: On April 29, 2009, DTSC determined that all appropriate removal/remedial actions had been completed and that all acceptable engineering practices were implemented; however, the site requires ongoing operation and maintenance and monitoring efforts. On August 8, 2003, the City of Oakland and DTSC executed and recorded the Covenant to Restrict Use of Property, Environmental Restriction for the Oakland Gateway Development Area, which includes RMP Locations 3, 4, 5, and 6. The City of Oakland implemented the institutional

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control remedy by recording the Covenant with the Alameda County Assessor s Office. The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, the first five-year statutory review is due for RMP Locations 3, 4, 5, and 6 by November 2010.

Completed Area Name: RMP Locations 20, 99, and 100
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/29/2010
Comments: On March 4, 2008, DTSC determined that all appropriate removal/remedial actions had been completed and that all acceptable engineering practices were implemented; however, the site requires ongoing operation and maintenance and monitoring efforts. On August 8, 2003, the City of Oakland and DTSC executed and recorded the Covenant to Restrict Use of Property, Environmental Restriction for the Oakland Gateway Development Area, which includes RMP Locations 20, 99, and 100. The City of Oakland implemented the institutional control remedy by recording the Covenant with the Alameda County Assessor s Office. The remedial action objectives were based on commercial and industrial land uses. Since residual chemicals in soil and groundwater at the site render the property not suitable for unrestricted use, the first five-year statutory review is due for RMP Locations 20, 99, and 100 by November 2010.

Completed Area Name: Package E-2
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/29/2010
Comments: On June 29, 2010, DTSC issued the Remedial Action Certification for the Package E-2 Area. On June 29, 2010, DTSC approved the Completion Report and concluded that the Port (a) had adequately investigated the site, (b) had demonstrated achievement of remedial action objectives, and (c) had implemented the required remedies for the Package E-2 Area in accordance with the RAP and RMP.

Completed Area Name: Bldg 99 Soil
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/25/2009
Comments: On 6/25/09, DTSC completed the Remedial Action Certification for the Building 99 Soil Remedial Action Plan (RAP) Site, and four adjacent Risk Management Plan (RMP) Locations listed below: Potential Lead-Based Paint Impacted Soils outside of Building 99 (NAD83 Northing and Easting Coordinates: 2125825, 6039940), Hydraulic Lift Cylinders inside Building 99 (NAD83 Northing and Easting Coordinates: 2125712, 6039884), Former Oily-Water Separator (OWS-4) outside the Southeastern Corner of Building 99 (NAD83 Northing and Easting Coordinates: 2125570, 6039966), and Decommissioned Washrack (Facility 98) outside the Southeastern Corner of Building 99 (NAD83 Northing and Easting Coordinates: 2125642, 6039973). The Port of Oakland completed further investigation to show that the residual soils contain chemical of concerns meeting the remediation goals at the Building 99 Soil RAP Site and four adjacent RMP Locations.

Completed Area Name: Bldg 807

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Completed Sub Area Name:	Not reported
Completed Document Type:	Remedy Constructed: Operating Properly & Successfully
Completed Date:	10/14/2010
Comments:	On 10/14/10, DTSC approved the Remedial Action Implementation Report for the Building 807 RAP Site. DTSC concurred that the Port of Oakland had successfully constructed the remedy which included injecting Hydrogen Releasing Compound at 76 locations at the Building 807 RAP Site. The Port of Oakland will begin groundwater monitoring program as scheduled.
Completed Area Name:	RMP Locations 7, 22, and 29
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	03/15/2011
Comments:	DTSC approved the Request for Completion and concluded that the City of Oakland (a) had adequately investigated RMP Locations 7, 22, and 29, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.
Completed Area Name:	Bldg 991
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Design - Preliminary/Intermediate
Completed Date:	01/26/2011
Comments:	DTSC approved the Tech Memo proposing the soil remediation goals for dieldrin, endrin, and lindane to be 0.13, 0.021, and 0.10 mg/kg, respectively, for the Building 991 RAP Site only.
Completed Area Name:	Package D-1/C-1
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/14/2011
Comments:	DTSC approved the Completion Report and concluded that the Port of Oakland (a) had adequately investigated and remediated the Package D-1/C-1 Area, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject areas.
Completed Area Name:	Sites With No Operable Unit
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence - Received
Completed Date:	10/27/2010
Comments:	On 10/27/10, DTSC approved the waiver request allowing the City of Oakland s sub-lessee, Anka Behavioral, to use the interior of Building 821 as an emergency winter shelter for homeless individuals from November 1, 2010 through April 30, 2011.
Completed Area Name:	Sites With No Operable Unit
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence - Received
Completed Date:	04/21/2009
Comments:	Not reported
Completed Area Name:	Sites With No Operable Unit
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence - Received
Completed Date:	10/10/2008

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Comments:	On 10/10/2008, DTSC approved the City of Oakland s request allowing Anka Behavioral to use the interior of Building 821 as an emergency winter shelter for homeless individuals from November 1, 2008 through April 30, 2009.
Completed Area Name:	Sites With No Operable Unit
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence - Received
Completed Date:	10/31/2006
Comments:	On 10/31/06, DTSC approved the Interim Land Use Waiver request allowing Operation Dignity to use the interior of Building 821 as an emergency winter shelter for homeless individuals from November 2006 through April 2007, and from November 2007 through April 2008.
Completed Area Name:	Sites With No Operable Unit
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence - Received
Completed Date:	03/27/2007
Comments:	On 3/27/07, DTSC approved an Interim Land Use Waiver request allowing CEDA to use the Building 821 Lot as a winter encampment area as specified in CEDA s February 8, 2007 request letter. This Interim Land Use Waiver allows CEDA to operate the Building 821 Lot from April through August 2007. The wavier does not apply to any date not specified. This Interim Land Use Waiver expires on August 31, 2007.
Completed Area Name:	Sites With No Operable Unit
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence - Received
Completed Date:	07/11/2007
Comments:	On 7/11/07, DTSC approved an extension request allowing CEDA to use the Building 821 Lot from September 1, 2007 through April 30, 2008.
Completed Area Name:	RMP Location 96
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	02/02/2011
Comments:	On February 2, 2011, DTSC approved the Request for Completion and concluded that the City of Oakland (a) had documented the removal of impacted-soil from RMP Location 96, (d) had presented investigation results to demonstrate the achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the project site including RMP Location 96.
Completed Area Name:	Bldg 807
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	11/15/2010
Comments:	DTSC acknowledged the receipt of the September 2010 Quarterly Groundwater Monitoring Data Report. Formal regulatory review on the data report is not necessary at this time. A completion report with data interpretation is forth coming at an appropriate time.
Completed Area Name:	Package B
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/29/2010
Comments:	On 6/29/10, DTSC approved the Completion Report for the Package B

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Area and concluded that the Port of Oakland (a) had adequately investigated the site, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required remedies for the Package B Area in accordance with the RAP and RMP.

Completed Area Name:	RMP Locations 11, 75, 86, 93, 105, 106, 108,
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	10/20/2009
Comments:	Based on the information presented in the Completion Request, DTSC concludes that environmental data do not suggest evidence of contamination. DTSC hereby concurs that the City of Oakland (a) has adequately investigated RMP Locations 11, 75, 86, 93, 105, 106, 108, and 109, (b) has demonstrated achievement of the remedial action objectives, and (c) has implemented the required institutional control remedy for the subject RMP Locations. DTSC requested the City of Oakland to collect a grab groundwater sample at RMP Location 107 (UST-19) to fill a data gap. The City of Oakland has agreed to collect additional groundwater data at RMP Location 107 and defer the completion request for this location.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	04/20/2010
Comments:	On March 22, 2010 DTSC, City of Oakland, and Port of Oakland inspected the Oakland Gateway Development Area. DTSC found site activities consistent with the land use covenant.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	03/01/2011
Comments:	DTSC reviewed the Annual Certification letters for the Oakland Gateway Development Area covering the Gateway Development Area (GDA) and Port Development Area (PDA), dated 2/4/11 and 1/6/11, respectively. DTSC has no comment.

Completed Area Name:	Bldg 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	10/22/2009
Comments:	The City of Oakland conducted quarterly monitoring events in August 2008, November 2008, February 2009, and May 2009 at five monitoring wells B1MW001 through B1MW005. The results of four quarters of groundwater monitoring at the Building 1 Area indicate that the groundwater monitoring objectives have been met. No volatile COCs are present in groundwater at concentrations above remediation goals, and no significant increases in concentrations of metals or other non-volatile COCs are occurring. Based on the information presented in the July 24, 2009 Report, DTSC concurs with the City of Oakland s request to terminate groundwater monitoring at the Building 1 Area.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	11/16/2009

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Comments: DTSC has received the Port of Oakland s September 23, 2009 letter proposing Risk Management Plan (RMP) implementation protocols for storm drains and sanitary sewers (SD/SS). The September 27, 2002 DTSC-approved RMP includes SD/SS within the RMP Implementation Area. However, the RMP does not address implementation for "SD/SS without suspected or known contamination." DTSC issued a letter on 11/16/09 clarifying Section 2.2.2.7 of the RMP and specifying implementation protocols for "SD/SS without suspected or known contamination."

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Workplan
Completed Date: 05/11/2010
Comments: On 5/11/10, DTSC completed initial review of a draft section from the draft Five-Year Review Report regarding remediation goals (RGs) for lead and total petroleum hydrocarbons (TPHs) at the Oakland Gateway Development Area (aka: Former OARB - EDC Area). DTSC agrees with the lead RG but disagrees with the TPH RGs.

Completed Area Name: RMP Locations 20, 99, and 100
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 03/04/2008
Comments: Based on the information presented in the 4/10/07 letter report, DTSC concluded that environmental data do not suggest potential of contamination. On 3/4/08, DTSC concurred that the City of Oakland (a) has adequately investigated RMP Locations 20, 99, and 100, (b) has demonstrated achievement of the remedial action objectives, and (c) has implemented the required remedies for the subject RMP Locations. In addition, DTSC agreed with decommission of well ITMW241 associated with RMP Location 20.

Completed Area Name: RMP Locations 23, 24, 25, 87, 88, 113, 114, a
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 07/19/2010
Comments: On July 19, 2010, DTSC approved the City of Oakland s Completion Request and concluded that the City of Oakland (a) had investigated RMP Locations 23, 24, 25, 87, 88, 113, 114, and 123 adequately, (b) had removed 842 cubic yards of impacted-soil from RMP Locations 23, 113, and 123, (c) had demonstrated achievement of the remedial action objectives, and (d) had implemented the required institutional control remedy for the subject RMP Locations. DTSC also approved the identification of RMP Location 159 to be addressed during future site redevelopment.

Completed Area Name: RMP Locations 8, 10, 19/107, and 97
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 07/15/2010
Comments: DTSC reviewed the Site Health and Safety Plan and concurred that the City of Oakland may proceed with field investigation at RMP Locations 8, 10, 19, 97, and 107 as schedule pursuant to the DTSC-approved Risk Management Plan.

Completed Area Name: RMP Locations 27, 28, and 89
Completed Sub Area Name: Not reported

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Completed Document Type:	Remedial Design - Preliminary/Intermediate
Completed Date:	02/02/2011
Comments:	DTSC concurred with the sampling proposal for RMP Locations 27, 28, and 89.

Completed Area Name:	RMP Locations 48-51, 83, 115, 116, 119, and 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/01/2011
Comments:	DTSC approved the Completion Report and concluded that the Port of Oakland (a) had adequately investigated RMP Locations 48, 49, 50, 51, 83, 115, 116, 119, and 120, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name:	RMP Locations 8, 10, 19/107, and 97
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/28/2011
Comments:	DTSC approved the Completion Request and concluded that the City of Oakland (a) had adequately investigated RMP Locations 8, 10, 19, 97, and 107, (b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name:	Outfalls 8 through 11
Completed Sub Area Name:	Not reported
Completed Document Type:	Ecological Risk Assessment Report
Completed Date:	01/26/2011
Comments:	Instead of re-reviewing the 2002/2003 documents, DTSC believes that a supplemental marine sediment investigation and new risk evaluation are necessary. Depending on the results, DTSC may require a feasibility study and Remedial Action Plan Amendment to select the final remedy for Outfalls 8 through 11.

Completed Area Name:	Bldg 807
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	01/26/2011
Comments:	DTSC acknowledged the receipt of the December 2010 Quarterly Groundwater Monitoring Data Report. Formal regulatory review on the data report is not necessary at this time. A completion report with data interpretation is forth coming at an appropriate time.

Completed Area Name:	RMP Locations 15, 91, and 98
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Implementation Workplan
Completed Date:	05/09/2011
Comments:	The City will incorporate DTSC’s recommendations as provided in DTSC 4/19/11 comment memorandum.

Completed Area Name:	RMP Locations 27, 28, and 89
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/07/2011
Comments:	DTSC approved the Completion Report and concluded that the Port of Oakland (a) had adequately investigated RMP Locations 27, 28, and 89,

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

(b) had demonstrated achievement of the remedial action objectives, and (c) had implemented the required institutional control remedy for the subject RMP Locations.

Completed Area Name:	RMP Locations 43, 125, 128, and 160
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Design - Preliminary/Intermediate
Completed Date:	07/26/2011
Comments:	DTSC approved the Port’s proposal to investigate RMP Locations 43, 125, 128, and 160 as specified.

Completed Area Name:	RMP Locations 1 and 2
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Design - Preliminary/Intermediate
Completed Date:	08/02/2011
Comments:	DTSC has reviewed EKI’s 7/20/11 sampling approach at location K02S107 and agrees with the proposal.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	12/10/2008
Comments:	DTSC’s Environmental Chemistry Lab recommends 50 to 100 gm of samples to be extracted (by rinsing with appropriate solvents), followed by methods 6010, 8270, 1664, 8081, 8141, 8028 etc.) for COC mentioned.

Future Area Name:	Basewide
Future Sub Area Name:	Not reported
Future Document Type:	5 Year Review Reports
Future Due Date:	2015
Future Area Name:	Bldg 991
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Completion Report
Future Due Date:	2012
Future Area Name:	Bldg 807
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Completion Report
Future Due Date:	2013
Future Area Name:	RMP Locations
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Completion Report
Future Due Date:	2014
Future Area Name:	RMP Locations 43, 125, 128, and 160
Future Sub Area Name:	Not reported
Future Document Type:	Certification
Future Due Date:	2012
Future Area Name:	RMP Locations
Future Sub Area Name:	Not reported
Future Document Type:	Certification
Future Due Date:	2014
Future Area Name:	Bldg 807
Future Sub Area Name:	Not reported
Future Document Type:	Certification
Future Due Date:	2013
Future Area Name:	Bldg 991
Future Sub Area Name:	Not reported
Future Document Type:	Certification

OAKLAND ARMY BASE-EARLY TRANSFER (Continued) **S106568695**

Future Due Date: 2012
Future Area Name: Basewide
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2015
Future Area Name: Basewide
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2020
Schedule Area Name: Package A
Schedule Sub Area Name: Not reported
Schedule Document Type: Certification
Schedule Due Date: 11/30/2011
Schedule Revised Date: Not reported
Schedule Area Name: RMP Locations in the Central Motor Pool Area
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Action Completion Report
Schedule Due Date: 2/28/2012
Schedule Revised Date: Not reported
Schedule Area Name: Package A
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Action Completion Report
Schedule Due Date: 10/30/2011
Schedule Revised Date: Not reported
Schedule Area Name: Categorical RMP Location 147 Geotechnical Borings
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Action Completion Report
Schedule Due Date: 6/30/2012
Schedule Revised Date: Not reported
Schedule Area Name: RMP Locations 43, 125, 128, and 160
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Action Completion Report
Schedule Due Date: 4/30/2012
Schedule Revised Date: Not reported
Schedule Area Name: Bldg 991
Schedule Sub Area Name: Not reported
Schedule Document Type: Design/Implementation Workplan
Schedule Due Date: 11/30/2011
Schedule Revised Date: Not reported
Schedule Area Name: RMP Locations in the Central Motor Pool Area
Schedule Sub Area Name: Not reported
Schedule Document Type: Certification
Schedule Due Date: 3/30/2012
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: 5 Year Review Reports
Schedule Due Date: 11/30/2011
Schedule Revised Date: Not reported

N46
SSE
1/8-1/4
0.224 mi.
1185 ft.

HOSHISAKI S
1725 7TH ST
OAKLAND, CA

Site 1 of 2 in cluster N

EDR Historical Cleaners

1009142886
N/A

Relative:
Equal

Actual:
14 ft.

EDR Historical Cleaners:
Name: HOSHISAKI G S
Year: 1925
Type: CLEANERS DYERS AND PRESSERS

Name: HOSHISAKI S
Year: 1933
Type: CLOTHES PRESSERS AND CLEANERS

N47
SSE
1/8-1/4
0.227 mi.
1196 ft.

KONDO SEKI
1726 7TH ST
OAKLAND, CA

Site 2 of 2 in cluster N

EDR Historical Cleaners

1009140938
N/A

Relative:
Equal

Actual:
14 ft.

EDR Historical Cleaners:
Name: KANO I
Year: 1928
Type: LAUNDRIES-ORIENTAL

Name: KONDO SEKI
Year: 1933
Type: LAUNDRIES-HAND

O48
South
1/8-1/4
0.234 mi.
1237 ft.

CAL-EAST FOODS
505 CEDAR STREET
OAKLAND, CA 94607

Site 1 of 2 in cluster O

HIST CORTESE
LUST
Alameda County CS
SWEEPS UST
VCP
ENVIROSTOR

S100931451
N/A

Relative:
Lower

Actual:
13 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: CALSI
Reg Id: 01510024

Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0214

LUST:
Region: STATE
Global Id: T0600100200
Latitude: 37.872849
Longitude: -122.304109
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 06/30/2006
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Case Worker: MP

CAL-EAST FOODS (Continued) **S100931451**

Local Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number:	01-0214
LOC Case Number:	Not reported
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0600100200
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Reported

Global Id:	T0600100200
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Discovery

Global Id:	T0600100200
Action Type:	REMEDIATION
Date:	1950-01-01 00:00:00
Action:	Excavate and Dispose

Global Id:	T0600100200
Action Type:	RESPONSE
Date:	2009-08-10 00:00:00
Action:	Electronic Reporting Submittal Due

Global Id:	T0600100200
Action Type:	ENFORCEMENT
Date:	2009-07-24 00:00:00
Action:	Notice of Violation - #20090724

Global Id:	T0600100200
Action Type:	ENFORCEMENT
Date:	2009-07-28 00:00:00
Action:	Staff Letter - #20090728

Global Id:	T0600100200
Action Type:	ENFORCEMENT
Date:	2008-07-03 00:00:00
Action:	Staff Letter - #20080703

LUST REG 2:

Region:	2
Facility Id:	01-0214
Facility Status:	Leak being confirmed
Case Number:	3971
How Discovered:	Tank Closure
Leak Cause:	UNK
Leak Source:	Tank
Date Leak Confirmed:	10/6/1995
Oversight Program:	LUST

CAL-EAST FOODS (Continued) **S100931451**

Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

Alameda County CS:

Status:	Pollution Characterization
Record Id:	RO0000306
PE:	5602
Status:	Case Transferred
Record Id:	RO0000306
PE:	5602
Status:	Leak being confirmed
Record Id:	RO0000306
PE:	5602
Status:	Post remedial action monitoring
Record Id:	RO0000306
PE:	5602
Status:	Preliminary site assessment underway
Record Id:	RO0000306
PE:	5602

SWEEPS UST:

Status:	Not reported
Comp Number:	4923
Number:	Not reported
Board Of Equalization:	Not reported
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-004923-000001
Actv Date:	Not reported
Capacity:	2500
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	1

VCP:

Facility ID:	01510024
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	.75
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, ALAMEDA COUNTY
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program

CAL-EAST FOODS (Continued) **S100931451**

Project Manager: JACINTO SOTO
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Site Code: 200457
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified
Status Date: 06/30/2006
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.8072222222222 / -122.304166666667
APN: 6-55-2
Past Use: TRANSPORTATION - WAREHOUSING
Potential COC: 30025
Confirmed COC: 30025
Potential Description: SOIL
Alias Name: CYPRESS FREEWAY/CAL-EAST FOODS
Alias Type: Alternate Name
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: 6-55-2
Alias Type: APN
Alias Name: 110033617307
Alias Type: EPA (FRS #)
Alias Name: 200457
Alias Type: Project Code (Site Code)
Alias Name: 01510024
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/30/2006
Comments: Copy of the Tank Removal Report was submitted on 6/4/2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/03/1995
Comments: Approval Fact Sheet for the FS/RAP I-80 Cypress Replacement Project to inform the community about the availibity of the FS/RAP for I-80 Cypress Replacement Project.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 07/03/1995
Comments: Public Notice to inform the community about the availibity of the FS/RAP for I-80 Cypress Replacement Project.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: The FS/RAP acknowledges that the UST has been removed and the monitoring wells have been installed. The RAW requires that CalTrans

CAL-EAST FOODS (Continued) **S100931451**

conduct groundwater monitoring at the site. CalTrans has submitted the groundwater data to the Oakland Fire Department and is awaiting a decision regarding future actions, if any, at the site.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation / Feasibility Study
Completed Date:	07/03/1995
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	08/15/2002
Comments:	Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	VCA signed with CalTrans. This project is part of the Cypress Reconstruction Project. By entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/30/2006
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	01/07/1999
Comments:	Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	.75
NPL:	NO
Regulatory Agencies:	SMBRP, ALAMEDA COUNTY
Lead Agency:	SMBRP

CAL-EAST FOODS (Continued) **S100931451**

Program Manager:	JACINTO SOTO
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Facility ID:	01510024
Site Code:	200457
Assembly:	16
Senate:	09
Special Program:	Voluntary Cleanup Program
Status:	Certified
Status Date:	06/30/2006
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.8072222222222
Longitude:	-122.304166666667
APN:	6-55-2
Past Use:	TRANSPORTATION - WAREHOUSING
Potential COC:	30025
Confirmed COC:	30025
Potential Description:	SOIL
Alias Name:	CYPRESS FREEWAY/CAL-EAST FOODS
Alias Type:	Alternate Name
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	6-55-2
Alias Type:	APN
Alias Name:	110033617307
Alias Type:	EPA (FRS #)
Alias Name:	200457
Alias Type:	Project Code (Site Code)
Alias Name:	01510024
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	06/30/2006
Comments:	Copy of the Tank Removal Report was submitted on 6/4/2006.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	07/03/1995
Comments:	Approval Fact Sheet for the FS/RAP I-80 Cypress Replacement Project to inform the community about the availibity of the FS/RAP for I-80 Cypress Replacement Project.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	07/03/1995
Comments:	Public Notice to inform the community about the availibity of the FS/RAP for I-80 Cypress Replacement Project.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Plan

CAL-EAST FOODS (Continued) **S100931451**

Completed Date:	08/14/1995
Comments:	The FS/RAP acknowledges that the UST has been removed and the monitoring wells have been installed. The RAW requires that CalTrans conduct groundwater monitoring at the site. CalTrans has submitted the groundwater data to the Oakland Fire Department and is awaiting a decision regarding future actions, if any, at the site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation / Feasibility Study
Completed Date:	07/03/1995
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	08/15/2002
Comments:	Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	VCA signed with CalTrans. This project is part of the Cypress Reconstruction Project. By entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/30/2006
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	01/07/1999
Comments:	Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

O49 **SSE** **1/8-1/4** **0.238 mi.** **1257 ft.**	**PHOENIX 524 PROPERTY** **524 CEDAR STREET** **OAKLAND, CA 94607** **Site 2 of 2 in cluster O**	**HIST CORTESE** **VCP** **ENVIROSTOR**	**S102008192** **N/A**

Relative:
Lower

Actual:
13 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: CALSI
Reg Id: 01330038

VCP:
Facility ID: 01330038
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 2.32
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: JACINTO SOTO
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 200348
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Inactive - Needs Evaluation
Status Date: 09/03/2010
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.8102581304632 / -122.304271057059
APN: 6-51-1
Past Use: RETAIL - SERVICE STATION
Potential COC: 30001, 30013, 30108, 30407
Confirmed COC: 30108,30407,30001,30013
Potential Description: OTH, SOIL
Alias Name: CALTRANS 880/CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: INDEPENDENT IRON WORKS
Alias Type: Alternate Name
Alias Name: PHOENIX PROPERTIES
Alias Type: Alternate Name
Alias Name: 6-51-1
Alias Type: APN
Alias Name: 110033611492
Alias Type: EPA (FRS #)
Alias Name: 200348
Alias Type: Project Code (Site Code)
Alias Name: 01330038
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/07/1999

PHOENIX 524 PROPERTY (Continued) **S102008192**

Comments: Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 05/02/1997
Comments: Approved report documenting excavation and disposed off-site about 6,370 tons of soil. Monitoring wells must be installed to determine if the underlying groundwater has been impacted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 04/01/1996
Comments: Approved Design.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: Approved RAP requiring hotspot soil removal , groundwater monitoring and deed restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: Completed RIFS. Soil investigation detected elevated levels of cadmium, nickel, arsenic, thallium, and petroleum hydrocarbons. Site investigation activities, performed prior to the 5/10/1994 VCA, were reported in the Site Investigation Report Area 4 dated August 1992. The RI/FS was approved on July 3, 1995 when the Remedial Action Plan Was approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/02/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 08/15/2002
Comments: Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required

PHOENIX 524 PROPERTY (Continued) **S102008192**

on a site by site evaluation.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Removal Action Workplan
Future Due Date: 2013
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Operations and Maintenance Plan
Future Due Date: 2014
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Completion Report
Future Due Date: 2014
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedial Investigation Report
Future Due Date: 2013
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2014
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2014
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 2.32
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: JACINTO SOTO
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 01330038
Site Code: 200348
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program
Status: Inactive - Needs Evaluation
Status Date: 09/03/2010
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8102581304632
Longitude: -122.304271057059
APN: 6-51-1
Past Use: RETAIL - SERVICE STATION
Potential COC: 30001, 30013, 30108, 30407

PHOENIX 524 PROPERTY (Continued) **S102008192**

Confirmed COC: 30108,30407,30001,30013
Potential Description: OTH, SOIL
Alias Name: CALTRANS 880/CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: INDEPENDENT IRON WORKS
Alias Type: Alternate Name
Alias Name: PHOENIX PROPERTIES
Alias Type: Alternate Name
Alias Name: 6-51-1
Alias Type: APN
Alias Name: 110033611492
Alias Type: EPA (FRS #)
Alias Name: 200348
Alias Type: Project Code (Site Code)
Alias Name: 01330038
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/07/1999
Comments: Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 05/02/1997
Comments: Approved report documenting excavation and disposed off-site about 6,370 tons of soil. Monitoring wells must be installed to determine if the underlying groundwater has been impacted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 04/01/1996
Comments: Approved Design.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: Approved RAP requiring hotspot soil removal , groundwater monitoring and deed restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: Completed RIFS. Soil investigation detected elevated levels of cadmium, nickel, arsenic, thallium, and petroleum hydrocarbons. Site investigation activities, performed prior to the 5/10/1994 VCA, were reported in the Site Investigation Report Area 4 dated August 1992. The RI/FS was approved on July 3, 1995 when the Remedial Action Plan Was approved.

Completed Area Name: PROJECT WIDE

PHOENIX 524 PROPERTY (Continued) **S102008192**

Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/02/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 08/15/2002
Comments: Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Removal Action Workplan
Future Due Date: 2013
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Operations and Maintenance Plan
Future Due Date: 2014
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Completion Report
Future Due Date: 2014
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedial Investigation Report
Future Due Date: 2013
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2014
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2014
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

P50
SW
1/8-1/4
0.245 mi.
1294 ft.

ALL WEATHER DOOR
1851 5TH ST
OAKLAND, CA 94607

Site 1 of 5 in cluster P

LUST **S110071396**
N/A

Relative:
Lower

Actual:
12 ft.

LUST:

Region:	STATE
Global Id:	T0600101584
Latitude:	37.80715
Longitude:	-122.304878
Case Type:	LUST Cleanup Site
Status:	Open - Site Assessment
Status Date:	07/29/2010
Lead Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Case Worker:	MP
Local Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number:	01-1713
LOC Case Number:	RO0000192
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0600101584
Action Type:	ENFORCEMENT
Date:	2008-05-29 00:00:00
Action:	Staff Letter - #20080529
Global Id:	T0600101584
Action Type:	RESPONSE
Date:	2009-08-10 00:00:00
Action:	Electronic Reporting Submittal Due
Global Id:	T0600101584
Action Type:	ENFORCEMENT
Date:	2009-07-24 00:00:00
Action:	Notice of Violation - #20090724
Global Id:	T0600101584
Action Type:	ENFORCEMENT
Date:	2009-07-24 00:00:00
Action:	Staff Letter - #20090724
Global Id:	T0600101584
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Discovery
Global Id:	T0600101584
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Reported
Global Id:	T0600101584
Action Type:	RESPONSE
Date:	2008-07-28 00:00:00

ALL WEATHER DOOR (Continued) **S110071396**

Action: Soil and Water Investigation Workplan

Global Id: T0600101584
Action Type: ENFORCEMENT
Date: 2008-07-03 00:00:00
Action: Staff Letter - #20080703

P51
SW
1/8-1/4
0.245 mi.
1294 ft.

VACANT BUILDING ON 5TH STREET
1851 5TH STREET
OAKLAND, CA 94607

Site 2 of 5 in cluster P

HIST CORTESE
LUST
Alameda County CS
VCP
ENVIROSTOR

S102423862
N/A

Relative:
Lower

Actual:
12 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1713

LUST REG 2:
Region: 2
Facility Id: 01-1713
Facility Status: Preliminary site assessment underway
Case Number: 3795
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: Tank
Date Leak Confirmed: 3/25/1992
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 1/2/1965
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Case Transferred
Record Id: RO0000192
PE: 5602

Status: Leak being confirmed
Record Id: RO0000192
PE: 5602

Status: Preliminary site assessment underway
Record Id: RO0000192
PE: 5602

VCP:
Facility ID: 01990013
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1.11

VACANT BUILDING ON 5TH STREET (Continued) **S102423862**

National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: JACINTO SOTO
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 200469
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Inactive - Needs Evaluation
Status Date: 09/03/2010
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.8068151615033 / -122.306491293177
APN: 006-0055-004-00
Past Use: RETAIL - SERVICE STATION
Potential COC: 30025, 3002502
Confirmed COC: 30025,3002502
Potential Description: SOIL
Alias Name: ALL WEATHER ARCHITECTURAL ALUMINUM, INC
Alias Type: Alternate Name
Alias Name: CYPREES FREEWAY/VACANT BUILDING
Alias Type: Alternate Name
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: VACANT BUILDING
Alias Type: Alternate Name
Alias Name: 006-0055-004-00
Alias Type: APN
Alias Name: 110033613230
Alias Type: EPA (FRS #)
Alias Name: T0600101584
Alias Type: GeoTracker Global ID
Alias Name: 200469
Alias Type: Project Code (Site Code)
Alias Name: 01990013
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: Two underground storage tanks (1,800-gallon fuel oil and 10,000-gallon gasoline) were removed in 1988. Gasoline and petroleum related compounds were detected in either the soil or groundwater. Sampling done in 1992 still detected petroleum related contamination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: Recommended that a concrete trench and surrounding soil containing petroleum hydrocarbons be excavated and removed from the site.

Completed Area Name: PROJECT WIDE

VACANT BUILDING ON 5TH STREET (Continued) **S102423862**

Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 08/14/1995
Comments: The PEA recommended that a concrete trench and surrounding soil containing petroleum hydrocarbons be excavated and removed from the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 08/15/2002
Comments: Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/07/1999
Comments: Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedial Investigation Report
Future Due Date: 2012
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2013
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2013
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 1.11
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP

VACANT BUILDING ON 5TH STREET (Continued) **S102423862**

Program Manager:	JACINTO SOTO
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	01990013
Site Code:	200469
Assembly:	16
Senate:	09
Special Program:	Voluntary Cleanup Program
Status:	Inactive - Needs Evaluation
Status Date:	09/03/2010
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.8068151615033
Longitude:	-122.306491293177
APN:	006-0055-004-00
Past Use:	RETAIL - SERVICE STATION
Potential COC:	30025, 3002502
Confirmed COC:	30025,3002502
Potential Description:	SOIL
Alias Name:	ALL WEATHER ARCHITECTURAL ALUMINUM, INC
Alias Type:	Alternate Name
Alias Name:	CYPREES FREEWAY/VACANT BUILDING
Alias Type:	Alternate Name
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	VACANT BUILDING
Alias Type:	Alternate Name
Alias Name:	006-0055-004-00
Alias Type:	APN
Alias Name:	110033613230
Alias Type:	EPA (FRS #)
Alias Name:	T0600101584
Alias Type:	GeoTracker Global ID
Alias Name:	200469
Alias Type:	Project Code (Site Code)
Alias Name:	01990013
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation / Feasibility Study
Completed Date:	07/03/1995
Comments:	Two underground storage tanks (1,800-gallon fuel oil and 10,000-gallon gasoline) were removed in 1988. Gasoline and petroleum related compounds were detected in either the soil or groundwater. Sampling done in 1992 still detected petroleum related contamination.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Plan
Completed Date:	08/14/1995
Comments:	Recommended that a concrete trench and surrounding soil containing petroleum hydrocarbons be excavated and removed from the site.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

VACANT BUILDING ON 5TH STREET (Continued) **S102423862**

Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	08/14/1995
Comments:	The PEA recommended that a concrete trench and surrounding soil containing petroleum hydrocarbons be excavated and removed from the site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	08/15/2002
Comments:	Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	01/07/1999
Comments:	Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Investigation Report
Future Due Date:	2012
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Certification
Future Due Date:	2013
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Land Use Restriction
Future Due Date:	2013
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

P52	**WEST OAKLAND YARD**	**RCRA-SQG**	**1000409161**
SW	**515 BAY STREET**	**HAZNET**	**CAD000628198**
1/8-1/4	**OAKLAND, CA 94607**	**FINANCIAL ASSURANCE**	
0.245 mi.			
1294 ft.	**Site 3 of 5 in cluster P**		

Relative:
Lower

Actual:
12 ft.

RCRA-SQG:
Date form received by agency: 07/15/2005
Facility name: WEST OAKLAND YARD
Facility address: 1851 5TH STREET
UNIT B
OAKLAND, CA 94607
EPA ID: CAD000628198
Contact: JAMES E DIEL
Contact address: 1851 5TH STREET UNIT B
OAKLAND, CA 94607
Contact country: US
Contact telephone: 916-789-5184
Contact email: JEDIEL@UP.COM
EPA Region: 09
Land type: Private
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: UNION PACIFIC RAILROAD
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 08/01/1996
Owner/Op end date: Not reported

Owner/operator name: UNION PACIFIC RAILROAD
Owner/operator address: 1400 DOUGLAS STREET ROOM 1030
OMAHA, NE 68179
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 08/01/1996
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No

WEST OAKLAND YARD (Continued) **1000409161**

Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	09/01/1996
Facility name:	WEST OAKLAND YARD
Site name:	SOUTHERN PACIFIC TRANSPORTATION CO
Classification:	Large Quantity Generator
Date form received by agency:	03/15/1994
Facility name:	WEST OAKLAND YARD
Site name:	SOUTHERN PACIFIC TRANS CO, OAKLAND FAC
Classification:	Large Quantity Generator
Date form received by agency:	08/25/1992
Facility name:	WEST OAKLAND YARD
Site name:	SOUTHERN PACIFIC OAKLAND
Classification:	Large Quantity Generator
Date form received by agency:	06/28/1990
Facility name:	WEST OAKLAND YARD
Site name:	SOUTHERN PACIFIC TRANSPORTATION C
Classification:	Large Quantity Generator
Date form received by agency:	08/18/1980
Facility name:	WEST OAKLAND YARD
Site name:	SOUTHERN PACIFIC TRANSPORTATION CO
Classification:	Large Quantity Generator

Hazardous Waste Summary:

Waste code:	D001
Waste name:	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Facility Has Received Notices of Violations:

Regulation violated:	Not reported
Area of violation:	Generators - General
Date violation determined:	04/12/1985
Date achieved compliance:	04/27/1985
Violation lead agency:	EPA
Enforcement action:	Not reported
Enforcement action date:	Not reported
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	Not reported
Proposed penalty amount:	0

WEST OAKLAND YARD (Continued) **1000409161**

Final penalty amount: 0
Paid penalty amount: 0

Evaluation Action Summary:
Evaluation date: 09/10/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 06/19/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 04/12/1985
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - General
Date achieved compliance: 04/27/1985
Evaluation lead agency: EPA

HAZNET:
Year: 2008
Gepaid: CAD000628198
Contact: JAMES THOMAS
Telephone: 916789558
Mailing Name: Not reported
Mailing Address: 9451 ATKINSON ST
Mailing City,St,Zip: ROSEVILLE, CA 957479711
Gen County: Alameda
TSD EPA ID: NVD982510711
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE
Tons: 52.136
Facility County: Alameda

Year: 2008
Gepaid: CAD000628198
Contact: JAMES THOMAS
Telephone: 916789558
Mailing Name: Not reported
Mailing Address: 9451 ATKINSON ST
Mailing City,St,Zip: ROSEVILLE, CA 957479711
Gen County: Alameda
TSD EPA ID: NVD982510711
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Not reported
Tons: 20.14
Facility County: Alameda

Year: 2007
Gepaid: CAD000628198
Contact: JAMES E DIEL
Telephone: 9167895184

WEST OAKLAND YARD (Continued) **1000409161**

Mailing Name:	Not reported
Mailing Address:	1851 5TH STREET UNIT B
Mailing City,St,Zip:	OAKLAND, CA 946070000
Gen County:	Alameda
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Waste oil and mixed oil
Disposal Method:	OTHER RECOVERY OF RECLAMATION FOR REUSE INCLUDING ACID REGENERATION, ORGANICS RECOVERY ECT
Tons:	23.56
Facility County:	Alameda

Year:	2006
Gepaid:	CAD000628198
Contact:	JAMES E DIEL
Telephone:	9167895184
Mailing Name:	Not reported
Mailing Address:	1851 5TH STREET UNIT B
Mailing City,St,Zip:	OAKLAND, CA 946070000
Gen County:	Alameda
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Waste oil and mixed oil
Disposal Method:	H03
Tons:	20.85
Facility County:	1

Year:	2005
Gepaid:	CAD000628198
Contact:	JAMES E DIEL
Telephone:	9167895184
Mailing Name:	Not reported
Mailing Address:	1851 5TH STREET UNIT B
Mailing City,St,Zip:	OAKLAND, CA 946070000
Gen County:	Alameda
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Waste oil and mixed oil
Disposal Method:	Not reported
Tons:	47.95
Facility County:	Not reported

Click this hyperlink while viewing on your computer to access
1 additional CA_HAZNET: record(s) in the EDR Site Report.

FINANCIAL ASSURANCE:

EPA ID Number:	CAD000628198
Closure Mechanism:	FT
Closure Amount:	54,767
Post Clousure Mechanism:	Not reported
Post Clousure Amount:	Not reported
Corrective Action Mechanism:	Not reported
Corrective Action Amount:	Not reported
Sudden Mecahanism Type:	Not reported
Sudden Mecahanism Amount:	Not reported
Non Sudden Mecahanism Type:	Not reported
Non Sudden Mecahanism Amount:	Not reported

P53
SW
1/8-1/4
0.245 mi.
1294 ft.

WEST OAKLAND YARD
1851 FIFTH ST.
OAKLAND, CA

Site 4 of 5 in cluster P

AST

A100346217
N/A

Relative:
Lower

Actual:
12 ft.

AST:
Owner: UNION PACIFIC RAILROAD
Total Gallons: 51,050
Certified Unified Program Agencies: Oakland

P54
SW
1/8-1/4
0.245 mi.
1294 ft.

ALL-WEATHER ARCH. ALUM. INC.
1851 5TH ST
OAKLAND, CA 94608

Site 5 of 5 in cluster P

HIST UST
CHMIRS

U001599252
N/A

Relative:
Lower

Actual:
12 ft.

HIST UST:
Region: STATE
Facility ID: 00000068557
Facility Type: Other
Other Type: MFG. PLANT
Total Tanks: 0002
Contact Name: HOWARD SODERBERG
Telephone: 4158325042
Owner Name: PORTER TRUST (LANCE PORTER)
Owner Address: 909 ALDRIDGE ROAD
Owner City,St,Zip: VACAVILLE, CA 95688

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: WASTE
Type of Fuel: 1
Tank Construction: Unkown inches
Leak Detection: Visual, Stock Inventor, Pressure Test

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Visual, Stock Inventor, Pressure Test

CHMIRS:
OES Incident Number: 99-4779
OES notification: 11/10/199910:25:00 AM
OES Date: Not reported
OES Time: Not reported
Incident Date: Not reported
Date Completed: **Not reported**
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported

ALL-WEATHER ARCH. ALUM. INC. (Continued) **U001599252**

Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
Special Studies 1:	Not reported
Special Studies 2:	Not reported
Special Studies 3:	Not reported
Special Studies 4:	Not reported
Special Studies 5:	Not reported
Special Studies 6:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA/DOT/PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Comments:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1999
Agency:	UPRR
Incident Date:	11/10/199912:00:00 AM
Admin Agency:	City of Oakland Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Rail Road
E Date:	Not reported
Substance:	Diesel Fuel
Quantity Released:	Not reported
BBLS:	0
Cups:	0
CUFT:	0
Gallons:	800
Grams:	0
Pounds:	0
Liters:	0
Ounces:	0
Pints:	0
Quarts:	0
Sheen:	0

ALL-WEATHER ARCH. ALUM. INC. (Continued) **U001599252**

Tons: 0
Unknown: 0
Evacuations: 0
Number of Injuries: 0
Number of Fatalities: 0
Description: Fuel storage pump blew fitting, allowing substance to flow out.

OES Incident Number: 98-2494
OES notification: 5/29/199809:10:08 AM
OES Date: Not reported
OES Time: Not reported
Incident Date: Not reported
Date Completed: Not reported
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
Special Studies 1: Not reported
Special Studies 2: Not reported
Special Studies 3: Not reported
Special Studies 4: Not reported
Special Studies 5: Not reported
Special Studies 6: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA/DOT/PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Comments: Not reported
Facility Telephone: Not reported
Waterway Involved: No
Waterway: Not reported
Spill Site: Not reported
Cleanup By: Reporting Party
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 1998
Agency: UPRR
Incident Date: 5/29/199812:00:00 AM

ALL-WEATHER ARCH. ALUM. INC. (Continued) **U001599252**

Admin Agency:	City of Oakland Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Treatment/Sewage Facility
E Date:	Not reported
Substance:	Diesel fuel/oil
Quantity Released:	Not reported
BBLS:	0
Cups:	0
CUFT:	0
Gallons:	400
Grams:	0
Pounds:	0
Liters:	0
Ounces:	0
Pints:	0
Quarts:	0
Sheen:	0
Tons:	0
Unknown:	0
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
Description:	Waste water treatment plant, separator pump came loose from its' mount allowing substance to escape

---

Q55
SSW
1/8-1/4
0.247 mi.
1304 ft.

W.O. RIP TRACK
515 BAY ST
OAKLAND, CA 94607

HIST UST **U001599234**
N/A

Site 1 of 4 in cluster Q

Relative:
Lower

Actual:
12 ft.

HIST UST:

Region:	STATE
Facility ID:	00000024512
Facility Type:	Other
Other Type:	RAILYARD
Total Tanks:	0001
Contact Name:	BAGLEY
Telephone:	4158917628
Owner Name:	SOUTHERN PACIFIC TRANSPORTATIO
Owner Address:	ONE MARKET PLAZA
Owner City,St,Zip:	SAN FRANCISCO, CA 94105

Tank Num:	001
Container Num:	1
Year Installed:	1976
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Tank Construction:	1/4" inches
Leak Detection:	Pressure Test

Q56 **SSW** **1/8-1/4** **0.247 mi.** **1304 ft.**	**SOUTHERN PACIFIC DESERT RAIL** **515 BAY ST** **OAKLAND, CA 94609** **Site 2 of 4 in cluster Q**	**LUST**	**S109283952** **N/A**

Relative:
Lower

Actual:
12 ft.

LUST:

Region: STATE
Global Id: T0600101306
Latitude: 37.807644
Longitude: -122.305773
Case Type: LUST Cleanup Site
Status: Open - Site Assessment
Status Date: 07/29/2010
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Case Worker: Not reported
Local Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number: 01-1414
LOC Case Number: RO0003030
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id: T0600101306
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Discovery

Global Id: T0600101306
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Stopped

Global Id: T0600101306
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

Q57 **SSW** **1/8-1/4** **0.247 mi.** **1304 ft.**	**SOUTHERN PACIFIC DESERT Y** **515 BAY** **OAKLAND, CA** **Site 3 of 4 in cluster Q**	**WDS** **HIST CORTESE** **CA FID UST** **SWEEPS UST** **CHMIRS**	**S101624391** **N/A**

Relative:
Lower

Actual:
12 ft.

CA WDS:

Facility ID: San Francisco Bay 01I004572
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7

SOUTHERN PACIFIC DESERT Y (Continued) **S101624391**

are assigned by the Regional Board
Subregion: 2
Facility Telephone: 5038836518
Facility Contact: WILLIAMS E L
Agency Name: UNION PACIFIC RAILROAD CO
Agency Address: 1600 Vernon St
Agency City,St,Zip: Roseville 956783951
Agency Contact: CHRISTMAS CHRISTINE
Agency Telephone: 6196696712
Agency Type: Private
SIC Code: 0
SIC Code 2: Not reported
Primary Waste: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1414

CA FID UST:
Facility ID: 01001526
Regulated By: UTNKI
Regulated ID: 00024512
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4158917628
Mail To: Not reported
Mailing Address: 15 BAY ST
Mailing Address 2: Not reported
Mailing City,St,Zip: OAKLAND 94607
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported

SOUTHERN PACIFIC DESERT Y (Continued) **S101624391**

Status:	Inactive

Facility ID:	01001526
Regulated By:	UTNKI
Regulated ID:	00024518
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4158917628
Mail To:	Not reported
Mailing Address:	515 BAY ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	OAKLAND 94607
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

SWEEPS UST:

Status:	Not reported
Comp Number:	24512
Number:	Not reported
Board Of Equalization:	44-000292
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-024512-000001
Actv Date:	Not reported
Capacity:	2000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	LEADED
Number Of Tanks:	1

CHMIRS:

OES Incident Number:	011485
OES notification:	Not reported
OES Date:	12/26/1995
OES Time:	12:35:46 AM
Incident Date:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
Special Studies 1:	Not reported
Special Studies 2:	Not reported
Special Studies 3:	Not reported

SOUTHERN PACIFIC DESERT Y (Continued) **S101624391**

Special Studies 4: Not reported
Special Studies 5: Not reported
Special Studies 6: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA/DOT/PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Comments: Not reported
Facility Telephone: Not reported
Waterway Involved: YES
Waterway: Not reported
Spill Site: Not reported
Cleanup By: Not reported
Containment: Not reported
What Happened: Not reported
Type: PETROLEUM
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 1995
Agency: southern pacific
Incident Date: 0010/12-26-95
Admin Agency: Not reported
Amount: 50-100 gallons
Contained: Not reported
Site Type: R/R
E Date: Not reported
Substance: diesel
Quantity Released: Not reported
BBLS: Not reported
Cups: Not reported
CUFT: Not reported
Gallons: Not reported
Grams: Not reported
Pounds: Not reported
Liters: Not reported
Ounces: Not reported
Pints: Not reported
Quarts: Not reported
Sheen: Not reported
Tons: Not reported
Unknown: Not reported
Evacuations: NO
Number of Injuries: NO
Number of Fatalities: NO
Description: while private contractor was refueling a locomotivethere was runoff

SOUTHERN PACIFIC DESERT Y (Continued) **S101624391**

of substance. unknown if fuel entered drain.

OES Incident Number:	97-3781
OES notification:	9/25/199701:03:08 PM
OES Date:	Not reported
OES Time:	Not reported
Incident Date:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
Special Studies 1:	Not reported
Special Studies 2:	Not reported
Special Studies 3:	Not reported
Special Studies 4:	Not reported
Special Studies 5:	Not reported
Special Studies 6:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA/DOT/PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Comments:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1997
Agency:	UP Railroad
Incident Date:	9/25/199712:00:00 AM
Admin Agency:	City of Oakland Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Rail Road
E Date:	Not reported

SOUTHERN PACIFIC DESERT Y (Continued) **S101624391**

Substance:	Sodium Bisulfite
Quantity Released:	Not reported
BBLS:	0
Cups:	0
CUFT:	0
Gallons:	1
Grams:	0
Pounds:	0
Liters:	0
Ounces:	0
Pints:	0
Quarts:	0
Sheen:	0
Tons:	0
Unknown:	0
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
Description:	Ruptured safety vent disk allowed substance to be released. Disk has been repaired

---

Q58	**S.P. CO. DESERT YARD**	**NPDES**	**U001599216**
SSW	**515 BAY ST**	**Alameda County CS**	**N/A**
1/8-1/4	**OAKLAND, CA 94607**	**HIST UST**	
0.247 mi.		**SWEEPS UST**	
1304 ft.	**Site 4 of 4 in cluster Q**		

Relative:
Lower

Actual:
12 ft.

NPDES:

Npdes Number:	CAS00001
Facility Status:	Active
Agency Id:	N/A
Region:	2
Regulatory Measure Id:	Not Available
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not Available
WDID:	2 01I004572
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	N/A
Effective Date Of Regulatory Measure:	4/8/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Union Pacific Railroad
Discharge Address:	9451 Atkinson St Ste100
Discharge City:	Roseville
Discharge State:	Ca
Discharge Zip:	96747

Alameda County CS:

Status:	Leak being confirmed
Record Id:	RO0003030
PE:	5602

Status:	Case Transferred
Record Id:	RO0003030
PE:	5602

S.P. CO. DESERT YARD (Continued) **U001599216**

HIST UST:
Region: STATE
Facility ID: 00000024518
Facility Type: Other
Other Type: RAILYARD
Total Tanks: 0001
Contact Name: BAGLEY
Telephone: 4158917628
Owner Name: SOUTHERN PACIFIC TRANSPORTATIO
Owner Address: 1 MARKET STREET 1 MARKET PLAZA
Owner City,St,Zip: SAN FRANCISCO, CA 94105

Tank Num: 001
Container Num: 1
Year Installed: 1980
Tank Capacity: 00002500
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: 1/4" inches
Leak Detection: Pressure Test

SWEEPS UST:
Status: Not reported
Comp Number: 24518
Number: Not reported
Board Of Equalization: 44-000295
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-024518-000001
Actv Date: Not reported
Capacity: 2500
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: LEADED
Number Of Tanks: 1

---

59 **SSW** **1/4-1/2** **0.267 mi.** **1410 ft.**	**SPT CO LOCO FUEL PLANT WD** **UNKNOWN PINE ST FOOT OF** **OAKLAND, CA 94607**	**HIST CORTESE** **LUST**	**S103472392** **N/A**

Relative:
Lower

Actual:
12 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-2426

LUST REG 2:
Region: 2
Facility Id: 01-2426
Facility Status: Preliminary site assessment underway
Case Number: 5354

SPT CO LOCO FUEL PLANT WD (Continued) **S103472392**

How Discovered:	Tank Closure
Leak Cause:	UNK
Leak Source:	UNK
Date Leak Confirmed:	1/28/1998
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	1/2/1965
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

60
South
1/4-1/2
0.291 mi.
1536 ft.

SO. PRESCOTT NEIGHBORHOOD PARK
3RD STREET
OAKLAND, CA 94607

VCP
ENVIROSTOR

S102564431
N/A

Relative:
Lower

Actual:
12 ft.

VCP:

Facility ID:	01990019
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	4.3
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, US EPA, CITY OF OAKLAND
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	LYNN NAKASHIMA
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Site Code:	200485
Assembly:	16
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified
Status Date:	05/25/2001
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.803 / -122.2982
APN:	0000039300100, 0000039300201, 0000039300202, 0000039300301, 0000039300302, 0000039300401, 0000039300402
Past Use:	JUNKYARD
Potential COC:	30013
Confirmed COC:	30013
Potential Description:	SOIL
Alias Name:	CYPRESS FREEWAY/SO. PRESCOTT PARK
Alias Type:	Alternate Name
Alias Name:	SMITH’S WRECKING YARD, BOBO’S JUNKYARD
Alias Type:	Alternate Name
Alias Name:	SOUTHERN PACIFIC
Alias Type:	Alternate Name
Alias Name:	0000039300100
Alias Type:	APN
Alias Name:	0000039300201
Alias Type:	APN
Alias Name:	0000039300202
Alias Type:	APN

SO. PRESCOTT NEIGHBORHOOD PARK (Continued) **S102564431**

Alias Name:	0000039300301
Alias Type:	APN
Alias Name:	0000039300302
Alias Type:	APN
Alias Name:	0000039300401
Alias Type:	APN
Alias Name:	0000039300402
Alias Type:	APN
Alias Name:	110033615817
Alias Type:	EPA (FRS #)
Alias Name:	200485
Alias Type:	Project Code (Site Code)
Alias Name:	01990019
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	01/03/1994
Comments:	.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	05/24/2001
Comments:	Approximately 17,000 cubic yards of soil were excavated and disposed off-site. In addition, two unknown underground tanks were found and removed. The property was remediated to residential standards.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	08/02/1999
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Plan
Completed Date:	03/20/1998
Comments:	Approved RAP which consisted of excavation and backfill of all areas exceeding cleanup goals. The RAP further required a minimum of 3 feet of clean fill over the entire site.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	06/19/1995
Comments:	Report describes the soil and groundwater results.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Responsible Agency Review
Completed Date:	03/20/1998
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

SO. PRESCOTT NEIGHBORHOOD PARK (Continued) **S102564431**

Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 05/25/2001
Comments: Certified Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/07/1999
Comments: Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 4.3
NPL: NO
Regulatory Agencies: SMBRP, US EPA, CITY OF OAKLAND
Lead Agency: SMBRP
Program Manager: LYNN NAKASHIMA
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Facility ID: 01990019
Site Code: 200485
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program
Status: Certified
Status Date: 05/25/2001
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.803
Longitude: -122.2982
APN: 0000039300100, 0000039300201, 0000039300202, 0000039300301, 0000039300302, 0000039300401, 0000039300402
Past Use: JUNKYARD

SO. PRESCOTT NEIGHBORHOOD PARK (Continued) **S102564431**

Potential COC: 30013
Confirmed COC: 30013
Potential Description: SOIL
Alias Name: CYPRESS FREEWAY/SO. PRESCOTT PARK
Alias Type: Alternate Name
Alias Name: SMITH’S WRECKING YARD, BOBO’S JUNKYARD
Alias Type: Alternate Name
Alias Name: SOUTHERN PACIFIC
Alias Type: Alternate Name
Alias Name: 0000039300100
Alias Type: APN
Alias Name: 0000039300201
Alias Type: APN
Alias Name: 0000039300202
Alias Type: APN
Alias Name: 0000039300301
Alias Type: APN
Alias Name: 0000039300302
Alias Type: APN
Alias Name: 0000039300401
Alias Type: APN
Alias Name: 0000039300402
Alias Type: APN
Alias Name: 110033615817
Alias Type: EPA (FRS #)
Alias Name: 200485
Alias Type: Project Code (Site Code)
Alias Name: 01990019
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 01/03/1994
Comments: .

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 05/24/2001
Comments: Approximately 17,000 cubic yards of soil were excavated and disposed off-site. In addition, two unknown underground tanks were found and removed. The property was remediated to residential standards.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 08/02/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 03/20/1998
Comments: Approved RAP which consisted of excavation and backfill of all areas exceeding cleanup goals. The RAP further required a minimum of 3 feet of clean fill over the entire site.

SO. PRESCOTT NEIGHBORHOOD PARK (Continued) **S102564431**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	06/19/1995
Comments:	Report describes the soil and groundwater results.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Responsible Agency Review
Completed Date:	03/20/1998
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	05/25/2001
Comments:	Certified Site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	01/07/1999
Comments:	Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

R61 **USPS - MAIN POST OFFICE ELEVATOR** **SLIC** **S110041806**
SE **1675 7TH ST** **N/A**
1/4-1/2 **OAKLAND, CA 94607**
0.292 mi.
1540 ft. **Site 1 of 2 in cluster R**

Relative:
Equal

Actual:
14 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	10/23/2009
Global Id:	T10000001615
Lead Agency:	ALAMEDA COUNTY LOP

USPS - MAIN POST OFFICE ELEVATOR (Continued) **S110041806**

Lead Agency Case Number: RO0003012
Latitude: 37.8061899056257
Longitude: -122.301435470581
Case Type: Cleanup Program Site
Case Worker: BJJ
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: Not reported
File Location: Local Agency Warehouse
Potential Media Affected: Not reported
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Map ID / Direction / Distance / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
R62 **SE** **1/4-1/2** **0.292 mi.** **1540 ft.**	**UNITED STATES POSTAL SERVICE, OAKLAND P&DC** **1675 7TH ST** **OAKLAND, CA 94615** **Site 2 of 2 in cluster R**	**NPDES** **WDS** **HIST CORTESE** **LUST** **Alameda County CS** **VCP** **HAZNET** **ENVIROSTOR**	**S100947861** **N/A**

Relative:
Equal

Actual:
14 ft.

NPDES:
Npdes Number: CAS00001
Facility Status: Active
Agency Id: N/A
Region: 2
Regulatory Measure Id: Not Available
Order No: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not Available
WDID: 2 01I006115
Program Type: Industrial
Adoption Date Of Regulatory Measure: N/A
Effective Date Of Regulatory Measure: 4/21/1992
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: US Postal Service
Discharge Address: 2070 N Broadway Rd
Discharge City: Walnut Creek
Discharge State: Ca
Discharge Zip: 94596

CA WDS:
Facility ID: San Francisco Bay 01I006115
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 2

UNITED STATES POSTAL SERVICE, OAKLAND P&DC (Continued) **S100947861**

Facility Telephone:	5108748462
Facility Contact:	VMF MANAGER
Agency Name:	US POSTAL SER
Agency Address:	1675 7th St
Agency City,St,Zip:	Oakland 946150002
Agency Contact:	VMF MANAGER
Agency Telephone:	8002758777
Agency Type:	?
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-0487

LUST:

Region:	STATE
Global Id:	T0600100443
Latitude:	37.8051387832371
Longitude:	-122.301650047302
Case Type:	LUST Cleanup Site
Status:	Open - Site Assessment
Status Date:	10/08/1999
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	BJJ
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-0487
LOC Case Number:	RO0000016
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	In November 1991, one 5,000-gallon gasoline UST, two 10,000-gallon diesel USTs, one 750-gallon waste-oil UST, dispensers, and associated piping were removed from the site and replaced with two diesel USTs

UNITED STATES POSTAL SERVICE, OAKLAND P&DC (Continued) **S100947861**

and one aboveground WOT. Elevated petroleum hydrocarbons were reported in soil collected from the excavation sidewalls. In June 1992, one 10,000-gallon diesel UST was removed. Groundwater contained 72,000 |g/L TPHd. Monitoring wells were installed in 1994. Free product was observed in MW-4 in the June 2002 monitoring event. Free product bailing and adsorbent socks were deployed. Groundwater monitoring discontinued in 2003.

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0600100443
Contact Type: Local Agency Caseworker
Contact Name: BARBARA JAKUB
Organization Name: ALAMEDA COUNTY LOP
Address: 1131 HARBOR BAY PARKWAY
City: ALAMEDA
Email: Not reported
Phone Number: 5106391287

Global Id: T0600100443
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0600100443
Action Type: ENFORCEMENT
Date: 2009-07-24 00:00:00
Action: Notice of Violation - #20090724

Global Id: T0600100443
Action Type: RESPONSE
Date: 2011-09-22 00:00:00
Action: Soil and Water Investigation Workplan

Global Id: T0600100443
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Discovery

Global Id: T0600100443
Action Type: REMEDIATION
Date: 1950-01-01 00:00:00
Action: Excavate and Dispose

Global Id: T0600100443
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Stopped

Global Id: T0600100443
Action Type: ENFORCEMENT

UNITED STATES POSTAL SERVICE, OAKLAND P&DC (Continued) **S100947861**

Date:	2009-07-24 00:00:00
Action:	Staff Letter - #20090724
Global Id:	T0600100443
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Reported
Global Id:	T0600100443
Action Type:	ENFORCEMENT
Date:	2011-07-22 00:00:00
Action:	Staff Letter - #20110722

LUST REG 2:

Region:	2
Facility Id:	01-0487
Facility Status:	Preliminary site assessment underway
Case Number:	3775
How Discovered:	Tank Closure
Leak Cause:	Structure Failure
Leak Source:	Tank
Date Leak Confirmed:	3/23/1992
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	1/2/1965
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

Alameda County CS:

Status:	Pollution Characterization
Record Id:	RO0003012
PE:	5502
Status:	Leak being confirmed
Record Id:	RO0003012
PE:	5502
Status:	Pollution Characterization
Record Id:	RO0000016
PE:	5602

VCP:

Facility ID:	01430001
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	2.5
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	LYNN NAKASHIMA
Supervisor:	Barbara Cook

UNITED STATES POSTAL SERVICE, OAKLAND P&DC (Continued) **S100947861**

Division Branch: Cleanup Berkeley
Site Code: 200497
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified
Status Date: 02/01/1995
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.8051842313168 / -122.300729830637
APN: NONE SPECIFIED
Past Use: UNKNOWN
Potential COC: 30013
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: CYPRESS FREEWAY/POST OFFICE PARKING STRU
Alias Type: Alternate Name
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: 110033612375
Alias Type: EPA (FRS #)
Alias Name: 200497
Alias Type: Project Code (Site Code)
Alias Name: 01430001
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/01/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 09/02/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 02/01/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Voluntary Cleanup Agreement Completion
Completed Date: 02/01/1995
Comments: Not reported

Future Area Name: Not reported

UNITED STATES POSTAL SERVICE, OAKLAND P&DC (Continued) **S100947861**

Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HAZNET:
Year: 2010
Gepaid: CAL000274555
Contact: RICHARD BLANCAS
Telephone: 5108748282
Mailing Name: Not reported
Mailing Address: 1675 7TH ST
Mailing City,St,Zip: OAKLAND, CA 946150002
Gen County: Not reported
TSD EPA ID: TXD077603371
TSD County: Not reported
Waste Category: Unspecified organic liquid mixture
Disposal Method: FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE
Tons: 0.075
Facility County: Alameda

Year: 2010
Gepaid: CAL000274555
Contact: RICHARD BLANCAS
Telephone: 5108748282
Mailing Name: Not reported
Mailing Address: 1675 7TH ST
Mailing City,St,Zip: OAKLAND, CA 946150002
Gen County: Not reported
TSD EPA ID: TXD077603371
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE
Tons: 0.05
Facility County: Alameda

Year: 2010
Gepaid: CAL000274555
Contact: RICHARD BLANCAS
Telephone: 5108748282
Mailing Name: Not reported
Mailing Address: 1675 7TH ST
Mailing City,St,Zip: OAKLAND, CA 946150002
Gen County: Not reported
TSD EPA ID: TXD077603371
TSD County: Not reported
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE
Tons: 0.05
Facility County: Alameda

Year: 2010
Gepaid: CAL000274555

UNITED STATES POSTAL SERVICE, OAKLAND P&DC (Continued) **S100947861**

Contact: RICHARD BLANCAS
Telephone: 5108748282
Mailing Name: Not reported
Mailing Address: 1675 7TH ST
Mailing City,St,Zip: OAKLAND, CA 946150002
Gen County: Not reported
TSD EPA ID: TXD077603371
TSD County: Not reported
Waste Category: Off-specification, aged or surplus organics
Disposal Method: FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE
Tons: 0.125
Facility County: Alameda

Year: 2010
Gepaid: CAL000274555
Contact: RICHARD BLANCAS
Telephone: 5108748282
Mailing Name: Not reported
Mailing Address: 1675 7TH ST
Mailing City,St,Zip: OAKLAND, CA 946150002
Gen County: Not reported
TSD EPA ID: TXD077603371
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons: 0.025
Facility County: Alameda

Click this hyperlink while viewing on your computer to access
59 additional CA_HAZNET: record(s) in the EDR Site Report.

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 2.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: LYNN NAKASHIMA
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Facility ID: 01430001
Site Code: 200497
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program
Status: Certified
Status Date: 02/01/1995
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8051842313168
Longitude: -122.300729830637
APN: NONE SPECIFIED
Past Use: UNKNOWN
Potential COC: 30013

UNITED STATES POSTAL SERVICE, OAKLAND P&DC (Continued) **S100947861**

Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: CYPRESS FREEWAY/POST OFFICE PARKING STRU
Alias Type: Alternate Name
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: 110033612375
Alias Type: EPA (FRS #)
Alias Name: 200497
Alias Type: Project Code (Site Code)
Alias Name: 01430001
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/01/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 09/02/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 02/01/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Voluntary Cleanup Agreement Completion
Completed Date: 02/01/1995
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

S63
ENE
1/4-1/2
0.345 mi.
1820 ft.

TAYLOR ROOF STRUCTURES
1769 13TH STREET
OAKLAND, CA 92626

Site 1 of 2 in cluster S

Notify 65

S100226628
N/A

Relative:
Lower

Actual:
13 ft.

Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 92626

S64
ENE
1/4-1/2
0.354 mi.
1871 ft.

TAYLOR ROOF STRUCTURES
1746 13TH
OAKLAND, CA 94607

Site 2 of 2 in cluster S

HIST CORTESE
LUST
Alameda County CS

S102438454
N/A

Relative:
Lower

Actual:
13 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1449

LUST:
Region: STATE
Global Id: T0600101338
Latitude: 37.792141
Longitude: -122.2439638
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 12/07/1995
Lead Agency: ALAMEDA COUNTY LOP
Case Worker: EC
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: 01-1449
LOC Case Number: RO0001156
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0600101338
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0600101338
Contact Type: Local Agency Caseworker
Contact Name: EVA CHU
Organization Name: ALAMEDA COUNTY LOP

TAYLOR ROOF STRUCTURES (Continued) **S102438454**

Address: 1131 HARBOR BAY PARKWAY
City: ALAMEDA
Email: Not reported
Phone Number: 5105676762

LUST:
Global Id: T0600101338
Action Type: ENFORCEMENT
Date: 1990-02-13 00:00:00
Action: * Historical Enforcement - #UNK

Global Id: T0600101338
Action Type: REMEDIATION
Date: 1950-01-01 00:00:00
Action: Excavate and Treat

Global Id: T0600101338
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: 01-1449
Facility Status: Case Closed
Case Number: 3742
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 3/9/1992
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: 4/29/1990
Preliminary Site Assesment Began: 4/9/1991
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Case Closed
Record Id: RO0001156
PE: 5602

T65
NE
1/4-1/2
0.376 mi.
1984 ft.

14TH ST APARTMENTS @ CENTRAL STATION
1801 14TH ST
OAKLAND, CA 94607

Site 1 of 3 in cluster T

NPDES **S109521309**
SLIC **N/A**

Relative:
Lower

Actual:
12 ft.

NPDES:
Npdes Number: CAS000002
Facility Status: Terminated
Agency Id: N/A
Region: 2
Regulatory Measure Id: Not Available

14TH ST APARTMENTS @ CENTRAL STATION (Continued) **S109521309**

Order No: Not reported
Regulatory Measure Type: Enrollee
Place Id: Not Available
WDID: 2 01C347629
Program Type: Construction
Adoption Date Of Regulatory Measure: N/A
Effective Date Of Regulatory Measure: 6/27/2007 3:25:00 PM
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: 11/16/2009
Discharge Name: 14th St Associates
Discharge Address: 345 Spear St Ste 700
Discharge City: San Francisco
Discharge State: Ca
Discharge Zip: 94105

SLIC:
Region: STATE
Facility Status: **Open - Remediation**
Status Date: 05/11/2009
Global Id: SL0600197637
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.813291
Longitude: -122.297837
Case Type: Cleanup Program Site
Case Worker: MEJ
Local Agency: Not reported
RB Case Number: 01S0556
File Location: Regional Board
Potential Media Affected: Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern: * PAHs/PNAs, Lead, Arsenic
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

T66 **CENTRAL STATION LAND, LLC** **SLIC** **S106235290**
NE **1399-1707 WOOD STREET** **N/A**
1/4-1/2 **OAKLAND, CA**
0.384 mi.
2027 ft. **Site 2 of 3 in cluster T**

Relative:
Lower

Actual:
12 ft.

SLIC:
Region: 2
Facility ID: SLT2O195298
Facility Status: Leak being confirmed
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

T67 **SOUTHERN PACIFIC TRANS CO** **HIST CORTESE** **1000597178**
NE **1399 WOOD** **LUST** **N/A**
1/4-1/2 **OAKLAND, CA 94607** **Alameda County CS**
0.384 mi.
2027 ft. **Site 3 of 3 in cluster T**

Relative:
Lower

Actual:
12 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1408

LUST:

Region:	STATE
Global Id:	T0600101301
Latitude:	37.813433
Longitude:	-122.296859
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	04/13/2009
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker:	CCM
Local Agency:	Not reported
RB Case Number:	01S0556
LOC Case Number:	RO0000476
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0600101301
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0600101301
Action Type:	ENFORCEMENT
Date:	2009-04-13 00:00:00
Action:	Closure/No Further Action Letter
Global Id:	T0600101301
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Discovery
Global Id:	T0600101301
Action Type:	REMEDIATION
Date:	1950-01-01 00:00:00
Action:	Excavate and Dispose
Global Id:	T0600101301

SOUTHERN PACIFIC TRANS CO (Continued) **1000597178**

Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

Global Id: T0600101301
Action Type: ENFORCEMENT
Date: 2008-07-03 00:00:00
Action: Technical Correspondence / Assistance / Other - #20080703

LUST REG 2:
Region: 2
Facility Id: 01-1408
Facility Status: Pollution Characterization
Case Number: 3824
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 3/27/1992
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: 3/18/1998
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Leak being confirmed
Record Id: RO0000476
PE: 5602

Status: Case Transferred
Record Id: RO0000476
PE: 5602

Status: Preliminary site assessment workplan submitted
Record Id: RO0000476
PE: 5602

Status: Preliminary site assessment underway
Record Id: RO0000476
PE: 5602

Status: Post remedial action monitoring
Record Id: RO0000476
PE: 5602

U68 **CENTRAL STATION VILLAGE** **SLIC** **S109117943**
NE **1401-1599 WOOD STREET** **N/A**
1/4-1/2 **OAKLAND, CA**
0.387 mi.
2042 ft. **Site 1 of 3 in cluster U**

Relative:
Lower

Actual:
12 ft.

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 12/28/2009
Global Id: SL0600180308
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.814622
Longitude: -122.29676
Case Type: Cleanup Program Site
Case Worker: MEJ
Local Agency: Not reported
RB Case Number: 01S0556
File Location: Regional Board
Potential Media Affected: Soil
Potential Contaminants of Concern: Lead, Other Petroleum, * Pesticide/Herbicides, * SEMIVOLATILE ORGANICS
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

U69 **WEST RECYCLER BIN STORAGE** **ENVIROSTOR** **S102860820**
NE **1405 WOOD STREET** **N/A**
1/4-1/2 **OAKLAND, CA 94607**
0.388 mi.
2051 ft. **Site 2 of 3 in cluster U**

Relative:
Lower

Actual:
12 ft.

ENVIROSTOR:
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 1
NPL: NO
Regulatory Agencies: RWQCB 2 - San Francisco Bay, CITY OF OAKLAND
Lead Agency: RWQCB 2 - San Francisco Bay
Program Manager: KATHARINE HILF
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 01890018
Site Code: 201096
Assembly: 16
Senate: 09
Special Program: EPA - PASI
Status: Refer: RWQCB
Status Date: 02/28/2001
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8155330998534
Longitude: -122.296984490078
APN: 0-310-13
Past Use: EQUIPMENT/INSTRUMENT REPAIR, VEHICLE MAINTENANCE
Potential COC: 30001, 30013, 30108, 30402
Confirmed COC: 30108,30402,30001,30013
Potential Description: SOIL
Alias Name: 0-310-13

WEST RECYCLER BIN STORAGE (Continued) **S102860820**

Alias Type:	APN
Alias Name:	SL0600180308
Alias Type:	GeoTracker Global ID
Alias Name:	201096
Alias Type:	Project Code (Site Code)
Alias Name:	01890018
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	08/31/1998
Comments:	PEA - PASI - A Field Sampling Plan was prepared to conduct limited sampling at the site on June 24, 1998 as part of the Site Reconnaissance Visit. The site had contaminants above US EPA Region 9’s Residential Preliminary Remedial Goals (PRG). Substances found were arsenic (5.78 mg/kg), cadmium (12.4 mg/kg), lead (589 mg/kg) and molybdenum (1130 mg/kg) comparing to the PRG’s limits of arsenic (0.38 mg/kg), cadmium (9 mg/kg), lead (400 mg/kg) and molybdenum (370 mg/kg) respectively.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

U70
NE
1/4-1/2
0.388 mi.
2051 ft.

WEST RECYCLER BIN STORAGE
1405 WOOD STREET
OAKLAND, CA

CERC-NFRAP **1003880077**
CA0002059525

Site 3 of 3 in cluster U

Relative:
Lower

Actual:
12 ft.

CERC-NFRAP:

Site ID:	0905378
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID:	13051249.00000
Person ID:	9271184.00000
Contact Sequence ID:	13057326.00000
Person ID:	9270048.00000
Contact Sequence ID:	13088037.00000
Person ID:	13002167.00000
Contact Sequence ID:	13177196.00000
Person ID:	9270438.00000

WEST RECYCLER BIN STORAGE (Continued) **1003880077**

CERCLIS-NFRAP Site Alias Name(s):

Alias Name:	GMV EQUIPMENT REPAIR
Alias Address:	Not reported Not reported

CERCLIS-NFRAP Assessment History:

Action:	DISCOVERY
Date Started:	Not reported
Date Completed:	09/25/1997
Priority Level:	Not reported
Action:	ARCHIVE SITE
Date Started:	Not reported
Date Completed:	03/05/1999
Priority Level:	Not reported
Action:	PRELIMINARY ASSESSMENT
Date Started:	10/20/1997
Date Completed:	03/05/1999
Priority Level:	NFRAP-Site does not qualify for the NPL based on existing information

---

V71 **LOT AT 530-542 LEWIS STREET** **CERC-NFRAP** **1001212408**
SE **530-542 LEWIS STREET** **CA0002059467**
1/4-1/2 **OAKLAND, CA 94607**
0.405 mi.
2139 ft. **Site 1 of 2 in cluster V**

Relative:
Lower

Actual:
13 ft.

CERC-NFRAP:

Site ID:	0905369
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID:	13050642.00000
Person ID:	9271184.00000
Contact Sequence ID:	13056720.00000
Person ID:	9270048.00000
Contact Sequence ID:	13087422.00000
Person ID:	13002167.00000
Contact Sequence ID:	13175546.00000
Person ID:	9270438.00000

CERCLIS-NFRAP Assessment History:

Action:	DISCOVERY
Date Started:	Not reported
Date Completed:	09/25/1997
Priority Level:	Not reported
Action:	PRELIMINARY ASSESSMENT
Date Started:	04/17/2002
Date Completed:	02/04/2003
Priority Level:	NFRAP-Site does not qualify for the NPL based on existing information

LOT AT 530-542 LEWIS STREET (Continued) **1001212408**

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 09/15/2003
Priority Level: Not reported

W72
ENE
1/4-1/2
0.406 mi.
2141 ft.

WILLOW PARK
1368 WILLOW STREET
OAKLAND, CA 94608

VCP
HAZNET
ENVIROSTOR

S108202218
N/A

Site 1 of 2 in cluster W

Relative:
Lower

Actual:
13 ft.

VCP:
Facility ID: 01990028
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP, US EPA, CITY OF OAKLAND
Lead Agency: CITY OF OAKLAND
Lead Agency Description: Not reported
Project Manager: LYNN NAKASHIMA
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Site Code: 201578
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: No Further Action
Status Date: 06/08/2005
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.8123709077434 / -122.296533992096
APN: 006-001100100, 6-11-1
Past Use: JUNKYARD
Potential COC: 30001, 30013
Confirmed COC: 30001,30013
Potential Description: SOIL
Alias Name: 006-001100100
Alias Type: APN
Alias Name: 6-11-1
Alias Type: APN
Alias Name: 110030961957
Alias Type: EPA (FRS #)
Alias Name: 201578
Alias Type: Project Code (Site Code)
Alias Name: 01990028
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 12/30/2004
Comments: DTSC signed VCA to review remediation completion report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

WILLOW PARK (Continued) **S108202218**

Completed Document Type: Voluntary Cleanup Consultation
Completed Date: 06/08/2005
Comments: DTSC completed its review of the remediation completion report. The property was cleaned up to unrestricted standards using the US EPA Brownfield revolving loan fund.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Voluntary Cleanup Agreement Completion
Completed Date: 06/08/2005
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HAZNET:
Year: 2006
Gepaid: CAC002609809
Contact: NANCY HUMPHREY/ENVIRON PROGRAM SPEC
Telephone: 5102386259
Mailing Name: Not reported
Mailing Address: 250 FRANK H OGAWA PLZ STE 5301
Mailing City,St,Zip: OAKLAND, CA 94612
Gen County: Alameda
TSD EPA ID: CAD980675276
TSD County: Kern
Waste Category: Contaminated soil from site clean-up
Disposal Method: H13
Tons: Not reported
Facility County: 1

Year: 2005
Gepaid: CAC002584655
Contact: DAVID FINACOM/MARK GOMEZ/ENVIR PRO
Telephone: 5102387314
Mailing Name: Not reported
Mailing Address: 250 FRANK H OGAWA PLZ STE 5301
Mailing City,St,Zip: OAKLAND, CA 94612
Gen County: Alameda
TSD EPA ID: CAD980675276
TSD County: Kern
Waste Category: Contaminated soil from site clean-up
Disposal Method: Not reported
Tons: 318.57
Facility County: Not reported

Year: 2004
Gepaid: CAC002584655
Contact: DAVID FINACOM/MARK GOMEZ/ENVIR PRO
Telephone: 5102387314

WILLOW PARK (Continued) **S108202218**

Mailing Name: Not reported
Mailing Address: 250 FRANK H OGAWA PLZ STE 5301
Mailing City,St,Zip: OAKLAND, CA 94612
Gen County: Alameda
TSD EPA ID: CAD980675276
TSD County: Kern
Waste Category: Contaminated soil from site clean-up
Disposal Method: Not reported
Tons: 318.57
Facility County: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 1
NPL: NO
Regulatory Agencies: SMBRP, US EPA, CITY OF OAKLAND
Lead Agency: CITY OF OAKLAND
Program Manager: LYNN NAKASHIMA
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Facility ID: 01990028
Site Code: 201578
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program
Status: No Further Action
Status Date: 06/08/2005
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8123709077434
Longitude: -122.296533992096
APN: 006-001100100, 6-11-1
Past Use: JUNKYARD
Potential COC: 30001, 30013
Confirmed COC: 30001,30013
Potential Description: SOIL
Alias Name: 006-001100100
Alias Type: APN
Alias Name: 6-11-1
Alias Type: APN
Alias Name: 110030961957
Alias Type: EPA (FRS #)
Alias Name: 201578
Alias Type: Project Code (Site Code)
Alias Name: 01990028
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 12/30/2004
Comments: DTSC signed VCA to review remediation completion report.

Completed Area Name: PROJECT WIDE

WILLOW PARK (Continued) **S108202218**

Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Consultation
Completed Date:	06/08/2005
Comments:	DTSC completed its review of the remediation completion report. The property was cleaned up to unrestricted standards using the US EPA Brownfield revolving loan fund.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Voluntary Cleanup Agreement Completion
Completed Date:	06/08/2005
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

W73
ENE
1/4-1/2
0.406 mi.
2141 ft.

WILLOW PARK
1368 WILLOW STREET
WEST OAKLAND, CA 94607

US BROWNFIELDS **1012171685**
N/A

Site 2 of 2 in cluster W

Relative:
Lower

Actual:
13 ft.

US BROWNFIELDS:

Recipient name:	Oakland, City of
Grant type:	BCRLF
Property name:	Willow Park
Property #:	Not reported
Parcel size:	.94
Latitude:	37.812345
Longitude:	-122.296573
HCM label:	Not reported
Map scale:	Not reported
Point of reference:	Not reported
Datum:	Not reported
ACRES property ID:	16501
Start date:	08-JUN-05
Completed date:	08-JUN-05
Acres cleaned up:	.94
Cleanup funding:	568000
Cleanup funding source:	State/Tribal Funding (non-section 128(a))
Assessment funding:	Not reported
Assessment funding source:	Not reported
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	Not reported
Cleanup funding entity:	California Parks and Recreation Murray Hayden (Prop 12) grant
Grant type:	N/A
Accomplishment type:	Not reported
Ownership entity:	Not reported

WILLOW PARK (Continued) **1012171685**

Current owner: Not reported
Did owner change: Not reported
Cleanup required: Yes
Video available: Not reported
Photo available: Not reported
Institutional controls required: N
IC Category proprietary controls: Not reported
IC cat. info. devices: Not reported
IC cat. gov. controls: Not reported
IC cat. enforcement permit tools: Not reported
IC in place date: Not reported
IC in place: Unknown
State/tribal program date: Not reported
State/tribal program ID: Not reported
State/tribal NFA date: Not reported
Air contaminated: Not reported
Air cleaned: Not reported
Asbestos found: Not reported
Asbestos cleaned: Not reported
Controled substance found: Not reported
Controled substance cleaned: Not reported
Drinking water affected: Not reported
Drinking water cleaned: Not reported
Groundwater affected: Not reported
Groundwater cleaned: Not reported
Lead contaminant found: Not reported
Lead cleaned up: Not reported
No media affected: Not reported
Unknown media affected: Not reported
Other cleaned up: Not reported
Other metals found: Not reported
Other metals cleaned: Not reported
Other contaminants found: Not reported
Other contams found description: Not reported
PAHs found: Not reported
PAHs cleaned up: Not reported
PCBs found: Not reported
PCBs cleaned up: Not reported
Petro products found: Not reported
Petro products cleaned: Not reported
Sediments found: Not reported
Sediments cleaned: Not reported
Soil affected: Not reported
Soil cleaned up: Not reported
Surface water cleaned: Not reported
Unknown found: Not reported
VOCs found: Not reported
VOCs cleaned: Not reported
Cleanup other description: Not reported
Num. of cleanup and re-dev. jobs: Not reported
Past use greenspace acreage: Not reported
Past use residential acreage: Not reported
Past use commercial acreage: Not reported
Past use industrial acreage: Not reported
Future use greenspace acreage: Not reported
Future use residential acreage: Not reported
Future use commercial acreage: Not reported

WILLOW PARK (Continued) **1012171685**

Future use industrial acreage: Not reported
Greenspace acreage and type: Not reported
Superfund Fed. landowner flag: Not reported

Recipient name: Oakland, City of
Grant type: BCRLF
Property name: Willow Park
Property #: Not reported
Parcel size: .94
Latitude: 37.812345
Longitude: -122.296573
HCM label: Not reported
Map scale: Not reported
Point of reference: Not reported
Datum: Not reported
ACRES property ID: 16501
Start date: 08-JUN-05
Completed date: 08-JUN-05
Acres cleaned up: .94
Cleanup funding: 482800
Cleanup funding source: Other Federal Funding
Assessment funding: Not reported
Assessment funding source: Not reported
Redevelopment funding: Not reported
Redev. funding source: Not reported
Redev. funding entity name: Not reported
Redevelopment start date: Not reported
Assessment funding entity: Not reported
Cleanup funding entity: National Park Service Urban Parks and Recreation Program
Grant type: N/A
Accomplishment type: Not reported
Ownership entity: Not reported
Current owner: Not reported
Did owner change: Not reported
Cleanup required: Yes
Video available: Not reported
Photo available: Not reported
Institutional controls required: N
IC Category proprietary controls: Not reported
IC cat. info. devices: Not reported
IC cat. gov. controls: Not reported
IC cat. enforcement permit tools: Not reported
IC in place date: Not reported
IC in place: Unknown
State/tribal program date: Not reported
State/tribal program ID: Not reported
State/tribal NFA date: Not reported
Air contaminated: Not reported
Air cleaned: Not reported
Asbestos found: Not reported
Asbestos cleaned: Not reported
Controled substance found: Not reported
Controled substance cleaned: Not reported
Drinking water affected: Not reported
Drinking water cleaned: Not reported
Groundwater affected: Not reported
Groundwater cleaned: Not reported

WILLOW PARK (Continued) **1012171685**

Lead contaminant found: Not reported
Lead cleaned up: Not reported
No media affected: Not reported
Unknown media affected: Not reported
Other cleaned up: Not reported
Other metals found: Not reported
Other metals cleaned: Not reported
Other contaminants found: Not reported
Other contams found description: Not reported
PAHs found: Not reported
PAHs cleaned up: Not reported
PCBs found: Not reported
PCBs cleaned up: Not reported
Petro products found: Not reported
Petro products cleaned: Not reported
Sediments found: Not reported
Sediments cleaned: Not reported
Soil affected: Not reported
Soil cleaned up: Not reported
Surface water cleaned: Not reported
Unknown found: Not reported
VOCs found: Not reported
VOCs cleaned: Not reported
Cleanup other description: Not reported
Num. of cleanup and re-dev. jobs: Not reported
Past use greenspace acreage: Not reported
Past use residential acreage: Not reported
Past use commercial acreage: Not reported
Past use industrial acreage: Not reported
Future use greenspace acreage: Not reported
Future use residential acreage: Not reported
Future use commercial acreage: Not reported
Future use industrial acreage: Not reported
Greenspace acreage and type: Not reported
Superfund Fed. landowner flag: Not reported

V74 **528 LEWIS STREET** **HIST Cal-Sites** **S105749935**
SE **528 LEWIS STREET** **RESPONSE** **N/A**
1/4-1/2 **OAKLAND, CA 94607** **ENVIROSTOR**
0.406 mi.
2142 ft. **Site 2 of 2 in cluster V**

Relative:
Lower

Actual:
13 ft.

HISTORICAL CAL-SITES:
Facility ID: 01880002
Region: 2
Region Name: BERKELEY
Branch: NC
Branch Name: NORTH COAST
File Name: Not reported
State Senate District: 06182004
Status: CERT - CERTIFIED AS HAVING BEEN REMEDIED SATISFACTORILY UNDER DTSC OVERSIGHT
Status Name: CERTIFIED
Lead Agency: DTSC
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type: STATE
Type Name: STATE FUNDED SITE
NPL: Not Listed

528 LEWIS STREET (Continued) **S105749935**

SIC Code: 88
SIC Name: PRIVATE HOUSEHOLDS
Access: Not reported
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Unknown
Staff Member Responsible for Site: KHILF
Supervisor Responsible for Site: Not reported
Region Water Control Board: SF
Region Water Control Board Name: SAN FRANCISCO BAY
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 16
State Senate District Code: 09
Facility ID: 01880002
Activity: PEA
Activity Name: PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code: PA/SI
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 06282002
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01880002
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: ISE
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 10282002
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported

528 LEWIS STREET (Continued) **S105749935**

Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01880002
Activity: RAW
Activity Name: REMOVAL ACTION WORKPLAN
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 10242003
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01880002
Activity: RA
Activity Name: REMOVAL ACTION
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 06182004
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 805
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: N
Activity Comments: 700 CUBIC YARDS OF CONTAMINATED SOIL AND 105 CUBIC YARDS OFSURFACE DEBRIS (RECYCLABLE METALS, GAS CYLINDERS, AND GARBAGE)
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0

528 LEWIS STREET (Continued) **S105749935**

Facility ID: 01880002
Activity: CERT
Activity Name: CERTIFICATION
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 06182004
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01880002
Activity: FDNC
Activity Name: FINAL DETERMINATION OF NON-COMPLIANCE
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 12102002
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01880002
Activity: CEQA
Activity Name: CEQA INCLUDING NEGATIVE DECS
AWP Code: NOE
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 10242003
Est Person-Yrs to complete: 0

528 LEWIS STREET (Continued) **S105749935**

Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	530/542 LEWIS STREET
Alternate City,St,Zip:	OAKLAND, CA 94607
Alternate Address:	528 LEWIS STREET
Alternate City,St,Zip:	OAKLAND, CA 94607
Background Info:	The Lewis Street Site is a former residential property which has been used to store automobiles, drums, pressurized gas containers, and other miscellaneous equipment. The property is fenced. No volatile or semivolatile organic compounds were detected at significant levels.
Comments Date:	06091997
Comments:	SITE SCREENING PREPARED UNDER THE EPA GRANT INDICATES THAT
Comments Date:	06091997
Comments:	FURTHER ASSESSMENT OF THIS SITE IS NEEDED.
Comments Date:	06182004
Comments:	The Removal Action consisted of removal of approximately 105
Comments Date:	06182004
Comments:	cubic yards of above-ground debris including tires, compressed
Comments Date:	06182004
Comments:	gas cylinders and heavy equipment and excavation and offsite
Comments Date:	06182004
Comments:	disposal of 700 cubic yards of soil and debris contaminated with
Comments Date:	06182004
Comments:	lead to a Class I landfill. The property was then backfilled
Comments Date:	06182004
Comments:	with clean material. All contamination above residential
Comments Date:	06182004
Comments:	standards was removed and the site was certified in June 2004.
Comments Date:	06282002
Comments:	DTSC conducted a Preliminary Assessment which found further
Comments Date:	06282002
Comments:	action was required. Surface samples collected at the site found
Comments Date:	06282002
Comments:	lead as high as 1,080 parts per million (ppm).
Comments Date:	10242003
Comments:	DTSC approved a Removal Action Workplan (RAW) requiring the
Comments Date:	10242003
Comments:	removal of all soils above residential levels. A notice of
Comments Date:	10242003
Comments:	exemption was approved for removal activities.
Comments Date:	10282002
Comments:	An Imminent and Substantial Endangerment Order was issued to the
Comments Date:	10282002

528 LEWIS STREET (Continued) **S105749935**

Comments: property owner.
Comments Date: 11092001
Comments: DTSC conducted sampling at the site. Lead concentrations in
Comments Date: 11092001
Comments: surface soil were as high as 1,080 milligrams per kilogram (ppm).
Comments Date: 11092001
Comments: No volatile or semi-volatile compounds were found.
Comments Date: 12102002
Comments: The owner was found in non-compliance with the Order in December
Comments Date: 12102002
Comments: 2002.
Comments Date: 12142003
Comments: The Superior Court of California, County of Alameda issued an
Comments Date: 12142003
Comments: inspection warrant which granted DTSC access to sample and
Comments Date: 12142003
Comments: remediate the Lewis property. A warrant was needed since DTSC
Comments Date: 12142003
Comments: could not locate the property owner. Subsequently, DTSC was
Comments Date: 12142003
Comments: able to contact the property owner and work with them throughout
Comments Date: 12142003
Comments: the cleanup.
ID Name: CALSTARS CODE
ID Value: 201023
Alternate Name: 530/542 LEWIS STREET528 LEWIS STREET
Special Programs Code: Not reported
Special Programs Name: Not reported

RESPONSE:
Facility ID: 01880002
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: 0.19
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: KATHARINE HILF
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 201023
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 16
Senate: 09
Special Program Status: EPA - PASI
Status: Certified
Status Date: 06/18/2004
Restricted Use: NO
Funding: Orphan Funds
Latitude: 37.8052706421204
Longitude: -122.29801835261
APN: 4-99-29
Past Use: JUNKYARD
Potential COC: 30013
Confirmed COC: 30013
Potential Description: SOIL

528 LEWIS STREET (Continued) **S105749935**

Alias Name:	530/542 LEWIS STREET
Alias Type:	Alternate Name
Alias Name:	4-99-29
Alias Type:	APN
Alias Name:	110033612918
Alias Type:	EPA (FRS #)
Alias Name:	201023
Alias Type:	Project Code (Site Code)
Alias Name:	01880002
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	06/18/2004
Comments:	All contamination above residential standards was removed and the site was certified in June 2004.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	10/24/2003
Comments:	DTSC approved a Removal Action Workplan (RAW) requiring the removal of all soils above residential levels. A notice of exemption was approved for removal activities.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment/Site Inspection Report (PA/SI)
Completed Date:	06/28/2002
Comments:	DTSC conducted a Preliminary Assessment which found further action was required. Surface samples collected at the site found lead as high as 1,080 parts per million (ppm).

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	07/02/2003
Comments:	Fact Sheet for Draft RAW

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	10/24/2003
Comments:	NOE approved for Final Removal Action Workplan

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Final Determination of Non-Compliance
Completed Date:	12/10/2002
Comments:	The owner was found in non-compliance with the Order in December 2002. Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/18/2004

528 LEWIS STREET (Continued) **S105749935**

Comments:	The site was cleaned up to below residential levels for lead.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	10/28/2002
Comments:	An Imminent and Substantial Endangerment Order was issued to the property owner.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	State Response
Site Type Detailed:	State Response or NPL
Acres:	0.19
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	KATHARINE HILF
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	01880002
Site Code:	201023
Assembly:	16
Senate:	09
Special Program:	EPA - PASI
Status:	Certified
Status Date:	06/18/2004
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Orphan Funds
Latitude:	37.8052706421204
Longitude:	-122.29801835261
APN:	4-99-29
Past Use:	JUNKYARD
Potential COC:	30013
Confirmed COC:	30013
Potential Description:	SOIL
Alias Name:	530/542 LEWIS STREET
Alias Type:	Alternate Name
Alias Name:	4-99-29
Alias Type:	APN
Alias Name:	110033612918
Alias Type:	EPA (FRS #)
Alias Name:	201023
Alias Type:	Project Code (Site Code)
Alias Name:	01880002
Alias Type:	Envirostor ID Number

528 LEWIS STREET (Continued) **S105749935**

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	06/18/2004
Comments:	All contamination above residential standards was removed and the site was certified in June 2004.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	10/24/2003
Comments:	DTSC approved a Removal Action Workplan (RAW) requiring the removal of all soils above residential levels. A notice of exemption was approved for removal activities.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment/Site Inspection Report (PA/SI)
Completed Date:	06/28/2002
Comments:	DTSC conducted a Preliminary Assessment which found further action was required. Surface samples collected at the site found lead as high as 1,080 parts per million (ppm).
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	07/02/2003
Comments:	Fact Sheet for Draft RAW
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	10/24/2003
Comments:	NOE approved for Final Removal Action Workplan
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Final Determination of Non-Compliance
Completed Date:	12/10/2002
Comments:	The owner was found in non-compliance with the Order in December 2002. Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/18/2004
Comments:	The site was cleaned up to below residential levels for lead.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	10/28/2002
Comments:	An Imminent and Substantial Endangerment Order was issued to the property owner.
Future Area Name:	Not reported

528 LEWIS STREET (Continued) **S105749935**

Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

X75
NW
1/4-1/2
0.406 mi.
2146 ft.

OAKLAND ARMY BASE
2475-D WEST 12TH STREET
OAKLAND, CA 94607

Site 1 of 2 in cluster X

HIST Cal-Sites
Cortese
DEED
RESPONSE
ENVIROSTOR

S105481917
N/A

Relative:
Lower

Actual:
9 ft.

HISTORICAL CAL-SITES:

Facility ID:	01970006
Region:	2
Region Name:	BERKELEY
Branch:	NO
Branch Name:	OMF-NORTHERN CALIF
File Name:	OAKLAND ARMY BASE
State Senate District:	01151988
Status:	AWP - ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency:	DTSC
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type:	CLOSE
Type Name:	CLOSED MILITARY BASE
NPL:	Not Listed
SIC Code:	97
SIC Name:	NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Access:	Controlled
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Not reported
Staff Member Responsible for Site:	HWONG
Supervisor Responsible for Site:	Not reported
Region Water Control Board:	SF
Region Water Control Board Name:	SAN FRANCISCO BAY
Lat/Long Direction:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Lat/Long Description:	MEASURED FROM HQ BUILDING ON BASE
State Assembly District Code:	16
State Senate District Code:	09
Facility ID:	01970006
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	OU4
Proposed Budget:	0
AWP Completion Date:	02282006
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported

OAKLAND ARMY BASE (Continued) **S105481917**

Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: RIFS
Activity Name: REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code: OBRA
Proposed Budget: 0
AWP Completion Date: 09262002
Revised Due Date: Not reported
Comments Date: 09262002
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: RAP
Activity Name: REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code: OBRA
Proposed Budget: 0
AWP Completion Date: 09262002
Revised Due Date: Not reported
Comments Date: 09262002
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported

OAKLAND ARMY BASE (Continued) **S105481917**

For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: RAW
Activity Name: REMOVAL ACTION WORKPLAN
AWP Code: OU2
Proposed Budget: 0
AWP Completion Date: 08152001
Revised Due Date: Not reported
Comments Date: 08152001
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: RIFS
Activity Name: REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code: OU4
Proposed Budget: 0
AWP Completion Date: 01302005
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: RMDL
Activity Name: REMEDIAL ACTION (RAP REQUIRED)
AWP Code: OU4
Proposed Budget: 0

OAKLAND ARMY BASE (Continued) **S105481917**

AWP Completion Date: 12302007
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: DES
Activity Name: DESIGN
AWP Code: OU4
Proposed Budget: 0
AWP Completion Date: 06302006
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: PEA
Activity Name: PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code: 807
Proposed Budget: 0
AWP Completion Date: 06251997
Revised Due Date: Not reported
Comments Date: 06251997
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0

OAKLAND ARMY BASE (Continued) **S105481917**

Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: PEA
Activity Name: PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code: 648
Proposed Budget: 0
AWP Completion Date: 12311997
Revised Due Date: Not reported
Comments Date: 12311997
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: CERFA
Activity Name: COMMUNITY ENVIRONMENTAL RESPONSE FACILITATION ACT
AWP Code: BASWD
Proposed Budget: 0
AWP Completion Date: 12201996
Revised Due Date: Not reported
Comments Date: 12201996
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0

OAKLAND ARMY BASE (Continued) **S105481917**

Unknown Type:	0
Facility ID:	01970006
Activity:	BWEBS
Activity Name:	BASEWIDE ENVIRONMENTAL BASELINE SURVEY
AWP Code:	OAB-F
Proposed Budget:	0
AWP Completion Date:	09301996
Revised Due Date:	Not reported
Comments Date:	09301996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01970006
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	BASWD
Proposed Budget:	0
AWP Completion Date:	06051998
Revised Due Date:	Not reported
Comments Date:	06051998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01970006
Activity:	SS
Activity Name:	SITE SCREENING
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	01151988
Revised Due Date:	Not reported
Comments Date:	01151988

OAKLAND ARMY BASE (Continued) **S105481917**

Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01970006
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	OBRA
Proposed Budget:	0
AWP Completion Date:	06302014
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01970006
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	MOA
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	04152003
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported

OAKLAND ARMY BASE (Continued) **S105481917**

Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: CEQA
Activity Name: CEQA INCLUDING NEGATIVE DECS
AWP Code: OBRA
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 08012002
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: CERT
Activity Name: CERTIFICATION
AWP Code: OU4
Proposed Budget: 0
AWP Completion Date: 12312007
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: CEQA

OAKLAND ARMY BASE (Continued) **S105481917**

Activity Name: CEQA INCLUDING NEGATIVE DECS
AWP Code: OU2
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 08152001
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970006
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: OBRA
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 09262002
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Alternate Address: 2475-D WEST 12TH STREET
Alternate City,St,Zip: OAKLAND, CA 94607
Alternate Address: 2475-D WEST 12TH STREET
Alternate City,St,Zip: OAKLAND, CA 94626
Alternate Address: 422 ACRES; EASTERN SHORE OF SF BAY
Alternate City,St,Zip: OAKLAND, CA 94626
Alternate Address: OAKLAND ARMY BASE TRANSITION OFFICE
Alternate City,St,Zip: Not reported
Background Info: Oakland Army Base (OARB) is situated near the eastern terminus of the San Francisco-Oakland Bay Bridge. OARB occupies approx- ima tely 422 acres and is bounded by the Southern Pacific Trans- port

OAKLAND ARMY BASE (Continued) **S105481917**

ation Company railroad tracks on the east, the Port of Oakland Au
thority (formerly the Fleet and Industrial Supply Center Oakland)
on the south, the Bay Bridge on the north, and the Oaklnd Outer
Harbor on the west. From December 8, 1941 to September 30, 1999,
OARB carried out it’s mission in support activites for the sea,
rail and land transportation of military personnel and material f
or the U.S. Army. These activities included operation and mainte
nance of facilities and equipment, industrial processes, preparat
ion of vehicles for overseas ship- ment, storage of fuels, manage
ment of wastes, cleaning operations, support of seagoing vessels,
railroad rolling stock and trackage, trucking, wharf, and wareho
using operations. In December 1995, OARB was placed on the BRAC
IV list and design- ated for closure. OARB is scheduled to be t
ransferred to the City of Oakland in 2001. The Oakland Base Reus
e Authority (OBRA) which is the Local Reuse Authority (LRA) for t
he base developed a reuse plan in July 1998. Environmental inve
stigation and cleanup of OARB is being perform- ed in accordance
with the BRAC Cleanup Plan (July 1996) which was revised and upda
ted in January 1999. The California Department of Toxic Substanc
es Control (DTSC) is the lead agency for the environmental restor
ation as described in the Defense State Memorandum of Understandi
ng (DSMOA). OARB is not on the U. S. Environmental Protection Ag
ency’s National Priorities List (NPL). The 26 BRAC parcels were
grouped into 7 Operable Units (OU), initially identified accordi
ng to types of operation and geo- graphic location. OU1 included
Parcels 4 through 7 and 9 through 15, OU2 consisted entirely of P
arcel 8, OU3 included Parcels 16 through 26, OU4 included parcels
1 through 3 (shoreline, wharves, and submerged land), OU5 was re
served for no further action parcels, OU6 was for parcels that ha
d unexpected conditions, and OU7 was a small contaminated area at
the east end of Building 807 in Parcel 12. The Regional Water
Quality Control Board (RWQCB) is the lead regulatory agency for c
losure of underground fuel storage tanks (USTs) at OARB. USTs th
at contained used oils/fuels and oil/ water separators are not pa
rt of the UST program and are address- ed under the operable unit
cleanup program as described above. Based on Risk Based Correcti
ve Action (RBCA) evaluation, 4 of the 14 UST fuel sites have been
included in a program for further investigation and/or remediati
on. *** OPERABLE UNIT/SITE DESCRIPTION *** OU1 Operable Unit
1 covers 167 acres area with warehouses, a rail yard, open stora
ge area, parking lots, padre grounds administrative areas, wash p
latforms, maintenance shops, a printing plant and a plating shop.
OU1 consists of 11 parcels. OU2 Operable Unit 2 includes railr
oad engine maintenance, fueling and repair facilities. This is a
6.3 acres area at the northeastern border of the OARB. OU3 Oper
able Unit 3 is a 49.4 acres area at the southwestern end of OARB.
The area consists primarily of housing, housing support office
space, vehicle service areas and motor pool maintenance areas. O
U3 consists of 11 parcels. OU4 Operable Unit 4 consists of 127 a
cres with three parcels located at the northwestern end of OARB.
OU4 facilities include waterfronts, piers and cargo storage area
s. OU5 Operable Unit 5 is for three no further action parcels to
taling 35 acres. The area consists of support services, guest- h
ouse, child center, playground, theater, warehouses and Maritime
Street. OU6 Operable Unit 6 is reserved for funding any work rel
ated to basewide issues. The Army has not been using this operab
le unit for remedial and investigation activities. OU7 Operable

OAKLAND ARMY BASE (Continued) **S105481917**

Unit 7 is a 300-foot by 600-foot area located****
Comments Date: 01151988
Comments: SITE SCREENING DONE
Comments Date: 04152003
Comments: ORDER - MOA -- The Memorandum of Agreement (MOA) is between the A
Comments Date: 04152003
Comments: rmy, the Department of Toxic Substances Control, and the San Fran
Comments Date: 04152003
Comments: cisco Bay Regional Water Quality Control Board. The MOA specifie
Comments Date: 04152003
Comments: s the Army’s responsibility to fund the cleanup activities, to in
Comments Date: 04152003
Comments: vestigate and remediate any Army-Retained Condition, and to conti
Comments Date: 04152003
Comments: nue the cleanup activities in the event Oakland defaults on its r
Comments Date: 04152003
Comments: esponsibilities under the Consent Agreement.
Comments Date: 06051998
Comments: PEA - BASWD -- Completion of the Basewide Preliminary Assessment
Comments Date: 06051998
Comments: /Site Inspection (PA/SI), also called Preliminary Endangerment As
Comments Date: 06051998
Comments: sessment (PEA) activity for Oakland Army Base. Twenty six (26) pa
Comments Date: 06051998
Comments: rcels were evaluated in the final PA/SI reports. Twenty (20) parc
Comments Date: 06051998
Comments: els are recommended for further action while six (6) parcels are
Comments Date: 06051998
Comments: recommended for no further action.
Comments Date: 06251997
Comments: PEA 807 -- Completed the Preliminary Assessment/Site Inspection f
Comments Date: 06251997
Comments: or Building 807.
Comments Date: 08012002
Comments: CEQA - BASWD -- The City of Oakland prepared the final Environmen
Comments Date: 08012002
Comments: tal Impact Report (EIR) for the Oakland Army Base (OARB) Area Red
Comments Date: 08012002
Comments: evelopment Plan. The EIR includes environmental impact analysis
Comments Date: 08012002
Comments: for remedial alternatives proposed in the OARB’s Remedial Action
Comments Date: 08012002
Comments: Plan. DTSC was a responsible agency for the EIR decision.
Comments Date: 08152001
Comments: RAW - OU2 - Removal Action workplan for the removal of pesticide
Comments Date: 08152001
Comments: contaminated soil at a wetland soil in OU2. CEQA - OU2 - Negati
Comments Date: 08152001
Comments: ve Declaration for Removal Action workplan to remove pesticide co
Comments Date: 08152001
Comments: ntaminated soil at a wetland soil in OU2.
Comments Date: 09262002
Comments: RAP - OBRA (Oakland Base Reuse Authority) -- The City of Oakland
Comments Date: 09262002
Comments: prepared a Remedial Action Plan (RAP) and Risk Management Plan (R
Comments Date: 09262002
Comments: MP) that address 366 out of 425 acres of the base property. The

OAKLAND ARMY BASE (Continued) **S105481917**

Comments Date: 09262002
Comments: remaining 59 acres of the base will be designated as a seperate
Comments Date: 09262002
Comments: site. RIFS - OBRA -- The elements of RIFS for OUs 1237 have bee
Comments Date: 09262002
Comments: n incorporated into the Remedial Action Plan (RAP) and Risk Manag
Comments Date: 09262002
Comments: ement Plan. The RAP addresses 366 out of 425 acres of the base p
Comments Date: 09262002
Comments: roperty. Upon approval of the RAP, the RIFS for OUs 1237 is also
Comments Date: 09262002
Comments: completed. ORDER - OBRA -- DTSC and the City of Oakland signed
Comments Date: 09262002
Comments: the Consent Agreement for 366 acres of the base property expecte
Comments Date: 09262002
Comments: d to be early transferred by June 2003.
Comments Date: 09301996
Comments: BWEBS OAB-F -- Completed the review of the Basewide Environmental
Comments Date: 09301996
Comments: Baseline Survey.
Comments Date: 12201996
Comments: CERFA BASWD -- Department of Toxic Substances Control made the de
Comments Date: 12201996
Comments: termination that no parcel at Oakland Army Base can be classified
Comments Date: 12201996
Comments: as uncontaminated property.
Comments Date: 12311997
Comments: PEA 648 -- Completed the Preliminary Assessment/Site Inspection f
Comments Date: 12311997
Comments: or Building 648.
ID Name: Not reported
ID Value: Not reported
Alternate Name: OAKLAND ARMY BASEOakland Army Base
Special Programs Code: DSMOA
Special Programs Name: DEFENSE MEMORANDUM OF AGREEMENT

Cortese:
Region: CORTESE
Envirostor Id: 1970006
Site/Facility Type: STATE RESPONSE
Cleanup Status: ACTIVE - LAND USE RESTRICTIONS
Status Date: 1/15/1988
Site Code: 200233
Latitude: 37.82
Longitude: -122.3
EPA Id: Not reported
Owner: Not reported
Enf Type: Not reported
Effective Date: Not reported
Order No: Not reported
Region: Not reported
WDID: Not reported
Swat R: Not reported
Waste Discharger System Num: Not reported
Solid Waste Id Num: Not reported
Waste Management Unit Name: Not reported
Agency Name: Not reported

OAKLAND ARMY BASE (Continued) **S105481917**

DEED:

Area:	EDC AREA
Sub Area:	Not reported
Site Type:	STATE RESPONSE
Status:	ACTIVE
Deed Date(s):	2003-08-08

AWP:

AWP Facility ID:	01970006
Region Code:	2
Region:	BERKELEY
SMBR Branch Code:	NO
SMBR Branch Unit:	OMF-NORTHERN CALIF
Site Name.:	OAKLAND ARMY BASE
Current Status Date:	01151988
Current Status:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency Code:	DTSC
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type:	Closed military facility
Awp Site Type:	CLOSED MILITARY BASE
NPL:	Not Listed
Tier Of AWP Site:	Not reported
Source Of Funding:	Not reported
Responsible Staff Member:	HWONG
Supervisor Responsible:	Not reported
SIC Code:	97
Facility SIC:	NATIONAL SECURITY/INTERNATIONAL AFFAIRS
RWQCB Code:	SF
RWQCB Associated With Site:	SAN FRANCISCO BAY
Site Access Controlled:	Controlled
Site Listed HWS List:	Not reported
Hazard Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Not reported
# Of Contamination Sources:	0
Lat/Long:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Description Of Entity:	MEASURED FROM HQ BUILDING ON BASE
State Assembly Distt Code:	16
State Senate District:	09

RESPONSE:

Facility ID:	01970006
Site Type:	State Response
Site Type Detail:	Closed Base
Acres:	17
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	HENRY WONG
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	200233
Site Mgmt. Req.:	NONE SPECIFIED

OAKLAND ARMY BASE (Continued) **S105481917**

Assembly:	16
Senate:	09
Special Program Status:	Not reported
Status:	Active
Status Date:	01/15/1988
Restricted Use:	YES
Funding:	BRAC 95
Latitude:	37.82
Longitude:	-122.3
APN:	NONE SPECIFIED
Past Use:	BATTERY STORAGE, DAY CARE FACILITY, DEGREASING FACILITY, DISTRIBUTOR - CHEMICAL, DRY CLEANING, FIRING RANGE - SMALL ARMS ETC..., FUEL - VEHICLE STORAGE/ REFUELING, FUEL HYDRANT PUMPING STATIONS, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, LANDFILL - HAZARDOUS WASTE, MACHINE SHOP, METAL FINISHING, OIL/WATER SEPARATORS, PAINT/DEPAINT FACILITY, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, PORT, RECYCLING - DRUM, RECYCLING - OTHER, RECYCLING - SCRAP METAL, RECYCLING - USED OIL , SHIPYARD - TERMINAL, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, MACHINE SHOP, MAINTENANCE / CLEANING, MANUFACTURING - OTHER, OFFICE BUILDING, OIL/WATER SEPARATORS, RETAIL - SERVICE STATION, UNKNOWN, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING, DEGREASING FACILITY, ENGINE TESTING/REPAIR, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, OIL/WATER SEPARATORS, RAIL ROAD MAINTENANCE SHOP, VEHICLE MAINTENANCE, ILLEGAL DUMPING, LANDFILL - CONSTRUCTION, LANDFILL - HAZARDOUS WASTE, SHIPYARD - TERMINAL, UNKNOWN, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, RECYCLING - DRUM, UNKNOWN, DEGREASING FACILITY, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, MACHINE SHOP, MAINTENANCE / CLEANING, MANUFACTURING - OTHER, NURSERY, OFFICE BUILDING, OIL/WATER SEPARATORS, PAINT/DEPAINT FACILITY, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, RAIL ROAD MAINTENANCE SHOP, RECYCLING - OTHER, RECYCLING - SCRAP METAL, RETAIL - SERVICE STATION, TRANSFORMER REPAIR, UNKNOWN, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING, DAY CARE FACILITY, JUNKYARD, OFFICE BUILDING, RESIDENTIAL AREA, UNKNOWN, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING, OFFICE BUILDING, RESIDENTIAL AREA, UNKNOWN, TRANSPORTATION - WAREHOUSING, JUNKYARD, LANDFILL - CONSTRUCTION, UNKNOWN, DEGREASING FACILITY, ILLEGAL DUMPING, JUNKYARD, LDF, LANDFILL - CONSTRUCTION, RAIL ROAD MAINTENANCE SHOP, UNKNOWN, EQUIPMENT/INSTRUMENT REPAIR, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, PORT, RECYCLING - OTHER, SHIPYARD - SHIP BUILDING/REPAIR, SHIPYARD - TERMINAL, UNKNOWN, EQUIPMENT/INSTRUMENT REPAIR, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, RECYCLING - DRUM, UNKNOWN
Potential COC:	10097, 10009, 20017, 30001, 30004, 30005, 30006, 30007, 30008, 30010, 30013, 30014, 30018, 30019, 30022, 30023, 30024, 30025, 3002502, 30026, 30027, 30028, 30001, 30004, 30005, 30006, 30007, 30008, 30010, 30013, 30014, 30023, 30024, 30025, 3002502, 30001, 30006, 30007, 30008, 30010, 30013, 30018, 30019, 30022, 30024, 30025, 3002502, 30026, 30027, 30028, 30353, 30001, 30019, 30022, 30024, 30025, 3002502, 30026, 30027, 30028, 30001, 40001, 30003, 30004, 30005, 30006, 30007, 30008, 30009, 30010, 30013, 30014, 30016, 40002, 30018, 30019, 30021, 30022, 30023, 30024, 30025, 3002502, 30026, 30027, 30028, 30001, 40001, 30004, 30005, 30006, 30007, 30008, 30010, 30013,

OAKLAND ARMY BASE (Continued) **S105481917**

30014, 30018, 30019, 30022, 30023, 30024, 30025, 3002502, 30026, 30027, 30028, 30001, 40001, 30013, 30019, 30024, 30025, 3002502, 31001, 30001, 30004, 30006, 30007, 30008, 30010, 30013, 30014, 30018, 30019, 31001, 30001, 30004, 30006, 30007, 30008, 30013, 30018, 30022, 30024, 3002502, 30026, 30027, 30028, 31001, 30001, 40001, 30004, 30005, 30006, 30007, 30008, 30010, 30013, 30014, 30018, 30019, 30022, 30023, 30024, 30025, 3002502, 30026, 30027, 30028, 31001, 30004, 30006, 30007, 30008, 30010, 30013, 30023

Confirmed COC: 30001,30004,30005,30006,30007,30008,30010,30013,30014,30018,30019, 30023,30024,30025,30027,30028,3002502,30026,30022,,
,30001,30004,30005,30006,30007,30008,30010,30013,30014,30023,30024, 30025,3002502,,
,30001-NO,30006-NO,30007-NO,30008-NO,30010-NO,30013-NO,30353-NO, 30018-NO,30019-NO,30022-NO,30024-NO,30025-NO,30026-NO,30027-NO, 30028-NO,3002502-NO,,
,30001,30019,30024,30025,30027,30028,3002502,30026,30022,,
,30001,30003,30004,30005,30006,30007,30008,30009,30010,30013,30014, 30016,30018,30019,30021,30023,30024,30025,30027,30028,40001,40002, 3002502,30026,30022,,
,30001,30004,30005,30006,30007,30008,30010,30013,30014,30018,30019, 30023,30024,30025,30027,30028,40001,3002502,30026,30022,,
,30001,30013,30019,30024,30025,40001,3002502,,
,30001-NO,30004-NO,30006-NO,30007-NO,30008-NO,30010-NO,30013-NO, 30014-NO,30018-NO,30019-NO,31001-NO,,
,30001,30004,30022,30024,30026,3002502,31001,30018,30027,30028,30013, 30006,30007,30008,,
,30001,30004,30005,30006,30007,30008,30010,30013,30014,30018,30019, 30023,30024,30025,30027,30028,31001,40001,3002502,30026,30022,,
,30004,30006,30007,30008,30010,30013,30023,31001

Potential Description: OTH, SED, SOIL, OTH, SOIL, OTH, SOIL, OTH, SED, SOIL, SV, IA, SURFW, IA, OTH, SOIL, SV, OTH, SOIL, OTH, SOIL, OTH, SOIL, SED, IA, OTH, SED, SOIL, SV, SURFW, IA, OTH, SED, SOIL, SV, OTH, SED, SOIL, SURFW

Alias Name: OAKLAND ARMY BASE
Alias Type: Alternate Name
Alias Name: 110033612348
Alias Type: EPA (FRS #)
Alias Name: 169-21
Alias Type: RB-PCA
Alias Name: 200233
Alias Type: Project Code (Site Code)
Alias Name: 01970006
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: EDC Area
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Assessment
Completed Date: 08/01/2002
Comments: The proposed action is the approval and implementation of the OARB Final Reuse Plan, applicable to one of the three sub-districts of the OARB Area Redevelopment Plan, by the Oakland Base Reuse Authority. The Reuse Plan provides for property transfers, remediation of soil and groundwater contamination, installation of major infrastructure, and rehabilitation or demolition and re-construction of mixed use (Public Access, Public Open Space. Recreation, Office/R&D, Light industrial, Warehouse/Distribution, Commercial/Retail, and Live/Work), as well as industrial Port uses (maritime end rail) and ancillary maritime support uses at or near the former OARB site.

OAKLAND ARMY BASE (Continued) **S105481917**

Completed Area Name:	EDC Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Assessment
Completed Date:	08/01/2002
Comments:	The City of Oakland prepared the final ENVIRONMENTAL ASSESSMENT for the Oakland Army Base (OARB) Area Redevelopment Plan. The ENVIRONMENTAL ASSESSMENT includes environmental impact analysis for remedial alternatives proposed in the OARB's Remedial Action Plan. DTSC was a responsible agency for the ENVIRONMENTAL ASSESSMENT decision.

Completed Area Name:	OU2 - Offsite Wetland
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Assessment
Completed Date:	08/15/2001
Comments:	DTSC completed the ENVIRONMENTAL ASSESSMENT necessary for the approval of the OU2 Removal Action Workplan for the removal of pesticide contaminated soil at a wetland soil in OU2.

Completed Area Name:	EDC Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Consent Order
Completed Date:	05/19/2003
Comments:	DTSC, the Oakland Base Reuse Authority, and the City of Oakland acting by and through the Oakland Redevelopment Agency executed the Consent Agreement on May 19, 2003. The Consent Agreement binds the City to enter into environmental restrictions for the Site as necessary to protect human health and the environment, and to require the remediation of the site by the City in accordance with the Oakland Army Base Remedial Action Plan and associated Risk Management Plan approved by DTSC on September 26, 2002.

Completed Area Name:	EDC Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction
Completed Date:	08/08/2003
Comments:	On August 6, 2003, Governor Davis approved early transfer of the former Oakland Army Base to the City of Oakland. The U.S. Army requested that the State of California approve the deferral of remediation of hazardous substance contamination and approve the transfer 363.5 acre of Army property to the Oakland Base Reuse Authority and the City of Oakland acting by and through the Oakland Redevelopment Agency. The transferred acreages are about 85% of the original 425 acres of the former base area.

Completed Area Name:	EDC Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Finding of Suitability for Early Transfer
Completed Date:	08/06/2003
Comments:	On August 6, 2003, Governor Davis approved early transfer of the former Oakland Army Base to the City of Oakland. The U.S. Army requested that the State of California approve the deferral of remediation of hazardous substance contamination and approve the transfer 363.5 acre of Army property to the Oakland Base Reuse Authority and the City of Oakland acting by and through the Oakland Redevelopment Agency. The transferred acreages are about 85% of the original 425 acres of the former base area.

OAKLAND ARMY BASE (Continued) **S105481917**

Completed Area Name: EDC Area
Completed Sub Area Name: Not reported
Completed Document Type: Memorandum of Agreement - IAG
Completed Date: 04/15/2003
Comments: The Army, the Department of Toxic Substances Control, and the San Francisco Bay Regional Water Quality Control Board executed the Memorandum of Agreement (MOA) on April 15, 2003. The MOA specifies the Army responsibilities to fund the cleanup activities, to investigate and remediate any Army-Retained Condition, and to continue the cleanup activities in the event that the City of Oakland defaults on its responsibilities under the Consent Agreement.

Completed Area Name: EDC Area
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/22/2002
Comments: Not reported

Completed Area Name: OU2 - Offsite Wetland
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/01/2001
Comments: Not reported

Completed Area Name: OU2
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/26/2002
Comments: The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name: OU1
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/26/2002
Comments: The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name: OU3
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/26/2002
Comments: The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the

OAKLAND ARMY BASE (Continued) **S105481917**

Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name: OU4
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/26/2002
Comments: The elements of Remedial Investigation and Feasibility Study for Operable Unit 4, Parcels 2 and 3 have been incorporated into the Remedial Action Plan and Risk Management Plan. These parcels are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Unit 4, Parcels 2 and 3 are deemed completed.

Completed Area Name: OU7
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/26/2002
Comments: The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name: OU7
Completed Sub Area Name: Not reported
Completed Document Type: *Site Inspection (SI) Report
Completed Date: 08/25/1997
Comments: Not reported

Completed Area Name: OU3
Completed Sub Area Name: Not reported
Completed Document Type: *Site Inspection (SI) Report
Completed Date: 08/01/1997
Comments: Not reported

Completed Area Name: BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Community Environmental Response Facilitation Act
Completed Date: 12/20/1996
Comments: CERFA BASWD -- Department of Toxic Substances Control made the determination that no parcel at Oakland Army Base can be classified as uncontaminated property.

Completed Area Name: BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/20/1996
Comments: BWEBS OAB-F -- Completed the review of the Basewide Environmental Baseline Survey.

Completed Area Name: BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening

OAKLAND ARMY BASE (Continued) **S105481917**

Completed Date:	01/15/1988
Comments:	SITE SCREENING DONE
Completed Area Name:	Parcel 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	06/28/2005
Comments:	On June 28, 2005, DTSC approved the Remedial Investigation Report for Parcel 1 at the former Oakland Army Base. Parcel 1 consists of approximately 19.97 acres, including approximately 14 acres (nominally 14.08 acres, more or less) of upland and approximately 6 acres (5.89 acres, more or less) of submerged sediments in the intertidal and subtidal zones. The Remedial Investigation Report presents a summary of all previous and supplemental investigations. The overall objective of the Remedial Investigation Report was to collect sufficient data to assess the nature and extent of the site-related chemicals in soil, sediment, and groundwater, and to complete a baseline human health and ecological risk assessment.
Completed Area Name:	OU2 - Offsite Wetland
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	07/26/2005
Comments:	Department of Toxic Substances Control (DTSC) has reviewed the Closure Report and determined that the Army has removed the pesticide contaminated soil at the wetland area pursuant to the DTSC-approved Operable Unit 2 Soil Removal Action Work Plan dated July 2001. The Army removed 1,204 tons of non-Resource Conservation and Recovery Act hazardous waste soil to achieve residential cleanup goals.
Completed Area Name:	OU7
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	09/26/2002
Comments:	The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.
Completed Area Name:	EDC Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	09/26/2002
Comments:	The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.
Completed Area Name:	EDC Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report

OAKLAND ARMY BASE (Continued) **S105481917**

Completed Date: 09/26/2002
Comments: The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name: EDC Area
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Baseline Survey
Completed Date: 01/23/2003
Comments: The Department of Toxic Substances Control (DTSC) has received the final Environmental Baseline Survey for Transfer (EBS-T) dated December 2002. The EBS-T provides a description of environmental conditions and presents data from previously prepared documents for BRAC Parcels 1 through 5, 8 through 17, 19 (partial), 20, 21 (partial), and 22 through 26 at the former Oakland Army Base (OARB). DTSC has reviewed the final EBS-T and has no further comments.

Completed Area Name: OU5
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 12/12/2000
Comments: The Department of Toxic Substances Control (DTSC) has received the final Technical Report of Findings (Report) for Operable Unit 5, Revision 2, dated November 2000 for the Oakland Army Base (OARB). The Report contains information supporting the Army s request of no further action for Parcels 22, 23 and 26 at OARB. DTSC has reviewed the Report and has no further comments.

Completed Area Name: BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment/Site Inspection Report (PA/SI)
Completed Date: 06/30/1998
Comments: DTSC Completed the review of the Basewide Preliminary Assessment/Site Inspection (PA/SI), also called Preliminary Endangerment Assessment (PEA) activity for Oakland Army Base. Twenty-six (26) parcels were evaluated in the PA/SI. Twenty (20) parcels are recommended for further action while six (6) parcels are recommended for no further action.

Completed Area Name: EDC Area
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 09/26/2002
Comments: The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name: EDC Area
Completed Sub Area Name: Not reported

OAKLAND ARMY BASE (Continued) **S105481917**

Completed Document Type:	Remedial Action Plan
Completed Date:	09/26/2002
Comments:	On 9/26/02, DTSC approved the Remedial Action Plan (RAP) for the Economic Development Conveyance (EDC) Area. The EDC Area consists of 363.5 out of 425 acres of the base property. The Army will transfer the EDC Area to the City of Oakland shortly. The RAP requires cleanup of seven sites with soil and groundwater contaminated with metals, volatile and semi-volatile organic compounds, and total petroleum hydrocarbons. The RAP also requires cleanup of numerous locations where storage tanks, incidental vehicular maintenance, railroad tracks, and other activities involving the handling of hazardous materials occurred, and where hazardous substances or petroleum have been or may be discovered and will be remediated in accordance with the Risk Management Plan, an appendix to the RAP.
Completed Area Name:	OU2 - Offsite Wetland
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	08/15/2001
Comments:	DTSC approved the Soil Removal Action Work Plan for Operable Unit 2 (OU2) dated April 23, 2001 for the Oakland Army Base. The work plan proposes excavation and off-site disposal of pesticide contaminated soil at OU2. OU2 is a .5-acre low quality wetland offsite of the northeast end of Oakland Army Base.
Completed Area Name:	Parcel 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Feasibility Study Report
Completed Date:	04/19/2006
Comments:	On 4/19/06, DTSC approved the final "Uplands Areas of Concern, Feasibility Study, BRAC Parcel 1" dated April 2006. The Feasibility Study evaluates remedial alternatives for the upland Areas of Concern (AOCs) (i.e., AOC 1-1, AOC 1-2, AOC 1-3, and AOC 1-4) at Parcel 1 of the former Oakland Army Base. Parcel 1 includes the former landfill and part of the spit on which the eastern approach to the Bay Bridge is located. Constituents of concern include VOCs, pesticides, metals, and other typical waste constituents.
Future Area Name:	OU2 - Offsite Wetland
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Plan
Future Due Date:	2014
Future Area Name:	OU2 - Offsite Wetland
Future Sub Area Name:	Not reported
Future Document Type:	Design/Implementation Workplan
Future Due Date:	2015
Future Area Name:	OU2 - Offsite Wetland
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Investigation / Feasibility Study
Future Due Date:	2013
Future Area Name:	AOC M-1
Future Sub Area Name:	Not reported
Future Document Type:	Feasibility Study Report
Future Due Date:	2013
Future Area Name:	AOC M-1
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Completion Report

OAKLAND ARMY BASE (Continued) **S105481917**

Future Due Date: 2015
Future Area Name: OU2 - Offsite Wetland
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Completion Report
Future Due Date: 2018
Future Area Name: AOC M-1
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Plan
Future Due Date: 2013
Future Area Name: AOC M-1
Future Sub Area Name: Not reported
Future Document Type: Design/Implementation Workplan
Future Due Date: 2014
Future Area Name: Parcel 1
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Completion Report
Future Due Date: 2013
Future Area Name: AOC M-1
Future Sub Area Name: Not reported
Future Document Type: Public Notice
Future Due Date: 2013
Future Area Name: OU2 - Offsite Wetland
Future Sub Area Name: Not reported
Future Document Type: Remedial Investigation / Feasibility Study
Future Due Date: 2012
Future Area Name: OU2 - Offsite Wetland
Future Sub Area Name: Not reported
Future Document Type: Fact Sheets
Future Due Date: 2014
Future Area Name: OU2 - Offsite Wetland
Future Sub Area Name: Not reported
Future Document Type: Public Notice
Future Due Date: 2014
Future Area Name: OU2 - Offsite Wetland
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2018
Future Area Name: AOC M-1
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2015
Future Area Name: OU2 - Offsite Wetland
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2018
Future Area Name: Parcel 1
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2013
Future Area Name: Parcel 1
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2013
Future Area Name: AOC M-1
Future Sub Area Name: Not reported
Future Document Type: Fact Sheets
Future Due Date: 2013

OAKLAND ARMY BASE (Continued) **S105481917**

Future Area Name:	BASEWIDE
Future Sub Area Name:	Not reported
Future Document Type:	5 Year Review Reports
Future Due Date:	2017
Future Area Name:	Parcel 1
Future Sub Area Name:	Not reported
Future Document Type:	Operations and Maintenance Plan
Future Due Date:	2013
Schedule Area Name:	Parcel 1
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Remedial Action Plan
Schedule Due Date:	12/30/2011
Schedule Revised Date:	Not reported
Schedule Area Name:	Parcel 1
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Design/Implementation Workplan
Schedule Due Date:	6/30/2012
Schedule Revised Date:	Not reported
Schedule Area Name:	Parcel 1
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Fact Sheets
Schedule Due Date:	10/30/2011
Schedule Revised Date:	Not reported
Schedule Area Name:	Parcel 1
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Public Notice
Schedule Due Date:	10/30/2011
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	State Response
Site Type Detailed:	Closed Base
Acres:	17
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	HENRY WONG
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	01970006
Site Code:	200233
Assembly:	16
Senate:	09
Special Program:	Not reported
Status:	Active
Status Date:	01/15/1988
Restricted Use:	YES
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	BRAC 95
Latitude:	37.82
Longitude:	-122.3
APN:	NONE SPECIFIED
Past Use:	BATTERY STORAGE, DAY CARE FACILITY, DEGREASING FACILITY, DISTRIBUTOR - CHEMICAL, DRY CLEANING, FIRING RANGE - SMALL ARMS ETC..., FUEL - VEHICLE STORAGE/ REFUELING, FUEL HYDRANT PUMPING STATIONS, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, LANDFILL - HAZARDOUS WASTE, MACHINE SHOP, METAL FINISHING, OIL/WATER SEPARATORS,

OAKLAND ARMY BASE (Continued) **S105481917**

PAINT/DEPAINT FACILITY, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, PORT, RECYCLING - DRUM, RECYCLING - OTHER, RECYCLING - SCRAP METAL, RECYCLING - USED OIL , SHIPYARD - TERMINAL, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, MACHINE SHOP, MAINTENANCE / CLEANING, MANUFACTURING - OTHER, OFFICE BUILDING, OIL/WATER SEPARATORS, RETAIL - SERVICE STATION, UNKNOWN, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING, DEGREASING FACILITY, ENGINE TESTING/REPAIR, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, OIL/WATER SEPARATORS, RAIL ROAD MAINTENANCE SHOP, VEHICLE MAINTENANCE, ILLEGAL DUMPING, LANDFILL - CONSTRUCTION, LANDFILL - HAZARDOUS WASTE, SHIPYARD - TERMINAL, UNKNOWN, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, RECYCLING - DRUM, UNKNOWN, DEGREASING FACILITY, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, MACHINE SHOP, MAINTENANCE / CLEANING, MANUFACTURING - OTHER, NURSERY, OFFICE BUILDING, OIL/WATER SEPARATORS, PAINT/DEPAINT FACILITY, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, RAIL ROAD MAINTENANCE SHOP, RECYCLING - OTHER, RECYCLING - SCRAP METAL, RETAIL - SERVICE STATION, TRANSFORMER REPAIR, UNKNOWN, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING, DAY CARE FACILITY, JUNKYARD, OFFICE BUILDING, RESIDENTIAL AREA, UNKNOWN, VEHICLE MAINTENANCE, TRANSPORTATION - WAREHOUSING, OFFICE BUILDING, RESIDENTIAL AREA, UNKNOWN, TRANSPORTATION - WAREHOUSING, JUNKYARD, LANDFILL - CONSTRUCTION, UNKNOWN, DEGREASING FACILITY, ILLEGAL DUMPING, JUNKYARD, LDF, LANDFILL - CONSTRUCTION, RAIL ROAD MAINTENANCE SHOP, UNKNOWN, EQUIPMENT/INSTRUMENT REPAIR, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, PORT, RECYCLING - OTHER, SHIPYARD - SHIP BUILDING/REPAIR, SHIPYARD - TERMINAL, UNKNOWN, EQUIPMENT/INSTRUMENT REPAIR, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, RECYCLING - DRUM, UNKNOWN

Potential COC: 10097, 10009, 20017, 30001, 30004, 30005, 30006, 30007, 30008, 30010, 30013, 30014, 30018, 30019, 30022, 30023, 30024, 30025, 3002502, 30026, 30027, 30028, 30001, 30004, 30005, 30006, 30007, 30008, 30010, 30013, 30014, 30023, 30024, 30025, 3002502, 30001, 30006, 30007, 30008, 30010, 30013, 30018, 30019, 30022, 30024, 30025, 3002502, 30026, 30027, 30028, 30353, 30001, 30019, 30022, 30024, 30025, 3002502, 30026, 30027, 30028, 30001, 40001, 30003, 30004, 30005, 30006, 30007, 30008, 30009, 30010, 30013, 30014, 30016, 40002, 30018, 30019, 30021, 30022, 30023, 30024, 30025, 3002502, 30026, 30027, 30028, 30001, 40001, 30004, 30005, 30006, 30007, 30008, 30010, 30013, 30014, 30018, 30019, 30022, 30023, 30024, 30025, 3002502, 30026, 30027, 30028, 30001, 40001, 30013, 30019, 30024, 30025, 3002502, 31001, 30001, 30004, 30006, 30007, 30008, 30010, 30013, 30014, 30018, 30019, 31001, 30001, 30004, 30006, 30007, 30008, 30013, 30018, 30022, 30024, 3002502, 30026, 30027, 30028, 31001, 30001, 40001, 30004, 30005, 30006, 30007, 30008, 30010, 30013, 30014, 30018, 30019, 30022, 30023, 30024, 30025, 3002502, 30026, 30027, 30028, 31001, 30004, 30006, 30007, 30008, 30010, 30013, 30023

Confirmed COC: 30001,30004,30005,30006,30007,30008,30010,30013,30014,30018,30019, 30023,30024,30025,30027,30028,3002502,30026,30022,, ,30001,30004,30005,30006,30007,30008,30010,30013,30014,30023,30024, 30025,3002502,, ,30001-NO,30006-NO,30007-NO,30008-NO,30010-NO,30013-NO,30353-NO, 30018-NO,30019-NO,30022-NO,30024-NO,30025-NO,30026-NO,30027-NO, 30028-NO,3002502-NO,,

OAKLAND ARMY BASE (Continued) **S105481917**

,30001,30019,30024,30025,30027,30028,3002502,30026,30022,,
,30001,30003,30004,30005,30006,30007,30008,30009,30010,30013,30014,
30016,30018,30019,30021,30023,30024,30025,30027,30028,40001,40002,
3002502,30026,30022,,
,30001,30004,30005,30006,30007,30008,30010,30013,30014,30018,30019,
30023,30024,30025,30027,30028,40001,3002502,30026,30022,,
,30001,30013,30019,30024,30025,40001,3002502,,
,30001-NO,30004-NO,30006-NO,30007-NO,30008-NO,30010-NO,30013-NO,
30014-NO,30018-NO,30019-NO,31001-NO,,
,30001,30004,30022,30024,30026,3002502,31001,30018,30027,30028,30013,
30006,30007,30008,,
,30001,30004,30005,30006,30007,30008,30010,30013,30014,30018,30019,
30023,30024,30025,30027,30028,31001,40001,3002502,30026,30022,,
,30004,30006,30007,30008,30010,30013,30023,31001

Potential Description: OTH, SED, SOIL, OTH, SOIL, OTH, SOIL, OTH, SED, SOIL, SV, IA, SURFW, IA, OTH, SOIL, SV, OTH, SOIL, OTH, SOIL, OTH, SOIL, SED, IA, OTH, SED, SOIL, SV, SURFW, IA, OTH, SED, SOIL, SV, OTH, SED, SOIL, SURFW

Alias Name: OAKLAND ARMY BASE
Alias Type: Alternate Name
Alias Name: 110033612348
Alias Type: EPA (FRS #)
Alias Name: 169-21
Alias Type: RB-PCA
Alias Name: 200233
Alias Type: Project Code (Site Code)
Alias Name: 01970006
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: EDC Area
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Assessment
Completed Date: 08/01/2002
Comments: The proposed action is the approval and implementation of the OARB Final Reuse Plan, applicable to one of the three sub-districts of the OARB Area Redevelopment Plan, by the Oakland Base Reuse Authority. The Reuse Plan provides for property transfers, remediation of soil and groundwater contamination, installation of major infrastructure, and rehabilitation or demolition and re-construction of mixed use (Public Access, Public Open Space. Recreation, Office/R&D, Light industrial, Warehouse/Distribution, Commercial/Retail, and Live/Work), as well as industrial Port uses (maritime end rail) and ancillary maritime support uses at or near the former OARB site.

Completed Area Name: EDC Area
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Assessment
Completed Date: 08/01/2002
Comments: The City of Oakland prepared the final ENVIRONMENTAL ASSESSMENT for the Oakland Army Base (OARB) Area Redevelopment Plan. The ENVIRONMENTAL ASSESSMENT includes environmental impact analysis for remedial alternatives proposed in the OARB’s Remedial Action Plan. DTSC was a responsible agency for the ENVIRONMENTAL ASSESSMENT decision.

Completed Area Name: OU2 - Offsite Wetland
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Assessment

OAKLAND ARMY BASE (Continued) **S105481917**

Completed Date:	08/15/2001
Comments:	DTSC completed the ENVIRONMENTAL ASSESSMENT necessary for the approval of the OU2 Removal Action Workplan for the removal of pesticide contaminated soil at a wetland soil in OU2.
Completed Area Name:	EDC Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Consent Order
Completed Date:	05/19/2003
Comments:	DTSC, the Oakland Base Reuse Authority, and the City of Oakland acting by and through the Oakland Redevelopment Agency executed the Consent Agreement on May 19, 2003. The Consent Agreement binds the City to enter into environmental restrictions for the Site as necessary to protect human health and the environment, and to require the remediation of the site by the City in accordance with the Oakland Army Base Remedial Action Plan and associated Risk Management Plan approved by DTSC on September 26, 2002.
Completed Area Name:	EDC Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction
Completed Date:	08/08/2003
Comments:	On August 6, 2003, Governor Davis approved early transfer of the former Oakland Army Base to the City of Oakland. The U.S. Army requested that the State of California approve the deferral of remediation of hazardous substance contamination and approve the transfer 363.5 acre of Army property to the Oakland Base Reuse Authority and the City of Oakland acting by and through the Oakland Redevelopment Agency. The transferred acreages are about 85% of the original 425 acres of the former base area.
Completed Area Name:	EDC Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Finding of Suitability for Early Transfer
Completed Date:	08/06/2003
Comments:	On August 6, 2003, Governor Davis approved early transfer of the former Oakland Army Base to the City of Oakland. The U.S. Army requested that the State of California approve the deferral of remediation of hazardous substance contamination and approve the transfer 363.5 acre of Army property to the Oakland Base Reuse Authority and the City of Oakland acting by and through the Oakland Redevelopment Agency. The transferred acreages are about 85% of the original 425 acres of the former base area.
Completed Area Name:	EDC Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Memorandum of Agreement - IAG
Completed Date:	04/15/2003
Comments:	The Army, the Department of Toxic Substances Control, and the San Francisco Bay Regional Water Quality Control Board executed the Memorandum of Agreement (MOA) on April 15, 2003. The MOA specifies the Army responsibilities to fund the cleanup activities, to investigate and remediate any Army-Retained Condition, and to continue the cleanup activities in the event that the City of Oakland defaults on its responsibilities under the Consent Agreement.
Completed Area Name:	EDC Area

OAKLAND ARMY BASE (Continued) **S105481917**

Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/22/2002
Comments: Not reported

Completed Area Name: OU2 - Offsite Wetland
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/01/2001
Comments: Not reported

Completed Area Name: OU2
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/26/2002
Comments: The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name: OU1
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/26/2002
Comments: The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name: OU3
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/26/2002
Comments: The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name: OU4
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/26/2002
Comments: The elements of Remedial Investigation and Feasibility Study for Operable Unit 4, Parcels 2 and 3 have been incorporated into the Remedial Action Plan and Risk Management Plan. These parcels are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Unit 4,

OAKLAND ARMY BASE (Continued) **S105481917**

Parcels 2 and 3 are deemed completed.

Completed Area Name: OU7
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/26/2002
Comments: The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name: OU7
Completed Sub Area Name: Not reported
Completed Document Type: *Site Inspection (SI) Report
Completed Date: 08/25/1997
Comments: Not reported

Completed Area Name: OU3
Completed Sub Area Name: Not reported
Completed Document Type: *Site Inspection (SI) Report
Completed Date: 08/01/1997
Comments: Not reported

Completed Area Name: BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Community Environmental Response Facilitation Act
Completed Date: 12/20/1996
Comments: CERFA BASWD -- Department of Toxic Substances Control made the determination that no parcel at Oakland Army Base can be classified as uncontaminated property.

Completed Area Name: BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/20/1996
Comments: BWEBS OAB-F -- Completed the review of the Basewide Environmental Baseline Survey.

Completed Area Name: BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 01/15/1988
Comments: SITE SCREENING DONE

Completed Area Name: Parcel 1
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 06/28/2005
Comments: On June 28, 2005, DTSC approved the Remedial Investigation Report for Parcel 1 at the former Oakland Army Base. Parcel 1 consists of approximately 19.97 acres, including approximately 14 acres (nominally 14.08 acres, more or less) of upland and approximately 6 acres (5.89 acres, more or less) of submerged sediments in the intertidal and subtidal zones. The Remedial Investigation Report

OAKLAND ARMY BASE (Continued) **S105481917**

presents a summary of all previous and supplemental investigations. The overall objective of the Remedial Investigation Report was to collect sufficient data to assess the nature and extent of the site-related chemicals in soil, sediment, and groundwater, and to complete a baseline human health and ecological risk assessment.

Completed Area Name:	OU2 - Offsite Wetland
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	07/26/2005
Comments:	Department of Toxic Substances Control (DTSC) has reviewed the Closure Report and determined that the Army has removed the pesticide contaminated soil at the wetland area pursuant to the DTSC-approved Operable Unit 2 Soil Removal Action Work Plan dated July 2001. The Army removed 1,204 tons of non-Resource Conservation and Recovery Act hazardous waste soil to achieve residential cleanup goals.

Completed Area Name:	OU7
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	09/26/2002
Comments:	The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name:	EDC Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	09/26/2002
Comments:	The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name:	EDC Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	09/26/2002
Comments:	The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name:	EDC Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Baseline Survey
Completed Date:	01/23/2003

OAKLAND ARMY BASE (Continued) **S105481917**

Comments: The Department of Toxic Substances Control (DTSC) has received the final Environmental Baseline Survey for Transfer (EBS-T) dated December 2002. The EBS-T provides a description of environmental conditions and presents data from previously prepared documents for BRAC Parcels 1 through 5, 8 through 17, 19 (partial), 20, 21 (partial), and 22 through 26 at the former Oakland Army Base (OARB). DTSC has reviewed the final EBS-T and has no further comments.

Completed Area Name: OU5
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 12/12/2000
Comments: The Department of Toxic Substances Control (DTSC) has received the final Technical Report of Findings (Report) for Operable Unit 5, Revision 2, dated November 2000 for the Oakland Army Base (OARB). The Report contains information supporting the Army s request of no further action for Parcels 22, 23 and 26 at OARB. DTSC has reviewed the Report and has no further comments.

Completed Area Name: BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment/Site Inspection Report (PA/SI)
Completed Date: 06/30/1998
Comments: DTSC Completed the review of the Basewide Preliminary Assessment/Site Inspection (PA/SI), also called Preliminary Endangerment Assessment (PEA) activity for Oakland Army Base. Twenty-six (26) parcels were evaluated in the PA/SI. Twenty (20) parcels are recommended for further action while six (6) parcels are recommended for no further action.

Completed Area Name: EDC Area
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 09/26/2002
Comments: The elements of Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 have been incorporated into the Remedial Action Plan and Risk Management Plan. These Operable Units are located within the Economic Development Conveyance Area. Upon approval of the Remedial Action Plan on September 26, 2002, the Remedial Investigation and Feasibility Study for Operable Units 1, 2, 3, and 7 are deemed completed.

Completed Area Name: EDC Area
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 09/26/2002
Comments: On 9/26/02, DTSC approved the Remedial Action Plan (RAP) for the Economic Development Conveyance (EDC) Area. The EDC Area consists of 363.5 out of 425 acres of the base property. The Army will transfer the EDC Area to the City of Oakland shortly. The RAP requires cleanup of seven sites with soil and groundwater contaminated with metals, volatile and semi-volatile organic compounds, and total petroleum hydrocarbons. The RAP also requires cleanup of numerous locations where storage tanks, incidental vehicular maintenance, railroad tracks, and other activities involving the handling of hazardous materials occurred, and where hazardous substances or petroleum have been or may be discovered and will be remediated in accordance with

OAKLAND ARMY BASE (Continued) **S105481917**

the Risk Management Plan, an appendix to the RAP.

Completed Area Name:	OU2 - Offsite Wetland
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	08/15/2001
Comments:	DTSC approved the Soil Removal Action Work Plan for Operable Unit 2 (OU2) dated April 23, 2001 for the Oakland Army Base. The work plan proposes excavation and off-site disposal of pesticide contaminated soil at OU2. OU2 is a .5-acre low quality wetland offsite of the northeast end of Oakland Army Base.

Completed Area Name:	Parcel 1
Completed Sub Area Name:	Not reported
Completed Document Type:	Feasibility Study Report
Completed Date:	04/19/2006
Comments:	On 4/19/06, DTSC approved the final "Uplands Areas of Concern, Feasibility Study, BRAC Parcel 1" dated April 2006. The Feasibility Study evaluates remedial alternatives for the upland Areas of Concern (AOCs) (i.e., AOC 1-1, AOC 1-2, AOC 1-3, and AOC 1-4) at Parcel 1 of the former Oakland Army Base. Parcel 1 includes the former landfill and part of the spit on which the eastern approach to the Bay Bridge is located. Constituents of concern include VOCs, pesticides, metals, and other typical waste constituents.

Future Area Name:	OU2 - Offsite Wetland
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Plan
Future Due Date:	2014
Future Area Name:	OU2 - Offsite Wetland
Future Sub Area Name:	Not reported
Future Document Type:	Design/Implementation Workplan
Future Due Date:	2015
Future Area Name:	OU2 - Offsite Wetland
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Investigation / Feasibility Study
Future Due Date:	2013
Future Area Name:	AOC M-1
Future Sub Area Name:	Not reported
Future Document Type:	Feasibility Study Report
Future Due Date:	2013
Future Area Name:	AOC M-1
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Completion Report
Future Due Date:	2015
Future Area Name:	OU2 - Offsite Wetland
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Completion Report
Future Due Date:	2018
Future Area Name:	AOC M-1
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Plan
Future Due Date:	2013
Future Area Name:	AOC M-1
Future Sub Area Name:	Not reported
Future Document Type:	Design/Implementation Workplan
Future Due Date:	2014

OAKLAND ARMY BASE (Continued) **S105481917**

Future Area Name: Parcel 1
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Completion Report
Future Due Date: 2013
Future Area Name: AOC M-1
Future Sub Area Name: Not reported
Future Document Type: Public Notice
Future Due Date: 2013
Future Area Name: OU2 - Offsite Wetland
Future Sub Area Name: Not reported
Future Document Type: Remedial Investigation / Feasibility Study
Future Due Date: 2012
Future Area Name: OU2 - Offsite Wetland
Future Sub Area Name: Not reported
Future Document Type: Fact Sheets
Future Due Date: 2014
Future Area Name: OU2 - Offsite Wetland
Future Sub Area Name: Not reported
Future Document Type: Public Notice
Future Due Date: 2014
Future Area Name: OU2 - Offsite Wetland
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2018
Future Area Name: AOC M-1
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2015
Future Area Name: OU2 - Offsite Wetland
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2018
Future Area Name: Parcel 1
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2013
Future Area Name: Parcel 1
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2013
Future Area Name: AOC M-1
Future Sub Area Name: Not reported
Future Document Type: Fact Sheets
Future Due Date: 2013
Future Area Name: BASEWIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2017
Future Area Name: Parcel 1
Future Sub Area Name: Not reported
Future Document Type: Operations and Maintenance Plan
Future Due Date: 2013
Schedule Area Name: Parcel 1
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Action Plan
Schedule Due Date: 12/30/2011
Schedule Revised Date: Not reported

OAKLAND ARMY BASE (Continued) **S105481917**

Schedule Area Name:	Parcel 1
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Design/Implementation Workplan
Schedule Due Date:	6/30/2012
Schedule Revised Date:	Not reported
Schedule Area Name:	Parcel 1
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Fact Sheets
Schedule Due Date:	10/30/2011
Schedule Revised Date:	Not reported
Schedule Area Name:	Parcel 1
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Public Notice
Schedule Due Date:	10/30/2011
Schedule Revised Date:	Not reported

X76
NW
1/4-1/2
0.406 mi.
2146 ft.

USARMY OAKLAND ARMY BASE
BLDG-1 ALASKA STREET
OAKLAND, CA 94626

Site 2 of 2 in cluster X

CERCLIS
RCRA-SQG
CA FID UST
HIST UST
SWEEPS UST
HAZNET

1000277305
CA4210020661

Relative:
Lower

Actual:
9 ft.

CERCLIS:

Site ID:	0902758
EPA ID:	CA4210020661
Facility County:	ALAMEDA
Short Name:	OAKLAND ARMY BASE WAREHOU
Congressional District:	08
IFMS ID:	09CF
SMSA Number:	7360
USGC Hydro Unit:	18050004
Federal Facility:	Federal Facility
DMNSN Number:	Not reported
Site Orphan Flag:	N
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	Not reported
NFRAP Flag:	Not reported
Parent ID:	Not reported
RST Code:	Not reported
EPA Region:	09
Classification:	Not reported
Site Settings Code:	Not reported
NPL Status:	Not on the NPL
DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	USAR
Non NPL Status:	Other Cleanup Activity: Federal Facility-Lead Cleanup
Non NPL Status Date:	20060815
Site Fips Code:	06001
CC Concurrence Date:	Not reported
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported

CERCLIS Site Contact Name(s):

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Contact ID: 9270232.00000
Contact Name: Xuan-Mai Tran
Contact Tel: (415) 972-3002
Contact Title: Remedial Project Manager (RPM)
Contact Email: Not reported

Contact ID: 9271184.00000
Contact Name: Karen Jurist
Contact Tel: (415) 972-3219
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 9270048.00000
Contact Name: Jeff Inglis
Contact Tel: (415) 972-3095
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 13002167.00000
Contact Name: Carl Brickner
Contact Tel: (415) 972-3814
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 9270438.00000
Contact Name: Dawn Richmond
Contact Tel: (415) 972-3097
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

CERCLIS Site Alias Name(s):
Alias ID: 9270147
Alias Name: OAKLAND USAR BASE
Alias Address: BLDG-1 ALASKA ST.
OAKLAND, CA 93013
Alias Comments: Not reported
Site Description: According to Xuan-Mai Tran, the RPM, the Army has transferred most of the facility to the City of Oakland, and progress is being made in cleaning up the site. PA

CERCLIS Assessment History:

Action Code: 001
Action: DISCOVERY
Date Started: Not reported
Date Completed: 08/01/1980
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: PRELIMINARY ASSESSMENT
Date Started: Not reported

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Date Completed:	06/01/1987
Priority Level:	Low priority for further assessment
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	001
Action:	Restoration Advisory Board
Date Started:	08/01/1996
Date Completed:	Not reported
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	002
Action:	FEDERAL FACILITY REMEDIAL INVESTIGATION
Date Started:	02/28/2000
Date Completed:	09/27/2002
Priority Level:	Not reported
Operable Unit:	GARRISON
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

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USARMY OAKLAND ARMY BASE (Continued) **1000277305**

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Action Code:	002
Action:	FEDERAL FACILITY FEASIBILITY STUDY
Date Started:	09/27/2002
Date Completed:	Not reported
Priority Level:	Not reported
Operable Unit:	BASEWIDE
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	001
Action:	FEDERAL FACILITY FEASIBILITY STUDY
Date Started:	12/22/1999
Date Completed:	09/27/2002
Priority Level:	Not reported
Operable Unit:	WAREHOUSE
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

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Action Code:	001
Action:	FEDERAL FACILITY REMEDIAL INVESTIGATION
Date Started:	12/22/1999
Date Completed:	09/27/2002
Priority Level:	Not reported
Operable Unit:	WAREHOUSE
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Action Anomaly: Not reported

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USARMY OAKLAND ARMY BASE (Continued) **1000277305**

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Action Code:	003
Action:	FEDERAL FACILITY REMEDIAL INVESTIGATION
Date Started:	02/15/2000
Date Completed:	09/27/2002
Priority Level:	Not reported
Operable Unit:	NFA AREAS
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

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Action Code:	005
Action:	FEDERAL FACILITY REMEDIAL INVESTIGATION
Date Started:	03/24/2000
Date Completed:	09/27/2002
Priority Level:	Not reported
Operable Unit:	GROUNDWATER

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Primary Responsibility: Federal Facilities
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

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Action Code: 002
Action: FEDERAL FACILITY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 02/04/2000
Date Completed: 05/23/2005
Priority Level: Not reported
Operable Unit: BUILDING 99
Primary Responsibility: Federal Facilities
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: FEDERAL FACILITY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 11/08/2004
Date Completed: 03/20/2006
Priority Level: Not reported
Operable Unit: SAND SPIT
Primary Responsibility: Federal Facilities
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

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USARMY OAKLAND ARMY BASE (Continued) **1000277305**

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Action Code:	001
Action:	SITE REASSESSMENT
Date Started:	Not reported
Date Completed:	08/15/2006
Priority Level:	Low priority for further assessment
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA In-House
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Click this hyperlink while viewing on your computer to access
129 additional US CERCLIS Financial: record(s) in the EDR Site Report.

RCRA-SQG:

Date form received by agency:	10/12/2000
Facility name:	USARMY OAKLAND ARMY BASE
Site name:	OAKLAND ARMY BASE
Facility address:	2475-D W. 12TH STREET OAKLAND, CA 946075780
EPA ID:	CA4210020661
Contact:	BRUCE HAYMAKER
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(510) 466-2787
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Federal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 09/01/1996
Facility name: USARMY OAKLAND ARMY BASE
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Facility name: USARMY OAKLAND ARMY BASE
Classification: Small Quantity Generator

Date form received by agency: 06/22/1990
Facility name: USARMY OAKLAND ARMY BASE
Site name: OAKLAND ARMY BASE
Classification: Large Quantity Generator

Date form received by agency: 08/18/1980
Facility name: USARMY OAKLAND ARMY BASE
Classification: Large Quantity Generator

Violation Status: No violations found

CA FID UST:
Facility ID: 01002798
Regulated By: UTNKA
Regulated ID: 00063359
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4154663088
Mail To: Not reported

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Mailing Address: BLDG 1 OAKLAND ARMY
Mailing Address 2: Not reported
Mailing City,St,Zip: OAKLAND 94626
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

HIST UST:
Region: STATE
Facility ID: 00000063359
Facility Type: Other
Other Type: MILITARY INSTALLATIO
Total Tanks: 0017
Contact Name: STAFF ENGINEER
Telephone: 4154663088
Owner Name: COMMANDER, MILITARY TRAFFIC MA
Owner Address: BUILDING 1, OAKLAND ARMY BASE
Owner City,St,Zip: OAKLAND, CA 94626

Tank Num: 001
Container Num: T-11
Year Installed: 1969
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: T-12
Year Installed: 1969
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: T-14
Year Installed: 1969
Tank Capacity: 00000550
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Tank Construction: Not reported
Leak Detection: None

Tank Num: 004
Container Num: T-13
Year Installed: 1969
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Leak Detection: Stock Inventor

Tank Num: 005
Container Num: T-1
Year Installed: 1942
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: Not reported
Leak Detection: None

Tank Num: 006
Container Num: T-2
Year Installed: 1966
Tank Capacity: 00000550
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: None

Tank Num: 007
Container Num: T-3
Year Installed: 1942
Tank Capacity: 00000250
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: Not reported
Leak Detection: None

Tank Num: 008
Container Num: T-4
Year Installed: 1968
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 009
Container Num: T-5
Year Installed: 1957
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 010
Container Num: T-6
Year Installed: 1957
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 011

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Container Num: T-7
Year Installed: 1982
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 012
Container Num: T-8
Year Installed: 1981
Tank Capacity: 00000550
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Tank Construction: Not reported
Leak Detection: None

Tank Num: 013
Container Num: T-9
Year Installed: 1981
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 014
Container Num: T-10
Year Installed: 1981
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 015
Container Num: T-15
Year Installed: 1944
Tank Capacity: 00012500
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: Not reported
Leak Detection: None

Tank Num: 016
Container Num: T-16
Year Installed: 1955
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: Not reported
Leak Detection: None

Tank Num: 017
Container Num: T-17
Year Installed: 1954
Tank Capacity: 00008000

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Tank Construction:	Not reported
Leak Detection:	None

SWEEPS UST:

Status:	Not reported
Comp Number:	63359
Number:	Not reported
Board Of Equalization:	44-032063
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-063359-000001
Actv Date:	Not reported
Capacity:	5000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	25

Status:	Not reported
Comp Number:	63359
Number:	Not reported
Board Of Equalization:	44-032063
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-063359-000002
Actv Date:	Not reported
Capacity:	5000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	63359
Number:	Not reported
Board Of Equalization:	44-032063
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-063359-000003
Actv Date:	Not reported
Capacity:	550
Tank Use:	OIL
Stg:	WASTE
Content:	WASTE OIL
Number Of Tanks:	Not reported

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Status:	Not reported
Comp Number:	63359
Number:	Not reported
Board Of Equalization:	44-032063
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-063359-000004
Actv Date:	Not reported
Capacity:	5000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	63359
Number:	Not reported
Board Of Equalization:	44-032063
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-063359-000005
Actv Date:	Not reported
Capacity:	1000
Tank Use:	OIL
Stg:	PRODUCT
Content:	FUEL
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	63359
Number:	Not reported
Board Of Equalization:	44-032063
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-063359-000006
Actv Date:	Not reported
Capacity:	550
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	DIESEL
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	63359
Number:	Not reported
Board Of Equalization:	44-032063
Ref Date:	Not reported
Act Date:	Not reported

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000007
Actv Date: Not reported
Capacity: 250
Tank Use: OIL
Stg: PRODUCT
Content: OIL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000009
Actv Date: Not reported
Capacity: 10000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000011
Actv Date: Not reported
Capacity: 10000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000012
Actv Date: Not reported
Capacity: 550

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Tank Use: OIL
Stg: WASTE
Content: WASTE OIL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000013
Actv Date: Not reported
Capacity: 2000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000015
Actv Date: Not reported
Capacity: 12500
Tank Use: OIL
Stg: PRODUCT
Content: OIL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000016
Actv Date: Not reported
Capacity: 6000
Tank Use: OIL
Stg: PRODUCT
Content: OIL
Number Of Tanks: Not reported

Status: Not reported

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000017
Actv Date: Not reported
Capacity: 8000
Tank Use: PETROLEUM
Stg: PRODUCT
Content: FUEL OIL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000018
Actv Date: Not reported
Capacity: 500
Tank Use: OIL
Stg: WASTE
Content: WASTE OIL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000019
Actv Date: Not reported
Capacity: 550
Tank Use: OIL
Stg: WASTE
Content: WASTE OIL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-063359-000020
Actv Date:	Not reported
Capacity:	1000
Tank Use:	OIL
Stg:	PRODUCT
Content:	FUEL OIL
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	63359
Number:	Not reported
Board Of Equalization:	44-032063
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-063359-000021
Actv Date:	Not reported
Capacity:	1000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	GASOLINE TYP
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	63359
Number:	Not reported
Board Of Equalization:	44-032063
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-063359-000022
Actv Date:	Not reported
Capacity:	1000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	GASOLINE TYP
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	63359
Number:	Not reported
Board Of Equalization:	44-032063
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-063359-000023
Actv Date:	Not reported
Capacity:	1000
Tank Use:	OIL

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Stg: PRODUCT
Content: GASOLINE TYP
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000024
Actv Date: Not reported
Capacity: 500
Tank Use: OIL
Stg: PRODUCT
Content: FUEL OIL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000025
Actv Date: Not reported
Capacity: 1000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: GASOLINE TYP
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000026
Actv Date: Not reported
Capacity: 7500
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000027
Actv Date: Not reported
Capacity: 2000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 63359
Number: Not reported
Board Of Equalization: 44-032063
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-063359-000028
Actv Date: Not reported
Capacity: 1000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: GASOLINE TYP
Number Of Tanks: Not reported

Status: A
Comp Number: 63359
Number: 7
Board Of Equalization: 44-032063
Ref Date: 04-11-93
Act Date: 12-17-93
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 1
Swrcb Tank Id: 01-000-063359-000008
Actv Date: 03-12-90
Capacity: 1000
Tank Use: M.V. FUEL
Stg: P
Content: DIESEL
Number Of Tanks: 13

Status: A
Comp Number: 63359
Number: 7
Board Of Equalization: 44-032063
Ref Date: 04-11-93
Act Date: 12-17-93
Created Date: 02-29-88
Tank Status: A

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Owner Tank Id:	5
Swrcb Tank Id:	01-000-063359-000010
Actv Date:	03-22-90
Capacity:	10000
Tank Use:	M.V. FUEL
Stg:	P
Content:	DIESEL
Number Of Tanks:	Not reported

Status:	A
Comp Number:	63359
Number:	7
Board Of Equalization:	44-032063
Ref Date:	04-11-93
Act Date:	12-17-93
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	7
Swrcb Tank Id:	01-000-063359-000014
Actv Date:	03-22-90
Capacity:	10000
Tank Use:	M.V. FUEL
Stg:	P
Content:	DIESEL
Number Of Tanks:	Not reported

Status:	A
Comp Number:	63359
Number:	7
Board Of Equalization:	44-032063
Ref Date:	04-11-93
Act Date:	12-17-93
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	13
Swrcb Tank Id:	01-000-063359-000029
Actv Date:	04-16-93
Capacity:	2000
Tank Use:	M.V. FUEL
Stg:	P
Content:	DIESEL
Number Of Tanks:	Not reported

Status:	A
Comp Number:	63359
Number:	7
Board Of Equalization:	44-032063
Ref Date:	04-11-93
Act Date:	12-17-93
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	14
Swrcb Tank Id:	01-000-063359-000030
Actv Date:	04-16-93
Capacity:	200
Tank Use:	OIL
Stg:	W

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Content:	WASTE OIL
Number Of Tanks:	Not reported
Status:	A
Comp Number:	63359
Number:	7
Board Of Equalization:	44-032063
Ref Date:	04-11-93
Act Date:	12-17-93
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	2
Swrcb Tank Id:	01-000-063359-000031
Actv Date:	03-12-90
Capacity:	550
Tank Use:	M.V. FUEL
Stg:	P
Content:	DIESEL
Number Of Tanks:	Not reported
Status:	A
Comp Number:	63359
Number:	7
Board Of Equalization:	44-032063
Ref Date:	04-11-93
Act Date:	12-17-93
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	3
Swrcb Tank Id:	01-000-063359-000032
Actv Date:	03-13-90
Capacity:	10000
Tank Use:	M.V. FUEL
Stg:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported
Status:	A
Comp Number:	63359
Number:	7
Board Of Equalization:	44-032063
Ref Date:	04-11-93
Act Date:	12-17-93
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	4
Swrcb Tank Id:	01-000-063359-000033
Actv Date:	03-13-90
Capacity:	10000
Tank Use:	M.V. FUEL
Stg:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported
Status:	A
Comp Number:	63359
Number:	7

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Board Of Equalization: 44-032063
Ref Date: 04-11-93
Act Date: 12-17-93
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 6
Swrcb Tank Id: 01-000-063359-000034
Actv Date: 03-12-90
Capacity: 550
Tank Use: OIL
Stg: W
Content: WASTE OIL
Number Of Tanks: Not reported

Status: A
Comp Number: 63359
Number: 7
Board Of Equalization: 44-032063
Ref Date: 04-11-93
Act Date: 12-17-93
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 8
Swrcb Tank Id: 01-000-063359-000035
Actv Date: 03-13-90
Capacity: 1000
Tank Use: M.V. FUEL
Stg: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: A
Comp Number: 63359
Number: 7
Board Of Equalization: 44-032063
Ref Date: 04-11-93
Act Date: 12-17-93
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 9
Swrcb Tank Id: 01-000-063359-000036
Actv Date: 03-12-90
Capacity: 6000
Tank Use: M.V. FUEL
Stg: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: A
Comp Number: 63359
Number: 7
Board Of Equalization: 44-032063
Ref Date: 04-11-93
Act Date: 12-17-93
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 10

USARMY OAKLAND ARMY BASE (Continued) **1000277305**

Swrcb Tank Id: 01-000-063359-000037
Actv Date: 03-12-90
Capacity: 6000
Tank Use: M.V. FUEL
Stg: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: A
Comp Number: 63359
Number: 7
Board Of Equalization: 44-032063
Ref Date: 04-11-93
Act Date: 12-17-93
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 11
Swrcb Tank Id: 01-000-063359-000038
Actv Date: 03-12-90
Capacity: 550
Tank Use: OIL
Stg: W
Content: WASTE OIL
Number Of Tanks: Not reported

HAZNET:
Year: 2004
Gepaid: CA4210020661
Contact: ROGER CASWELL/BEC
Telephone: 5109862871
Mailing Name: Not reported
Mailing Address: 700 MURMANSK ST STE 3
Mailing City,St,Zip: OAKLAND, CA 946070000
Gen County: Alameda
TSD EPA ID: CAT080033681
TSD County: Los Angeles
Waste Category: Unspecified organic liquid mixture
Disposal Method: T01
Tons: 0.39
Facility County: Not reported

Y77
NW
1/4-1/2
0.452 mi.
2387 ft.

PORT OF OAKLAND YUSEN TERMINAL
1195 MARITIME
OAKLAND, CA 94607

WDS **S103472375**
LUST **N/A**

Site 1 of 3 in cluster Y

Relative:
Lower

Actual:
9 ft.

CA WDS:
Facility ID: San Francisco Bay 01I004999
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.

PORT OF OAKLAND YUSEN TERMINAL (Continued) **S103472375**

NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	2
Facility Telephone:	5108912900
Facility Contact:	MICHAEL OGIEGLO
Agency Name:	CENTENNIAL SERVICES
Agency Address:	1195 Maritime St
Agency City,St,Zip:	Oakland 946071027
Agency Contact:	MICHAEL OGIEGLO
Agency Telephone:	5108912900
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

LUST:

Region:	STATE
Global Id:	T0600100864
Latitude:	37.8126882
Longitude:	-122.3110461
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/10/1997
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	JE
Local Agency:	Not reported
RB Case Number:	01-0939
LOC Case Number:	RO0000926
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0600100864
Contact Type:	Regional Board Caseworker

PORT OF OAKLAND YUSEN TERMINAL (Continued) **S103472375**

Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0600100864
Action Type: REMEDIATION
Date: 1950-01-01 00:00:00
Action: Excavate and Treat

Global Id: T0600100864
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: 01-0939
Facility Status: Case Closed
Case Number: 4013
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 8/22/1996
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Y78
NW
1/4-1/2
0.452 mi.
2387 ft.

STEVEDORING SVCS OF AMERI
1195 MARITIME
OAKLAND, CA

HIST CORTESE **S100276783**
CHMIRS **N/A**

Site 2 of 3 in cluster Y

Relative:
Lower

Actual:
9 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0939

CHMIRS:
OES Incident Number: 9100503
OES notification: Not reported
OES Date: Not reported
OES Time: Not reported
Incident Date: 04-JUN-91
Date Completed: **04-JUN-91**
Property Use: 942

STEVEDORING SVCS OF AMERI (Continued) **S100276783**

Agency Id Number: 1075
Agency Incident Number: 9115671
Time Notified: 2006
Time Completed: 2100
Surrounding Area: 942
Estimated Temperature: Not reported
Property Management: Not reported
Special Studies 1: Not reported
Special Studies 2: Not reported
Special Studies 3: Not reported
Special Studies 4: Not reported
Special Studies 5: Not reported
Special Studies 6: Not reported
More Than Two Substances Involved?: N
Resp Agncy Personel # Of Decontaminated: 0
Responding Agency Personel # Of Injuries: 0
Responding Agency Personel # Of Fatalities: 0
Others Number Of Decontaminated: 0
Others Number Of Injuries: 0
Others Number Of Fatalities: 0
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA/DOT/PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: DAVID FLETCHER
Report Date: 04-JUN-91
Comments: Y
Facility Telephone: 415 273-3856
Waterway Involved: Not reported
Waterway: Not reported
Spill Site: Not reported
Cleanup By: Not reported
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 88-92
Agency: Not reported
Incident Date: Not reported
Admin Agency: Not reported
Amount: Not reported
Contained: Not reported
Site Type: Not reported
E Date: 08-JUL-92
Substance: Not reported
Quantity Released: Not reported
BBLS: Not reported
Cups: Not reported
CUFT: Not reported
Gallons: Not reported
Grams: Not reported
Pounds: Not reported
Liters: Not reported

STEVEDORING SVCS OF AMERI (Continued) **S100276783**

Ounces:	Not reported
Pints:	Not reported
Quarts:	Not reported
Sheen:	Not reported
Tons:	Not reported
Unknown:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
Description:	Not reported

Y79 **NW** **1/4-1/2** **0.452 mi.** **2387 ft.**	**STEVEDORING SERVICES OF AMERIC** **1195 MARITIME ST** **OAKLAND, CA 94607** **Site 3 of 3 in cluster Y**	**CA FID UST** **Alameda County CS** **HIST UST** **SWEEPS UST** **CHMIRS** **HAZNET**	**1000429794** **N/A**

Relative:
Lower

Actual:
9 ft.

CA FID UST:

Facility ID:	01001061
Regulated By:	UTNKA
Regulated ID:	00059963
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4152711856
Mail To:	Not reported
Mailing Address:	1195 MARITIME ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	OAKLAND 94607
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

Alameda County CS:

Status:	Case Closed
Record Id:	RO0000926
PE:	5602

HIST UST:

Region:	STATE
Facility ID:	00000059963
Facility Type:	Other
Other Type:	SHIPPING
Total Tanks:	0003
Contact Name:	Not reported
Telephone:	4152711856
Owner Name:	PORT OF OAKLAND
Owner Address:	66 JACK LONDAON SQUARE
Owner City,St,Zip:	OAKLAND, CA 94607

Tank Num:	001
Container Num:	1
Year Installed:	1978

STEVEDORING SERVICES OF AMERIC (Continued) **1000429794**

Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 2
Year Installed: 1978
Tank Capacity: 00004000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 3
Year Installed: 1978
Tank Capacity: 00000550
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Tank Construction: Not reported
Leak Detection: None

SWEEPS UST:
Status: Not reported
Comp Number: 59963
Number: Not reported
Board Of Equalization: 44-000568
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-059963-000001
Actv Date: Not reported
Capacity: 10000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: DIESEL
Number Of Tanks: 3

Status: Not reported
Comp Number: 59963
Number: Not reported
Board Of Equalization: 44-000568
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-059963-000002
Actv Date: Not reported
Capacity: 4000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED

STEVEDORING SERVICES OF AMERIC (Continued) **1000429794**

Number Of Tanks: Not reported

Status: Not reported
Comp Number: 59963
Number: Not reported
Board Of Equalization: 44-000568
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-059963-000003
Actv Date: Not reported
Capacity: 500
Tank Use: OIL
Stg: WASTE
Content: WASTE OIL
Number Of Tanks: Not reported

Status: A
Comp Number: 59963
Number: 1
Board Of Equalization: 44-000568
Ref Date: 08-31-93
Act Date: 04-29-94
Created Date: 02-29-88
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: Not reported
Actv Date: Not reported
Capacity: Not reported
Tank Use: Not reported
Stg: Not reported
Content: Not reported
Number Of Tanks: Not reported

CHMIRS:
OES Incident Number: 1962
OES notification: Not reported
OES Date: 4/28/1994
OES Time: 02:19:04 PM
Incident Date: Not reported
Date Completed: **Not reported**
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
Special Studies 1: Not reported
Special Studies 2: Not reported
Special Studies 3: Not reported
Special Studies 4: Not reported
Special Studies 5: Not reported
Special Studies 6: Not reported

STEVEDORING SERVICES OF AMERIC (Continued) **1000429794**

More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA/DOT/PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Comments: Not reported
Facility Telephone: Not reported
Waterway Involved: YES
Waterway: Not reported
Spill Site: Not reported
Cleanup By: rydal enviromental
Containment: Not reported
What Happened: Not reported
Type: CHEMICAL
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 1994
Agency: oakland fd
Incident Date: 28/1249apr94
Admin Agency: Not reported
Amount: 55gal barrel unknown amt
Contained: NO
Site Type: OTHER
E Date: Not reported
Substance: un # 3083 solvess 200 exxon product
Quantity Released: Not reported
BBLS: Not reported
Cups: Not reported
CUFT: Not reported
Gallons: Not reported
Grams: Not reported
Pounds: Not reported
Liters: Not reported
Ounces: Not reported
Pints: Not reported
Quarts: Not reported
Sheen: Not reported
Tons: Not reported
Unknown: Not reported
Evacuations: NO
Number of Injuries: NO
Number of Fatalities: NO
Description: found off the street on dock area ,sealand notified coast guard who in turned notified fd , rydal enviromental owns barrel. unknown as to how much leaked from barrel.

STEVEDORING SERVICES OF AMERIC (Continued) **1000429794**

HAZNET:
Year: 2003
Gepaid: CAD064164676
Contact: PAUL VELLA
Telephone: 5104331800
Mailing Name: Not reported
Mailing Address: ONE MARKET STREET
Mailing City,St,Zip: OAKLAND, CA 946072948
Gen County: Alameda
TSD EPA ID: CAD980887418
TSD County: Alameda
Waste Category: Waste oil and mixed oil
Disposal Method: R01
Tons: 0.79
Facility County: 1

Year: 2000
Gepaid: CAC002277681
Contact: SALVAY MINERAL
Telephone: 3078726570
Mailing Name: Not reported
Mailing Address: 3333 RICHMOND AVE
Mailing City,St,Zip: HUSTON, TX 770981027
Gen County: 1
TSD EPA ID: CAT080014079
TSD County: 7
Waste Category: Other inorganic solid waste
Disposal Method: H01
Tons: 1.0000
Facility County: 1

Year: 2000
Gepaid: CAD064164676
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 2321 W WASHINGTON ST RMH
Mailing City,St,Zip: STOCKTON, CA 952032948
Gen County: 1
TSD EPA ID: CAD028409019
TSD County: Los Angeles
Waste Category: Unspecified oil-containing waste
Disposal Method: H01
Tons: .6500
Facility County: 1

Year: 1999
Gepaid: CAD064164676
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 2321 W WASHINGTON ST RMH
Mailing City,St,Zip: STOCKTON, CA 952032948
Gen County: 1
TSD EPA ID: CAD028409019
TSD County: Los Angeles
Waste Category: Unspecified oil-containing waste

STEVEDORING SERVICES OF AMERIC (Continued) **1000429794**

Disposal Method: H01
Tons: 0.2
Facility County: 1

Year: 1999
Gepaid: CAD064164676
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 2321 W WASHINGTON ST RMH
Mailing City,St,Zip: STOCKTON, CA 952032948
Gen County: 1
TSD EPA ID: CAD028409019
TSD County: Los Angeles
Waste Category: Off-specification, aged or surplus organics
Disposal Method: T01
Tons: 0.2293
Facility County: 1

Click this hyperlink while viewing on your computer to access
10 additional CA_HAZNET: record(s) in the EDR Site Report.

80
NE
1/4-1/2
0.453 mi.
2393 ft.

UTILITY TRUCK BODIES
1530 WOOD ST
OAKLAND, CA 94607

HIST CORTESE
LUST
Alameda County CS

1001264713
N/A

Relative:
Lower

Actual:
12 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1832

LUST:
Region: STATE
Global Id: T0600101698
Latitude: 37.814239
Longitude: -122.296496
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 04/30/2002
Lead Agency: ALAMEDA COUNTY LOP
Case Worker: BC
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: 01-1832
LOC Case Number: RO0000024
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0600101698
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou

UTILITY TRUCK BODIES (Continued) **1001264713**

Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0600101698
Contact Type: Local Agency Caseworker
Contact Name: BARNEY CHAN
Organization Name: ALAMEDA COUNTY LOP
Address: 1131 HARBOR BAY PARKWAY
City: ALAMEDA
Email: Not reported
Phone Number: 5105676765

LUST:

Global Id: T0600101698
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Discovery

Global Id: T0600101698
Action Type: REMEDIATION
Date: 1950-01-01 00:00:00
Action: Excavate and Dispose

Global Id: T0600101698
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

Global Id: T0600101698
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Began

LUST REG 2:

Region: 2
Facility Id: 01-1832
Facility Status: Preliminary site assessment underway
Case Number: 3875
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: Tank
Date Leak Confirmed: 7/21/1993
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 1/2/1965
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:

Status: Case Closed

UTILITY TRUCK BODIES (Continued) **1001264713**

Record Id:	RO0000024
PE:	5602

---

81 **SSE** **1/4-1/2** **0.459 mi.** **2424 ft.**	**CYPRESS FREEWAY-3RD STREET SOUNDWALL** **3RD STREET BETWEEN CENTER AND PERALTA ST** **OAKLAND, CA 94607**	**VCP** **ENVIROSTOR**	**S106568168** **N/A**

Relative:
Lower

Actual:
12 ft.

VCP:

Facility ID:	01400012
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1.6
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	LYNN NAKASHIMA
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Site Code:	200939
Assembly:	16
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified
Status Date:	06/30/1998
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.8029 / -122.2986
APN:	NONE SPECIFIED
Past Use:	RAILROAD RIGHT OF WAY
Potential COC:	30013, 30018, 30024, 30309
Confirmed COC:	30018-NO,30024-NO,30309-NO,30013-NO
Potential Description:	SOIL
Alias Name:	CYPREES FREEWAY-3RD STREET SOUNDWALL
Alias Type:	Alternate Name
Alias Name:	CYPRESS FREEWAY/SOUNDWALL
Alias Type:	Alternate Name
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	THIRD STREET SOUNDWALL, CYPRESS FREEWAY RECONSTRUCTION PROJECT
Alias Type:	Alternate Name
Alias Name:	110033616601
Alias Type:	EPA (FRS #)
Alias Name:	200939
Alias Type:	Project Code (Site Code)
Alias Name:	01400012
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	04/02/1998
Comments:	Not reported

CYPRESS FREEWAY-3RD STREET SOUNDWALL (Continued) **S106568168**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	05/22/1997
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	04/02/1997
Comments:	Fact Sheet announcing public comment for a draft Removal Action Workplan.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/30/1998
Comments:	SITE CERTIFICATION - The Department has determined that all appropriate response actions have been completed, that all acceptable engineering practices were implemented and that no further removal/remedial action is necessary.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	1.6
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	LYNN NAKASHIMA
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Facility ID:	01400012
Site Code:	200939
Assembly:	16
Senate:	09
Special Program:	Voluntary Cleanup Program
Status:	Certified
Status Date:	06/30/1998
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED

CYPRESS FREEWAY-3RD STREET SOUNDWALL (Continued) **S106568168**

Funding: Responsible Party
Latitude: 37.8029
Longitude: -122.2986
APN: NONE SPECIFIED
Past Use: RAILROAD RIGHT OF WAY
Potential COC: 30013, 30018, 30024, 30309
Confirmed COC: 30018-NO,30024-NO,30309-NO,30013-NO
Potential Description: SOIL
Alias Name: CYPREES FREEWAY-3RD STREET SOUNDWALL
Alias Type: Alternate Name
Alias Name: CYPRESS FREEWAY/SOUNDWALL
Alias Type: Alternate Name
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: THIRD STREET SOUNDWALL, CYPRESS FREEWAY RECONSTRUCTION PROJECT
Alias Type: Alternate Name
Alias Name: 110033616601
Alias Type: EPA (FRS #)
Alias Name: 200939
Alias Type: Project Code (Site Code)
Alias Name: 01400012
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 04/02/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 05/22/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 04/02/1997
Comments: Fact Sheet announcing public comment for a draft Removal Action Workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/30/1998
Comments: SITE CERTIFICATION - The Department has determined that all appropriate response actions have been completed, that all acceptable engineering practices were implemented and that no further removal/remedial action is necessary.

CYPRESS FREEWAY-3RD STREET SOUNDWALL (Continued) **S106568168**

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

82
NW
1/4-1/2
0.469 mi.
2474 ft.

PORT OF OAKLAND - FORMER OAKLAND ARMY BASE
MARITIME STREET AND 14TH STREET
OAKLAND, CA 94607

Cortese
RESPONSE
ENVIROSTOR

S108484718
N/A

Relative:
Lower

Actual:
9 ft.

Cortese:

Region:	CORTESE
Envirostor Id:	80001200
Site/Facility Type:	STATE RESPONSE
Cleanup Status:	CERTIFIED / OPERATION & MAINTENANCE
Status Date:	6/25/2009
Site Code:	201742
Latitude:	37.814276
Longitude:	-122.306639
EPA Id:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Effective Date:	Not reported
Order No:	Not reported
Region:	Not reported
WDID:	Not reported
Swat R:	Not reported
Waste Discharger System Num:	Not reported
Solid Waste Id Num:	Not reported
Waste Management Unit Name:	Not reported
Agency Name:	Not reported

RESPONSE:

Facility ID:	80001200
Site Type:	State Response
Site Type Detail:	Closed Base
Acres:	6.76
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	HENRY WONG
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	201742
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	16
Senate:	09
Special Program Status:	Voluntary Cleanup Program
Status:	Certified / Operation & Maintenance
Status Date:	06/25/2009

PORT OF OAKLAND - FORMER OAKLAND ARMY BASE (Continued) **S108484718**

Restricted Use:	NO
Funding:	Other Non-Military Funds
Latitude:	37.814276
Longitude:	-122.306639
APN:	NONE SPECIFIED
Past Use:	DEGREASING FACILITY, OFFICE BUILDING, UNKNOWN, TRANSPORTATION - WAREHOUSING
Potential COC:	30001, 30013, 30019, 30024, 30025, 3002502
Confirmed COC:	30001,30013,30019,30024,30025,3002502
Potential Description:	OTH, SOIL
Alias Name:	201742
Alias Type:	Project Code (Site Code)
Alias Name:	71000002
Alias Type:	Envirostor ID Number
Alias Name:	80001200
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	01/28/2009
Comments:	The Port of Oakland submitted the 1/22/09 Annual Report pursuant to the Covenant to Restrict Use of Property, Environmental Restriction (LUC). Site inspection was conducted on 1/8/09 and the site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and concurred with the 1/22/09 Annual Report.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	03/29/2010
Comments:	The Port of Oakland submitted the 3/26/10 Annual Report pursuant to the "Covenant to Restrict Use of Property, Environmental Restriction" (LUC) for the Oakland United States Army Reserve Center #2, Parcel 18 and Subparcels 19 and 21, Former Oakland Army Base. DTSC conducted site inspection on 3/22/10; and the Port conducted site inspection on 3/22/10 and 3/26/10. The site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since the Port acquired the property on 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and hereby concurs with the 3/26/10 Annual Report.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	03/01/2011
Comments:	The Port of Oakland submitted the 1/6/11 Annual Report pursuant to the "Covenant to Restrict Use of Property, Environmental Restriction" (LUC) for the Oakland United States Army Reserve Center #2, Parcel 18 and Subparcels 19 and 21, Former Oakland Army Base. The Port conducted site inspection on 1/6/11 and confirmed that the site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the

PORT OF OAKLAND - FORMER OAKLAND ARMY BASE (Continued) **S108484718**

LUC had occurred since the Port acquired the property on 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and hereby concurs with the 1/6/11 Annual Report.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	03/29/2010
Comments:	The Port of Oakland submitted the 3/26/10 Annual Report pursuant to the "Covenant to Restrict Use of Property, Environmental Restriction" (LUC) for the Oakland United States Army Reserve Center #2, Parcel 18 and Subparcels 19 and 21, Former Oakland Army Base. DTSC conducted site inspection on 3/22/10; and the Port conducted site inspection on 3/22/10 and 3/26/10. The site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since the Port acquired the property on 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and hereby concurs with the 3/26/10 Annual Report.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	01/28/2009
Comments:	The Port of Oakland submitted the 1/22/09 Annual Report pursuant to the Covenant to Restrict Use of Property, Environmental Restriction (LUC). Site inspection was conducted on 1/8/09 and the site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and concurred with the 1/22/09 Annual Report.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Basewide
Schedule Sub Area Name:	Not reported
Schedule Document Type:	5 Year Review Reports
Schedule Due Date:	3/31/2012
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	State Response
Site Type Detailed:	Closed Base
Acres:	6.76
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	HENRY WONG
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	80001200
Site Code:	201742
Assembly:	16

PORT OF OAKLAND - FORMER OAKLAND ARMY BASE (Continued) **S108484718**

Senate:	09
Special Program:	Voluntary Cleanup Program
Status:	Certified / Operation & Maintenance
Status Date:	06/25/2009
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Other Non-Military Funds
Latitude:	37.814276
Longitude:	-122.306639
APN:	NONE SPECIFIED
Past Use:	DEGREASING FACILITY, OFFICE BUILDING, UNKNOWN, TRANSPORTATION - WAREHOUSING
Potential COC:	30001, 30013, 30019, 30024, 30025, 3002502
Confirmed COC:	30001,30013,30019,30024,30025,3002502
Potential Description:	OTH, SOIL
Alias Name:	201742
Alias Type:	Project Code (Site Code)
Alias Name:	71000002
Alias Type:	Envirostor ID Number
Alias Name:	80001200
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	01/28/2009
Comments:	The Port of Oakland submitted the 1/22/09 Annual Report pursuant to the Covenant to Restrict Use of Property, Environmental Restriction (LUC). Site inspection was conducted on 1/8/09 and the site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and concurred with the 1/22/09 Annual Report.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	03/29/2010
Comments:	The Port of Oakland submitted the 3/26/10 Annual Report pursuant to the "Covenant to Restrict Use of Property, Environmental Restriction" (LUC) for the Oakland United States Army Reserve Center #2, Parcel 18 and Subparcels 19 and 21, Former Oakland Army Base. DTSC conducted site inspection on 3/22/10; and the Port conducted site inspection on 3/22/10 and 3/26/10. The site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since the Port acquired the property on 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and hereby concurs with the 3/26/10 Annual Report.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	03/01/2011
Comments:	The Port of Oakland submitted the 1/6/11 Annual Report pursuant to the "Covenant to Restrict Use of Property, Environmental Restriction"

PORT OF OAKLAND - FORMER OAKLAND ARMY BASE (Continued) **S108484718**

(LUC) for the Oakland United States Army Reserve Center #2, Parcel 18 and Subparcels 19 and 21, Former Oakland Army Base. The Port conducted site inspection on 1/6/11 and confirmed that the site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since the Port acquired the property on 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and hereby concurs with the 1/6/11 Annual Report.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 03/29/2010
Comments: The Port of Oakland submitted the 3/26/10 Annual Report pursuant to the "Covenant to Restrict Use of Property, Environmental Restriction" (LUC) for the Oakland United States Army Reserve Center #2, Parcel 18 and Subparcels 19 and 21, Former Oakland Army Base. DTSC conducted site inspection on 3/22/10; and the Port conducted site inspection on 3/22/10 and 3/26/10. The site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since the Port acquired the property on 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and hereby concurs with the 3/26/10 Annual Report.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 01/28/2009
Comments: The Port of Oakland submitted the 1/22/09 Annual Report pursuant to the Covenant to Restrict Use of Property, Environmental Restriction (LUC). Site inspection was conducted on 1/8/09 and the site was in full compliance with the LUC, Sections 4.01(a) through 4.01(d). The Port reported that no dewatering activities or violations of the LUC had occurred since 6/29/07. The Port certified and attested to full compliance with the terms and conditions of the LUC. DTSC has reviewed and concurred with the 1/22/09 Annual Report.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Basewide
Schedule Sub Area Name: Not reported
Schedule Document Type: 5 Year Review Reports
Schedule Due Date: 3/31/2012
Schedule Revised Date: Not reported

83
SE
1/4-1/2
0.471 mi.
2487 ft.

RELIABLE HANDI CAR
1520 7TH
OAKLAND, CA 94607

HIST CORTESE
LUST
Alameda County CS

U003713129
N/A

Relative:
Equal

Actual:
14 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1234

LUST:
Region: STATE
Global Id: T0600101133
Latitude: 37.80587
Longitude: -122.296286
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 06/14/1995
Lead Agency: ALAMEDA COUNTY LOP
Case Worker: EC
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: 01-1234
LOC Case Number: RO0001137
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0600101133
Contact Type: Local Agency Caseworker
Contact Name: EVA CHU
Organization Name: ALAMEDA COUNTY LOP
Address: 1131 HARBOR BAY PARKWAY
City: ALAMEDA
Email: Not reported
Phone Number: 5105676762

Global Id: T0600101133
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0600101133
Action Type: REMEDIATION
Date: 1950-01-01 00:00:00
Action: Excavate and Dispose

Global Id: T0600101133
Action Type: Other

RELIABLE HANDI CAR (Continued) **U003713129**

Date: 1950-01-01 00:00:00
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: 01-1234
Facility Status: Case Closed
Case Number: 3703
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 3/5/1992
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Case Closed
Record Id: RO0001137
PE: 5602

Z84
ENE
1/4-1/2
0.489 mi.
2580 ft.

BASF CORPORATION
1545 WILLOW
OAKLAND, CA 94607

Site 1 of 4 in cluster Z

HIST CORTESE

S101629611
N/A

Relative:
Lower

Actual:
12 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0152

Z85
ENE
1/4-1/2
0.489 mi.
2580 ft.

BASF CORPORATION
1545 WILLOW ST
OAKLAND, CA 94607

Site 2 of 4 in cluster Z

RCRA-NonGen
FINDS
LUST
Alameda County CS

1000226859
CAD009122912

Relative:
Lower

Actual:
12 ft.

RCRA-NonGen:
Date form received by agency: 10/15/1999
Facility name: BASF CORPORATION
Facility address: 1545 WILLOW ST
OAKLAND, CA 94607
EPA ID: CAD009122912
Mailing address: P O BOX 23344
OAKLAND, CA 94607
Contact: JENNIFER INFANTINO
Contact address: 3000 N CONTINENTAL DR
MT OLIVE, NJ 178281234

BASF CORPORATION (Continued) **1000226859**

Contact country:	US
Contact telephone:	(973) 426-2600
Contact email:	Not reported
EPA Region:	09
Land type:	Other land type
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	BASF CORPORATION
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	09/01/1996
Facility name:	BASF CORPORATION
Classification:	Small Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 10/29/1992

BASF CORPORATION (Continued) **1000226859**

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 02/25/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

FINDS:

Registry ID: 110009528957

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

LUST:
Region: STATE
Global Id: T0600100141
Latitude: 37.81382
Longitude: -122.296089
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 11/04/1994
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker: CCM
Local Agency: Not reported
RB Case Number: 01-0152
LOC Case Number: 01-0152
File Location: Not reported
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: * Solvents
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0600100141
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0600100141
Action Type: Other

BASF CORPORATION (Continued) **1000226859**

Date: 1950-01-01 00:00:00
Action: Leak Reported

Global Id: T0600100141
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Discovery

Global Id: T0600100141
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Stopped

Global Id: T0600100141
Action Type: ENFORCEMENT
Date: 1994-11-04 00:00:00
Action: Closure/No Further Action Letter

LUST REG 2:
Region: 2
Facility Id: 01-0152
Facility Status: Case Closed
Case Number: 01-0152
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Case Closed
Record Id: RO0002956
PE: 5602

Z86 **BASF CORPORATION** **ENVIROSTOR** **S108054495**
ENE **1545 WILLOW STREET** **N/A**
1/4-1/2 **OAKLAND, CA 94607**
0.489 mi.
2580 ft. **Site 3 of 4 in cluster Z**

Relative:
Lower

Actual:
12 ft.

ENVIROSTOR:
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 1
NPL: NO
Regulatory Agencies: RWQCB 2 - San Francisco Bay, ALAMEDA COUNTY
Lead Agency: RWQCB 2 - San Francisco Bay
Program Manager: REMEDIOS SUNGA
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley

BASF CORPORATION (Continued) **S108054495**

Facility ID: 60000360
Site Code: Not reported
Assembly: 16
Senate: 09
Special Program: EPA - PASI
Status: Refer: RWQCB
Status Date: 03/27/2007
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: EPA Grant
Latitude: 37.8138184544349
Longitude: -122.296079380333
APN: 7-556-2
Past Use: MANUFACTURING - OTHER
Potential COC: 30024, 30025, 30028, 30195, 30196
Confirmed COC: 30024,30025,30028,30195,30196
Potential Description: OTH, SOIL
Alias Name: 7-556-2
Alias Type: APN
Alias Name: SLT19763584
Alias Type: GeoTracker Global ID
Alias Name: T0600100141
Alias Type: GeoTracker Global ID
Alias Name: 60000360
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 03/27/2007
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Z87 **BASF CORPORATION** **LUST** **S108997019**
ENE **1545 WILLOW** **N/A**
1/4-1/2 **OAKLAND, CA 94607**
0.489 mi.
2580 ft. **Site 4 of 4 in cluster Z**

Relative:
Lower

Actual:
12 ft.

LUST:
Region: STATE
Global Id: SLT19763584
Latitude: 37.813624
Longitude: -122.295792
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 11/04/1994
Lead Agency: ALAMEDA COUNTY LOP

BASF CORPORATION (Continued) **S108997019**

Case Worker: ML
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: NA
LOC Case Number: RO0002956
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: * Solvents
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: SLT19763584
Contact Type: Local Agency Caseworker
Contact Name: MADHULLA LOGAN
Organization Name: ALAMEDA COUNTY LOP
Address: 1131 HARBOR BAY PARKWAY
City: ALAMEDA
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: SLT19763584
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

Global Id: SLT19763584
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Discovery

88
West
1/2-1
0.501 mi.
2647 ft.

FORMER PAKER WAREHOUSE
801 MARITIME
OAKLAND, CA 92626

HIST CORTESE
LUST
Notify 65

S100178945
N/A

Relative:
Lower

Actual:
8 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1199

LUST:
Region: STATE
Global Id: T0600101102
Latitude: 37.810178
Longitude: -122.313262
Case Type: LUST Cleanup Site
Status: Open - Site Assessment
Status Date: 07/15/1996
Lead Agency: ALAMEDA COUNTY LOP
Case Worker: PK
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: 01-1199

FORMER PAKER WAREHOUSE (Continued) **S100178945**

LOC Case Number:	RO0000019
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel
Site History:	Three USTs and approximately 120 linear feet of piping were removed from the site on February 16, 1989. The tank pit was over-excavated with approximately 1,500 cubic yards of soil treated onsite removed from the excavation. One groundwater monitoring well was installed at the site in July 1996. Additional site investigations were in conducted in 2007 and 2008.

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0600101102
Contact Type:	Local Agency Caseworker
Contact Name:	PARESH KHATRI
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	Not reported
Phone Number:	5107772478

Global Id:	T0600101102
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0600101102
Action Type:	RESPONSE
Date:	2010-08-23 00:00:00
Action:	Fact Sheets - Public Participation

Global Id:	T0600101102
Action Type:	RESPONSE
Date:	2010-10-25 00:00:00
Action:	Well Destruction Report

Global Id:	T0600101102
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Discovery

Global Id:	T0600101102
Action Type:	ENFORCEMENT
Date:	2010-07-22 00:00:00
Action:	Staff Letter - #20100722

Global Id:	T0600101102
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Stopped

FORMER PAKER WAREHOUSE (Continued) **S100178945**

Global Id: T0600101102
Action Type: REMEDIATION
Date: 1950-01-01 00:00:00
Action: Excavate and Treat

Global Id: T0600101102
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

Global Id: T0600101102
Action Type: ENFORCEMENT
Date: 2009-07-24 00:00:00
Action: Staff Letter - #20090724

Global Id: T0600101102
Action Type: ENFORCEMENT
Date: 2008-07-28 00:00:00
Action: Technical Correspondence / Assistance / Other - #07/28/2008

LUST REG 2:
Region: 2
Facility Id: 01-1199
Facility Status: Post remedial action monitoring
Case Number: 3780
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: 4/21/1989
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: 3/20/1992

Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 92626

---

89 **SE** **1/2-1** **0.544 mi.** **2870 ft.**	**WEST OAKLAND BART STATION SITE** **1451 7TH STREET** **OAKLAND, CA 94607**	**ENVIROSTOR**	**S107737601** **N/A**

Relative:
Equal

Actual:
14 ft.

ENVIROSTOR:
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 3.5
NPL: NO

WEST OAKLAND BART STATION SITE (Continued) **S107737601**

Regulatory Agencies: SMBRP, US EPA
Lead Agency: SMBRP
Program Manager: KATHARINE HILF
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 70000133
Site Code: 201636
Assembly: 16
Senate: 09
Special Program: EPA - Target Site Investigation
Status: Refer: Local Agency
Status Date: 10/15/2007
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: EPA Grant
Latitude: 37.8045574352606
Longitude: -122.29450705582
APN: 004-0071-003-00, 004-0077-003-00
Past Use: UNKNOWN
Potential COC: 31001
Confirmed COC: NONE SPECIFIED
Potential Description: UE
Alias Name: West Oakland BART Parking Lot
Alias Type: Alternate Name
Alias Name: 004-0071-003-00
Alias Type: APN
Alias Name: 004-0077-003-00
Alias Type: APN
Alias Name: 201636
Alias Type: Project Code (Site Code)
Alias Name: 70000133
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 04/16/2007
Comments: EPA letter dated April 2,2007 states that all concerns and comments have been adequately addresses by the current revision. The document(Sampling and Analysis Plan) is approved by EPA QA Office.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 05/06/2007
Comments: Sampled April 28, 29 and May 6, 2007. Fieldwork completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 10/15/2007
Comments: Report concluded that some contamination exists on site under the parking lot. Petroleum hydrocarbons in the form of diesel and motor oil, arsenic above background, lead, pcbs, and gasoline in one groundwater sample were found above screening levels.

Completed Area Name: PROJECT WIDE

WEST OAKLAND BART STATION SITE (Continued) **S107737601**

Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/28/2006
Comments: Contract issued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/13/2006
Comments: Approved as amended.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 05/09/2006
Comments: Phase I report for the West Oakland BART Station done by Levine Fricke for the City of Oakland. Not reviewed or approved by DTSC. Submitted as background information for the site.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

AA90 **SP, W.OAKLAND YD.-(OILY WASTE)** **Toxic Pits** **S100676226**
NE **1707 WOOD STREET** **N/A**
1/2-1 **OAKLAND, CA 94607**
0.549 mi.
2899 ft. **Site 1 of 4 in cluster AA**

Relative:
Lower

Actual:
11 ft.

Toxic Pits:
Region: 02
Task #: 82010
Owner: SOUTHERN PACIFIC TRANS. CO.
1/2 Mi Limit: Y
Num. of Pits: 4
Cease Discharge Due: 09/02/92
Cease Discharge Complete: / /
Closure Due: 09/02/92
Closure Completed: 04/21/93
Status: CLOSED
Hydro Geological Assessment Report Due: / /
Final Hydro Geological Assessment Review Completed: / /

AA91
NE
1/2-1
0.549 mi.
2899 ft.

SP, W.OAKLAND YARD-(WASHWATER)
1707 WOOD STREET
OAKLAND, CA 94607

Site 2 of 4 in cluster AA

Toxic Pits

S100676234
N/A

Relative:
Lower

Actual:
11 ft.

Toxic Pits:
Region: 02
Task #: 82034
Owner: SOUTHERN PACIFIC TRANS. CO.
1/2 Mi Limit: Y
Num. of Pits: 2
Cease Discharge Due: / /
Cease Discharge Complete: 01/16/88
Closure Due: 09/30/90
Closure Completed: 06/30/92
Status: CLOSED
Hydro Geological Assessment Report Due: / /
Final Hydro Geological Assessment Review Completed: 10/17/89

AA92
NE
1/2-1
0.549 mi.
2899 ft.

SOUTHERN PACIFIC TRANSPORTATION CO
1707 WOOD ST
OAKLAND, CA 94607

Site 3 of 4 in cluster AA

FTTS
HIST FTTS
FINDS
SLIC
RESPONSE
ENVIROSTOR

1004444105
N/A

Relative:
Lower

Actual:
11 ft.

FTTS INSP:
Inspection Number: 1989042600991 1
Region: 09
Inspection Date: 04/26/89
Inspector: ELLISON
Violation occurred: No
Investigation Type: Section 6 PCB Federal Conducted
Investigation Reason: Neutral Scheme, Region
Legislation Code: TSCA
Facility Function: User

HIST FTTS INSP:
Inspection Number: 1989042600991 1
Region: 09
Inspection Date: Not reported
Inspector: ELLISON
Violation occurred: No
Investigation Type: Section 6 PCB Federal Conducted
Investigation Reason: Neutral Scheme, Region
Legislation Code: TSCA
Facility Function: User

FINDS:

Registry ID: 110011658009

Environmental Interest/Information System

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in

SOUTHERN PACIFIC TRANSPORTATION CO (Continued) **1004444105**

regions and states with cooperative agreements, enforcement actions, and settlements.

SLIC:
Region: STATE
Facility Status: **Open - Inactive**
Status Date: 06/04/2009
Global Id: SLT2O193296
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.815374
Longitude: -122.294967
Case Type: Cleanup Program Site
Case Worker: UUU
Local Agency: Not reported
RB Case Number: SLT2O193296
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

SLIC:
Region: 2
Facility ID: SLT2O193296
Facility Status: Leak being confirmed
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

RESPONSE:
Facility ID: 01400001
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: 29.2
National Priorities List: NO
Cleanup Oversight Agencies: RWQCB 2 - San Francisco Bay
Lead Agency: RWQCB 2 - San Francisco Bay
Lead Agency Description: Not reported
Project Manager: Not reported
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Site Code: Not reported
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 16

SOUTHERN PACIFIC TRANSPORTATION CO (Continued) **1004444105**

Senate: 09
Special Program Status: Designation of Single Agency
Status: Refer: RWQCB
Status Date: 04/17/2001
Restricted Use: NO
Funding: Not reported
Latitude: 37.8166624510699
Longitude: -122.295837584947
APN: 0-310-14, 0-310-3-10, 0-310-3-11, 0-310-3-9, 0-310-5, 0-310-7, 0-310-8, 0-315-4, 0310-3-8, 6-29-1, 7-556-10-1, O-310-7-7
Past Use: FOUNDRY, MANUFACTURING - LUMBER/WOOD PRODUCTS, RAIL ROAD MAINTENANCE SHOP, VEHICLE MAINTENANCE
Potential COC: 10009, 10015, 10060, 10064, 10067, 10097, 10177, 10197, 10199, 20011, 30001, 30013, 30018
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: Central Station
Alias Type: Alternate Name
Alias Name: Central Station Land, Inc.
Alias Type: Alternate Name
Alias Name: SOUTHERN PACIFIC TRANSPORTATION COMPANY
Alias Type: Alternate Name
Alias Name: WEST OAKLAND YARD
Alias Type: Alternate Name
Alias Name: 0-310-14
Alias Type: APN
Alias Name: 0-310-3-10
Alias Type: APN
Alias Name: 0-310-3-11
Alias Type: APN
Alias Name: 0-310-3-9
Alias Type: APN
Alias Name: 0-310-5
Alias Type: APN
Alias Name: 0-310-7
Alias Type: APN
Alias Name: 0-310-8
Alias Type: APN
Alias Name: 0-315-4
Alias Type: APN
Alias Name: 0310-3-8
Alias Type: APN
Alias Name: 6-29-1
Alias Type: APN
Alias Name: 7-556-10-1
Alias Type: APN
Alias Name: O-310-7-7
Alias Type: APN
Alias Name: SLT2O193296
Alias Type: GeoTracker Global ID
Alias Name: 01400001
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 06/30/1987

SOUTHERN PACIFIC TRANSPORTATION CO (Continued) **1004444105**

Comments: Preliminary Assessment for Southern Pacific Oakland for 7th and Bay (BAY). Preliminary Assessment done. SFRWQCB is lead agency at site. Unranked BEP site. Mitre Model REQ. 2 surface IMP-OIL/water contamination at these area PCB. Sludge pond-migrated off-site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 03/25/1987
Comments: SITE SCREENING DONE MITRE MODEL REQ. PA REQ. RAILYARD.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: AB 2061 - Designation
Completed Date: 04/17/2001
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 29.2
NPL: NO
Regulatory Agencies: RWQCB 2 - San Francisco Bay
Lead Agency: RWQCB 2 - San Francisco Bay
Program Manager: Not reported
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Facility ID: 01400001
Site Code: Not reported
Assembly: 16
Senate: 09
Special Program: Designation of Single Agency
Status: Refer: RWQCB
Status Date: 04/17/2001
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 37.8166624510699
Longitude: -122.295837584947
APN: 0-310-14, 0-310-3-10, 0-310-3-11, 0-310-3-9, 0-310-5, 0-310-7, 0-310-8, 0-315-4, 0310-3-8, 6-29-1, 7-556-10-1, O-310-7-7
Past Use: FOUNDRY, MANUFACTURING - LUMBER/WOOD PRODUCTS, RAIL ROAD MAINTENANCE SHOP, VEHICLE MAINTENANCE
Potential COC: 10009, 10015, 10060, 10064, 10067, 10097, 10177, 10197, 10199, 20011, 30001, 30013, 30018
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED

SOUTHERN PACIFIC TRANSPORTATION CO (Continued) **1004444105**

Alias Name: Central Station
Alias Type: Alternate Name
Alias Name: Central Station Land, Inc.
Alias Type: Alternate Name
Alias Name: SOUTHERN PACIFIC TRANSPORTATION COMPANY
Alias Type: Alternate Name
Alias Name: WEST OAKLAND YARD
Alias Type: Alternate Name
Alias Name: 0-310-14
Alias Type: APN
Alias Name: 0-310-3-10
Alias Type: APN
Alias Name: 0-310-3-11
Alias Type: APN
Alias Name: 0-310-3-9
Alias Type: APN
Alias Name: 0-310-5
Alias Type: APN
Alias Name: 0-310-7
Alias Type: APN
Alias Name: 0-310-8
Alias Type: APN
Alias Name: 0-315-4
Alias Type: APN
Alias Name: 0310-3-8
Alias Type: APN
Alias Name: 6-29-1
Alias Type: APN
Alias Name: 7-556-10-1
Alias Type: APN
Alias Name: O-310-7-7
Alias Type: APN
Alias Name: SLT2O193296
Alias Type: GeoTracker Global ID
Alias Name: 01400001
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 06/30/1987
Comments: Preliminary Assessment for Southern Pacific Oakland for 7th and Bay (BAY). Preliminary Assessment done. SFRWQCB is lead agency at site. Unranked BEP site. Mitre Model REQ. 2 surface IMP-OIL/water contamination at these area PCB. Sludge pond-migrated off-site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 03/25/1987
Comments: SITE SCREENING DONE MITRE MODEL REQ. PA REQ. RAILYARD.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: AB 2061 - Designation
Completed Date: 04/17/2001
Comments: Not reported

SOUTHERN PACIFIC TRANSPORTATION CO (Continued) **1004444105**

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

AA93
NE
1/2-1
0.549 mi.
2899 ft.

SOUTHERN PACIFIC TRANSPORTATION CO. OAKLAND **CA BOND EXP. PLAN** **S100833473**
1707 WOOD STREET **N/A**
OAKLAND, CA 94607

Site 4 of 4 in cluster AA

Relative:
Lower

Actual:
11 ft.

CA BOND EXP. PLAN:

Reponsible Party:	RWQCB REFERRAL SITE
Project Revenue Source Company:	Not reported
Project Revenue Source Addr:	Not reported
Project Revenue Source City,St,Zip:	Not reported
Project Revenue Source Desc:	The responsible parties will pay all costs associated with remedial investigations and cleanup activities under RWQCB oversight. There are no plans to utilize Bond funds for this site.
Site Description:	Southern Pacific, Oakland, is a large railyard, switching and maintenance facility located between the Outer Harbor and Inner Harbor of San Francisco Bay. The site includes two surface impoundments which are separated by approximately a one-half mile distance: an oil/water separator system for waste waters from the cleaning of rail cars and an inactive waste pond for wash waters from the interiors of tank cars (referred to as polychlorinated biphenyl (PCB) sludge pond). There is soil and groundwater contamination at each of the surface impoundment areas.
Hazardous Waste Desc:	This site has been contaminated by PCBs, polynuclear aromatics (PNAs), benzene, toluene, xylene, ethylbenzene, waste oils, solvents such as trichloroethylene (TCE) and dichloroethylene (DCE) and heavy metals such as lead and arsenic. Shallow ground water is contaminated by solvents.
Threat To Public Health & Env:	The waste impoundment area is fenced; however, direct contact would present a potential health threat. This site is located within one mile of the San Francisco Bay; a drainage ditch is underneath the site. Potential for migration of contaminants tothe Bay is low. Solvents are known to have migrated offsite (at least 200 feet from the site at 3-foot depth) and to shallow ground water. There are no known domestic wells within three miles of the site.
Site Activity Status:	Southern Pacific submitted a draft RAP to the RWQCB and DHS in April, 1988. The RWQCB has determined the RAP to be unacceptable and is requiring additional hydrogeologic and site characterization.

94
SSE
1/2-1
0.554 mi.
2923 ft.

1536 THIRD STREET **ENVIROSTOR** **S102860819**
1536 THIRD STREET **N/A**
OAKLAND, CA 94607

Relative:
Lower

Actual:
11 ft.

ENVIROSTOR:

Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	Not reported

1536 THIRD STREET (Continued) **S102860819**

NPL:	NO
Regulatory Agencies:	ALAMEDA COUNTY, CITY OF OAKLAND
Lead Agency:	CITY OF OAKLAND
Program Manager:	LYNN NAKASHIMA
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Facility ID:	01880003
Site Code:	201024
Assembly:	16
Senate:	09
Special Program:	Not reported
Status:	Refer: Other Agency
Status Date:	08/31/1998
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.8028102386106
Longitude:	-122.297927524996
APN:	O-392-13
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	1536 HENRY STREET
Alias Type:	Alternate Name
Alias Name:	O-392-13
Alias Type:	APN
Alias Name:	110009266793
Alias Type:	EPA (FRS #)
Alias Name:	201024
Alias Type:	Project Code (Site Code)
Alias Name:	01880003
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

95 **ENE** **1/2-1** **0.564 mi.** **2976 ft.**	**RELIANCE UPHOLSTERY SUPPLY** **1614 CAMPBELL STREET** **OAKLAND, CA 94607**	**VCP** **ENVIROSTOR**	**S107737143** **N/A**

Relative:
Lower

Actual:
12 ft.

VCP:

Facility ID:	70000082
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1.45
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	ALLAN FONE
Supervisor:	Daniel Murphy
Division Branch:	Cleanup Berkeley
Site Code:	201876
Assembly:	16
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified
Status Date:	03/09/2011
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.8134481343426 / -122.293408089876
APN:	007-0560-001-02, 7-560-1-2
Past Use:	MANUFACTURING - OTHER
Potential COC:	30024, 30025, 3002502
Confirmed COC:	30024,30025,3002502
Potential Description:	OTH, SOIL
Alias Name:	Greitzer Parcel
Alias Type:	Alternate Name
Alias Name:	Greitzer Property
Alias Type:	Alternate Name
Alias Name:	007-0560-001-02
Alias Type:	APN
Alias Name:	7-560-1-2
Alias Type:	APN
Alias Name:	110002920876
Alias Type:	EPA (FRS #)
Alias Name:	201619
Alias Type:	Project Code (Site Code)
Alias Name:	201876
Alias Type:	Project Code (Site Code)
Alias Name:	70000082
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	07/15/2008
Comments:	Second Amendament to Voluntary Cleanup Agreement fully executed on 7/15/08 and mailed to Responsible Parties.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

RELIANCE UPHOLSTERY SUPPLY (Continued) **S107737143**

Completed Document Type: Certification
Completed Date: 03/09/2011
Comments: Certification of Remdiation Action completed 3/9/2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 07/30/2008
Comments: Based on comments received on draft RAW and draft Notice of Exemption (NOE), no changes are needed. NOE approved 7/30/08.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 06/27/2006
Comments: Review of Final RI Workplan completed and approved. Approval letter sent 6/27/06.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/10/2006
Comments: RI fieldwork started 7/5/2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 08/08/2007
Comments: Final DTSC letter accepting remedial investigation (RI) mailed 8/8/07. Complete RI report consists of Report of Remedial Investigation (dated 8-7-06) and Report of Addtional Remedial Investigation Activities (dated 6-22-7). DTSC letter requested submittal of draft Remvoal Action Workplan by 9/7/07 and comments on updated draft VCA amendment by 8/23/07.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Health & Safety Plan
Completed Date: 07/05/2006
Comments: Revised site specific health and safety plan received by email 6/30/2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 04/03/2007
Comments: Community profile OK’d by supervisor and approved by PPS 4/3/07.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 07/31/2008
Comments: RAW approved 7/30/08. Approval letter sent to project proponent 7/31/08. RAW to be finalized and submitted to DTSC and West Oakland Library.

Completed Area Name: PROJECT WIDE

RELIANCE UPHOLSTERY SUPPLY (Continued) **S107737143**

Completed Sub Area Name:	Not reported
Completed Document Type:	Letter - Demand
Completed Date:	07/15/2010
Comments:	Letter from DTSC Office of Legal Counsel to Market Holdings, LLC regarding 10 past due invoices.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Letter - Demand
Completed Date:	01/25/2011
Comments:	Demand letters to Market Holdings LLC and 1614 Campbell St LLC. Responsible parties previous made payments, but balances are still due.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Letter - Demand
Completed Date:	10/21/2009
Comments:	Letters sent to RPs on 10/21/2009.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	10/19/2007
Comments:	First Amendment to VCA executed on 10/19/07.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	05/23/2008
Comments:	Fact sheet approved 5/23/08
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	05/15/2008
Comments:	Public Notice finished and approved 5/15/08.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	10/22/2010
Comments:	Removal action completed on 10/22/2010.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	03/09/2011
Comments:	Removal Action Completion Report approved 3/9/11.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	01/10/2006
Comments:	VCA fully executed 1/10/2006. Scope of work is document review and RI/FS.

RELIANCE UPHOLSTERY SUPPLY (Continued) **S107737143**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/13/2009
Comments: Annual update letter revised and mailed out 8/13/2009.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 1.45
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: ALLAN FONE
Supervisor: Daniel Murphy
Division Branch: Cleanup Berkeley
Facility ID: 70000082
Site Code: 201876
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program
Status: Certified
Status Date: 03/09/2011
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8134481343426
Longitude: -122.293408089876
APN: 007-0560-001-02, 7-560-1-2
Past Use: MANUFACTURING - OTHER
Potential COC: 30024, 30025, 3002502
Confirmed COC: 30024,30025,3002502
Potential Description: OTH, SOIL
Alias Name: Greitzer Parcel
Alias Type: Alternate Name
Alias Name: Greitzer Property
Alias Type: Alternate Name
Alias Name: 007-0560-001-02
Alias Type: APN
Alias Name: 7-560-1-2
Alias Type: APN
Alias Name: 110002920876
Alias Type: EPA (FRS #)
Alias Name: 201619
Alias Type: Project Code (Site Code)
Alias Name: 201876
Alias Type: Project Code (Site Code)

RELIANCE UPHOLSTERY SUPPLY (Continued) **S107737143**

Alias Name:	70000082
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	07/15/2008
Comments:	Second Amendament to Voluntary Cleanup Agreement fully executed on 7/15/08 and mailed to Responsible Parties.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	03/09/2011
Comments:	Certification of Remdiation Action completed 3/9/2011.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	07/30/2008
Comments:	Based on comments received on draft RAW and draft Notice of Exemption (NOE), no changes are needed. NOE approved 7/30/08.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Workplan
Completed Date:	06/27/2006
Comments:	Review of Final RI Workplan completed and approved. Approval letter sent 6/27/06.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	07/10/2006
Comments:	RI fieldwork started 7/5/2006.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	08/08/2007
Comments:	Final DTSC letter accepting remedial investigation (RI) mailed 8/8/07. Complete RI report consists of Report of Remedial Investigation (dated 8-7-06) and Report of Addtional Remedial Investigation Activities (dated 6-22-7). DTSC letter requested submittal of draft Remvoal Action Workplan by 9/7/07 and comments on updated draft VCA amendment by 8/23/07.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Health & Safety Plan
Completed Date:	07/05/2006
Comments:	Revised site specific health and safety plan received by email 6/30/2006.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Community Profile

RELIANCE UPHOLSTERY SUPPLY (Continued) **S107737143**

Completed Date:	04/03/2007
Comments:	Community profile OK'd by supervisor and approved by PPS 4/3/07.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	07/31/2008
Comments:	RAW approved 7/30/08. Approval letter sent to project proponent 7/31/08. RAW to be finalized and submitted to DTSC and West Oakland Library.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Letter - Demand
Completed Date:	07/15/2010
Comments:	Letter from DTSC Office of Legal Counsel to Market Holdings, LLC regarding 10 past due invoices.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Letter - Demand
Completed Date:	01/25/2011
Comments:	Demand letters to Market Holdings LLC and 1614 Campbell St LLC. Responsible parties previous made payments, but balances are still due.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Letter - Demand
Completed Date:	10/21/2009
Comments:	Letters sent to RPs on 10/21/2009.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	10/19/2007
Comments:	First Amendment to VCA executed on 10/19/07.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	05/23/2008
Comments:	Fact sheet approved 5/23/08

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	05/15/2008
Comments:	Public Notice finished and approved 5/15/08.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	10/22/2010
Comments:	Removal action completed on 10/22/2010.

Completed Area Name:	PROJECT WIDE

RELIANCE UPHOLSTERY SUPPLY (Continued) **S107737143**

Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 03/09/2011
Comments: Removal Action Completion Report approved 3/9/11.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 01/10/2006
Comments: VCA fully executed 1/10/2006. Scope of work is document review and RI/FS.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/13/2009
Comments: Annual update letter revised and mailed out 8/13/2009.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

96
East
1/2-1
0.577 mi.
3048 ft.

NEW OAKLAND FIRE STATION #3
CENTER AND 14TH STREET
OAKLAND, CA 94607

VCP **S102008272**
ENVIROSTOR **N/A**

Relative:
Higher

Actual:
17 ft.

VCP:
Facility ID: 01920063
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 0.9
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: LYNN NAKASHIMA
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Site Code: 200498
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified
Status Date: 12/28/1994
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.8111111111111 / -122.293055555556
APN: NONE SPECIFIED
Past Use: UNKNOWN

NEW OAKLAND FIRE STATION #3 (Continued) **S102008272**

Potential COC:	10097, 30013, 3002502
Confirmed COC:	30013,10097,3002502
Potential Description:	SOIL
Alias Name:	CYPRESS FREEWAY/FIRE STATION
Alias Type:	Alternate Name
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	NEW FIRE STATION #3
Alias Type:	Alternate Name
Alias Name:	110033611759
Alias Type:	EPA (FRS #)
Alias Name:	200498
Alias Type:	Project Code (Site Code)
Alias Name:	01920063
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	12/28/1994
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	12/28/1994
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	11/18/1992
Comments:	Completed Site Screening. Prior to construction of the new Oakland Fire House #3, Caltrans and the City of Oakland conducted an investigation of the Site. The investigation showed elevated levels of metals, petroleum hydrocarbons and cyanide in the fill material.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	12/28/1994
Comments:	Completed RA. Certified Site. Removal action consisted of excavation and off-haul of contaminated soil. Approximately 4500 cubic yards of material was removed. The site was backfilled with soil and baserock.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	Signed VCA.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Voluntary Cleanup Agreement Completion
Completed Date:	12/28/1994
Comments:	Not reported

NEW OAKLAND FIRE STATION #3 (Continued) **S102008272**

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 0.9
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: LYNN NAKASHIMA
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Facility ID: 01920063
Site Code: 200498
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program
Status: Certified
Status Date: 12/28/1994
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8111111111111
Longitude: -122.293055555556
APN: NONE SPECIFIED
Past Use: UNKNOWN
Potential COC: 10097, 30013, 3002502
Confirmed COC: 30013,10097,3002502
Potential Description: SOIL
Alias Name: CYPRESS FREEWAY/FIRE STATION
Alias Type: Alternate Name
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: NEW FIRE STATION #3
Alias Type: Alternate Name
Alias Name: 110033611759
Alias Type: EPA (FRS #)
Alias Name: 200498
Alias Type: Project Code (Site Code)
Alias Name: 01920063
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 12/28/1994
Comments: Not reported

NEW OAKLAND FIRE STATION #3 (Continued) **S102008272**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/28/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 11/18/1992
Comments: Completed Site Screening. Prior to construction of the new Oakland Fire House #3, Caltrans and the City of Oakland conducted an investigation of the Site. The investigation showed elevated levels of metals, petroleum hydrocarbons and cyanide in the fill material.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 12/28/1994
Comments: Completed RA. Certified Site. Removal action consisted of excavation and off-haul of contaminated soil. Approximately 4500 cubic yards of material was removed. The site was backfilled with soil and baserock.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: Signed VCA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Voluntary Cleanup Agreement Completion
Completed Date: 12/28/1994
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

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97 **MANNYSERVICES/MCKINNEY GAS** **ENVIROSTOR** **S102860814**
ENE **1600 PERALTA** **N/A**
1/2-1 **OAKLAND, CA 94607**
0.608 mi.
3211 ft.

Relative:
Lower

Actual:
13 ft.

ENVIROSTOR:
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: US EPA
Lead Agency: NONE SPECIFIED

MANNYSERVICES/MCKINNEY GAS (Continued) **S102860814**

Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Berkeley
Facility ID:	01750027
Site Code:	Not reported
Assembly:	16
Senate:	09
Special Program:	Not reported
Status:	Refer: Other Agency
Status Date:	10/02/1997
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.8128467042435
Longitude:	-122.292538770904
APN:	5-396-3
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	5-396-3
Alias Type:	APN
Alias Name:	01750027
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

98
North
1/2-1
0.634 mi.
3346 ft.

SEA-LAND SERVICE, INC.
1425 MARITIME STREET
OAKLAND, CA 92626

Notify 65 **S100179003**
EMI **N/A**

Relative:
Lower

Actual:
8 ft.

Notify 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Incident Description:	92626

EMI:

Year:	2002

SEA-LAND SERVICE, INC. (Continued) **S100179003**

County Code: 1
Air Basin: SF
Facility ID: 8345
Air District Name: BA
SIC Code: 7532
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 2003
County Code: 1
Air Basin: SF
Facility ID: 8345
Air District Name: BA
SIC Code: 7532
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

---

99 **A. BERCOVICH 18TH STREET** **VCP** **S103983450**
ENE **1639 18TH STREET** **HAZNET** **N/A**
1/2-1 **OAKLAND, CA 94607** **HAULERS**
0.665 mi. **ENVIROSTOR**
3510 ft.

Relative:
Lower

Actual:
12 ft.

VCP:
Facility ID: 01420131
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: DAY, ELD, HOS, EX, NOWN, NUSE, NDEV, NSUB, HS, SCH, FOOD, COV, RES
Acres: 1
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: CLAUDE JEMISON
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Site Code: 201550
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified O&M - Land Use Restrictions Only
Status Date: 09/23/2010

A. BERCOVICH 18TH STREET (Continued) **S103983450**

Restricted Use:	YES
Funding:	Responsible Party
Lat/Long:	37.8140834399544 / -122.292649219857
APN:	007-0561-0018-01, 7-561-18-1
Past Use:	MANUFACTURING - OTHER, PAINT MANUFACTURING, RECYCLING - SCRAP METAL
Potential COC:	30013
Confirmed COC:	30013
Potential Description:	SOIL
Alias Name:	A. BERCOVICH 18TH STREET
Alias Type:	Alternate Name
Alias Name:	Aboudi Property
Alias Type:	Alternate Name
Alias Name:	MARTINEZ BROTHERS TRUCKING
Alias Type:	Alternate Name
Alias Name:	007-0561-0018-01
Alias Type:	APN
Alias Name:	7-561-18-1
Alias Type:	APN
Alias Name:	110033613025
Alias Type:	EPA (FRS #)
Alias Name:	201550
Alias Type:	Project Code (Site Code)
Alias Name:	01420131
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	04/10/2009
Comments:	Minor wear of the concrete surfaces was observed but no major cracks.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	08/09/2010
Comments:	Minor wear of the concrete surfaces was observed but no major cracks existed where dirt was exposed or vegetation was observed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/29/2009
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	04/11/2008
Comments:	Remedy remains protective of human health and the environment.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	06/26/2003
Comments:	Completed PEA. A Site Screening was prepared in 2001 under contract with the United States Environmental Protection Agency (U.S. EPA). The site screening consisted of a drive-by and review of available

A. BERCOVICH 18TH STREET (Continued) **S103983450**

regulatory files, historical information, and ownership information. In 1989, elevated levels of lead were detected beneath paved areas of the Site. The site screening recommended further action based on the fact that elevated levels of lead and possibly other hazardous contaminants existed in the soil at the Site, and that the Site was adjacent to residences. DTSC is currently working with the Site owner to explore remedial options for the Site.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	07/11/2005
Comments:	PEA recommends - A land use covenant (LUC or deed restriction) should be placed on the property, since the contamination is not at the surface (1-3 feet bgs), the area will be completely paved. There is no onsite risk to workers or the nearby residents. Lead has been detected up to 1,100 mg/kg at 1-3 feet bgs in soils beneath the asphalt at the Site. Using LeadSpread (the lead risk assessment spreadsheet) developed by the DTSC, the screening level for lead at the PRG 99th percent level is 260 ug/g. Analytical testing of soil and ground water for TPHg, TPHd, total lead, BTEX, MTBE, metals, and VOCs on site did not identify any other contaminants above residential or drinking water standards. An Operation and Maintenance Plan and Agreement with the property owner will ensure that the pavement is maintained and that financial assurance is in place.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Reports
Completed Date:	03/29/2011
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	03/29/2011
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction
Completed Date:	03/27/2006
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	04/03/2007
Comments:	No problems noted during site inspection.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	07/11/2005
Comments:	Not reported
Future Area Name:	PROJECT WIDE

A. BERCOVICH 18TH STREET (Continued) **S103983450**

Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2016
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HAZNET:
Year: 1998
Gepaid: CAC001081848
Contact: ITZ RADOMSKY
Telephone: 5108324190
Mailing Name: Not reported
Mailing Address: 930 PINE STREET
Mailing City,St,Zip: OAKLAND, CA 946070000
Gen County: 1
TSD EPA ID: CAD009466392
TSD County: 7
Waste Category: Other empty containers 30 gallons or more
Disposal Method: R01
Tons: .2750
Facility County: 1

Year: 1998
Gepaid: CAC001081848
Contact: ITZ RADOMSKY
Telephone: 5108324190
Mailing Name: Not reported
Mailing Address: 930 PINE STREET
Mailing City,St,Zip: OAKLAND, CA 946070000
Gen County: 1
TSD EPA ID: CAL000161743
TSD County: Santa Clara
Waste Category: Waste oil and mixed oil
Disposal Method: H01
Tons: .3336
Facility County: 1

HAULERS:
Facility ID: 1296214
Facility Phone: (510) 839-6206

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 1
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: CLAUDE JEMISON
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Facility ID: 01420131
Site Code: 201550

A. BERCOVICH 18TH STREET (Continued) **S103983450**

Assembly:	16
Senate:	09
Special Program:	Voluntary Cleanup Program
Status:	Certified O&M - Land Use Restrictions Only
Status Date:	09/23/2010
Restricted Use:	YES
Site Mgmt. Req.:	DAY, ELD, HOS, EX, NOWN, NUSE, NDEV, NSUB, HS, SCH, FOOD, COV, RES
Funding:	Responsible Party
Latitude:	37.8140834399544
Longitude:	-122.292649219857
APN:	007-0561-0018-01, 7-561-18-1
Past Use:	MANUFACTURING - OTHER, PAINT MANUFACTURING, RECYCLING - SCRAP METAL
Potential COC:	30013
Confirmed COC:	30013
Potential Description:	SOIL
Alias Name:	A. BERCOVICH 18TH STREET
Alias Type:	Alternate Name
Alias Name:	Aboudi Property
Alias Type:	Alternate Name
Alias Name:	MARTINEZ BROTHERS TRUCKING
Alias Type:	Alternate Name
Alias Name:	007-0561-0018-01
Alias Type:	APN
Alias Name:	7-561-18-1
Alias Type:	APN
Alias Name:	110033613025
Alias Type:	EPA (FRS #)
Alias Name:	201550
Alias Type:	Project Code (Site Code)
Alias Name:	01420131
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	04/10/2009
Comments:	Minor wear of the concrete surfaces was observed but no major cracks.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	08/09/2010
Comments:	Minor wear of the concrete surfaces was observed but no major cracks existed where dirt was exposed or vegetation was observed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/29/2009
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	04/11/2008
Comments:	Remedy remains protective of human health and the environment.

A. BERCOVICH 18TH STREET (Continued) **S103983450**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	06/26/2003
Comments:	Completed PEA. A Site Screening was prepared in 2001 under contract with the United States Environmental Protection Agency (U.S. EPA). The site screening consisted of a drive-by and review of available regulatory files, historical information, and ownership information. In 1989, elevated levels of lead were detected beneath paved areas of the Site. The site screening recommended further action based on the fact that elevated levels of lead and possibly other hazardous contaminants existed in the soil at the Site, and that the Site was adjacent to residences. DTSC is currently working with the Site owner to explore remedial options for the Site.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	07/11/2005
Comments:	PEA recommends - A land use covenant (LUC or deed restriction) should be placed on the property, since the contamination is not at the surface (1-3 feet bgs), the area will be completely paved. There is no onsite risk to workers or the nearby residents. Lead has been detected up to 1,100 mg/kg at 1-3 feet bgs in soils beneath the asphalt at the Site. Using LeadSpread (the lead risk assessment spreadsheet) developed by the DTSC, the screening level for lead at the PRG 99th percent level is 260 ug/g. Analytical testing of soil and ground water for TPHg, TPHd, total lead, BTEX, MTBE, metals, and VOCs on site did not identify any other contaminants above residential or drinking water standards. An Operation and Maintenance Plan and Agreement with the property owner will ensure that the pavement is maintained and that financial assurance is in place.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Reports
Completed Date:	03/29/2011
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	03/29/2011
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction
Completed Date:	03/27/2006
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	04/03/2007
Comments:	No problems noted during site inspection.

A. BERCOVICH 18TH STREET (Continued) **S103983450**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 07/11/2005
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2016
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

100
WNW
1/2-1
0.669 mi.
3531 ft.

MARINE TERMINAL
1195 MARITIME
OAKLAND, CA 92626

Notify 65 **S100226822**
N/A

Relative:
Lower

Actual:
8 ft.

Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 92626

AB101
SE
1/2-1
0.669 mi.
3530 ft.

CA SODA CO
355 MANDELA PKWY
OAKLAND, CA 94607

Site 1 of 2 in cluster AB

NPDES
HAZNET
ENVIROSTOR

1000996464
N/A

Relative:
Lower

Actual:
12 ft.

NPDES:
Npdes Number: CAS00001
Facility Status: Active
Agency Id: N/A
Region: 2
Regulatory Measure Id: Not Available
Order No: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not Available
WDID: 2 01I010758
Program Type: Industrial
Adoption Date Of Regulatory Measure: N/A
Effective Date Of Regulatory Measure: 11/17/1993
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: California Soda Co
Discharge Address: 355 Mandela Pkwy
Discharge City: Oakland
Discharge State: Ca
Discharge Zip: 94607

CA SODA CO (Continued) **1000996464**

HAZNET:
Year: 1998
Gepaid: CAD982044232
Contact: NORMAN HINCK
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 355 MANDELA PKWY
Mailing City,St,Zip: OAKLAND, CA 946070000
Gen County: 1
TSD EPA ID: CAD042345884
TSD County: Santa Clara
Waste Category: Other organic solids
Disposal Method: Not reported
Tons: .0000
Facility County: 1

Year: 1998
Gepaid: CAD982044232
Contact: NORMAN HINCK
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 355 MANDELA PKWY
Mailing City,St,Zip: OAKLAND, CA 946070000
Gen County: 1
TSD EPA ID: CAD042345884
TSD County: Santa Clara
Waste Category: Unspecified organic liquid mixture
Disposal Method: Not reported
Tons: .9174
Facility County: 1

Year: 1998
Gepaid: CAD982044232
Contact: NORMAN HINCK
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 355 MANDELA PKWY
Mailing City,St,Zip: OAKLAND, CA 946070000
Gen County: 1
TSD EPA ID: CAD042345884
TSD County: Santa Clara
Waste Category: Organic liquids with metals (Alkaline solution (pH >= 12.5) with metals)
Disposal Method: Not reported
Tons: .0000
Facility County: 1

Year: 1998
Gepaid: CAD982044232
Contact: NORMAN HINCK
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 355 MANDELA PKWY
Mailing City,St,Zip: OAKLAND, CA 946070000
Gen County: 1
TSD EPA ID: CAD042345884
TSD County: Santa Clara

CA SODA CO (Continued) **1000996464**

Waste Category: Unspecified solvent mixture
Disposal Method: Not reported
Tons: .4587
Facility County: 1

ENVIROSTOR:
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0.25
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: JACINTO SOTO
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Facility ID: 01280091
Site Code: 201025
Assembly: 16
Senate: 09
Special Program: EPA - PASI
Status: No Further Action
Status Date: 05/27/1999
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8069444444444
Longitude: -122.293333333333
APN: NONE SPECIFIED
Past Use: NONE
Potential COC: NONE SPECIFIED,31000
Confirmed COC: 31000
Potential Description: NMA
Alias Name: 201025
Alias Type: Project Code (Site Code)
Alias Name: 01280091
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/27/1999
Comments: Completed PEA. Preliminary Assessment (PA/SI) found that contamination onsite is below residential standards and that no further action is required.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

AB102 **SE** **1/2-1** **0.671 mi.** **3543 ft.**	**SF BAY AREA RAPID TRANSIT DISTRICT** **349 MANDELA PKWY** **OAKLAND, CA 94607** **Site 2 of 2 in cluster AB**	**HIST Cal-Sites** **RESPONSE** **ENVIROSTOR**	**S102769550** **N/A**

Relative:
Lower

Actual:
12 ft.

HISTORICAL CAL-SITES:

Facility ID: 01750021
Region: 2
Region Name: BERKELEY
Branch: NC
Branch Name: NORTH COAST
File Name: Not reported
State Senate District: 04242000
Status: CERT - CERTIFIED AS HAVING BEEN REMEDIED SATISFACTORILY UNDER DTSC OVERSIGHT
Status Name: CERTIFIED
Lead Agency: DTSC
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type: RP
Type Name: RESPONSIBLE PARTY
NPL: Not Listed
SIC Code: 75
SIC Name: AUTO REPAIR, SERVICES & PARKING
Access: Controlled
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Suspected
Staff Member Responsible for Site: Not reported
Supervisor Responsible for Site: Not reported
Region Water Control Board: SF
Region Water Control Board Name: SAN FRANCISCO BAY
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 16
State Senate District Code: 09
Facility ID: 01750021
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: I&SE
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 08221997
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: CERT
Definition of Status: CERTIFIED
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported

SF BAY AREA RAPID TRANSIT DISTRICT (Continued) **S102769550**

For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01750021
Activity: RAW
Activity Name: REMOVAL ACTION WORKPLAN
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 10291999
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: CERT
Definition of Status: CERTIFIED
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01750021
Activity: RA
Activity Name: REMOVAL ACTION
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 04242000
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: CERT
Definition of Status: CERTIFIED
Liquids Removed (Gals): 38
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: N
Activity Comments: 34 TONS OF CONTAMINATED SOIL WAS REMOVED OFF-SITE. THE SITE WASCLEANED TO RESIDENTIAL STANDARDS.
For Commercial Reuse: 0.30000
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01750021
Activity: CERT
Activity Name: CERTIFICATION
AWP Code: Not reported

SF BAY AREA RAPID TRANSIT DISTRICT (Continued) **S102769550**

Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 04242000
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: CERT
Definition of Status: CERTIFIED
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01750021
Activity: CEQA
Activity Name: CEQA INCLUDING NEGATIVE DECS
AWP Code: NOE
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 10291999
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: CERT
Definition of Status: CERTIFIED
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Alternate Address: 349 MANDELA PARKWAY
Alternate City,St,Zip: OAKLAND, CA 94607
Alternate Address: 349 MANDELA PKWY
Alternate City,St,Zip: OAKLAND, CA 94607
Background Info: Alexander’s Ragtime Auto Wreckers operated an auto wrecking facility at the 0.3 acre Site from approximately 1966 to 1987. Meyer Goldberg and Miriam Goldberg were owners of the Site during Alexander’s Ragtime Auto Wrecker’s operation at the Site. The Goldbergs sold the Site to the San Francisco Bay Area Rapid Transit District (BART) in 1987. The Site is located in an industrial neighborhood with residences and other commercial areas located less than one block away. Business activities in the area include manufacturing, food processing, warehousing and

SF BAY AREA RAPID TRANSIT DISTRICT (Continued) **S102769550**

offices. Residential areas are located to the north and west of
the the Site.
Comments Date: 04242000
Comments: Completed RA. Certified Site. RA consisted of field excavation
Comments Date: 04242000
Comments: of soil above the cleanup standards and collection of
Comments Date: 04242000
Comments: confirmation samples. Cleanup standard for lead was met.
Comments Date: 08221997
Comments: Issued I&SE Order. Order issued to the Bay Area Rapid Transit
Comments Date: 08221997
Comments: District (BART), Alexanders Ragtime Auto Wreckers, Mr. Alexander
Comments Date: 08221997
Comments: and the Goldbergs for investigation and remediation of elevated
Comments Date: 08221997
Comments: levels of metals. Unable to serve order on the Goldbergs
Comments Date: 08221997
Comments: (Deceased), Mr. Alexander, and Alexander’s Ragtime Auto Wreckers.
Comments Date: 10291999
Comments: Approved RAW. RAW required cleanup to residential standards.
Comments Date: 10291999
Comments: The objective was to remove lead-contaminated soil to have an
Comments Date: 10291999
Comments: average lead concentration (expressed as the 95% upper
Comments Date: 10291999
Comments: confidence limit of the mean) less than 400 milligrams per
Comments Date: 10291999
Comments: kilogram (mg/kg) and no single point above 840 mg/kg. Notice of
Comments Date: 10291999
Comments: Exemption filed to meet CEQA requirements.
ID Name: CALSTARS CODE
ID Value: 200993
Alternate Name: SF BAY AREA RAPID TRANSIT DISTRICTBART/MANDELA
Special Programs Code: Not reported
Special Programs Name: Not reported

RESPONSE:
Facility ID: 01750021
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: 0.3
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: JANET NAITO
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Site Code: 200993
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 16
Senate: 09
Special Program Status: Not reported
Status: Certified
Status Date: 04/24/2000
Restricted Use: NO
Funding: Responsible Party

SF BAY AREA RAPID TRANSIT DISTRICT (Continued) **S102769550**

Latitude:	37.8032475468106
Longitude:	-122.294733947914
APN:	004007300900
Past Use:	JUNKYARD
Potential COC:	10097, 30013
Confirmed COC:	30013,10097
Potential Description:	SOIL
Alias Name:	BART/MANDELA
Alias Type:	Alternate Name
Alias Name:	004007300900
Alias Type:	APN
Alias Name:	110033608273
Alias Type:	EPA (FRS #)
Alias Name:	200993
Alias Type:	Project Code (Site Code)
Alias Name:	01750021
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	04/24/2000
Comments:	Completed RA. Certified Site. RA consisted of field excavation of soil above the cleanup standards and collection of confirmation samples. Cleanup standard for lead was met.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	10/29/1999
Comments:	Approved RAW. RAW required cleanup to residential standards. The objective was to remove lead-contaminated soil to have an average lead concentration (expressed as the 95% upper confidence limit of the mean) less than 400 milligrams per kilogram (mg/kg) and no single point above 840 mg/kg. Notice of Exemption filed to meet CEQA requirements.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	10/29/1999
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	04/24/2000
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	08/22/1997
Comments:	Issued I&SE Order. Order issued to the Bay Area Rapid Transit District (BART), Alexanders Ragtime Auto Wreckers, Mr. Alexander and the Goldbergs for investigation and remediation of elevated levels of metals. Unable to serve order on the Goldbergs (Deceased), Mr.

SF BAY AREA RAPID TRANSIT DISTRICT (Continued) **S102769550**

Alexander, and Alexander's Ragtime Auto Wreckers.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 0.3
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: JANET NAITO
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Facility ID: 01750021
Site Code: 200993
Assembly: 16
Senate: 09
Special Program: Not reported
Status: Certified
Status Date: 04/24/2000
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8032475468106
Longitude: -122.294733947914
APN: 004007300900
Past Use: JUNKYARD
Potential COC: 10097, 30013
Confirmed COC: 30013,10097
Potential Description: SOIL
Alias Name: BART/MANDELA
Alias Type: Alternate Name
Alias Name: 004007300900
Alias Type: APN
Alias Name: 110033608273
Alias Type: EPA (FRS #)
Alias Name: 200993
Alias Type: Project Code (Site Code)
Alias Name: 01750021
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 04/24/2000
Comments: Completed RA. Certified Site. RA consisted of field excavation of soil above the cleanup standards and collection of confirmation

SF BAY AREA RAPID TRANSIT DISTRICT (Continued) **S102769550**

samples. Cleanup standard for lead was met.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	10/29/1999
Comments:	Approved RAW. RAW required cleanup to residential standards. The objective was to remove lead-contaminated soil to have an average lead concentration (expressed as the 95% upper confidence limit of the mean) less than 400 milligrams per kilogram (mg/kg) and no single point above 840 mg/kg. Notice of Exemption filed to meet CEQA requirements.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	10/29/1999
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	04/24/2000
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	08/22/1997
Comments:	Issued I&SE Order. Order issued to the Bay Area Rapid Transit District (BART), Alexanders Ragtime Auto Wreckers, Mr. Alexander and the Goldbergs for investigation and remediation of elevated levels of metals. Unable to serve order on the Goldbergs (Deceased), Mr. Alexander, and Alexander’s Ragtime Auto Wreckers.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

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103 **SE** **1/2-1** **0.672 mi.** **3549 ft.**	**BOBO’S JUNKYARD** **1401 THIRD STREET** **OAKLAND, CA 94607**	**DEED** **VCP** **ENVIROSTOR**	**S102008217** **N/A**

Relative:
Lower

Actual:
11 ft.

DEED:

Area:	PROJECT WIDE
Sub Area:	Not reported
Site Type:	VOLUNTARY CLEANUP
Status:	CERTIFIED / OPERATION & MAINTENANCE
Deed Date(s):	1997-11-05

BOBO'S JUNKYARD (Continued) **S102008217**

VCP:

Facility ID: 01400003
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: DAY, MON, HS, SCH, FOOD, RES
Acres: 1.84
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP, US EPA, CITY OF OAKLAND
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: JACINTO SOTO
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 200486
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified / Operation & Maintenance
Status Date: 05/28/2009
Restricted Use: YES
Funding: Responsible Party
Lat/Long: 37.8029416666667 / -122.297288888889
APN: 003-0029-450
Past Use: JUNKYARD
Potential COC: 30001, 30003, 30006, 30007, 30008, 30013, 30024, 30025, 3002502, 30027, 30028, 30207, 30272, 30472, 30550, 30593
Confirmed COC: 30472,30550,30024,30025,30027,30028,30207,30272,30001,30003,30006, 30007,30008,30013,3002502,30593
Potential Description: SOIL
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: 003-0029-450
Alias Type: APN
Alias Name: 110033619118
Alias Type: EPA (FRS #)
Alias Name: 200308
Alias Type: Project Code (Site Code)
Alias Name: 200486
Alias Type: Project Code (Site Code)
Alias Name: 01400003
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 02/22/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/22/2009
Comments: DTSC oversight cost estimate and schedule for next fiscal year was sent to the RP.

Completed Area Name: PROJECT WIDE

BOBO'S JUNKYARD (Continued) **S102008217**

Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	12/23/1996
Comments:	RAWs approved. Soil and groundwater investigations were conducted by both CalTrans and Southern Pacific Transportation Company (SPTCo) in the eastern portion of the site. Soil was found to be contaminated with petroleum compounds, pesticides, arsenic, lead, benzo(a)pyrene and volatile organic compounds. Groundwater was found to contain low-boiling petroleum hydrocarbons and volatile organic compounds. Both CalTrans and SPTCo were required to prepare a Removal Action Workplan (RAW) for the Eastern Portion of the site. The CalTrans RAW addressed the site during construction of the freeway whereas the SPTCo RAW describes post-construction actions. Both RAWs were approved in December 1996. The CalTrans RAW required a design change to the construction of Bent CR23. Three proposed footings were redesigned and located at ground level, and piles were redesigned so that no soil coring was required. In addition, a fourth footing was added to ensure stability in the event of an earthquake. Disposal of groundwater was not required as no excavation occurred. The remaining footings were constructed according to the existing design. Sealed shoring was installed at these footing locations to limit the amount of groundwater infiltration during construction excavations. Excavated groundwater was treated onsite and then either reused onsite or properly disposed off-site. The SPTCo RAW concluded that the site (soil and groundwater) does not pose a risk to human health and the environment under the exposure scenarios identified in the risk assessment (child trespasser and future construction worker). The alternative selected in the RAW requires an asphalt cap (or equivalent) with institutional controls and groundwater monitoring. This alternative was selected as SPTCo desired a useable surface at the site after freeway construction is completed. Two monitoring wells were installed downgradient of where cis-1,2-DCE was detected in groundwater. The purpose of the monitoring wells are to verify that cis-1,2-DCE is not migrating off the site. The Department will re-evaluate the need for additional remediation following the implementation of the U.S. EPA's investigation associated with an upgradient source, and in the event that groundwater concentrations rise significantly at the site. A five-year review of the removal action at the site will also be conducted.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	10/08/1991
Comments:	Soil Sampling delisted TPH, pesticides, arsenic, lead, benzo(a)pyrene and VOCs.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	06/30/2006
Comments:	Paving of the graded areas was completed and documentation to DTSC is currently being prepared.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Reports

BOBO’S JUNKYARD (Continued) **S102008217**

Completed Date: 11/08/2006
Comments: DTSC approved the report, but did not approve decommissioning monitoring wells. These wells are being used by USEPA for monitoring an upgadient NPL site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 07/13/2007
Comments: Installed an asphalt cap.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/10/2006
Comments: Summittal of the First Quarter2006 Summary Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/08/2006
Comments: DTSC receive the Fourth Quarter 2005 Summary Report as required by the I&SE order No. 93-94-018.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/17/2006
Comments: Paving of the graded areas was completed this quarter, and documentation to DTSC is currently being prepared.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 09/21/2006
Comments: Field activities are complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 08/08/2007
Comments: Approval of O&MP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 07/22/1999
Comments: Approval of Final Remedial Design Report dated July 22, 1999.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 02/27/2011
Comments: UP’s report satifies the annual inspection reporting requirement.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

BOBO’S JUNKYARD (Continued) **S102008217**

Completed Document Type:	Operations and Maintenance Report
Completed Date:	02/22/2010
Comments:	The 2009 Annual Visual Inspection and Annual Summary Reports include the I-880 Realignment Corridor: Desert Rail Yard "Northern Elevated Section", West Oakland Rail Yard and Desert Rail Yard "At Grade Section", West Oakland Rail Yard "Southern Elevated Section", and Former Bobo’s Junkyard sites. The next report is due February 2011.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/07/2010
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction
Completed Date:	11/05/1997
Comments:	Deed Restriction recorded.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	12/23/1996
Comments:	NOE
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	VCA signed with CalTrans to investigate and remediate the site. Project is part of Cypress Reconstruction Project.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	01/07/1999
Comments:	Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	08/15/2002
Comments:	Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	06/14/1994
Comments:	ISE Order issued to Southern Pacific Transportation Company.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	05/28/2009

BOBO’S JUNKYARD (Continued) **S102008217**

Comments:	DTSC has determined that all appropriate removal actions have been completed and that all acceptable engineering practices were implemented; however, the Site requires ongoing operation and maintenance and monitoring efforts.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation & Maintenance Order/Agreement
Completed Date:	02/10/2009
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	5 Year Review Reports
Schedule Due Date:	5/20/2012
Schedule Revised Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Public Notice
Schedule Due Date:	2/11/2012
Schedule Revised Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Operations and Maintenance Report
Schedule Due Date:	4/15/2012
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	1.84
NPL:	NO
Regulatory Agencies:	SMBRP, US EPA, CITY OF OAKLAND
Lead Agency:	SMBRP
Program Manager:	JACINTO SOTO
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	01400003
Site Code:	200486
Assembly:	16
Senate:	09
Special Program:	Voluntary Cleanup Program
Status:	Certified / Operation & Maintenance
Status Date:	05/28/2009
Restricted Use:	YES
Site Mgmt. Req.:	DAY, MON, HS, SCH, FOOD, RES
Funding:	Responsible Party
Latitude:	37.8029416666667
Longitude:	-122.297288888889
APN:	003-0029-450
Past Use:	JUNKYARD
Potential COC:	30001, 30003, 30006, 30007, 30008, 30013, 30024, 30025, 3002502, 30027, 30028, 30207, 30272, 30472, 30550, 30593

BOBO'S JUNKYARD (Continued) **S102008217**

Confirmed COC:	30472,30550,30024,30025,30027,30028,30207,30272,30001,30003,30006, 30007,30008,30013,3002502,30593
Potential Description:	SOIL
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	003-0029-450
Alias Type:	APN
Alias Name:	110033619118
Alias Type:	EPA (FRS #)
Alias Name:	200308
Alias Type:	Project Code (Site Code)
Alias Name:	200486
Alias Type:	Project Code (Site Code)
Alias Name:	01400003
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction Monitoring Report
Completed Date:	02/22/2010
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/22/2009
Comments:	DTSC oversight cost estimate and schedule for next fiscal year was sent to the RP.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	12/23/1996
Comments:	RAWs approved. Soil and groundwater investigations were conducted by both CalTrans and Southern Pacific Transportation Company (SPTCo) in the eastern portion of the site. Soil was found to be contaminated with petroleum compounds, pesticides, arsenic, lead, benzo(a)pyrene and volatile organic compounds. Groundwater was found to contain low-boiling petroleum hydrocarbons and volatile organic compounds. Both CalTrans and SPTCo were required to prepare a Removal Action Workplan (RAW) for the Eastern Portion of the site. The CalTrans RAW addressed the site during construction of the freeway whereas the SPTCo RAW describes post-construction actions. Both RAWs were approved in December 1996. The CalTrans RAW required a design change to the construction of Bent CR23. Three proposed footings were redesigned and located at ground level, and piles were redesigned so that no soil coring was required. In addition, a fourth footing was added to ensure stability in the event of an earthquake. Disposal of groundwater was not required as no excavation occurred. The remaining footings were constructed according to the existing design. Sealed shoring was installed at these footing locations to limit the amount of groundwater infiltration during construction excavations. Excavated groundwater was treated onsite and then either reused onsite or properly disposed off-site. The SPTCo RAW concluded that the site (soil and groundwater) does not pose a risk to human health and the environment under the exposure scenarios identified in the risk assessment (child trespasser and future construction worker).

BOBO'S JUNKYARD (Continued) **S102008217**

The alternative selected in the RAW requires an asphalt cap (or equivalent) with institutional controls and groundwater monitoring. This alternative was selected as SPTCo desired a useable surface at the site after freeway construction is completed. Two monitoring wells were installed downgradient of where cis-1,2-DCE was detected in groundwater. The purpose of the monitoring wells are to verify that cis-1,2-DCE is not migrating off the site. The Department will re-evaluate the need for additional remediation following the implementation of the U.S. EPA's investigation associated with an upgradient source, and in the event that groundwater concentrations rise significantly at the site. A five-year review of the removal action at the site will also be conducted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 10/08/1991
Comments: Soil Sampling delisted TPH, pesticides, arsenic, lead, benzo(a)pyrene and VOCs.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/30/2006
Comments: Paving of the graded areas was completed and documentation to DTSC is currently being prepared.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 11/08/2006
Comments: DTSC approved the report, but did not approve decommissioning monitoring wells. These wells are being used by USEPA for monitoring an upgadient NPL site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 07/13/2007
Comments: Installed an asphalt cap.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/10/2006
Comments: Summittal of the First Quarter2006 Summary Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/08/2006
Comments: DTSC receive the Fourth Quarter 2005 Summary Report as required by the I&SE order No. 93-94-018.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report

BOBO’S JUNKYARD (Continued) **S102008217**

Completed Date: 07/17/2006
Comments: Paving of the graded areas was completed this quarter, and documentation to DTSC is currently being prepared.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 09/21/2006
Comments: Field activities are complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 08/08/2007
Comments: Approval of O&MP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 07/22/1999
Comments: Approval of Final Remedial Design Report dated July 22, 1999.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 02/27/2011
Comments: UP’s report satifies the annual inspection reporting requirement.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 02/22/2010
Comments: The 2009 Annual Visual Inspection and Annual Summary Reports include the I-880 Realignment Corridor: Desert Rail Yard "Northern Elevated Section", West Oakland Rail Yard and Desert Rail Yard "At Grade Section", West Oakland Rail Yard "Southern Elevated Section", and Former Bobo’s Junkyard sites. The next report is due February 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/07/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 11/05/1997
Comments: Deed Restriction recorded.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 12/23/1996
Comments: NOE

Completed Area Name: PROJECT WIDE

BOBO'S JUNKYARD (Continued) **S102008217**

Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed with CalTrans to investigate and remediate the site. Project is part of Cypress Reconstruction Project.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/07/1999
Comments: Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 08/15/2002
Comments: Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 06/14/1994
Comments: ISE Order issued to Southern Pacific Transportation Company.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 05/28/2009
Comments: DTSC has determined that all appropriate removal actions have been completed and that all acceptable engineering practices were implemented; however, the Site requires ongoing operation and maintenance and monitoring efforts.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 02/10/2009
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: 5 Year Review Reports
Schedule Due Date: 5/20/2012
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Public Notice
Schedule Due Date: 2/11/2012
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported

BOBO'S JUNKYARD (Continued) **S102008217**

Schedule Document Type:	Operations and Maintenance Report
Schedule Due Date:	4/15/2012
Schedule Revised Date:	Not reported

104
ENE
1/2-1
0.728 mi.
3843 ft.

ALTA PLATING & CHEMICAL CORP. **ENVIROSTOR** **S107735828**
1433 18TH STREET **N/A**
OAKLAND, CA 94607

Relative:
Lower

Actual:
12 ft.

ENVIROSTOR:

Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0.27
NPL:	NO
Regulatory Agencies:	SMBRP, US EPA
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	70000088
Site Code:	Not reported
Assembly:	16
Senate:	09
Special Program:	EPA - PASI
Status:	Inactive - Needs Evaluation
Status Date:	05/04/2006
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	37.8136265292996
Longitude:	-122.291450846626
APN:	5-397-15-2
Past Use:	METAL PLATING - OTHER
Potential COC:	30407, 30594
Confirmed COC:	30407-NO,30594-NO
Potential Description:	SOIL
Alias Name:	5-397-15-2
Alias Type:	APN
Alias Name:	70000088
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	04/19/2006
Comments:	The site screening report was approved by EPA. No further action required under CERCLA. However, since no confirmation sampling was taken, the site needs to be re-evaluated under DTSC lead.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported

ALTA PLATING & CHEMICAL CORP. (Continued) **S107735828**

Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

105
NNE
1/2-1
0.729 mi.
3850 ft.

BUILDING 331 EAST
7 MERRITIME
OAKLAND, CA 92626

Notify 65 **S100179524**
N/A

Relative:
Lower

Actual:
9 ft.

Notify 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Incident Description:	92626

106
ESE
1/2-1
0.755 mi.
3984 ft.

SMILO CHEMICAL COMPANY
500 KIRKHAM STREET
OAKLAND, CA 94607

HIST CORTESE
LUST
Alameda County CS
VCP
HAZNET
ENVIROSTOR

S104578474
N/A

Relative:
Equal

Actual:
14 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-2433

Region:	CORTESE
Facility County Code:	1
Reg By:	CALSI
Reg Id:	01510022

LUST:

Region:	STATE
Global Id:	T0600102242
Latitude:	37.803914
Longitude:	-122.2929
Case Type:	LUST Cleanup Site
Status:	Open - Site Assessment
Status Date:	12/30/1995
Lead Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Case Worker:	Not reported
Local Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number:	01-2433
LOC Case Number:	Not reported
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Acetone, Other Solvent or Non-Petroleum Hydrocarbon, Polychlorinated biphenyls (PCBs), Arsenic, Chromium, Copper, Lead, Nickel, Diesel, Gasoline
Site History:	Not reported

SMILO CHEMICAL COMPANY (Continued) **S104578474**

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id: T0600102242
Contact Type: Local Agency Caseworker
Contact Name: BARBARA COOK
Organization Name: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Address: 700 HEINZ ST.
City: BERKELEY
Email: Not reported
Phone Number: Not reported

Global Id: T0600102242
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

LUST:

Global Id: T0600102242
Action Type: REMEDIATION
Date: 1950-01-01 00:00:00
Action: Excavate and Dispose

Global Id: T0600102242
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Discovery

Global Id: T0600102242
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

Global Id: T0600102242
Action Type: ENFORCEMENT
Date: 2008-07-03 00:00:00
Action: Technical Correspondence / Assistance / Other - #20080703

LUST REG 2:

Region: 2
Facility Id: 01-2433
Facility Status: Leak being confirmed
Case Number: 2265
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 8/8/1991
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported

SMILO CHEMICAL COMPANY (Continued) **S104578474**

Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Pollution Characterization
Record Id: RO0000421
PE: 5602

Status: Case Transferred
Record Id: RO0000421
PE: 5602

Status: Leak being confirmed
Record Id: RO0000421
PE: 5602

VCP:

Facility ID:	01510022
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	3
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	JACINTO SOTO
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	200468
Assembly:	16
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Inactive - Needs Evaluation
Status Date:	09/03/2010
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.8039611805757 / -122.29214032905
APN:	4-49-1
Past Use:	MANUFACTURING - CHEMICALS, VEHICLE MAINTENANCE
Potential COC:	30013, 30024, 30025, 3002502
Confirmed COC:	30024,30025,30013,3002502
Potential Description:	OTH, SOIL
Alias Name:	CYPRESS FREEWAY
Alias Type:	Alternate Name
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	J & A TRUCK REPAIR
Alias Type:	Alternate Name
Alias Name:	4-49-1
Alias Type:	APN
Alias Name:	CAD029247319
Alias Type:	EPA Identification Number
Alias Name:	110002641865
Alias Type:	EPA (FRS #)

SMILO CHEMICAL COMPANY (Continued) **S104578474**

Alias Name: CAD029247319
Alias Type: HWTS Identification Code
Alias Name: 200468
Alias Type: Project Code (Site Code)
Alias Name: 01510022
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 08/13/1996
Comments: Remedial Action completed. Approximately 4,700 cubic yards of soil was excavated to six feet below ground surface. The site was paved for use as a training area for postal vehicles. Caltrans has installed groundwater monitoring wells and is conducting quarterly monitoring. Since the remediation goals contained in the approved RAP were for an industrial/commercial use, a deed restriction will be placed on the property restricting use.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 11/09/1995
Comments: Approved Design.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: Approved RAP requiring soil removal, groundwater monitoring and deed restriction if levels left are above unrestricted use.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: Approved RIFS. Lead was the only contaminant found in excess of the acceptable concentrations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/15/1995
Comments: Completed PEA found the Site had elevated levels of petroleum hydrocarbons, PCBs, metals, semi-and volatile organic compounds.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/01/1988
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 04/24/1987
Comments: Not reported

SMILO CHEMICAL COMPANY (Continued) **S104578474**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 11/21/1984
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 08/15/2002
Comments: Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 09/24/1983
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/07/1999
Comments: Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Removal Action Workplan
Future Due Date: 2012
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Completion Report
Future Due Date: 2013
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2012
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2012
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Investigation Report
Schedule Due Date: 2/27/2012

SMILO CHEMICAL COMPANY (Continued) **S104578474**

Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Operations and Maintenance Plan
Schedule Due Date: 2/27/2012
Schedule Revised Date: Not reported

HAZNET:

Year: 2010
Gepaid: CAC002658601
Contact: TODD WRIGHT
Telephone: 5107723552
Mailing Name: Not reported
Mailing Address: 1777 OAKLAND BLVD STE 300
Mailing City,St,Zip: WALNUT CREEK, CA 945964063
Gen County: Not reported
TSD EPA ID: CAD097030993
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons: 0.075
Facility County: Alameda

Year: 1995
Gepaid: CAL000123236
Contact: CALTRANS DISTRICT 4
Telephone: 5102864492
Mailing Name: Not reported
Mailing Address: 111 GRAND AVE 14TH FL
Mailing City,St,Zip: OAKLAND, CA 946230000
Gen County: 1
TSD EPA ID: CAD000088252
TSD County: Los Angeles
Waste Category: Other inorganic solid waste
Disposal Method: H01
Tons: .0350
Facility County: 1

Year: 1995
Gepaid: CAL000123236
Contact: CALTRANS DISTRICT 4
Telephone: 5102864492
Mailing Name: Not reported
Mailing Address: 111 GRAND AVE 14TH FL
Mailing City,St,Zip: OAKLAND, CA 946230000
Gen County: 1
TSD EPA ID: UTC093012201
TSD County: 99
Waste Category: Contaminated soil from site clean-up
Disposal Method: D80
Tons: .0000
Facility County: 1

Year: 1995
Gepaid: CAL000123236
Contact: CALTRANS DISTRICT 4

SMILO CHEMICAL COMPANY (Continued) **S104578474**

Telephone:	5102864492
Mailing Name:	Not reported
Mailing Address:	111 GRAND AVE 14TH FL
Mailing City,St,Zip:	OAKLAND, CA 946230000
Gen County:	1
TSD EPA ID:	CAD000088252
TSD County:	Los Angeles
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	H01
Tons:	.1250
Facility County:	1

Year:	1995
Gepaid:	CAL000123236
Contact:	CALTRANS DISTRICT 4
Telephone:	5102864492
Mailing Name:	Not reported
Mailing Address:	111 GRAND AVE 14TH FL
Mailing City,St,Zip:	OAKLAND, CA 946230000
Gen County:	1
TSD EPA ID:	CAD004771168
TSD County:	San Francisco
Waste Category:	Other empty containers 30 gallons or more
Disposal Method:	R01
Tons:	1.0000
Facility County:	1

Click this hyperlink while viewing on your computer to access
3 additional CA_HAZNET: record(s) in the EDR Site Report.

ENVIROSTOR:

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	3
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	JACINTO SOTO
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	01510022
Site Code:	200468
Assembly:	16
Senate:	09
Special Program:	Voluntary Cleanup Program
Status:	Inactive - Needs Evaluation
Status Date:	09/03/2010
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.8039611805757
Longitude:	-122.29214032905
APN:	4-49-1
Past Use:	MANUFACTURING - CHEMICALS, VEHICLE MAINTENANCE
Potential COC:	30013, 30024, 30025, 3002502
Confirmed COC:	30024,30025,30013,3002502
Potential Description:	OTH, SOIL

SMILO CHEMICAL COMPANY (Continued) **S104578474**

Alias Name: CYPRESS FREEWAY
Alias Type: Alternate Name
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: J & A TRUCK REPAIR
Alias Type: Alternate Name
Alias Name: 4-49-1
Alias Type: APN
Alias Name: CAD029247319
Alias Type: EPA Identification Number
Alias Name: 110002641865
Alias Type: EPA (FRS #)
Alias Name: CAD029247319
Alias Type: HWTS Identification Code
Alias Name: 200468
Alias Type: Project Code (Site Code)
Alias Name: 01510022
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 08/13/1996
Comments: Remedial Action completed. Approximately 4,700 cubic yards of soil was excavated to six feet below ground surface. The site was paved for use as a training area for postal vehicles. Caltrans has installed groundwater monitoring wells and is conducting quarterly monitoring. Since the remediation goals contained in the approved RAP were for an industrial/commercial use, a deed restriction will be placed on the property restricting use.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 11/09/1995
Comments: Approved Design.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: Approved RAP requiring soil removal, groundwater monitoring and deed restriction if levels left are above unrestricted use.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: Approved RIFS. Lead was the only contaminant found in excess of the acceptable concentrations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/15/1995
Comments: Completed PEA found the Site had elevated levels of petroleum hydrocarbons, PCBs, metals, semi-and volatile organic compounds.

SMILO CHEMICAL COMPANY (Continued) **S104578474**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	05/01/1988
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	04/24/1987
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment Report
Completed Date:	11/21/1984
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	08/15/2002
Comments:	Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Discovery
Completed Date:	09/24/1983
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	01/07/1999
Comments:	Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Removal Action Workplan
Future Due Date:	2012
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Completion Report
Future Due Date:	2013

SMILO CHEMICAL COMPANY (Continued) **S104578474**

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2012
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2012
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Investigation Report
Schedule Due Date: 2/27/2012
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Operations and Maintenance Plan
Schedule Due Date: 2/27/2012
Schedule Revised Date: Not reported

107
SE
1/2-1
0.758 mi.
4003 ft.

CONTAINER FREIGHT
1285 5TH
OAKLAND, CA 94607

HIST CORTESE
LUST
Alameda County CS
VCP
ENVIROSTOR

S103576443
N/A

Relative:
Lower

Actual:
13 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-2399

LUST:
Region: STATE
Global Id: T0600102209
Latitude: 37.8074
Longitude: -122.2887
Case Type: LUST Cleanup Site
Status: Open - Remediation
Status Date: 08/30/1995
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Case Worker: Not reported
Local Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number: 01-2399
LOC Case Number: Not reported
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon, Polychlorinated biphenyls (PCBs), Other Insecticides / Pesticide / Fumigants / Herbicides, Arsenic, Chromium, Lead, Nickel, Diesel, Gasoline, Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0600102209
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou

CONTAINER FREIGHT (Continued) **S103576443**

Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported
Global Id:	T0600102209
Contact Type:	Local Agency Caseworker
Contact Name:	BARBARA COOK
Organization Name:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Address:	700 HEINZ ST.
City:	BERKELEY
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0600102209
Action Type:	REMEDIATION
Date:	1950-01-01 00:00:00
Action:	Excavate and Dispose
Global Id:	T0600102209
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Discovery
Global Id:	T0600102209
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Reported
Global Id:	T0600102209
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Stopped
Global Id:	T0600102209
Action Type:	ENFORCEMENT
Date:	2008-07-03 00:00:00
Action:	Technical Correspondence / Assistance / Other - #20080703

LUST REG 2:

Region:	2
Facility Id:	01-2399
Facility Status:	Leak being confirmed
Case Number:	5507
How Discovered:	Tank Closure
Leak Cause:	UNK
Leak Source:	UNK
Date Leak Confirmed:	8/8/1995
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported

CONTAINER FREIGHT (Continued) **S103576443**

Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:

Status:	Leak being confirmed
Record Id:	RO0000420
PE:	5602
Status:	Remedial action (cleanup) Underway
Record Id:	RO0000420
PE:	5602
Status:	Case Transferred
Record Id:	RO0000420
PE:	5602
Status:	Pollution Characterization
Record Id:	RO0000420
PE:	5602

VCP:

Facility ID:	01420128
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	2.81
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	JACINTO SOTO
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	200467
Assembly:	16
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Inactive - Needs Evaluation
Status Date:	09/03/2010
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.802558346489 / -122.292154351192
APN:	O-390-3
Past Use:	TRANSPORTATION - WAREHOUSING
Potential COC:	30001, 30013, 30024, 30027, 30472
Confirmed COC:	30001,30013,30472,30024,30027
Potential Description:	OTH, SOIL
Alias Name:	CYPRESS FREEWAY/CONTAINER FREIGHT
Alias Type:	Alternate Name
Alias Name:	CYPRESS RECONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	O-390-3
Alias Type:	APN
Alias Name:	110033613588
Alias Type:	EPA (FRS #)
Alias Name:	T0600102209

CONTAINER FREIGHT (Continued) **S103576443**

Alias Type:	GeoTracker Global ID
Alias Name:	200467
Alias Type:	Project Code (Site Code)
Alias Name:	01420128
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	01/07/1999
Comments:	Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	03/18/1998
Comments:	Remedial Design and Implementation Plan Approved.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	09/22/1997
Comments:	Per the Feasibility Study/Remedial Action Plan, Caltrans excavated soils and disposed them at a permitted off-site location. Groundwater monitoring wells were also installed and have been monitored quarterly. An asphalt cap has also been installed on the property.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	02/07/1996
Comments:	Remedial Design and Implementation plan approved.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Plan
Completed Date:	08/14/1995
Comments:	RAP approved. PEA completed in June 1995. Parcel is a candidate for groundwater non-attainment action. Capping of the entire site is under discussion with DTSC and RWQCB.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation / Feasibility Study
Completed Date:	07/03/1995
Comments:	RIFS conducted. Site investigations have shown that the soil and groundwater contain elevated levels of petroleum hydrocarbons, arsenic, lead, volatile organic compounds and semi-volatile organic compounds. Site investigation activities, performed prior to the 5/10/1994 VCA, were reported in the Site Investigation Report Area 8 dated August 1992. The RI/FS was approved on July 3, 1995 when the Remedial Action Plan Was approved.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report

CONTAINER FREIGHT (Continued) **S103576443**

Completed Date: 06/19/1995
Comments: PEA approved. Caltrans demolished the existing warehouse building. A 700-gallon underground diesel tank was also removed under the oversight of Alameda County.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 02/20/2007
Comments: Report documents the soil excavation, off-site disposal and capping of the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 08/15/2002
Comments: Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2012
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2012
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Operations and Maintenance Plan
Schedule Due Date: 6/9/2012
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 2.81
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: JACINTO SOTO
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 01420128
Site Code: 200467
Assembly: 16

CONTAINER FREIGHT (Continued) **S103576443**

Senate: 09
Special Program: Voluntary Cleanup Program
Status: Inactive - Needs Evaluation
Status Date: 09/03/2010
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.802558346489
Longitude: -122.292154351192
APN: O-390-3
Past Use: TRANSPORTATION - WAREHOUSING
Potential COC: 30001, 30013, 30024, 30027, 30472
Confirmed COC: 30001,30013,30472,30024,30027
Potential Description: OTH, SOIL
Alias Name: CYPRESS FREEWAY/CONTAINER FREIGHT
Alias Type: Alternate Name
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: O-390-3
Alias Type: APN
Alias Name: 110033613588
Alias Type: EPA (FRS #)
Alias Name: T0600102209
Alias Type: GeoTracker Global ID
Alias Name: 200467
Alias Type: Project Code (Site Code)
Alias Name: 01420128
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/07/1999
Comments: Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 03/18/1998
Comments: Remedial Design and Implementation Plan Approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 09/22/1997
Comments: Per the Feasibility Study/Remedial Action Plan, Caltrans excavated soils and disposed them at a permitted off-site location. Groundwater monitoring wells were also installed and have been monitored quarterly. An asphalt cap has also been installed on the property.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 02/07/1996
Comments: Remedial Design and Implementation plan approved.

CONTAINER FREIGHT (Continued) **S103576443**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: RAP approved. PEA completed in June 1995. Parcel is a candidate for groundwater non-attainment action. Capping of the entire site is under discussion with DTSC and RWQCB.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: RIFS conducted. Site investigations have shown that the soil and groundwater contain elevated levels of petroleum hydrocarbons, arsenic, lead, volatile organic compounds and semi-volatile organic compounds. Site investigation activities, performed prior to the 5/10/1994 VCA, were reported in the Site Investigation Report Area 8 dated August 1992. The RI/FS was approved on July 3, 1995 when the Remedial Action Plan Was approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/19/1995
Comments: PEA approved. Caltrans demolished the existing warehouse building. A 700-gallon underground diesel tank was also removed under the oversight of Alameda County.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 02/20/2007
Comments: Report documents the soil excavation, off-site disposal and capping of the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 08/15/2002
Comments: Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2012

CONTAINER FREIGHT (Continued) **S103576443**

Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Land Use Restriction
Future Due Date:	2012
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Operations and Maintenance Plan
Schedule Due Date:	6/9/2012
Schedule Revised Date:	Not reported

108
ESE
1/2-1
0.784 mi.
4142 ft.

PALM COURT
902 UNION STREET
OAKLAND, CA 94612

VCP **S106568180**
ENVIROSTOR **N/A**

Relative:
Higher

Actual:
22 ft.

VCP:

Facility ID:	01990027
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1.25
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	JANET NAITO
Supervisor:	Barbara Cook
Division Branch:	Cleanup Berkeley
Site Code:	201557
Assembly:	16
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	No Further Action
Status Date:	03/14/2005
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.8069 / -122.2892
APN:	4-41-002, 4-41-003, 4-41-004, 4-41-005, 4-41-006, 4-41-007, 4-41-008, 4-41-009, 4-41-010, 4-41-012, 4-41-013
Past Use:	RESIDENTIAL AREA
Potential COC:	30004, 30013
Confirmed COC:	30004,30013
Potential Description:	SOIL
Alias Name:	PALM COURT
Alias Type:	Alternate Name
Alias Name:	4-41-002
Alias Type:	APN
Alias Name:	4-41-003
Alias Type:	APN
Alias Name:	4-41-004
Alias Type:	APN
Alias Name:	4-41-005
Alias Type:	APN
Alias Name:	4-41-006
Alias Type:	APN
Alias Name:	4-41-007
Alias Type:	APN

PALM COURT (Continued) **S106568180**

Alias Name:	4-41-008
Alias Type:	APN
Alias Name:	4-41-009
Alias Type:	APN
Alias Name:	4-41-010
Alias Type:	APN
Alias Name:	4-41-012
Alias Type:	APN
Alias Name:	4-41-013
Alias Type:	APN
Alias Name:	110033610377
Alias Type:	EPA (FRS #)
Alias Name:	201557
Alias Type:	Project Code (Site Code)
Alias Name:	01990027
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	03/14/2005
Comments:	Confirmation samples indicated that chlordane and lead were not found above their site cleanup goals (370 ug/kg and 261 mg/kg, respectively). East Bay Habitat had removed approximately 1,025 tons of excavated soil and disposed of it at an offsite Class I disposal facility. Approximately 1,755 tons of excavated soil was excavated and disposed of at an offsite Class II disposal facility.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	06/01/2004
Comments:	Signed Voluntary Cleanup Agreement with East Bay Habitat for Humanity to review site characterization and cleanup actions they had taken independently.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Voluntary Cleanup Agreement Completion
Completed Date:	03/14/2005
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	1.25

PALM COURT (Continued) **S106568180**

NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: JANET NAITO
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Facility ID: 01990027
Site Code: 201557
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program
Status: No Further Action
Status Date: 03/14/2005
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8069
Longitude: -122.2892
APN: 4-41-002, 4-41-003, 4-41-004, 4-41-005, 4-41-006, 4-41-007, 4-41-008, 4-41-009, 4-41-010, 4-41-012, 4-41-013
Past Use: RESIDENTIAL AREA
Potential COC: 30004, 30013
Confirmed COC: 30004,30013
Potential Description: SOIL
Alias Name: PALM COURT
Alias Type: Alternate Name
Alias Name: 4-41-002
Alias Type: APN
Alias Name: 4-41-003
Alias Type: APN
Alias Name: 4-41-004
Alias Type: APN
Alias Name: 4-41-005
Alias Type: APN
Alias Name: 4-41-006
Alias Type: APN
Alias Name: 4-41-007
Alias Type: APN
Alias Name: 4-41-008
Alias Type: APN
Alias Name: 4-41-009
Alias Type: APN
Alias Name: 4-41-010
Alias Type: APN
Alias Name: 4-41-012
Alias Type: APN
Alias Name: 4-41-013
Alias Type: APN
Alias Name: 110033610377
Alias Type: EPA (FRS #)
Alias Name: 201557
Alias Type: Project Code (Site Code)
Alias Name: 01990027
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

PALM COURT (Continued) **S106568180**

Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/14/2005
Comments: Confirmation samples indicated that chlordane and lead were not found above their site cleanup goals (370 ug/kg and 261 mg/kg, respectively). East Bay Habitat had removed approximately 1,025 tons of excavated soil and disposed of it at an offsite Class I disposal facility. Approximately 1,755 tons of excavated soil was excavated and disposed of at an offsite Class II disposal facility.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 06/01/2004
Comments: Signed Voluntary Cleanup Agreement with East Bay Habitat for Humanity to review site characterization and cleanup actions they had taken independently.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Voluntary Cleanup Agreement Completion
Completed Date: 03/14/2005
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

AC109
East
1/2-1
0.803 mi.
4238 ft.

NABISCO
1267 14TH STREET
OAKLAND, CA 94607

Site 1 of 2 in cluster AC

ENVIROSTOR **S108054410**
N/A

Relative:
Higher

Actual:
19 ft.

ENVIROSTOR:
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 1.86
NPL: NO
Regulatory Agencies: SMBRP, ALAMEDA COUNTY
Lead Agency: ALAMEDA COUNTY
Program Manager: Not reported
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Facility ID: 60000369
Site Code: Not reported
Assembly: 16
Senate: 09
Special Program: EPA - PASI
Status: No Further Action
Status Date: 08/11/2006
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED

NABISCO (Continued) **S108054410**

Funding: Not Applicable
Latitude: 37.809528783326
Longitude: -122.288961840049
APN: 004-0037-001-02, 004-0037-032-06
Past Use: MANUFACTURING - OTHER
Potential COC: NONE SPECIFIED,31000
Confirmed COC: 31000-NO
Potential Description: NMA
Alias Name: 004-0037-001-02
Alias Type: APN
Alias Name: 004-0037-032-06
Alias Type: APN
Alias Name: 110010488267
Alias Type: EPA (FRS #)
Alias Name: 60000369
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 08/11/2006
Comments: Site screening concluded that UST-related remediation, overseen by ACDEH, was completed in 1992. Available data indicates that no COCs remain in soil or groundwater at levels of concern.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

AC110 **NABISCO BRANDS, INC.** **Notify 65** **U000057663**
East **1267 14TH STREET** **N/A**
1/2-1 **OAKLAND, CA 92626**
0.803 mi.
4238 ft. **Site 2 of 2 in cluster AC**

Relative:
Higher

Actual:
19 ft.

Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 92626

Map ID / Direction / Distance / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
111 **West** **1/2-1** **0.806 mi.** **4258 ft.** **Relative:** **Lower** **Actual:** **7 ft.**	**PORT OF OAKLAND, BERTH 25 AND 26** **2500 7TH STREET** **OAKLAND, CA 94607**	**HIST Cal-Sites** **WDS** **NPDES** **Cortese** **CHMIRS** **RESPONSE** **HAZNET** **EMI** **ENVIROSTOR**	**S105940082** **N/A**

HISTORICAL CAL-SITES:

Facility ID: 01280092
Region: 2
Region Name: BERKELEY
Branch: NC
Branch Name: NORTH COAST
File Name: Not reported
State Senate District: 09102001
Status: AWP - ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency: DTSC
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type: RP
Type Name: RESPONSIBLE PARTY
NPL: Not Listed
SIC Code: 28
SIC Name: MANU - CHEMICALS & ALLIED PRODUCTS
Access: Not reported
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Not reported
Staff Member Responsible for Site: EGILLERA
Supervisor Responsible for Site: Not reported
Region Water Control Board: SF
Region Water Control Board Name: SAN FRANCISCO BAY
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 16
State Senate District Code: 09
Facility ID: 01280092
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: ISE
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 09142001
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01280092
Activity: CERT
Activity Name: CERTIFICATION
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: 07012005
Revised Due Date: 07012006
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01280092
Activity: RAW
Activity Name: REMOVAL ACTION WORKPLAN
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: 12312004
Revised Due Date: 11302005
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01280092
Activity: RA

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Activity Name:	REMOVAL ACTION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	04302005
Revised Due Date:	01312006
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0

Alternate Address:	2700 7TH STREET
Alternate City,St,Zip:	OAKLAND, CA 94607
Alternate Address:	2500 7TH STREET
Alternate City,St,Zip:	OAKLAND, CA 94607
Background Info:	The site is located along the edge of the Port of Oakland’s Outer Harbor. From 1958 to 1974, the site was occupied by the McGuire Chemical Company. McGurie blended, packaged and stored chemicals such as anti-freeze and various volatile organic chemicals (VOCs), including aromatic and chlorinated compounds. Potential contaminants at the site include: total petroleum hydrocarbons (TPH) as gasoline, diesel, and motor oil, tetrachloroethylene (PCE), trichloroethene (TCE), polynuclear aromatic hydrocarbons (PAHs), arsenic, and metals such as copper, nickel and lead. The chemicals were stored in above ground tanks. Investigations have found aromatic and chlorinated solvents in soil and groundwater in the former area of the above ground tanks. The site currently operates as a marine container terminal.
Comments Date:	02042004
Comments:	Approved final RI. To characterize the extent of soil and
Comments Date:	02042004
Comments:	groundwater contamination, the site’s soils and groundwater were
Comments Date:	02042004
Comments:	investigated in phases. The primary contaminants of concern are
Comments Date:	02042004
Comments:	VOCs and TPH.
Comments Date:	09142001
Comments:	Issued I&SE Order requiring the Port of Oakland to investigate
Comments Date:	09142001
Comments:	the site and to conduct remedials as necessary.
ID Name:	CALSTARS CODE
ID Value:	201392
Alternate Name:	PORT OF OAKLAND, BERTH 25 AND 26MC GUIRE CHEMICAL COMPANY
Special Programs Code:	Not reported
Special Programs Name:	Not reported

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

CA WDS:

Facility ID: San Francisco Bay 01I002461
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 2
Facility Telephone: 5108390790
Facility Contact: RUSS PALCER
Agency Name: TRANSBAY CONTAINER TERMINAL
Agency Address: 2500 7th St
Agency City,St,Zip: Oakland 946071008
Agency Contact: RUSS POLCER
Agency Telephone: 5108390790
Agency Type: ?
SIC Code: 0
SIC Code 2: Not reported
Primary Waste: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

NPDES:

Npdes Number: CAS00001
Facility Status: Terminated
Agency Id: N/A
Region: 2
Regulatory Measure Id: Not Available
Order No: Not reported
Regulatory Measure Type: Enrollee
Place Id: Not Available
WDID: 2 01I002461
Program Type: Industrial
Adoption Date Of Regulatory Measure: N/A

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Effective Date Of Regulatory Measure:	4/1/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	10/25/2010
Discharge Name:	Transbay Container Terminal I
Discharge Address:	2500 7th St
Discharge City:	Oakland
Discharge State:	Ca
Discharge Zip:	94607

Cortese:

Region:	CORTESE
Envirostor Id:	1280092
Site/Facility Type:	STATE RESPONSE
Cleanup Status:	ACTIVE
Status Date:	9/10/2001
Site Code:	201392
Latitude:	37.810868914073
Longitude:	-122.321519851685
EPA Id:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Effective Date:	Not reported
Order No:	Not reported
Region:	Not reported
WDID:	Not reported
Swat R:	Not reported
Waste Discharger System Num:	Not reported
Solid Waste Id Num:	Not reported
Waste Management Unit Name:	Not reported
Agency Name:	Not reported

CHMIRS:

OES Incident Number:	’10-1859
OES notification:	3/17/2010 11:03:00 PM
OES Date:	Not reported
OES Time:	Not reported
Incident Date:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
Special Studies 1:	Not reported
Special Studies 2:	Not reported
Special Studies 3:	Not reported
Special Studies 4:	Not reported
Special Studies 5:	Not reported
Special Studies 6:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA/DOT/PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Comments: Not reported
Facility Telephone: Not reported
Waterway Involved: Yes
Waterway: San Francisco Bay
Spill Site: Ship/Harbor/Port
Cleanup By: Reporting Party
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Gal(s)
Other: Not reported
Date/Time: 2230
Year: 2010
Agency: TransBay Container Terminal
Incident Date: 3/17/2010
Admin Agency: City of Oakland Fire Department
Amount: Not reported
Contained: Yes
Site Type: San Francisco Bay
E Date: Not reported
Substance: Hydraulic Fluid
Quantity Released: 1
BBLS: Not reported
Cups: Not reported
CUFT: Not reported
Gallons: Not reported
Grams: Not reported
Pounds: Not reported
Liters: Not reported
Ounces: Not reported
Pints: Not reported
Quarts: Not reported
Sheen: Not reported
Tons: Not reported
Unknown: Not reported
Evacuations: Not reported
Number of Injuries: Not reported
Number of Fatalities: Not reported
Description: A hydraulic line on a crane broke causing the spill.

AWP:
AWP Facility ID: 01280092
Region Code: 2
Region: BERKELEY
SMBR Branch Code: NC
SMBR Branch Unit: NORTH COAST

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Site Name.: Not reported
Current Status Date: 09102001
Current Status: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency Code: DTSC
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type: responsible party
Awp Site Type: RESPONSIBLE PARTY
NPL: Not Listed
Tier Of AWP Site: Not reported
Source Of Funding: C
Responsible Staff Member: EGILLERA
Supervisor Responsible: Not reported
SIC Code: 28
Facility SIC: MANU - CHEMICALS & ALLIED PRODUCTS
RWQCB Code: SF
RWQCB Associated With Site: SAN FRANCISCO BAY
Site Access Controlled: Not reported
Site Listed HWS List: Not reported
Hazard Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Not reported
Of Contamination Sources: 0
Lat/Long: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Description Of Entity: Not reported
State Assembly Distt Code: 16
State Senate District: 09

RESPONSE:
Facility ID: 01280092
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: 6.5
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: JUANITA (NINA) BACEY
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 201392
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 16
Senate: 09
Special Program Status: Not reported
Status: Active
Status Date: 09/10/2001
Restricted Use: NO
Funding: Responsible Party
Latitude: 37.810868914073
Longitude: -122.321519851685
APN: NONE SPECIFIED
Past Use: MANUFACTURING - CHEMICALS
Potential COC: 30019, 30022, 30024, 30025, 30027
Confirmed COC: 30019,30022,30024,30025,30027
Potential Description: OTH, SOIL, SV

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Alias Name:	MC GUIRE CHEMICAL COMPANY
Alias Type:	Alternate Name
Alias Name:	110021334108
Alias Type:	EPA (FRS #)
Alias Name:	110033612099
Alias Type:	EPA (FRS #)
Alias Name:	201392
Alias Type:	Project Code (Site Code)
Alias Name:	01280092
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/07/2009
Comments:	Annual cost estimate to RP completed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	08/05/2009
Comments:	Letter send Aug. 5, 2009.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	06/24/2003
Comments:	Order amended to redefine Site boundaries.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Community Profile
Completed Date:	10/25/2004
Comments:	Community Profile approved.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Workplan
Completed Date:	09/28/2001
Comments:	Workplan approved.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	02/04/2004
Comments:	The final RI report noted:1) there is an upgradient TPH contamination migrating onto the site; 2) on-site VOC contamination appears to be limited in soil and groundwater; and 3) PAH contamination appears to be limited in scope and is related to the old wood pilings located on site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	04/27/2007
Comments:	Final RAW approved.

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	03/01/2007
Comments:	Fact sheet finalized. Public comment period to begin on 3/12/2007.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	03/01/2007
Comments:	Public notice finalized. Public comment period to begin on 3/12/2007.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	03/15/2006
Comments:	Sampling conducted from 3/13/2006 through 3/15/2006 to accommodate wharf schedule.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Workplan
Completed Date:	02/16/2006
Comments:	Workplan approved. Air and soil gas sampling date to be determined according to Port schedule.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	07/28/2006
Comments:	Technical Memorandum for Air Quality Investigation and Soil Gas Survey approved.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Workplan
Completed Date:	10/10/2008
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	11/09/2008
Comments:	Floor sealing and first air monitoring report accepted on February 11, 2009.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	12/21/2008
Comments:	Finished the air sampling. Analytical results & summary will be included in the 1st Indoor Air Monitoring Report.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	07/26/2009

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Comments:	Air sampling completed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Report
Completed Date:	10/01/2009
Comments:	Indoor air results were no different than outdoor or bay area background.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Plan
Completed Date:	10/27/2010
Comments:	O&M Plan & Soil Mgmt Plan has added info regarding the import of "clean" soil to the site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	11/10/2008
Comments:	Completed review, accepted results.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	02/11/2009
Comments:	Report accepted.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	03/04/2009
Comments:	Report accepted.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	04/15/2009
Comments:	Concurred with results.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	11/30/2009
Comments:	GW monitoring report approved. VOC concentrations have steadily declined or remained stable with the exception of one spike in December 2008. Total petroluem hydrocarbons concentrations are also stable.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	08/19/2009
Comments:	No response required
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Completed Document Type: Other Report
Completed Date: 09/15/2009
Comments: No response required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/27/2009
Comments: No comments or questions.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/27/2009
Comments: No Comments or Questions

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/16/2009
Comments: No comments or questions on monthly report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/19/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/14/2010
Comments: Dissolved concentrations of TPH-g, TEPH-d, TEPH-mo in groundwater appear stable. Concentrations of chlorinated aliphatics in some wells is decreasing.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 09/14/2010
Comments: Report is acceptable. Groundwater monitoring will continue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 01/20/2011
Comments: Report shows contaminants are decreasing and/or stable in GW.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/06/2010
Comments: Annual cost estimate for 2010/2011 fiscal year.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Completed Date:	04/19/2007
Comments:	NOE signed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	09/14/2001
Comments:	Issued I&SE Order requiring the Port of Oakland to investigate the site and to conduct remediation as necessary.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Land Use Restriction
Schedule Due Date:	12/30/2010
Schedule Revised Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Certification
Schedule Due Date:	12/31/2011
Schedule Revised Date:	Not reported

HAZNET:

Year:	2010
Gepaid:	CAL000345403
Contact:	MICHAEL STAFL
Telephone:	5108390970
Mailing Name:	Not reported
Mailing Address:	2500 7TH ST
Mailing City,St,Zip:	OAKLAND, CA 946071008
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Unspecified oil-containing waste
Disposal Method:	OTHER RECOVERY OF RECLAMATION FOR REUSE INCLUDING ACID REGENERATION, ORGANICS RECOVERY ECT
Tons:	2.3769
Facility County:	Alameda
Year:	2010
Gepaid:	CAL000345403
Contact:	MICHAEL STAFL
Telephone:	5108390970
Mailing Name:	Not reported
Mailing Address:	2500 7TH ST
Mailing City,St,Zip:	OAKLAND, CA 946071008
Gen County:	Not reported
TSD EPA ID:	NVT330010000
TSD County:	Not reported
Waste Category:	Oil/water separation sludge
Disposal Method:	OTHER RECOVERY OF RECLAMATION FOR REUSE INCLUDING ACID REGENERATION, ORGANICS RECOVERY ECT
Tons:	0.4
Facility County:	Alameda

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Year: 2010
Gepaid: CAL000345403
Contact: MICHAEL STAFL
Telephone: 5108390970
Mailing Name: Not reported
Mailing Address: 2500 7TH ST
Mailing City,St,Zip: OAKLAND, CA 946071008
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: OTHER RECOVERY OF RECLAMATION FOR REUSE INCLUDING ACID REGENERATION, ORGANICS RECOVERY ECT
Tons: 1.8348
Facility County: Alameda

Year: 2010
Gepaid: CAL000345403
Contact: MICHAEL STAFL
Telephone: 5108390970
Mailing Name: Not reported
Mailing Address: 2500 7TH ST
Mailing City,St,Zip: OAKLAND, CA 946071008
Gen County: Not reported
TSD EPA ID: CA0000084517
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons: 0.1344
Facility County: Alameda

Year: 2010
Gepaid: CAL000345403
Contact: MICHAEL STAFL
Telephone: 5108390970
Mailing Name: Not reported
Mailing Address: 2500 7TH ST
Mailing City,St,Zip: OAKLAND, CA 946071008
Gen County: Not reported
TSD EPA ID: TXD077603371
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE
Tons: 0.03
Facility County: Alameda

Click this hyperlink while viewing on your computer to access
5 additional CA_HAZNET: record(s) in the EDR Site Report.

EMI:
Year: 2001
County Code: 1
Air Basin: SF
Facility ID: 12387
Air District Name: BA
SIC Code: 4491

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 1
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 2002
County Code: 1
Air Basin: SF
Facility ID: 12387
Air District Name: BA
SIC Code: 4491
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 1
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 2003
County Code: 1
Air Basin: SF
Facility ID: 12387
Air District Name: BA
SIC Code: 4491
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 1
NOX - Oxides of Nitrogen Tons/Yr: 3
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 2004
County Code: 1
Air Basin: SF
Facility ID: 12387
Air District Name: BA
SIC Code: 4491
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.205
Reactive Organic Gases Tons/Yr: 0.1715235
Carbon Monoxide Emissions Tons/Yr: 0.545

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

NOX - Oxides of Nitrogen Tons/Yr: 2.612
SOX - Oxides of Sulphur Tons/Yr: 0.005
Particulate Matter Tons/Yr: 0.01
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0.00976

Year: 2005
County Code: 1
Air Basin: SF
Facility ID: 12387
Air District Name: BA
SIC Code: 4491
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 2.601
Reactive Organic Gases Tons/Yr: 2.1762567
Carbon Monoxide Emissions Tons/Yr: 7.17
NOX - Oxides of Nitrogen Tons/Yr: 32.968
SOX - Oxides of Sulphur Tons/Yr: .041
Particulate Matter Tons/Yr: .047
Part. Matter 10 Micrometers & Smllr Tons/Yr: .045872

Year: 2006
County Code: 1
Air Basin: SF
Facility ID: 12387
Air District Name: BA
SIC Code: 4491
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1.3
Reactive Organic Gases Tons/Yr: 1.08771
Carbon Monoxide Emissions Tons/Yr: 2.868
NOX - Oxides of Nitrogen Tons/Yr: 32.968
SOX - Oxides of Sulphur Tons/Yr: .51
Particulate Matter Tons/Yr: .047
Part. Matter 10 Micrometers & Smllr Tons/Yr: .045872

Year: 2007
County Code: 1
Air Basin: SF
Facility ID: 12387
Air District Name: BA
SIC Code: 4491
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: .137
Reactive Organic Gases Tons/Yr: .1146279
Carbon Monoxide Emissions Tons/Yr: .294
NOX - Oxides of Nitrogen Tons/Yr: 3.386
SOX - Oxides of Sulphur Tons/Yr: .002
Particulate Matter Tons/Yr: .005
Part. Matter 10 Micrometers & Smllr Tons/Yr: .00488

Year: 2007

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

County Code:	1
Air Basin:	SF
Facility ID:	12387
Air District Name:	BA
SIC Code:	4491
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.3
Reactive Organic Gases Tons/Yr:	1.08771
Carbon Monoxide Emissions Tons/Yr:	2.868
NOX - Oxides of Nitrogen Tons/Yr:	32.968
SOX - Oxides of Sulphur Tons/Yr:	.51
Particulate Matter Tons/Yr:	.047
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.045872

ENVIROSTOR:

Site Type:	State Response
Site Type Detailed:	State Response or NPL
Acres:	6.5
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	JUANITA (NINA) BACEY
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	01280092
Site Code:	201392
Assembly:	16
Senate:	09
Special Program:	Not reported
Status:	Active
Status Date:	09/10/2001
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.810868914073
Longitude:	-122.321519851685
APN:	NONE SPECIFIED
Past Use:	MANUFACTURING - CHEMICALS
Potential COC:	30019, 30022, 30024, 30025, 30027
Confirmed COC:	30019,30022,30024,30025,30027
Potential Description:	OTH, SOIL, SV
Alias Name:	MC GUIRE CHEMICAL COMPANY
Alias Type:	Alternate Name
Alias Name:	110021334108
Alias Type:	EPA (FRS #)
Alias Name:	110033612099
Alias Type:	EPA (FRS #)
Alias Name:	201392
Alias Type:	Project Code (Site Code)
Alias Name:	01280092
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/07/2009
Comments:	Annual cost estimate to RP completed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	08/05/2009
Comments:	Letter send Aug. 5, 2009.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	06/24/2003
Comments:	Order amended to redefine Site boundaries.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Community Profile
Completed Date:	10/25/2004
Comments:	Community Profile approved.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Workplan
Completed Date:	09/28/2001
Comments:	Workplan approved.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	02/04/2004
Comments:	The final RI report noted:1) there is an upgradient TPH contamination migrating onto the site; 2) on-site VOC contamination appears to be limited in soil and groundwater; and 3) PAH contamination appears to be limited in scope and is related to the old wood pilings located on site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	04/27/2007
Comments:	Final RAW approved.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	03/01/2007
Comments:	Fact sheet finalized. Public comment period to begin on 3/12/2007.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	03/01/2007
Comments:	Public notice finalized. Public comment period to begin on 3/12/2007.
Completed Area Name:	PROJECT WIDE

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	03/15/2006
Comments:	Sampling conducted from 3/13/2006 through 3/15/2006 to accommodate wharf schedule.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Workplan
Completed Date:	02/16/2006
Comments:	Workplan approved. Air and soil gas sampling date to be determined according to Port schedule.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	07/28/2006
Comments:	Technical Memorandum for Air Quality Investigation and Soil Gas Survey approved.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Workplan
Completed Date:	10/10/2008
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	11/09/2008
Comments:	Floor sealing and first air monitoring report accepted on February 11, 2009.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	12/21/2008
Comments:	Finished the air sampling. Analytical results & summary will be included in the 1st Indoor Air Monitoring Report.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	07/26/2009
Comments:	Air sampling completed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Report
Completed Date:	10/01/2009
Comments:	Indoor air results were no different than outdoor or bay area background.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Plan
Completed Date:	10/27/2010

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Comments: O&M Plan & Soil Mgmt Plan has added info regarding the import of "clean" soil to the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/10/2008
Comments: Completed review, accepted results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 02/11/2009
Comments: Report accepted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/04/2009
Comments: Report accepted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/15/2009
Comments: Concurred with results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/30/2009
Comments: GW monitoring report approved. VOC concentrations have steadily declined or remained stable with the exception of one spike in December 2008. Total petroluem hydrocarbons concentrations are also stable.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/19/2009
Comments: No response required

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/15/2009
Comments: No response required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/27/2009
Comments: No comments or questions.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Completed Date:	10/27/2009
Comments:	No Comments or Questions
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	11/16/2009
Comments:	No comments or questions on monthly report
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	01/19/2010
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	04/14/2010
Comments:	Dissolved concentrations of TPH-g, TEPH-d, TEPH-mo in groundwater appear stable. Concentrations of chlorinated aliphatics in some wells is decreasing.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	09/14/2010
Comments:	Report is acceptable. Groundwater monitoring will continue.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	01/20/2011
Comments:	Report shows contaminants are decreasing and/or stable in GW.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	08/06/2010
Comments:	Annual cost estimate for 2010/2011 fiscal year.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	04/19/2007
Comments:	NOE signed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	09/14/2001
Comments:	Issued I&SE Order requiring the Port of Oakland to investigate the site and to conduct remediation as necessary.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported

PORT OF OAKLAND, BERTH 25 AND 26 (Continued) **S105940082**

Future Due Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Land Use Restriction
Schedule Due Date:	12/30/2010
Schedule Revised Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Certification
Schedule Due Date:	12/31/2011
Schedule Revised Date:	Not reported

112
ESE
1/2-1
0.810 mi.
4277 ft.

Relative:
Equal

Actual:
14 ft.

CONDOR FREIGHT
324 UNION ST
OAKLAND, CA 94607

HIST CORTESE
LUST
CA FID UST
Alameda County CS
SWEEPS UST
VCP
ENVIROSTOR

1000191295
N/A

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	CALSI
Reg Id:	01420126

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1305

LUST:

Region:	STATE
Global Id:	T0600101200
Latitude:	37.8020027
Longitude:	-122.2912125
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	11/06/1997
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	SH
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-1305
LOC Case Number:	RO0000989
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0600101200
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND

CONDOR FREIGHT (Continued) **1000191295**

Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported
Global Id:	T0600101200
Contact Type:	Local Agency Caseworker
Contact Name:	SUSAN HUGO
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0600101200
Action Type:	REMEDIATION
Date:	1950-01-01 00:00:00
Action:	Excavate and Dispose
Global Id:	T0600101200
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Reported

LUST REG 2:

Region:	2
Facility Id:	01-1305
Facility Status:	Case Closed
Case Number:	1741
How Discovered:	Subsurface Monitoring
Leak Cause:	UNK
Leak Source:	UNK
Date Leak Confirmed:	Not reported
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	6/14/1995
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

CA FID UST:

Facility ID:	01000581
Regulated By:	UTNKA
Regulated ID:	00042073
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4157636628
Mail To:	Not reported
Mailing Address:	324 UNION ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	OAKLAND 94607
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported

CONDOR FREIGHT (Continued) **1000191295**

EPA ID: Not reported
Comments: Not reported
Status: Active

Alameda County CS:
Status: Case Closed
Record Id: RO0000989
PE: 5602

SWEEPS UST:
Status: Not reported
Comp Number: 42073
Number: Not reported
Board Of Equalization: 44-000414
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-042073-000001
Actv Date: Not reported
Capacity: 10000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: DIESEL
Number Of Tanks: 5

Status: Not reported
Comp Number: 42073
Number: Not reported
Board Of Equalization: 44-000414
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-042073-000002
Actv Date: Not reported
Capacity: 10000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 42073
Number: Not reported
Board Of Equalization: 44-000414
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-042073-000003
Actv Date: Not reported
Capacity: 1000

CONDOR FREIGHT (Continued) **1000191295**

Tank Use: OIL
Stg: PRODUCT
Content: NEW MOTOR OIL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 42073
Number: Not reported
Board Of Equalization: 44-000414
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-042073-000004
Actv Date: Not reported
Capacity: 500
Tank Use: OIL
Stg: WASTE
Content: WASTE OIL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 42073
Number: Not reported
Board Of Equalization: 44-000414
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-042073-000005
Actv Date: Not reported
Capacity: 500
Tank Use: PETROLEUM
Stg: PRODUCT
Content: STODDARD SOL
Number Of Tanks: Not reported

VCP:
Facility ID: 01420126
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1.4
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: LYNN NAKASHIMA
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Site Code: 200465
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: No Further Action

CONDOR FREIGHT (Continued) **1000191295**

Status Date: 10/01/1998
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.8017 / -122.2913
APN: NONE SPECIFIED
Past Use: VEHICLE MAINTENANCE
Potential COC: 10009, 10097, 30001, 30013, 30108
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: CONDOR FREIGHT
Alias Type: Alternate Name
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: 110033613579
Alias Type: EPA (FRS #)
Alias Name: 200465
Alias Type: Project Code (Site Code)
Alias Name: 01420126
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: Approved RAP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: Completed RIFS. Site investigation was conducted by Caltrans consultants in June 1992. Soil and groundwater samples were collected as part of the investigation. Groundwater was encountered at a depth of 6-7 feet. Soil samples revealed the following contaminants: total recoverable petroleum hydrocarbons (TRPH) as high as 6,700 ppm; TPH as diesel as high as 3,800 ppm; acetone-150 ppb; di-n-butylphthalate 0.9 ppm; bis (2-ethylhexyl)phthalate 0.9 ppm; pyrene 0.3 ppm; benzo-a-pyrene 0.3 ppm; lead (840 ppm). The following contaminants were detected in groundwater: arsenic (0.22 ppm); barium (1.1 ppm); and cadmium (0.02 ppm).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 12/28/1992
Comments: Completed Site Screening. It is a RCRA facility with five underground storage tanks. Of these, two are 10,000-gallon capacity diesel tanks, one is a waste oil tank, one is a fresh oil tank, and one is an abandoned solvent tank. The solvent tank is reportedly filled with water. All the tanks are reported to have tested leak-free in 1988, and recently.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: Signed VCA.

CONDOR FREIGHT (Continued) **1000191295**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Voluntary Cleanup Agreement Completion
Completed Date: 10/01/1998
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 1.4
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: LYNN NAKASHIMA
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Facility ID: 01420126
Site Code: 200465
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program
Status: No Further Action
Status Date: 10/01/1998
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8017
Longitude: -122.2913
APN: NONE SPECIFIED
Past Use: VEHICLE MAINTENANCE
Potential COC: 10009, 10097, 30001, 30013, 30108
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: CONDOR FREIGHT
Alias Type: Alternate Name
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: 110033613579
Alias Type: EPA (FRS #)
Alias Name: 200465
Alias Type: Project Code (Site Code)
Alias Name: 01420126
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

CONDOR FREIGHT (Continued) **1000191295**

Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: Approved RAP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: Completed RIFS. Site investigation was conducted by Caltrans consultants in June 1992. Soil and groundwater samples were collected as part of the investigation. Groundwater was encountered at a depth of 6-7 feet. Soil samples revealed the following contaminants: total recoverable petroleum hydrocarbons (TRPH) as high as 6,700 ppm; TPH as diesel as high as 3,800 ppm; acetone-150 ppb; di-n-butylphthalate 0.9 ppm; bis (2-ethylhexyl)phthalate 0.9 ppm; pyrene 0.3 ppm; benzo-a-pyrene 0.3 ppm; lead (840 ppm). The following contaminants were detected in groundwater: arsenic (0.22 ppm); barium (1.1 ppm); and cadmium (0.02 ppm).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 12/28/1992
Comments: Completed Site Screening. It is a RCRA facility with five underground storage tanks. Of these, two are 10,000-gallon capacity diesel tanks, one is a waste oil tank, one is a fresh oil tank, and one is an abandoned solvent tank. The solvent tank is reportedly filled with water. All the tanks are reported to have tested leak-free in 1988, and recently.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: Signed VCA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Voluntary Cleanup Agreement Completion
Completed Date: 10/01/1998
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

113 **SE** **1/2-1** **0.835 mi.** **4408 ft.**	**AMTRAK MAINTENANCE FACILITY** **3RD & UNION STREETS** **OAKLAND, CA 94607**	**VCP** **ENVIROSTOR**	**S104549015** **N/A**

Relative:
Lower

Actual:
12 ft.

VCP:

Facility ID:	01400014
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	18
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	JACINTO SOTO
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	201301
Assembly:	16
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified / Operation & Maintenance
Status Date:	06/30/2011
Restricted Use:	YES
Funding:	Responsible Party
Lat/Long:	37.8013888888889 / -122.291388888889
APN:	000-0390-003, 000-0390-005, 000-0390-006, 000-0390-010-3, 004-0025-008, 004-0025-009
Past Use:	RAIL ROAD MAINTENANCE SHOP, RAILROAD RIGHT OF WAY
Potential COC:	30001, 30013, 30024, 3002502, 30470, 30472
Confirmed COC:	30001,30013,30470,30472,30024,3002502
Potential Description:	SOIL
Alias Name:	AMTRACK MAINTENANCE FACILITY
Alias Type:	Alternate Name
Alias Name:	000-0390-003
Alias Type:	APN
Alias Name:	000-0390-005
Alias Type:	APN
Alias Name:	000-0390-006
Alias Type:	APN
Alias Name:	000-0390-010-3
Alias Type:	APN
Alias Name:	004-0025-008
Alias Type:	APN
Alias Name:	004-0025-009
Alias Type:	APN
Alias Name:	110033616004
Alias Type:	EPA (FRS #)
Alias Name:	200240
Alias Type:	Project Code (Site Code)
Alias Name:	201301
Alias Type:	Project Code (Site Code)
Alias Name:	01400014
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

AMTRAK MAINTENANCE FACILITY (Continued) **S104549015**

Completed Document Type:	Correspondence
Completed Date:	11/23/2009
Comments:	Cover letter responding to revisions to LUC.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/07/2010
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/22/2009
Comments:	DTSC oversight cost estimate and schedule for next fiscal year was sent to the RP.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	02/15/2002
Comments:	RAW approved requiring installation of cap over the site, institutional controls, groundwater monitoring, and limited PCB hot spot removal.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	06/30/2006
Comments:	Paving is complete at the site. The completion report will be submitted by mid August 2006.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	07/27/2007
Comments:	Report describe the removal of PCB contaminated soil were the Service and Inspection Building would be located, dewatering of the underlying groundwater and capping the area with asphalt pavement.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Report
Completed Date:	02/08/2006
Comments:	December 2005 Ground Water Monitoring Data Submittal.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Report
Completed Date:	11/08/2006
Comments:	Approved report including a request to discontinue groundwater monitoring and decommissioning on site monitoring wells.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	12/13/2001

AMTRAK MAINTENANCE FACILITY (Continued) **S104549015**

Comments:	Fact Sheet for Draft Removal Action Workplan
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	12/12/2001
Comments:	Public Notice for Site Cleanup
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Workplan
Completed Date:	03/23/2007
Comments:	Work plan to onsite wells has been approved.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	05/24/2007
Comments:	Monitoring wells have been closed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Report
Completed Date:	07/27/2007
Comments:	Report will be approved by 7/ 27/2007.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Plan
Completed Date:	07/27/2007
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	06/01/2001
Comments:	The combined data set from site investigations conducted to date provides sufficient data to adequately characterize soil conditions at the site for the purposes of assessing site risk and determining appropriate removal actions. Ground water data are sufficient to characterize current site risks posed by shallow on-site ground water and to determine appropriate removal actions, if warranted.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	02/21/2003
Comments:	As required by the RAW, UPRR has excavated and disposed of all soil containing PCBs greater than 1 mg/kg from beneath the footprint of the proposed service and inspection building.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence - Received
Completed Date:	05/12/2009
Comments:	Letter to inform the Department of Toxic Substances Control (Department) that Amtrak is planning construction activities on the

AMTRAK MAINTENANCE FACILITY (Continued) **S104549015**

above-referenced property.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence - Received
Completed Date:	06/18/2009
Comments:	Letter prompted by an e-mail dated May 26, 2009 from Jacinto Soto, DTSC’s Project Manager, to Jeff White, Amtrak’s Project Manager. In that e-mail Mr. Soto stated that the revision proposed to Section 4.01 (a) was "not accepted" because of benzo{a)pyrene concentrations above residential levels, and in some cases above commercial levels, in soil of the southeast parcels.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	05/26/2009
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	02/15/2002
Comments:	NOE
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	04/24/2000
Comments:	VCA signed with Amtrak and UPRR.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/30/2011
Comments:	Site has certified with operation and maintenance activities.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation & Maintenance Order/Agreement
Completed Date:	09/02/2010
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction
Completed Date:	06/30/2011
Comments:	LUC has been recorded.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Operations and Maintenance Report
Schedule Due Date:	6/5/2011

AMTRAK MAINTENANCE FACILITY (Continued) **S104549015**

Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 18
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: JACINTO SOTO
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 01400014
Site Code: 201301
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program
Status: Certified / Operation & Maintenance
Status Date: 06/30/2011
Restricted Use: YES
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8013888888889
Longitude: -122.291388888889
APN: 000-0390-003, 000-0390-005, 000-0390-006, 000-0390-010-3, 004-0025-008, 004-0025-009
Past Use: RAIL ROAD MAINTENANCE SHOP, RAILROAD RIGHT OF WAY
Potential COC: 30001, 30013, 30024, 3002502, 30470, 30472
Confirmed COC: 30001,30013,30470,30472,30024,3002502
Potential Description: SOIL
Alias Name: AMTRACK MAINTENANCE FACILITY
Alias Type: Alternate Name
Alias Name: 000-0390-003
Alias Type: APN
Alias Name: 000-0390-005
Alias Type: APN
Alias Name: 000-0390-006
Alias Type: APN
Alias Name: 000-0390-010-3
Alias Type: APN
Alias Name: 004-0025-008
Alias Type: APN
Alias Name: 004-0025-009
Alias Type: APN
Alias Name: 110033616004
Alias Type: EPA (FRS #)
Alias Name: 200240
Alias Type: Project Code (Site Code)
Alias Name: 201301
Alias Type: Project Code (Site Code)
Alias Name: 01400014
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence

AMTRAK MAINTENANCE FACILITY (Continued) **S104549015**

Completed Date: 11/23/2009
Comments: Cover letter responding to revisions to LUC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/07/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/22/2009
Comments: DTSC oversight cost estimate and schedule for next fiscal year was sent to the RP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 02/15/2002
Comments: RAW approved requiring installation of cap over the site, institutional controls, groundwater monitoring, and limited PCB hot spot removal.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/30/2006
Comments: Paving is complete at the site. The completion report will be submitted by mid August 2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 07/27/2007
Comments: Report describe the removal of PCB contaminated soil were the Service and Inspection Building would be located, dewatering of the underlying groundwater and capping the area with asphalt pavement.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 02/08/2006
Comments: December 2005 Ground Water Monitoring Data Submittal.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 11/08/2006
Comments: Approved report including a request to discontinue groundwater monitoring and decommissioning on site monitoring wells.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 12/13/2001
Comments: Fact Sheet for Draft Removal Action Workplan

AMTRAK MAINTENANCE FACILITY (Continued) **S104549015**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 12/12/2001
Comments: Public Notice for Site Cleanup

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 03/23/2007
Comments: Work plan to onsite wells has been approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 05/24/2007
Comments: Monitoring wells have been closed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 07/27/2007
Comments: Report will be approved by 7/ 27/2007.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 07/27/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 06/01/2001
Comments: The combined data set from site investigations conducted to date provides sufficient data to adequately characterize soil conditions at the site for the purposes of assessing site risk and determining appropriate removal actions. Ground water data are sufficient to characterize current site risks posed by shallow on-site ground water and to determine appropriate removal actions, if warranted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/21/2003
Comments: As required by the RAW, UPRR has excavated and disposed of all soil containing PCBs greater than 1 mg/kg from beneath the footprint of the proposed service and inspection building.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence - Received
Completed Date: 05/12/2009
Comments: Letter to inform the Department of Toxic Substances Control (Department) that Amtrak is planning construction activities on the above-referenced property.

AMTRAK MAINTENANCE FACILITY (Continued) **S104549015**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence - Received
Completed Date:	06/18/2009
Comments:	Letter prompted by an e-mail dated May 26, 2009 from Jacinto Soto, DTSC’s Project Manager, to Jeff White, Amtrak’s Project Manager. In that e-mail Mr. Soto stated that the revision proposed to Section 4.01 (a) was "not accepted" because of benzo{a)pyrene concentrations above residential levels, and in some cases above commercial levels, in soil of the southeast parcels.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	05/26/2009
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	02/15/2002
Comments:	NOE

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	04/24/2000
Comments:	VCA signed with Amtrak and UPRR.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/30/2011
Comments:	Site has certified with operation and maintenance activities.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation & Maintenance Order/Agreement
Completed Date:	09/02/2010
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction
Completed Date:	06/30/2011
Comments:	LUC has been recorded.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Operations and Maintenance Report
Schedule Due Date:	6/5/2011
Schedule Revised Date:	Not reported

AD114
NE
1/2-1
0.859 mi.
4535 ft.

ARMY-NAVY DISTRIBUTING CENTER (J09CA0753) **ENVIROSTOR** **S109348517**
2233 WOOD STREET **N/A**
EMERYVILLE, CA 94608

Site 1 of 2 in cluster AD

Relative:
Lower

Actual:
10 ft.

ENVIROSTOR:
Site Type: Military Evaluation
Site Type Detailed: FUDS
Acres: 3.08
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: CARRIE TATOIAN-CAIN
Supervisor: Charles Ridenour
Division Branch: Cleanup Sacramento
Facility ID: 80000374
Site Code: 201753
Assembly: 16
Senate: 09
Special Program: Not reported
Status: No Further Action
Status Date: 06/30/2008
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: DERA
Latitude: 37.8202777777778
Longitude: -122.2925
APN: NONE SPECIFIED
Past Use: TRANSPORTATION - WAREHOUSING
Potential COC: NONE SPECIFIED,31000
Confirmed COC: 31000
Potential Description: NMA
Alias Name: CA99799F569600
Alias Type: Federal Facility ID
Alias Name: J09CA0753
Alias Type: INPR
Alias Name: 201753
Alias Type: Project Code (Site Code)
Alias Name: 80000374
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 06/26/2008
Comments: DTSC concurred No Action is required. In the event new information indicates DoD activities have impacted the environment during DoD past ownership and operation, DTSC reserves the right to require additional investigation.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported

ARMY-NAVY DISTRIBUTING CENTER (J09CA0753) (Continued) **S109348517**

Schedule Revised Date: Not reported

AD115
NE
1/2-1
0.861 mi.
4547 ft.

LDS TRUCKING
2233 WOOD STREET
OAKLAND, CA 94607

VCP
ENVIROSTOR

S102008225
N/A

Site 2 of 2 in cluster AD

Relative:
Lower

Actual:
10 ft.

VCP:
Facility ID: 01420127
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1.25
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: JACINTO SOTO
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Site Code: 200456
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified
Status Date: 07/07/2008
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.8197222222222 / -122.291388888889
APN: NONE SPECIFIED
Past Use: RETAIL - SERVICE STATION
Potential COC: 30013, 30025
Confirmed COC: 30013,30025
Potential Description: OTH, SOIL
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: 110033607666
Alias Type: EPA (FRS #)
Alias Name: 200456
Alias Type: Project Code (Site Code)
Alias Name: 01420127
Alias Type: Envirostor ID Number
Alias Name: 01420127
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/07/1999
Comments: Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 07/07/2008

LDS TRUCKING (Continued) **S102008225**

Comments: DTSC has determined that the site does not pose a significant threat to public health or the environment, therefore no further investigation or cleanup is required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/07/1996
Comments: Approved PEA which confirm extent of contamination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: Approved Remedial Action Plan required that contaminated site soils be excavated and disposed at an off-site facility and groundwater monitoring be conducted pending removal of the underground tank. Groundwater monitoring to be conducted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: Investigation noted presence of underground storage tank. Soil and groundwater impacted with TPH.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 05/24/1993
Comments: Approval of investigation and remedial action options report, dated March 29, 1993. Site investigation noted debris and surface soil staining across site. Diesel tank present and soil sampling detected lead and gasoline.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 05/01/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/08/2007
Comments: Soil sampling was perfomed by 6/8/2007.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 12/09/2007
Comments: The RI report approval letter specifies that existing wells should be properly closed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Workplan

LDS TRUCKING (Continued) **S102008225**

Completed Date:	04/08/2008
Comments:	Wells will be closed by the end of April 2008.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	05/15/2008
Comments:	This report describes the tasks performed and methods utilized for decommissioning four groundwater monitoring wells at the former LDS Trucking facility.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	08/15/2002
Comments:	Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	1.25
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	JACINTO SOTO
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Facility ID:	01420127
Site Code:	200456
Assembly:	16
Senate:	09
Special Program:	Voluntary Cleanup Program
Status:	Certified
Status Date:	07/07/2008
Restricted Use:	NO

LDS TRUCKING (Continued) **S102008225**

Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8197222222222
Longitude: -122.291388888889
APN: NONE SPECIFIED
Past Use: RETAIL - SERVICE STATION
Potential COC: 30013, 30025
Confirmed COC: 30013,30025
Potential Description: OTH, SOIL
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: 110033607666
Alias Type: EPA (FRS #)
Alias Name: 200456
Alias Type: Project Code (Site Code)
Alias Name: 01420127
Alias Type: Envirostor ID Number
Alias Name: 01420127
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 01/07/1999
Comments: Amendment to the May 10, 1994 VCA, which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 07/07/2008
Comments: DTSC has determined that the site does not pose a significant threat to public health or the environment, therefore no further investigation or cleanup is required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/07/1996
Comments: Approved PEA which confirm extent of contamination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/14/1995
Comments: Approved Remedial Action Plan required that contaminated site soils be excavated and disposed at an off-site facility and groundwater monitoring be conducted pending removal of the underground tank. Groundwater monitoring to be conducted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 07/03/1995
Comments: Investigation noted presence of underground storage tank. Soil and groundwater impacted with TPH.

LDS TRUCKING (Continued) **S102008225**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	05/24/1993
Comments:	Approval of investigation and remedial action options report, dated March 29, 1993. Site investigation noted debris and surface soil staining across site. Diesel tank present and soil sampling detected lead and gasoline.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Workplan
Completed Date:	05/01/2007
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	06/08/2007
Comments:	Soil sampling was perfomed by 6/8/2007.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	12/09/2007
Comments:	The RI report approval letter specifies that existing wells should be properly closed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Well Decommissioning Workplan
Completed Date:	04/08/2008
Comments:	Wells will be closed by the end of April 2008.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	05/15/2008
Comments:	This report describes the tasks performed and methods utilized for decommissioning four groundwater monitoring wells at the former LDS Trucking facility.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	08/15/2002
Comments:	Amendment to the 5/10/1994 VCA to amend Section 3.16, "Payment" and Section 3.35, "Time Periods".
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/10/1994
Comments:	VCA signed with Caltrans. This project is part of the Cypress Reconstruction Project. In entering into this Agreement, it is the objective of the Parties to conduct Preliminary Endangerment Assessments, removal actions, necessary implementation, risk

LDS TRUCKING (Continued) **S102008225**

assessment, design review and/or a Remedial Action Plan as required on a site by site evaluation.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

116
SSE
1/2-1
0.880 mi.
4649 ft.

Relative:
Lower

Actual:
8 ft.

SHEREX CHEMICAL COMPANY INC
1401 MIDDLE HARBOR RD
OAKLAND, CA 94607

CERC-NFRAP
RCRA-NonGen
FINDS
HIST CORTESE
CA FID UST
SLIC
HIST UST
SWEEPS UST
ENVIROSTOR

1000356959
CAD990788168

CERC-NFRAP:

Site ID:	0903629
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID:	13052631.00000
Person ID:	9271184.00000
Contact Sequence ID:	13058705.00000
Person ID:	9270048.00000
Contact Sequence ID:	13089427.00000
Person ID:	13002167.00000
Contact Sequence ID:	13178212.00000
Person ID:	9270438.00000

CERCLIS-NFRAP Site Alias Name(s):

Alias Name:	MIDDLE HARBOR RD
Alias Address:	Not reported CA

CERCLIS-NFRAP Assessment History:

Action:	DISCOVERY
Date Started:	Not reported
Date Completed:	12/01/1987
Priority Level:	Not reported
Action:	ARCHIVE SITE
Date Started:	Not reported
Date Completed:	07/05/1989

SHEREX CHEMICAL COMPANY INC (Continued) **1000356959**

Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 07/05/1989
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

RCRA-NonGen:
Date form received by agency: 08/18/1980
Facility name: SHEREX CHEMICAL COMPANY INC
Facility address: 1401 MIDDLE HARBOR RD
OAKLAND, CA 94607
EPA ID: CAD990788168
Mailing address: PO BOX 599
OAKLAND, CA 94604
Contact: ENVIRONMENTAL MANAGER
Contact address: 1401 MIDDLE HARBOR RD
OAKLAND, CA 94607
Contact country: US
Contact telephone: (415) 832-3882
Contact email: Not reported
EPA Region: 09
Land type: Other land type
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: ASAG INC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No

SHEREX CHEMICAL COMPANY INC (Continued) **1000356959**

Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date:	11/22/1985
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State

Evaluation date:	12/12/1983
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	EPA

FINDS:

Registry ID: 110002903733

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	CALSI
Reg Id:	01730096

CA FID UST:

Facility ID:	01002240
Regulated By:	UTNKI
Regulated ID:	00059372
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4158323882
Mail To:	Not reported
Mailing Address:	1401 MIDDLE HARBOR RD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	OAKLAND 94607
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported

SHEREX CHEMICAL COMPANY INC (Continued) **1000356959**

NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

SLIC:

Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	06/02/2009
Global Id:	T0600191494
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.798797
Longitude:	-122.294135
Case Type:	Cleanup Program Site
Case Worker:	UUU
Local Agency:	Not reported
RB Case Number:	01S0085
File Location:	Not reported
Potential Media Affected:	Under Investigation
Potential Contaminants of Concern:	Toluene
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SLIC:

Region:	2
Facility ID:	01S0085
Facility Status:	Preliminary site assessment underway
Date Closed:	Not reported
Local Case #:	Not reported
How Discovered:	Tank Closure
Leak Cause:	UNK
Leak Source:	UNK
Date Confirmed:	Not reported
Date Prelim Site Assmnt Workplan Submitted:	Not reported
Date Preliminary Site Assessment Began:	6/16/1994
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

HIST UST:

Region:	STATE
Facility ID:	00000059372
Facility Type:	Other
Other Type:	MANUFACTURING
Total Tanks:	0002
Contact Name:	R.W. FISHER, PLT MGR/F.W. TREF
Telephone:	4158323882
Owner Name:	SHEREX CHEMICAL COMPANY, INC.
Owner Address:	1401 MIDDLE HARBOR ROAD
Owner City,St,Zip:	OAKLAND, CA 94607

Tank Num:	001
Container Num:	U1

SHEREX CHEMICAL COMPANY INC (Continued) **1000356959**

Year Installed: 1935
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: Not reported
Leak Detection: Visual

Tank Num: 002
Container Num: U2
Year Installed: Not reported
Tank Capacity: 00000550
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: Not reported
Leak Detection: Visual

SWEEPS UST:
Status: Not reported
Comp Number: 59372
Number: Not reported
Board Of Equalization: 44-000592
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-059372-000001
Actv Date: Not reported
Capacity: 12000
Tank Use: UNKNOWN
Stg: PRODUCT
Content: Not reported
Number Of Tanks: 2

Status: Not reported
Comp Number: 59372
Number: Not reported
Board Of Equalization: 44-000592
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-059372-000002
Actv Date: Not reported
Capacity: 550
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

ENVIROSTOR:
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 5.5
NPL: NO

SHEREX CHEMICAL COMPANY INC (Continued) **1000356959**

Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Denise Tsuji
Division Branch: Cleanup Berkeley
Facility ID: 01730096
Site Code: Not reported
Assembly: 16
Senate: 09
Special Program: EPA - PASI
Status: Refer: Local Agency
Status Date: 09/17/2009
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: EPA Grant
Latitude: 37.7936093623006
Longitude: -122.296693325043
APN: NONE SPECIFIED
Past Use: MANUFACTURING - CHEMICALS
Potential COC: 10061, 10097, 10098, 10199, 20001, 20011, 30013, 30108, 30153, 30407
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: ASHLAND CHEMICAL CO.
Alias Type: Alternate Name
Alias Name: EL DORADO OIL WORKS
Alias Type: Alternate Name
Alias Name: FOREMOST DAIRIES
Alias Type: Alternate Name
Alias Name: FOREMOST MCKESSON CO.
Alias Type: Alternate Name
Alias Name: MIDDLE HARBOR ROAD
Alias Type: Alternate Name
Alias Name: T0600191494
Alias Type: GeoTracker Global ID
Alias Name: CAD990788168
Alias Type: HWTS Identification Code
Alias Name: 01730096
Alias Type: Envirostor ID Number
Alias Name: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T060191494
Alias Type: External Website Link / URL

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 10/19/1988
Comments: Preliminary Assessment Done: Groundwater contamination identified. Site Inspection needed to assess extent of contamination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 06/01/1987
Comments: Site Screening Done: DHS received complaint report. Based on available information, recommend Preliminary Assessment to obtain additional info.

SHEREX CHEMICAL COMPANY INC (Continued) **1000356959**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 09/17/2009
Comments: Final & Signed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 10/07/1980
Comments: Facility identified via drive-by.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

117
ENE
1/2-1
0.905 mi.
4777 ft.

MANDELA GRAND
MANDELA PARKWAY AND WEST GRAND
OAKLAND, CA 94607

VCP
ENVIROSTOR

S108195929
N/A

Relative:
Lower

Actual:
11 ft.

VCP:
Facility ID: 60000433
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 13.5
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: JUANITA (NINA) BACEY
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 201723
Assembly: 16
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Inactive - Needs Evaluation
Status Date: 08/05/2009
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.8157321405365 / -122.288815253778
APN: 005-040-0001-01, 005-040-1001-04, 005-040-2004-02, 005-040-2005-02, 005-040-2006-00, 005-041-9001-04, 005-042-0001-03, 005-042-0001-05
Past Use: MANUFACTURING - METAL, RETAIL - SERVICE STATION
Potential COC: 30013, 30024, 30025, 3002502, 30108
Confirmed COC: 30024-NO,30025-NO,30108-NO,30013-NO,3002502-NO
Potential Description: SOIL
Alias Name: American Steel
Alias Type: Alternate Name

MANDELA GRAND (Continued) **S108195929**

Alias Name: Pacific Pipe
Alias Type: Alternate Name
Alias Name: 005-040-0001-01
Alias Type: APN
Alias Name: 005-040-1001-04
Alias Type: APN
Alias Name: 005-040-2004-02
Alias Type: APN
Alias Name: 005-040-2005-02
Alias Type: APN
Alias Name: 005-040-2006-00
Alias Type: APN
Alias Name: 005-041-9001-04
Alias Type: APN
Alias Name: 005-042-0001-03
Alias Type: APN
Alias Name: 005-042-0001-05
Alias Type: APN
Alias Name: 110033608549
Alias Type: EPA (FRS #)
Alias Name: 201723
Alias Type: Project Code (Site Code)
Alias Name: 60000433
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 13.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: JUANITA (NINA) BACEY
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 60000433
Site Code: 201723
Assembly: 16
Senate: 09
Special Program: Voluntary Cleanup Program

MANDELA GRAND (Continued) **S108195929**

Status: Inactive - Needs Evaluation
Status Date: 08/05/2009
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.8157321405365
Longitude: -122.288815253778
APN: 005-040-0001-01, 005-040-1001-04, 005-040-2004-02, 005-040-2005-02, 005-040-2006-00, 005-041-9001-04, 005-042-0001-03, 005-042-0001-05
Past Use: MANUFACTURING - METAL, RETAIL - SERVICE STATION
Potential COC: 30013, 30024, 30025, 3002502, 30108
Confirmed COC: 30024-NO,30025-NO,30108-NO,30013-NO,3002502-NO
Potential Description: SOIL
Alias Name: American Steel
Alias Type: Alternate Name
Alias Name: Pacific Pipe
Alias Type: Alternate Name
Alias Name: 005-040-0001-01
Alias Type: APN
Alias Name: 005-040-1001-04
Alias Type: APN
Alias Name: 005-040-2004-02
Alias Type: APN
Alias Name: 005-040-2005-02
Alias Type: APN
Alias Name: 005-040-2006-00
Alias Type: APN
Alias Name: 005-041-9001-04
Alias Type: APN
Alias Name: 005-042-0001-03
Alias Type: APN
Alias Name: 005-042-0001-05
Alias Type: APN
Alias Name: 110033608549
Alias Type: EPA (FRS #)
Alias Name: 201723
Alias Type: Project Code (Site Code)
Alias Name: 60000433
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

118
West
1/2-1
0.906 mi.
4783 ft.

C-103 YARD
2700 7TH STEET
OAKLAND, CA 92626

Notify 65 **S100178868**
N/A

Relative:
Lower

Actual:
8 ft.

Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 92626

119
NE
1/2-1
0.932 mi.
4923 ft.

ARMY-NAVY DISTRIBUTING CENTER

OAKLAND, CA

FUDS **1007211908**
N/A

Relative:
Lower

Actual:
10 ft.

FUDS:
Federal Facility ID: CA9799F5696
FUDS #: J09CA0753
INST ID: 57292
Facility Name: Army-Navy Distributing Center
City: OAKLAND
State: CA
EPA Region: 9
County: ALAMEDA
Congressional District: 09
US Army District: Sacramento District (SPK)
Fiscal Year: 2009
Telephone: 916-557-7461
NPL Status: Not Listed
RAB: Not reported
CTC: 1.99346
Current Owner: PRIVATE

FUDS Description Details:

The site is 3.08 acres and is located in the City of Oakland in
Alameda County, CA. Two 10,000-gallon underground storage tanks
(USTs), a pumping station, a diesel fuel dispenser, and two fill pipes
were installed and used by the Santa Fe Land and Im
mprovement Company prior to and after Department of Defense leased the
property. The USTs were last used in June 1962 for diesel fuel storage
and dispensing. A private individual currently owns the property and
leases it to LDS Truck Lines and A.M. a
and S Transportation Company for use as a warehouse and truck
distributing center.

FUDS History Details:

On 15 October 1943, the War Department leased a total of 3.08 acres
from the Santa Fe Land and Improvement Company. The 9th District’s
Transportation Officer used the site for warehousing facilities,
trucking operations, and as a distribution center.
. The War Department terminated the lease on 15 June 1946 and the site
reverted back to the Santa Fe Land and Improvement Company. In 1982
the property was sold to a private individual. There are no potential
hazards related to previous DoD activitie
es currently identified at this site.

ARMY-NAVY DISTRIBUTING CENTER (Continued) **1007211908**

FUDS Current Program Details:

FUDS Future Program Details:

120
North
1/2-1
0.972 mi.
5130 ft.

OAB HEROIC WAR DEAD USAR AKA: HEROIC W
2400 ENGINEER ROAD
OAKLAND, CA 94604

HIST Cal-Sites
Cortese
MCS
RESPONSE
ENVIROSTOR

S105954429
N/A

Relative:
Lower

Actual:
8 ft.

HISTORICAL CAL-SITES:
Facility ID: 01970015
Region: 2
Region Name: BERKELEY
Branch: NO
Branch Name: OMF-NORTHERN CALIF
File Name: OAB HEROIC WAR DEAD USAR
State Senate District: 07232003
Status: AWP - ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency: DTSC
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type: OPEN
Type Name: OPEN MILITARY BASE
NPL: Not Listed
SIC Code: 97
SIC Name: NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Access: Not reported
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Not reported
Staff Member Responsible for Site: HWONG
Supervisor Responsible for Site: Not reported
Region Water Control Board: Not reported
Region Water Control Board Name: Not reported
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 16
State Senate District Code: 09
Facility ID: 01970015
Activity: RAW
Activity Name: REMOVAL ACTION WORKPLAN
AWP Code: IR1
Proposed Budget: 0
AWP Completion Date: 04152003
Revised Due Date: Not reported
Comments Date: 04152003
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01970015
Activity: CEQA
Activity Name: CEQA INCLUDING NEGATIVE DECS
AWP Code: IR1
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 04152003
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Alternate Address: 2400 ENGINEER ROAD
Alternate City,St,Zip: OAKLAND, CA 94604
Alternate Address: 4235 YORKTOWN AVENUE
Alternate City,St,Zip: LOS ALAMITOS, CA 90720
Background Info: OAB Heroic War Dead USAR, also known as the United States Army Reserve Center, Oakland, is located near the eastern terminus of the San Francisco-Oakland Bay Bridge. Installation Restoration (IR) Site 1 is located at the northwestern portion of the USAR Center. The site consists of a wash rack (WR) which is a concrete pad, a below-grade oil water separator (OWS), and the surrounding soil. The WR/OWS is approximately 15-feet by 20-feet in dimension. The site immediately surrounding the WR/OWS is unpaved and covered with soil and gravel. The previous owner, Oakland Army Base, formerly used IR Site 1 to wash vehicles and engine components. Operations ceased sometime prior to the USAR occupying the property in early 1970s. The USAR did not know of the existence of the WR/OWS until they were uncovered in 1994 during a grading operation. The area has since been fenced to prevent unauthorized use. Investigations reveal tha the soil contains concentrations of petroleum hydrocarbons, metals, and volatile organic compounds (VOCs) above regulatory guidelines. The shallow groundwater is also impacted with VOCs. From these results, it is surmised that the best course of action is to remove the WR/OWS and surrounding soil to minimize any further contamination to the groundwater. DT

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

SC has approved a Risk Assessment Workplan (RAW) for the removal
impacted soil and WR/OWS. The interim removal action would preve
nt any further degradation to the environment while aditional inv
estigation is conducted.

Comments Date:	04152003
Comments:	RAW - IR1 -- Intallation Restoration Site 1 (IR1) consists of a w
Comments Date:	04152003
Comments:	ash rack which is a concrete pad, a below-grade oil water separat
Comments Date:	04152003
Comments:	or, and the surrounding soil. DTSC approved the Removal Action W
Comments Date:	04152003
Comments:	orkpland for cleanup of IR1. CEQA - IR1 -- Installation Restora
Comments Date:	04152003
Comments:	tion Site 1 (IR1) consists of a wash rack which is a concrete pad
Comments Date:	04152003
Comments:	, a below-grade oil water separator, and the surrounding soil. D
Comments Date:	04152003
Comments:	TSC approved the Notice of Exemption for the discretionary decisi
Comments Date:	04152003
Comments:	on on the Removal Action Workplan for cleanup of IR1.
Comments Date:	08182004
Comments:	RA - IR1 -- Installation Restoration Site 1 (IR1) consists of a w
Comments Date:	08182004
Comments:	ash rack which is a concrete pad, a below-grade oil water separat
Comments Date:	08182004
Comments:	or, and the surrounding soil. The Army Reserve implemented the D
Comments Date:	08182004
Comments:	TSC-approved Removal Action Workplan, removed approximately 900 c
Comments Date:	08182004
Comments:	ubic yards of debris and impacted soil, disposed the excavated ma
Comments Date:	08182004
Comments:	terial at appropriated permitted off-site land disposal facilitie
Comments Date:	08182004
Comments:	s, collected confirmation soil samples, backfilled the excavation
Comments Date:	08182004
Comments:	, and restored the ground surface with asphalt pavement. DTSC co
Comments Date:	08182004
Comments:	ncurs that the Army Reserve has implemented the activities as spe
Comments Date:	08182004
Comments:	cified in the Removal Action Workplan. DTSC hereby approved the
Comments Date:	08182004
Comments:	Removal Action Report on August 18, 2004.
ID Name:	CALSTARS CODE
ID Value:	201107
Alternate Name:	UNITED STATES ARMY RESERVE CENTEROAB HEROIC WAR DEAD USAROAB Heroic War Dead USAR Aka: Heroic W
Special Programs Code:	Not reported
Special Programs Name:	Not reported

Cortese:

Region:	CORTESE
Envirostor Id:	80001225
Site/Facility Type:	STATE RESPONSE
Cleanup Status:	CERTIFIED / OPERATION & MAINTENANCE
Status Date:	6/25/2009
Site Code:	201764
Latitude:	37.82498

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

Longitude:	-122.299901
EPA Id:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Effective Date:	Not reported
Order No:	Not reported
Region:	Not reported
WDID:	Not reported
Swat R:	Not reported
Waste Discharger System Num:	Not reported
Solid Waste Id Num:	Not reported
Waste Management Unit Name:	Not reported
Agency Name:	Not reported

MCS:

Global Id:	T0600123986
Latitude:	37.8243194117743
Longitude:	-122.297422885895
Case Type:	Military Cleanup Site
Status:	Completed - Case Closed
Status Date:	05/30/2007
Lead Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Caseworker:	HW
Local Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number:	Not reported
LOC Case Number:	201107
File Location:	DTSC
Potential Media Affect:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	From Envirostor: NO FURTHER ACTION (05/30/07): DTSC had approved the Remedial Investigation Report on 5/25/07 and inactivated the oOAB Heroic War Dead USARo project on 5/30/07. The Army Reserve had requested DTSC to continue subsequent cleanup activities under a new project oOakland Army Reserve Exchangeo with a different funding source. Please go to oOakland Army Reserve Exchangeo for further project status. (Geotracker case # T10000001240) PROJECT INFORMATION: OAB Heroic War Dead USAR, also known as the United States Army Reserve Center, is located near the eastern terminus of the San Francisco-Oakland Bay Bridge. Installation Restoration (IR) Site 1 is located at the northwestern portion of the USAR Center. The site consists of a wash rack (WR) which is a concrete pad, a below-grade oil water separator (OWS), and the surrounding soil. The WR/OWS is approximately 15-feet by 20-feet in dimension. The site immediately surrounding the WR/OWS is unpaved and covered with soil and gravel. The previous owner, Oakland Army Base, formerly used IR Site 1 to wash vehicles and engine components. Operations ceased sometime prior to the USAR occupying the property in early 1970s. The USAR did not know of the existence of the WR/OWS until they were uncovered in 1994 during a grading operation. The area has since been fenced to prevent unauthorized use. Investigations reveal that the soil contains concentrations of petroleum hydrocarbons, metals, and volatile organic compounds (VOCs) above regulatory guidelines. DTSC had approved a Removal Action Workplan for the impacted soil and WR/OWS, and accepted the Removal Action Report. The Army Reserve also monitored the groundwater quality and prepared a Remedial Investigation Report.

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

Click here to access the California GeoTracker records for this facility:

AWP:

AWP Facility ID:	01970015
Region Code:	2
Region:	BERKELEY
SMBR Branch Code:	NO
SMBR Branch Unit:	OMF-NORTHERN CALIF
Site Name.:	OAB HEROIC WAR DEAD USAR
Current Status Date:	07232003
Current Status:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency Code:	DTSC
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type:	Open military facility
Awp Site Type:	OPEN MILITARY BASE
NPL:	Not Listed
Tier Of AWP Site:	Not reported
Source Of Funding:	Not reported
Responsible Staff Member:	HWONG
Supervisor Responsible:	Not reported
SIC Code:	97
Facility SIC:	NATIONAL SECURITY/INTERNATIONAL AFFAIRS
RWQCB Code:	Not reported
RWQCB Associated With Site:	Not reported
Site Access Controlled:	Not reported
Site Listed HWS List:	Not reported
Hazard Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Not reported
# Of Contamination Sources:	0
Lat/Long:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Description Of Entity:	Not reported
State Assembly Distt Code:	16
State Senate District:	09

RESPONSE:

Facility ID:	80001225
Site Type:	State Response
Site Type Detail:	Closed Base
Acres:	16
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager:	HENRY WONG
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	201764
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	16
Senate:	09
Special Program Status:	Voluntary Cleanup Program
Status:	Certified / Operation & Maintenance

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

Status Date:	06/25/2009
Restricted Use:	NO
Funding:	Other Non-Military Funds
Latitude:	37.82498
Longitude:	-122.299901
APN:	NONE SPECIFIED
Past Use:	DEGREASING FACILITY, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, MACHINE SHOP, MAINTENANCE / CLEANING, UNKNOWN
Potential COC:	30001, 30013, 30018, 30019, 30022, 30024, 30025, 3002502, 30026, 30027, 30028
Confirmed COC:	30001,30013,30018,30019,30024,30025,30027,30028,3002502,30026,30022
Potential Description:	OTH, SOIL
Alias Name:	201764
Alias Type:	Project Code (Site Code)
Alias Name:	71000002
Alias Type:	Envirostor ID Number
Alias Name:	80001225
Alias Type:	Envirostor ID Number
Alias Name:	80001225
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	03/23/2009
Comments:	On 3/23/09, DTSC approved the 2007 Annual Monitoring and Compliance Report (Annual Report) dated March 2008 for the Heroic War Dead East Bay Municipal Utility District (EBMUD) site, also known as the EBMUD West End Property. The Annual Report presents the results of the first bi-annual monitoring event conducted in July 2007, discusses soil disturbance activities, and serves as an annual report with site inspection summary pursuant to Section 4.02(d) of the Covenant to Restrict Use of Property, Environmental Restriction.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	09/24/2009
Comments:	When conducting semi-annual groundwater monitoring pursuant to the 2008 Operation and Maintenance Plan at wells FMW-1, FMW-2, FMW-3, FMW-4, MW-5, MW-6, and EMW-4, EBMUD does not need to obtain DTSC s written approval before conducting groundwater monitoring activities.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	08/09/2010
Comments:	DTSC prepared the Site Visit Summary for the 6/16/10 annual inspection of the Herioc War Dead EBMUD site.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Consent Agreement
Completed Date:	04/07/2009
Comments:	EBMUD and DTSC entered into the Consent Agreement on 4/7/09. The purposes of this Agreement are (a) to bind EBMUD to comply with the

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

Operation and Maintenance Plan approved by DTSC on September 29, 2008, which specifies inspection, soil management, groundwater monitoring, annual reporting, and five-year review requirements at the Site, and (b) to provide for reimbursement of DTSC's oversight costs from EBMUD.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 09/29/2008
Comments: DTSC approved the Operation and Maintenance (O&M) Plan on 9/29/08. The O&M Plan specifies procedures for operation, monitoring, and maintenance of remedial actions implemented at the Heroic War Dead EBMUD. The plan outlines O&M procedures for: the Building 1070 Yard engineered asphalt cap, the Building 1070 Yard lead-impacted soil area, groundwater monitoring at the Building 1070 Yard area, the Building 1064 Yard PV-18 PAH-impacted soil area, and site-wide soil and groundwater/liquid management. The O&M Plan also contains requirements for annual reporting and Five-Year Reviews.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 03/23/2009
Comments: DTSC received the revised 2007 Annual Monitoring and Compliance Report (Annual Report) dated March 2008 for the Heroic War Dead East Bay Municipal Utility District (EBMUD) site, also known as the EBMUD West End Property. The Annual Report presents the results of the first bi-annual monitoring event conducted in July 2007, discusses soil disturbance activities, and serves as an annual report pursuant to Section 4.02(d) of the Covenant to Restrict Use of Property, Environmental Restriction. On October 30, 2008, DTSC provided comments on a previous draft report. DTSC has reviewed the revised Annual Report and the EBMUD s response letter dated March 17, 2009, and found the Annual Report and response letter satisfactory. DTSC hereby approves the 2007 Annual Report.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 10/08/2009
Comments: DTSC concurs with the 2008 Annual Monitoring and Compliance Report.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 07/02/2010
Comments: On 7/2/10, DTSC approved EBMUD s request to import fill approximately 2,600 cubic yards of the soil from EBMUD s Main Waste Wastewater Treatment Plant to backfill the former Building 1101 area. DTSC has reviewed laboratory data and confirmed that chemical concentrations from the proposed fill are below hazardous waste levels and HWD EBMUD s remediation goals. DTSC has reiterated that the Covenant s provisions regarding soil excavation and disturbance continue to apply at the former Building 1101 area.

Completed Area Name: Basewide

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 05/13/2010
Comments: DTSC concurred with the 2009 annual report dated March 2010.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 04/01/2009
Comments: EBMUD plans to demolish Building 1101 and other related construction activities which will involve excavation and off-site disposal of approximately 6,850 cubic yards of soil. EBMUD also foresees dewatering of groundwater and accumulated liquid at the Building 1101 area. DTSC reviewed EBMUD s February 5, 2009 request letter and approved the request with the following reminder: 1.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Basewide
Schedule Sub Area Name: Not reported
Schedule Document Type: 5 Year Review Reports
Schedule Due Date: 6/30/2012
Schedule Revised Date: Not reported

Facility ID: 01970015
Site Type: State Response
Site Type Detail: Open Base
Acres: 0.5
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: HENRY WONG
Supervisor: Daniel Murphy
Division Branch: Cleanup Berkeley
Site Code: 201107
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 16
Senate: 09
Special Program Status: Not reported
Status: No Further Action
Status Date: 05/30/2007
Restricted Use: NO
Funding: DERA
Latitude: 37.824307
Longitude: -122.297374
APN: NONE SPECIFIED
Past Use: DEGREASING FACILITY, OIL/WATER SEPARATORS, RECYCLING - DRUM
Potential COC: 10199, 10019, 10060, 10028, 10003
Confirmed COC: NONE SPECIFIED
Potential Description: OTH, SED, SOIL
Alias Name: OAB HEROIC WAR DEAD USAR
Alias Type: Alternate Name
Alias Name: UNITED STATES ARMY RESERVE CENTER
Alias Type: Alternate Name

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

Alias Name:	110033612302
Alias Type:	EPA (FRS #)
Alias Name:	T0600123986
Alias Type:	GeoTracker Global ID
Alias Name:	201107
Alias Type:	Project Code (Site Code)
Alias Name:	01970015
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	IR01
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Assessment
Completed Date:	04/15/2003
Comments:	RAW - IR1 -- Intallation Restoration Site 1 (IR1) consists of a wash rack which is a concrete pad, a below-grade oil water separator, and the surrounding soil. DTSC approved the Removal Action Workpland for cleanup of IR1. Environmental Assessment - IR1 -- Installation Restoration Site 1 (IR1) consists of a wash rack which is a concrete pad, a below-grade oil water separator, and the surrounding soil. DTSC approved the Environmental Assessment for the discretionary decision on the Removal Action Workplan for cleanup of IR1.

Completed Area Name:	IR01
Completed Sub Area Name:	Not reported
Completed Document Type:	Feasibility Study Report
Completed Date:	05/25/2007
Comments:	The FS Report summarizes groundwater monitoring results and evaluates remedial alternatives for groundwater at IR Site 1. IR Site 1 is a small portion of the Heroic War Dead United States Army Reserve Center in Oakland, California. DTSC has reviewed and commented on the FS Report, as well as previous drafts. The Army Reserve has addressed DTSC s comments satisfactorily; therefore, DTSC approves the FS Report for IR Site 1.

Completed Area Name:	IR01
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	05/06/2005
Comments:	Groundwater monitoring reports reviewed completed. Data will be transferred to the RI/FS of the Oakalnd Army Reserve Exchange project. Not reported

Completed Area Name:	IR01
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	05/25/2007
Comments:	The RI Report presents investigation data for soil, soil gas, grab groundwater at Installation Restoration (IR) Site 1. IR Site 1 is a small portion of the Heroic War Dead United States Army Reserve Center in Oakland, California. DTSC has reviewed and commented on the RI Report, as well as previous drafts. The Army Reserve has addressed DTSC s comments satisfactorily; therefore, DTSC approves the RI Report.

Completed Area Name:	IR01
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

Completed Date:	03/15/2004
Comments:	GW monitoring plan completed.

Completed Area Name:	IR01
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	08/18/2004
Comments:	Installation Restoration Site 1 consists of a wash rack which is a concrete pad, a below-grade oil water separator, and the surrounding soil. The Army Reserve implemented the DTSC-approved Removal Action Workplan, removed approximately 900 cubic yards of debris and impacted soil, disposed the excavated material at appropriated permitted off-site land disposal facilities, collected confirmation soil samples, backfilled the excavation, and restored the ground surface with asphalt pavement. DTSC concurs that the Army Reserve has implemented the activities as specified in the Removal Action Workplan. DTSC approved the Removal Action Report on August 18, 2004.

Completed Area Name:	IR01
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	04/15/2003
Comments:	On 4/15/03, DTSC approved the Engineering Evaluation/Cost Analysis and Removal Action Workplan for Removal Action, Installation Restoration Site 1 (RAW) for the Heroic War Dead United States Army Reserve Center. The RAW proposes removal of the vehicle wash rack and oil water separator (WR/OWS) and adjacent contaminated soil at Installation Restoration Site 1. The Army Reserve will dispose the excavated soil and debris at off-site permitted disposal facilities. The removal action is an interim action for soil which may or may not serve as the final remedy. The Army Reserve should continue to characterize soil and groundwater contamination and to evaluate remedial alternatives at Installation Restoration Site 1.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	State Response
Site Type Detailed:	Closed Base
Acres:	16
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	HENRY WONG
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	80001225
Site Code:	201764
Assembly:	16

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

Senate: 09
Special Program: Voluntary Cleanup Program
Status: Certified / Operation & Maintenance
Status Date: 06/25/2009
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Other Non-Military Funds
Latitude: 37.82498
Longitude: -122.299901
APN: NONE SPECIFIED
Past Use: DEGREASING FACILITY, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, MACHINE SHOP, MAINTENANCE / CLEANING, UNKNOWN
Potential COC: 30001, 30013, 30018, 30019, 30022, 30024, 30025, 3002502, 30026, 30027, 30028
Confirmed COC: 30001,30013,30018,30019,30024,30025,30027,30028,3002502,30026,30022
Potential Description: OTH, SOIL
Alias Name: 201764
Alias Type: Project Code (Site Code)
Alias Name: 71000002
Alias Type: Envirostor ID Number
Alias Name: 80001225
Alias Type: Envirostor ID Number
Alias Name: 80001225
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 03/23/2009
Comments: On 3/23/09, DTSC approved the 2007 Annual Monitoring and Compliance Report (Annual Report) dated March 2008 for the Heroic War Dead East Bay Municipal Utility District (EBMUD) site, also known as the EBMUD West End Property. The Annual Report presents the results of the first bi-annual monitoring event conducted in July 2007, discusses soil disturbance activities, and serves as an annual report with site inspection summary pursuant to Section 4.02(d) of the Covenant to Restrict Use of Property, Environmental Restriction.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/24/2009
Comments: When conducting semi-annual groundwater monitoring pursuant to the 2008 Operation and Maintenance Plan at wells FMW-1, FMW-2, FMW-3, FMW-4, MW-5, MW-6, and EMW-4, EBMUD does not need to obtain DTSC s written approval before conducting groundwater monitoring activities.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 08/09/2010
Comments: DTSC prepared the Site Visit Summary for the 6/16/10 annual inspection of the Herioc War Dead EBMUD site.

Completed Area Name: Basewide
Completed Sub Area Name: Not reported

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

Completed Document Type:	Consent Agreement
Completed Date:	04/07/2009
Comments:	EBMUD and DTSC entered into the Consent Agreement on 4/7/09. The purposes of this Agreement are (a) to bind EBMUD to comply with the Operation and Maintenance Plan approved by DTSC on September 29, 2008, which specifies inspection, soil management, groundwater monitoring, annual reporting, and five-year review requirements at the Site, and (b) to provide for reimbursement of DTSC's oversight costs from EBMUD.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Plan
Completed Date:	09/29/2008
Comments:	DTSC approved the Operation and Maintenance (O&M) Plan on 9/29/08. The O&M Plan specifies procedures for operation, monitoring, and maintenance of remedial actions implemented at the Heroic War Dead EBMUD. The plan outlines O&M procedures for: the Building 1070 Yard engineered asphalt cap, the Building 1070 Yard lead-impacted soil area, groundwater monitoring at the Building 1070 Yard area, the Building 1064 Yard PV-18 PAH-impacted soil area, and site-wide soil and groundwater/liquid management. The O&M Plan also contains requirements for annual reporting and Five-Year Reviews.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	03/23/2009
Comments:	DTSC received the revised 2007 Annual Monitoring and Compliance Report (Annual Report) dated March 2008 for the Heroic War Dead East Bay Municipal Utility District (EBMUD) site, also known as the EBMUD West End Property. The Annual Report presents the results of the first bi-annual monitoring event conducted in July 2007, discusses soil disturbance activities, and serves as an annual report pursuant to Section 4.02(d) of the Covenant to Restrict Use of Property, Environmental Restriction. On October 30, 2008, DTSC provided comments on a previous draft report. DTSC has reviewed the revised Annual Report and the EBMUD s response letter dated March 17, 2009, and found the Annual Report and response letter satisfactory. DTSC hereby approves the 2007 Annual Report.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	10/08/2009
Comments:	DTSC concurs with the 2008 Annual Monitoring and Compliance Report.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Soils Management Plan
Completed Date:	07/02/2010
Comments:	On 7/2/10, DTSC approved EBMUD s request to import fill approximately 2,600 cubic yards of the soil from EBMUD s Main Waste Wastewater Treatment Plant to backfill the former Building 1101 area. DTSC has reviewed laboratory data and confirmed that chemical concentrations from the proposed fill are below hazardous waste levels and HWD EBMUD s remediation goals. DTSC has reiterated that the Covenant s

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

provisions regarding soil excavation and disturbance continue to apply at the former Building 1101 area.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	05/13/2010
Comments:	DTSC concurred with the 2009 annual report dated March 2010.

Completed Area Name:	Basewide
Completed Sub Area Name:	Not reported
Completed Document Type:	Soils Management Plan
Completed Date:	04/01/2009
Comments:	EBMUD plans to demolish Building 1101 and other related construction activities which will involve excavation and off-site disposal of approximately 6,850 cubic yards of soil. EBMUD also foresees dewatering of groundwater and accumulated liquid at the Building 1101 area. DTSC reviewed EBMUD s February 5, 2009 request letter and approved the request with the following reminder: 1.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Basewide
Schedule Sub Area Name:	Not reported
Schedule Document Type:	5 Year Review Reports
Schedule Due Date:	6/30/2012
Schedule Revised Date:	Not reported

Site Type:	State Response
Site Type Detailed:	Open Base
Acres:	0.5
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	HENRY WONG
Supervisor:	Daniel Murphy
Division Branch:	Cleanup Berkeley
Facility ID:	01970015
Site Code:	201107
Assembly:	16
Senate:	09
Special Program:	Not reported
Status:	No Further Action
Status Date:	05/30/2007
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	DERA
Latitude:	37.824307
Longitude:	-122.297374
APN:	NONE SPECIFIED
Past Use:	DEGREASING FACILITY, OIL/WATER SEPARATORS, RECYCLING - DRUM
Potential COC:	10199, 10019, 10060, 10028, 10003
Confirmed COC:	NONE SPECIFIED
Potential Description:	OTH, SED, SOIL
Alias Name:	OAB HEROIC WAR DEAD USAR

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

Alias Type:	Alternate Name
Alias Name:	UNITED STATES ARMY RESERVE CENTER
Alias Type:	Alternate Name
Alias Name:	110033612302
Alias Type:	EPA (FRS #)
Alias Name:	T0600123986
Alias Type:	GeoTracker Global ID
Alias Name:	201107
Alias Type:	Project Code (Site Code)
Alias Name:	01970015
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	IR01
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Assessment
Completed Date:	04/15/2003
Comments:	RAW - IR1 -- Intallation Restoration Site 1 (IR1) consists of a wash rack which is a concrete pad, a below-grade oil water separator, and the surrounding soil. DTSC approved the Removal Action Workpland for cleanup of IR1. Environmental Assessment - IR1 -- Installation Restoration Site 1 (IR1) consists of a wash rack which is a concrete pad, a below-grade oil water separator, and the surrounding soil. DTSC approved the Environmental Assessment for the discretionary decision on the Removal Action Workplan for cleanup of IR1.

Completed Area Name:	IR01
Completed Sub Area Name:	Not reported
Completed Document Type:	Feasibility Study Report
Completed Date:	05/25/2007
Comments:	The FS Report summarizes groundwater monitoring results and evaluates remedial alternatives for groundwater at IR Site 1. IR Site 1 is a small portion of the Heroic War Dead United States Army Reserve Center in Oakland, California. DTSC has reviewed and commented on the FS Report, as well as previous drafts. The Army Reserve has addressed DTSC s comments satisfactorily; therefore, DTSC approves the FS Report for IR Site 1.

Completed Area Name:	IR01
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	05/06/2005
Comments:	Groundwater monitoring reports reviewed completed. Data will be transferred to the RI/FS of the Oakalnd Army Reserve Exchange project. Not reported

Completed Area Name:	IR01
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	05/25/2007
Comments:	The RI Report presents investigation data for soil, soil gas, grab groundwater at Installation Restoration (IR) Site 1. IR Site 1 is a small portion of the Heroic War Dead United States Army Reserve Center in Oakland, California. DTSC has reviewed and commented on the RI Report, as well as previous drafts. The Army Reserve has addressed DTSC s comments satisfactorily; therefore, DTSC approves the RI Report.

OAB HEROIC WAR DEAD USAR AKA: HEROIC W (Continued) **S105954429**

Completed Area Name: IR01
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/15/2004
Comments: GW monitoring plan completed.

Completed Area Name: IR01
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 08/18/2004
Comments: Installation Restoration Site 1 consists of a wash rack which is a concrete pad, a below-grade oil water separator, and the surrounding soil. The Army Reserve implemented the DTSC-approved Removal Action Workplan, removed approximately 900 cubic yards of debris and impacted soil, disposed the excavated material at appropriated permitted off-site land disposal facilities, collected confirmation soil samples, backfilled the excavation, and restored the ground surface with asphalt pavement. DTSC concurs that the Army Reserve has implemented the activities as specified in the Removal Action Workplan. DTSC approved the Removal Action Report on August 18, 2004.

Completed Area Name: IR01
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 04/15/2003
Comments: On 4/15/03, DTSC approved the Engineering Evaluation/Cost Analysis and Removal Action Workplan for Removal Action, Installation Restoration Site 1 (RAW) for the Heroic War Dead United States Army Reserve Center. The RAW proposes removal of the vehicle wash rack and oil water separator (WR/OWS) and adjacent contaminated soil at Installation Restoration Site 1. The Army Reserve will dispose the excavated soil and debris at off-site permitted disposal facilities. The removal action is an interim action for soil which may or may not serve as the final remedy. The Army Reserve should continue to characterize soil and groundwater contamination and to evaluate remedial alternatives at Installation Restoration Site 1.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Count: 38 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
EMERYVILLE	1003878593	EMERYVILLE MARKETPLACE	BETW 64TH, POWELL,I80, SPRR TR	94608	CERC-NFRAP
EMERYVILLE	U001599302	P*I*E NATIONWIDE, INC.	5500 EASTSHORE HWY	94608	HIST UST
EMERYVILLE	U001599310	RYDER/PIE NATIONWIDE, INC.	5500 EASTSHORE HWY	94608	HIST UST
EMERYVILLE	S103393753	IKEA (FORMER BARBARY COAST)	4300 EASTSHORE HWY	94608	HIST Cal-Sites, Cortese, DEED, EMI
EMERYVILLE	U001599287	JUDSON STEEL CORPORATION	4200 EASTSHORE HWY	94608	HIST UST
EMERYVILLE	1003878532	CAPITOL REF CO	FOOT OF 64TH ST	94608	CERC-NFRAP
EMERYVILLE	S102008252	ST ALBANS SENIOR CENTER	I-80 FRONTAGE RD N	94608	ENVIROSTOR
OAKLAND	1003878888	PG&E GAS PLANT OAKLAND 601 2	1ST BET JEFFERSON & MARKET	94607	CERC-NFRAP
OAKLAND	1012043058	FOSTER'S PLATING	1570 34TH ST	94608	CERCLIS
OAKLAND	2004719403	5TH AND CEDAR	5TH AND CEDAR		ERNS
OAKLAND	94415863	7TH AND CEDAR STS	7TH AND CEDAR STS		ERNS
OAKLAND	A100345910	OAKLAND TERMINAL	7TH & BAY ST	94607	AST
OAKLAND	1010562235	CALTRANS DIST 4 OAKLAND TOUCHDOWN	RTE 80 POSTMILE 1 TO 1.7	94607	RCRA-LQG
OAKLAND	S106234893	OAKLAND TERMINAL RAILWAY PROPERTY	HWY 80 & INTERCHANGE S OF EME		SLIC
OAKLAND	S106661112	CALTRANS EAST BAY SERVICE ROAD TEN	0 BAY BRIDGE TOLL PLZ	94607	Alameda County CS
OAKLAND	S102008190	PHOENIX 766 PROPERTY	766 CEDAR ST	94607	HIST CORTESE, VCP, ENVIROSTOR
OAKLAND	S101624394	SOUTHERN PACIFIC	721 CEDAR ST	94607	HIST CORTESE, LUST, CA FID UST, Alameda County CS, SWEEPS UST
OAKLAND	S106235215	UNION PACIFIC RAILROAD - 5TH AND U	CROSS 5TH & UNION		SLIC
OAKLAND	U001599227	STEAM PLANT, W.O. DIESEL SHOP	FOOT OF PINE ST.	94607	HIST UST
OAKLAND	1007569166	DEPARTMENT OF TRANSPORTATION	SF OAKLAND BAY BRG	94608	RCRA-SQG, HAZNET
OAKLAND	S106661209	UNION PACIFIC RAILROAD/SPT CO LOCO	0 PINE ST	94607	Alameda County CS
OAKLAND	S105025321	OAKLAND CITY OF PARKING S	UNKNOWN 7TH / JEFFERSON S	94607	HIST CORTESE
OAKLAND	S105025322	SOUTHERN PACIFIC RAILYARD	UNKNOWN 8TH ST E. / 8TH A	94607	HIST CORTESE
OAKLAND	S104233647	BART MAINTENANCE FACILITY	UNKNOWN 5TH ST / 8TH AVE	94607	HIST CORTESE
OAKLAND	S105025319	VACANT LOT	UNKNOWN 11TH ST	94607	HIST CORTESE
OAKLAND	S109349269	UNION PACIFIC RAILROAD/SPT CO LOCO	UNKNOWN PINE	94607	SLIC
OAKLAND	S106235280	BAY BRIDGE TOLL PLAZA	UNKNOWN BAY BRG	94607	SLIC
OAKLAND	S106235276	OAKLAND CITY OF	UNKNOWN 12TH ST E & 14TH AVE	94607	SLIC
OAKLAND	S106162026	GREYHOUND LINE INC	UNKNOWN 7TH & BRUSH	94607	LUST
OAKLAND	S106162867	OAKLAND OEDE CITY OF	UNKNOWN 12TH ST & MARTIN LUTH		LUST, SLIC
OAKLAND	S104539364	SOUTHERN PACIFIC TRANSPORT COMPANY	UNKNOWN 5TH AVE / KIRKHAM	94607	HIST CORTESE, LUST
OAKLAND	S109689868	EAST BAY MUNICIPAL UTILITY DISTRIC	2020 WAKE AVE	94607	SWF/LF
OAKLAND	S109283928	EBMUD POLLUTION CONTRL PLANT	2020 WAKE AVE	94607	LUST, CHMIRS
OAKLAND	S106568694	BNSF WOOD STREET YARD	WOOD ST & W GRAND AVE	94607	HIST Cal-Sites, DEED, RESPONSE, ENVIROSTOR
OAKLAND	S106661116	CITY OF OAKLAND POLICE STATION	ZERO CLAY ST & 5TH ST	94607	Alameda County CS
OAKLAND	S106661088	CALTRANS CYPRESS PROJECT	ZERO 5TH ST & ADELINE ST	94607	Alameda County CS
OAKLAND	S109926666	BAYPORTE VILLAGE (ACORN II APARTME	ZERO 8TH ST & MARKET ST	94607	Alameda County CS
OAKLAND	S109283960	SOUTHERN PACIFIC RAILYARD	ZERO 8TH ST E & 8TH AVE	94607	LUST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/31/2011
Date Data Arrived at EDR: 04/13/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 62

Source: EPA
Telephone: N/A
Last EDR Contact: 07/12/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/31/2011
Date Data Arrived at EDR: 04/13/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 62

Source: EPA
Telephone: N/A
Last EDR Contact: 07/12/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/31/2011	Source: EPA
Date Data Arrived at EDR: 04/13/2011	Telephone: N/A
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 07/12/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 10/24/2011
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/25/2011	Source: EPA
Date Data Arrived at EDR: 03/01/2011	Telephone: 703-412-9810
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 09/01/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPAa??s Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/10/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/11/2011	Telephone: 703-603-8704
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 07/15/2011
Number of Days to Update: 36	Next Scheduled EDR Contact: 10/24/2011
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA’s knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 02/25/2011	Source: EPA
Date Data Arrived at EDR: 03/01/2011	Telephone: 703-412-9810
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 09/01/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/09/2011
Date Data Arrived at EDR: 03/15/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 91

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/15/2011
Date Data Arrived at EDR: 07/07/2011
Date Made Active in Reports: 08/08/2011
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 07/07/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/15/2011
Date Data Arrived at EDR: 07/07/2011
Date Made Active in Reports: 08/08/2011
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 07/07/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/15/2011
Date Data Arrived at EDR: 07/07/2011
Date Made Active in Reports: 08/08/2011
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 07/07/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/15/2011
Date Data Arrived at EDR: 07/07/2011
Date Made Active in Reports: 08/08/2011
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 07/07/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/16/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/25/2011	Telephone: 703-603-0695
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 09/12/2011
Number of Days to Update: 81	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/16/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/25/2011	Telephone: 703-603-0695
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 09/12/2011
Number of Days to Update: 81	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 04/05/2011	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 04/05/2011	Telephone: 202-267-2180
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 07/05/2011
Number of Days to Update: 70	Next Scheduled EDR Contact: 10/17/2011
	Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/09/2011	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/09/2011	Telephone: 916-323-3400
Date Made Active in Reports: 09/09/2011	Last EDR Contact: 09/15/2011
Number of Days to Update: 31	Next Scheduled EDR Contact: 11/21/2011
	Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control’s (DTSC’s) Site Mitigation and Brownfields Reuse Program’s (SMBRP’s) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/09/2011
Date Data Arrived at EDR: 08/09/2011
Date Made Active in Reports: 09/09/2011
Number of Days to Update: 31

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 09/15/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/23/2011
Date Data Arrived at EDR: 05/24/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 22

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 08/24/2011
Next Scheduled EDR Contact: 12/05/2011
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board’s LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 06/27/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board’s LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Quarterly

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 08/09/2011
Date Data Arrived at EDR: 08/11/2011
Date Made Active in Reports: 09/12/2011
Number of Days to Update: 32

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 09/20/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

SLIC: Statewide SLIC Cases

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 08/09/2011
Date Data Arrived at EDR: 08/11/2011
Date Made Active in Reports: 09/12/2011
Number of Days to Update: 32

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/20/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/04/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 39

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 05/05/2011
Date Data Arrived at EDR: 08/02/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 42

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/02/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/18/2011
Date Data Arrived at EDR: 08/19/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 25

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 08/11/2011
Date Data Arrived at EDR: 08/12/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 32

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Semi-Annually

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/31/2011
Date Data Arrived at EDR: 02/01/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 48

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 02/16/2011
Date Data Arrived at EDR: 06/02/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 103

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 08/02/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Varies

State and tribal registered storage tank lists

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 08/09/2011	Source: SWRCB
Date Data Arrived at EDR: 08/11/2011	Telephone: 916-480-1028
Date Made Active in Reports: 09/09/2011	Last EDR Contact: 09/20/2011
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
Registered Aboveground Storage Tanks.

Date of Government Version: 08/01/2009	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/10/2009	Telephone: 916-341-5712
Date Made Active in Reports: 10/01/2009	Last EDR Contact: 07/08/2011
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/24/2011
	Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 08/04/2011	Source: EPA Region 10
Date Data Arrived at EDR: 08/05/2011	Telephone: 206-553-2857
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 08/01/2011
Number of Days to Update: 39	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 08/04/2011	Source: EPA Region 9
Date Data Arrived at EDR: 08/05/2011	Telephone: 415-972-3368
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 08/01/2011
Number of Days to Update: 39	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/18/2011	Source: EPA Region 8
Date Data Arrived at EDR: 08/19/2011	Telephone: 303-312-6137
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 08/01/2011
Number of Days to Update: 25	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/01/2011	Source: EPA Region 7
Date Data Arrived at EDR: 06/01/2011	Telephone: 913-551-7003
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 08/02/2011
Number of Days to Update: 13	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 07/01/2011
Date Data Arrived at EDR: 08/26/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 18

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 08/11/2011
Date Data Arrived at EDR: 08/12/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 32

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 05/05/2011
Date Data Arrived at EDR: 08/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 36

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/02/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC’s costs.

Date of Government Version: 08/09/2011
Date Data Arrived at EDR: 08/09/2011
Date Made Active in Reports: 09/09/2011
Number of Days to Update: 31

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 09/15/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 05/05/2011
Date Data Arrived at EDR: 07/05/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 70

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 07/05/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 06/27/2011
Date Data Arrived at EDR: 06/27/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/27/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 06/27/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: No Update Planned

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 06/01/2011
Date Data Arrived at EDR: 06/21/2011
Date Made Active in Reports: 07/15/2011
Number of Days to Update: 24

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/20/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 05/24/2011
Date Data Arrived at EDR: 05/24/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 22

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/05/2011
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 04/08/2011
Date Data Arrived at EDR: 06/16/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 89

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 09/07/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: Quarterly

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/09/2011
Date Data Arrived at EDR: 08/09/2011
Date Made Active in Reports: 09/09/2011
Number of Days to Update: 31

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 09/15/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 06/30/2011
Date Data Arrived at EDR: 08/11/2011
Date Made Active in Reports: 09/09/2011
Number of Days to Update: 29

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009	Source: Department of Public Health
Date Data Arrived at EDR: 09/23/2009	Telephone: 707-463-4466
Date Made Active in Reports: 10/01/2009	Last EDR Contact: 09/06/2011
Number of Days to Update: 8	Next Scheduled EDR Contact: 12/19/2011
	Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990	Source: State Water Resources Control Board
Date Data Arrived at EDR: 01/25/1991	Telephone: 916-341-5851
Date Made Active in Reports: 02/12/1991	Last EDR Contact: 07/26/2001
Number of Days to Update: 18	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 05/05/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/11/2011	Telephone: 202-564-6023
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 08/12/2011
Number of Days to Update: 125	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005	Source: Department of the Navy
Date Data Arrived at EDR: 12/11/2006	Telephone: 843-820-7326
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/11/2011
Number of Days to Update: 31	Next Scheduled EDR Contact: 09/05/2011
	Data Release Frequency: Varies

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 06/28/2011	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 06/29/2011	Telephone: 916-323-3400
Date Made Active in Reports: 07/08/2011	Last EDR Contact: 09/12/2011
Number of Days to Update: 9	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program’s oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder’s office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 06/13/2011
Date Data Arrived at EDR: 06/14/2011
Date Made Active in Reports: 07/15/2011
Number of Days to Update: 31

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 09/13/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 04/05/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 161

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 07/05/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 05/03/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 43

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 08/09/2011
Date Data Arrived at EDR: 08/11/2011
Date Made Active in Reports: 09/12/2011
Number of Days to Update: 32

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/20/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 08/09/2011
Date Data Arrived at EDR: 08/11/2011
Date Made Active in Reports: 09/12/2011
Number of Days to Update: 32

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/20/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

Other Ascertainable Records

RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/15/2011
Date Data Arrived at EDR: 07/07/2011
Date Made Active in Reports: 08/08/2011
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 07/07/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/12/2011
Date Data Arrived at EDR: 02/11/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/09/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/22/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 08/12/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 112

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 70

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 05/31/2011
Date Data Arrived at EDR: 06/15/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 90

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/14/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/21/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 99

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/31/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/06/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/08/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/17/2010
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 94

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 09/01/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/30/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/31/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/31/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 08/18/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/07/2011
Date Data Arrived at EDR: 01/21/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 59

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 06/27/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB’s who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010
Date Data Arrived at EDR: 11/10/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 98

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/22/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 07/15/2011	Telephone: 301-415-7169
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 09/12/2011
Number of Days to Update: 60	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/11/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/13/2011	Telephone: 202-343-9775
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 07/12/2011
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/24/2011
	Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and ’pointers’ to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/14/2010	Source: EPA
Date Data Arrived at EDR: 04/16/2010	Telephone: (415) 947-8000
Date Made Active in Reports: 05/27/2010	Last EDR Contact: 09/13/2011
Number of Days to Update: 41	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009	Source: EPA/NTIS
Date Data Arrived at EDR: 03/01/2011	Telephone: 800-424-9346
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 09/01/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Biennially

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 08/31/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Quarterly

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 05/24/2011
Date Data Arrived at EDR: 05/24/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 22

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/24/2011
Next Scheduled EDR Contact: 12/05/2011
Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

Date of Government Version: 07/01/2011
Date Data Arrived at EDR: 07/01/2011
Date Made Active in Reports: 07/15/2011
Number of Days to Update: 14

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES].

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 10/21/1993
Date Data Arrived at EDR: 11/01/1993
Date Made Active in Reports: 11/19/1993
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/27/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: No Update Planned

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 06/28/2011	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 07/21/2011	Telephone: 916-327-4498
Date Made Active in Reports: 08/11/2011	Last EDR Contact: 09/12/2011
Number of Days to Update: 21	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/21/2009	Telephone: 213-576-6726
Date Made Active in Reports: 08/03/2009	Last EDR Contact: 07/01/2011
Number of Days to Update: 13	Next Scheduled EDR Contact: 10/17/2011
	Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2010	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 07/19/2011	Telephone: 916-255-1136
Date Made Active in Reports: 08/16/2011	Last EDR Contact: 07/19/2011
Number of Days to Update: 28	Next Scheduled EDR Contact: 10/31/2011
	Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2008	Source: California Air Resources Board
Date Data Arrived at EDR: 09/29/2010	Telephone: 916-322-2990
Date Made Active in Reports: 10/18/2010	Last EDR Contact: 06/30/2011
Number of Days to Update: 19	Next Scheduled EDR Contact: 10/10/2011
	Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 12/08/2006	Telephone: 202-208-3710
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/22/2011
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/31/2011
	Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2011	Telephone: 615-532-8599
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 07/15/2011
Number of Days to Update: 54	Next Scheduled EDR Contact: 11/07/2011
	Data Release Frequency: Varies

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 06/01/2011
Date Data Arrived at EDR: 06/21/2011
Date Made Active in Reports: 07/15/2011
Number of Days to Update: 24

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/20/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 06/09/2011
Date Data Arrived at EDR: 06/16/2011
Date Made Active in Reports: 07/15/2011
Number of Days to Update: 29

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/16/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Varies

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 07/18/2011
Date Data Arrived at EDR: 07/19/2011
Date Made Active in Reports: 08/11/2011
Number of Days to Update: 23

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/19/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Quarterly

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/09/2010
Date Data Arrived at EDR: 08/11/2010
Date Made Active in Reports: 08/20/2010
Number of Days to Update: 9

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 09/01/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Quarterly

FINANCIAL ASSURANCE 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 03/15/2011
Date Data Arrived at EDR: 03/16/2011
Date Made Active in Reports: 04/26/2011
Number of Days to Update: 41

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 09/14/2011
Next Scheduled EDR Contact: 12/05/2011
Data Release Frequency: Varies

FINANCIAL ASSURANCE 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 03/01/2007
Date Data Arrived at EDR: 06/01/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 08/05/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/22/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: N/A

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 01/01/2008
Date Data Arrived at EDR: 02/18/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 100

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/05/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR’s review was limited to those categories of sources that might, in EDR’s opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 07/21/2011
Date Data Arrived at EDR: 07/21/2011
Date Made Active in Reports: 08/11/2011
Number of Days to Update: 21

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 07/21/2011
Date Data Arrived at EDR: 07/21/2011
Date Made Active in Reports: 08/11/2011
Number of Days to Update: 21

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Semi-Annually

BUTTE COUNTY:

CUPA Facility Listing

Cupa facility list.

Date of Government Version: 03/29/2011
Date Data Arrived at EDR: 04/20/2011
Date Made Active in Reports: 05/17/2011
Number of Days to Update: 27

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Varies

COLUSA COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 12/01/2010
Date Data Arrived at EDR: 04/20/2011
Date Made Active in Reports: 05/17/2011
Number of Days to Update: 27

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 08/30/2011
Date Data Arrived at EDR: 08/31/2011
Date Made Active in Reports: 09/19/2011
Number of Days to Update: 19

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 08/09/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Semi-Annually

EL DORADO COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 03/28/2011
Date Data Arrived at EDR: 05/13/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 33

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 08/22/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA’s are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/18/2011
Date Data Arrived at EDR: 07/19/2011
Date Made Active in Reports: 08/11/2011
Number of Days to Update: 23

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 02/08/2011
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 06/13/2011
Date Data Arrived at EDR: 06/14/2011
Date Made Active in Reports: 07/19/2011
Number of Days to Update: 35

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 08/31/2010
Date Data Arrived at EDR: 09/01/2010
Date Made Active in Reports: 09/30/2010
Number of Days to Update: 29

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 09/13/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List

A listing of sites included in the county?s Certified Unified Program Agency database. California?s Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 06/09/2011
Date Data Arrived at EDR: 06/09/2011
Date Made Active in Reports: 07/08/2011
Number of Days to Update: 29

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 03/31/2011
Date Data Arrived at EDR: 06/09/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 6

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/25/2011	Source: La County Department of Public Works
Date Data Arrived at EDR: 07/27/2011	Telephone: 818-458-5185
Date Made Active in Reports: 08/11/2011	Last EDR Contact: 07/27/2011
Number of Days to Update: 15	Next Scheduled EDR Contact: 11/07/2011
	Data Release Frequency: Varies

City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/05/2009	Source: Engineering & Construction Division
Date Data Arrived at EDR: 03/10/2009	Telephone: 213-473-7869
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 08/23/2011
Number of Days to Update: 29	Next Scheduled EDR Contact: 12/05/2011
	Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 02/09/2011	Source: Community Health Services
Date Data Arrived at EDR: 02/09/2011	Telephone: 323-890-7806
Date Made Active in Reports: 03/04/2011	Last EDR Contact: 07/22/2011
Number of Days to Update: 23	Next Scheduled EDR Contact: 11/07/2011
	Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 02/03/2011	Source: City of El Segundo Fire Department
Date Data Arrived at EDR: 02/08/2011	Telephone: 310-524-2236
Date Made Active in Reports: 03/03/2011	Last EDR Contact: 07/25/2011
Number of Days to Update: 23	Next Scheduled EDR Contact: 11/07/2011
	Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/28/2003	Source: City of Long Beach Fire Department
Date Data Arrived at EDR: 10/23/2003	Telephone: 562-570-2563
Date Made Active in Reports: 11/26/2003	Last EDR Contact: 05/02/2011
Number of Days to Update: 34	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 07/18/2011	Source: City of Torrance Fire Department
Date Data Arrived at EDR: 07/21/2011	Telephone: 310-618-2973
Date Made Active in Reports: 08/11/2011	Last EDR Contact: 07/18/2011
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/31/2011
	Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List

A listing of sites included in the county?s Certified Unified Program Agency database. California?s Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 06/07/2011	Source: Madera County Environmental Health
Date Data Arrived at EDR: 06/08/2011	Telephone: 559-675-7823
Date Made Active in Reports: 07/08/2011	Last EDR Contact: 09/12/2011
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 07/15/2011	Source: Public Works Department Waste Management
Date Data Arrived at EDR: 07/25/2011	Telephone: 415-499-6647
Date Made Active in Reports: 08/11/2011	Last EDR Contact: 07/11/2011
Number of Days to Update: 17	Next Scheduled EDR Contact: 10/24/2011
	Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 06/06/2011	Source: Merced County Environmental Health
Date Data Arrived at EDR: 06/06/2011	Telephone: 209-381-1094
Date Made Active in Reports: 06/15/2011	Last EDR Contact: 09/12/2011
Number of Days to Update: 9	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 07/07/2011	Source: Monterey County Health Department
Date Data Arrived at EDR: 07/08/2011	Telephone: 831-796-1297
Date Made Active in Reports: 08/11/2011	Last EDR Contact: 08/31/2011
Number of Days to Update: 34	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 07/09/2008	Source: Napa County Department of Environmental Management
Date Data Arrived at EDR: 07/09/2008	Telephone: 707-253-4269
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 09/06/2011
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/19/2011
	Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008	Source: Napa County Department of Environmental Management
Date Data Arrived at EDR: 01/16/2008	Telephone: 707-253-4269
Date Made Active in Reports: 02/08/2008	Last EDR Contact: 09/06/2011
Number of Days to Update: 23	Next Scheduled EDR Contact: 12/19/2011
	Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 08/22/2011	Source: Community Development Agency
Date Data Arrived at EDR: 08/23/2011	Telephone: 530-265-1467
Date Made Active in Reports: 09/19/2011	Last EDR Contact: 08/22/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/21/2011
	Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 08/01/2011	Source: Health Care Agency
Date Data Arrived at EDR: 08/23/2011	Telephone: 714-834-3446
Date Made Active in Reports: 09/19/2011	Last EDR Contact: 08/17/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 05/05/2011	Source: Health Care Agency
Date Data Arrived at EDR: 05/20/2011	Telephone: 714-834-3446
Date Made Active in Reports: 06/15/2011	Last EDR Contact: 08/17/2011
Number of Days to Update: 26	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 08/01/2011	Source: Health Care Agency
Date Data Arrived at EDR: 08/23/2011	Telephone: 714-834-3446
Date Made Active in Reports: 09/16/2011	Last EDR Contact: 08/17/2011
Number of Days to Update: 24	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 06/20/2011	Source: Placer County Health and Human Services
Date Data Arrived at EDR: 06/21/2011	Telephone: 530-889-7312
Date Made Active in Reports: 07/08/2011	Last EDR Contact: 09/12/2011
Number of Days to Update: 17	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 07/14/2011	Source: Department of Environmental Health
Date Data Arrived at EDR: 07/22/2011	Telephone: 951-358-5055
Date Made Active in Reports: 08/11/2011	Last EDR Contact: 06/27/2011
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/10/2011
	Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 07/20/2011
Date Data Arrived at EDR: 07/22/2011
Date Made Active in Reports: 08/11/2011
Number of Days to Update: 20

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/27/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 05/02/2011
Date Data Arrived at EDR: 07/19/2011
Date Made Active in Reports: 08/11/2011
Number of Days to Update: 23

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/08/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/02/2011
Date Data Arrived at EDR: 07/19/2011
Date Made Active in Reports: 08/11/2011
Number of Days to Update: 23

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/08/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 08/26/2011
Date Data Arrived at EDR: 08/31/2011
Date Made Active in Reports: 09/19/2011
Number of Days to Update: 19

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database
The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/09/2010
Date Data Arrived at EDR: 09/15/2010
Date Made Active in Reports: 09/29/2010
Number of Days to Update: 14

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 09/16/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2010
Date Data Arrived at EDR: 11/16/2010
Date Made Active in Reports: 01/25/2011
Number of Days to Update: 70

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/27/2011
Date Data Arrived at EDR: 06/29/2011
Date Made Active in Reports: 07/08/2011
Number of Days to Update: 9

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/27/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 05/31/2011
Date Data Arrived at EDR: 05/31/2011
Date Made Active in Reports: 07/08/2011
Number of Days to Update: 38

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 07/13/2011	Source: San Mateo County Environmental Health Services Division
Date Data Arrived at EDR: 07/15/2011	Telephone: 650-363-1921
Date Made Active in Reports: 08/11/2011	Last EDR Contact: 09/19/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/12/2012
	Data Release Frequency: Annually

Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 06/20/2011	Source: San Mateo County Environmental Health Services Division
Date Data Arrived at EDR: 06/21/2011	Telephone: 650-363-1921
Date Made Active in Reports: 07/15/2011	Last EDR Contact: 09/19/2011
Number of Days to Update: 24	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 11/22/2010	Source: Santa Barbara County Public Health Department
Date Data Arrived at EDR: 03/03/2011	Telephone: 805-686-8167
Date Made Active in Reports: 03/24/2011	Last EDR Contact: 08/31/2011
Number of Days to Update: 21	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Varies

SANTA CLARA COUNTY:

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005	Source: Santa Clara Valley Water District
Date Data Arrived at EDR: 03/30/2005	Telephone: 408-265-2600
Date Made Active in Reports: 04/21/2005	Last EDR Contact: 03/23/2009
Number of Days to Update: 22	Next Scheduled EDR Contact: 06/22/2009
	Data Release Frequency: No Update Planned

LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 07/20/2011	Source: Department of Environmental Health
Date Data Arrived at EDR: 08/11/2011	Telephone: 408-918-3417
Date Made Active in Reports: 09/09/2011	Last EDR Contact: 09/06/2011
Number of Days to Update: 29	Next Scheduled EDR Contact: 12/19/2011
	Data Release Frequency: Annually

Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 08/31/2009	Source: City of San Jose Fire Department
Date Data Arrived at EDR: 08/31/2009	Telephone: 408-535-7694
Date Made Active in Reports: 09/18/2009	Last EDR Contact: 08/31/2011
Number of Days to Update: 18	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 08/31/2011	Source: Santa Cruz County Environmental Health
Date Data Arrived at EDR: 08/31/2011	Telephone: 831-464-2761
Date Made Active in Reports: 09/09/2011	Last EDR Contact: 08/31/2011
Number of Days to Update: 9	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 08/31/2011	Source: Shasta County Department of Resource Management
Date Data Arrived at EDR: 08/31/2011	Telephone: 530-225-5789
Date Made Active in Reports: 09/19/2011	Last EDR Contact: 08/31/2011
Number of Days to Update: 19	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/09/2011	Source: Solano County Department of Environmental Management
Date Data Arrived at EDR: 06/29/2011	Telephone: 707-784-6770
Date Made Active in Reports: 07/08/2011	Last EDR Contact: 09/19/2011
Number of Days to Update: 9	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 06/09/2011	Source: Solano County Department of Environmental Management
Date Data Arrived at EDR: 07/01/2011	Telephone: 707-784-6770
Date Made Active in Reports: 07/13/2011	Last EDR Contact: 09/19/2011
Number of Days to Update: 12	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/05/2011	Source: Department of Health Services
Date Data Arrived at EDR: 04/06/2011	Telephone: 707-565-6565
Date Made Active in Reports: 05/12/2011	Last EDR Contact: 07/05/2011
Number of Days to Update: 36	Next Scheduled EDR Contact: 10/17/2011
	Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 06/13/2011
Date Data Arrived at EDR: 06/14/2011
Date Made Active in Reports: 07/13/2011
Number of Days to Update: 29

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 07/26/2011
Date Data Arrived at EDR: 08/26/2011
Date Made Active in Reports: 09/19/2011
Number of Days to Update: 24

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/23/2011
Next Scheduled EDR Contact: 12/05/2011
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 04/01/2011
Date Data Arrived at EDR: 04/07/2011
Date Made Active in Reports: 05/12/2011
Number of Days to Update: 35

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/22/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/23/2011
Next Scheduled EDR Contact: 12/05/2011
Data Release Frequency: Quarterly

Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 07/26/2011
Date Data Arrived at EDR: 08/08/2011
Date Made Active in Reports: 09/09/2011
Number of Days to Update: 32

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 05/25/2011
Date Data Arrived at EDR: 06/21/2011
Date Made Active in Reports: 07/13/2011
Number of Days to Update: 22

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/20/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 08/15/2011
Date Data Arrived at EDR: 08/23/2011
Date Made Active in Reports: 09/16/2011
Number of Days to Update: 24

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 08/22/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 08/23/2011
Date Data Arrived at EDR: 08/26/2011
Date Made Active in Reports: 09/19/2011
Number of Days to Update: 24

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 08/26/2009
Date Made Active in Reports: 09/11/2009
Number of Days to Update: 16

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/26/2011
Next Scheduled EDR Contact: 12/05/2011
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 07/20/2011
Date Made Active in Reports: 08/11/2011
Number of Days to Update: 22

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/20/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2011
Date Data Arrived at EDR: 08/09/2011
Date Made Active in Reports: 09/16/2011
Number of Days to Update: 38

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/09/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 12/01/2009
Date Made Active in Reports: 12/14/2009
Number of Days to Update: 13

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/15/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 06/24/2011
Date Made Active in Reports: 06/30/2011
Number of Days to Update: 6

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/31/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 08/19/2011
Date Made Active in Reports: 09/15/2011
Number of Days to Update: 27

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association’s annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics’ primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics’ primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5’ Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

800 CEDAR
800 CEDAR STREET
OAKLAND, CA 94607

TARGET PROPERTY COORDINATES

Latitude (North):	37.80980 - 37˚ 48’ 35.3’’
Longitude (West):	122.3033 - 122˚ 18’ 11.9’’
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	561327.9
UTM Y (Meters):	4184735.8
Elevation:	14 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	37122-G3 OAKLAND WEST, CA
Most Recent Revision:	1980

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

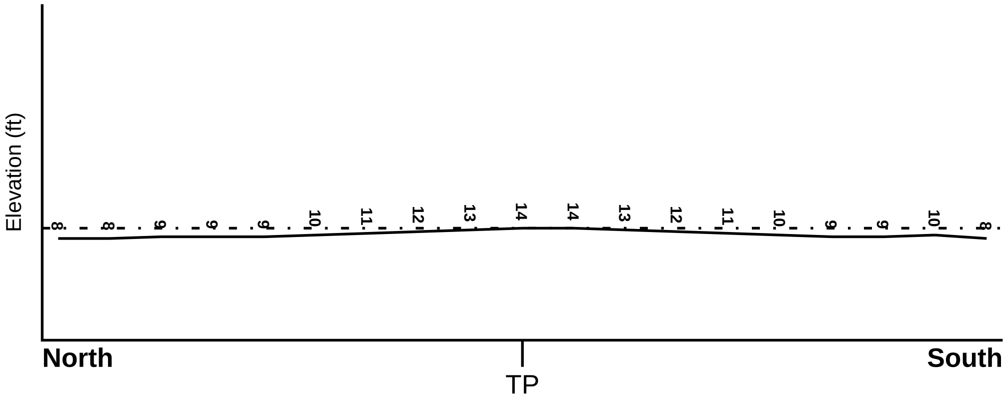
TOPOGRAPHIC INFORMATION

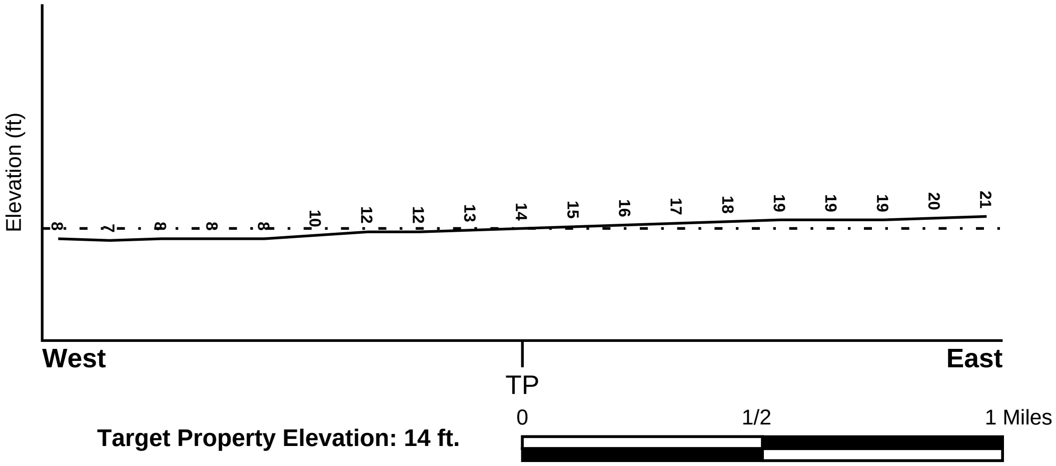
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WNW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 14 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
ALAMEDA, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 06001C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
OAKLAND WEST	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
1	1/4 - 1/2 Mile SW	E
2	1/4 - 1/2 Mile ESE	N, E, S, W
3	1/4 - 1/2 Mile East	NE, SE, S
A4	1/4 - 1/2 Mile NNW	Not Reported
5	1/4 - 1/2 Mile ENE	Not Reported
A6	1/4 - 1/2 Mile NNW	NW
A7	1/4 - 1/2 Mile NNW	NW
8	1/2 - 1 Mile West	SW
9	1/2 - 1 Mile SE	SW

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* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
10	1/2 - 1 Mile West	Varies
11	1/2 - 1 Mile East	SW
B12	1/2 - 1 Mile North	SW
B13	1/2 - 1 Mile North	SW
B14	1/2 - 1 Mile North	SSW
15	1/2 - 1 Mile SSW	E, W
16	1/2 - 1 Mile North	SE
C17	1/2 - 1 Mile ENE	N
C18	1/2 - 1 Mile ENE	SSW
19	1/2 - 1 Mile WNW	ENE, SSE, NW
D20	1/2 - 1 Mile East	N, S
D21	1/2 - 1 Mile East	NE
22	1/2 - 1 Mile North	S
D23	1/2 - 1 Mile East	Not Reported
D24	1/2 - 1 Mile East	Not Reported
C25	1/2 - 1 Mile ENE	NW
C26	1/2 - 1 Mile ENE	NW
C27	1/2 - 1 Mile ENE	NW
E28	1/2 - 1 Mile ENE	W
E29	1/2 - 1 Mile ENE	W
E30	1/2 - 1 Mile ENE	W
F31	1/2 - 1 Mile West	W
F32	1/2 - 1 Mile West	W
33	1/2 - 1 Mile NE	E, W
G34	1/2 - 1 Mile SE	SW
G35	1/2 - 1 Mile SE	SW
H36	1/2 - 1 Mile North	S
H37	1/2 - 1 Mile North	SE,S,Varies
I38	1/2 - 1 Mile ESE	S
I39	1/2 - 1 Mile ESE	SE,S,Varies
I40	1/2 - 1 Mile ESE	SE,S,Varies
41	1/2 - 1 Mile NE	SE

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

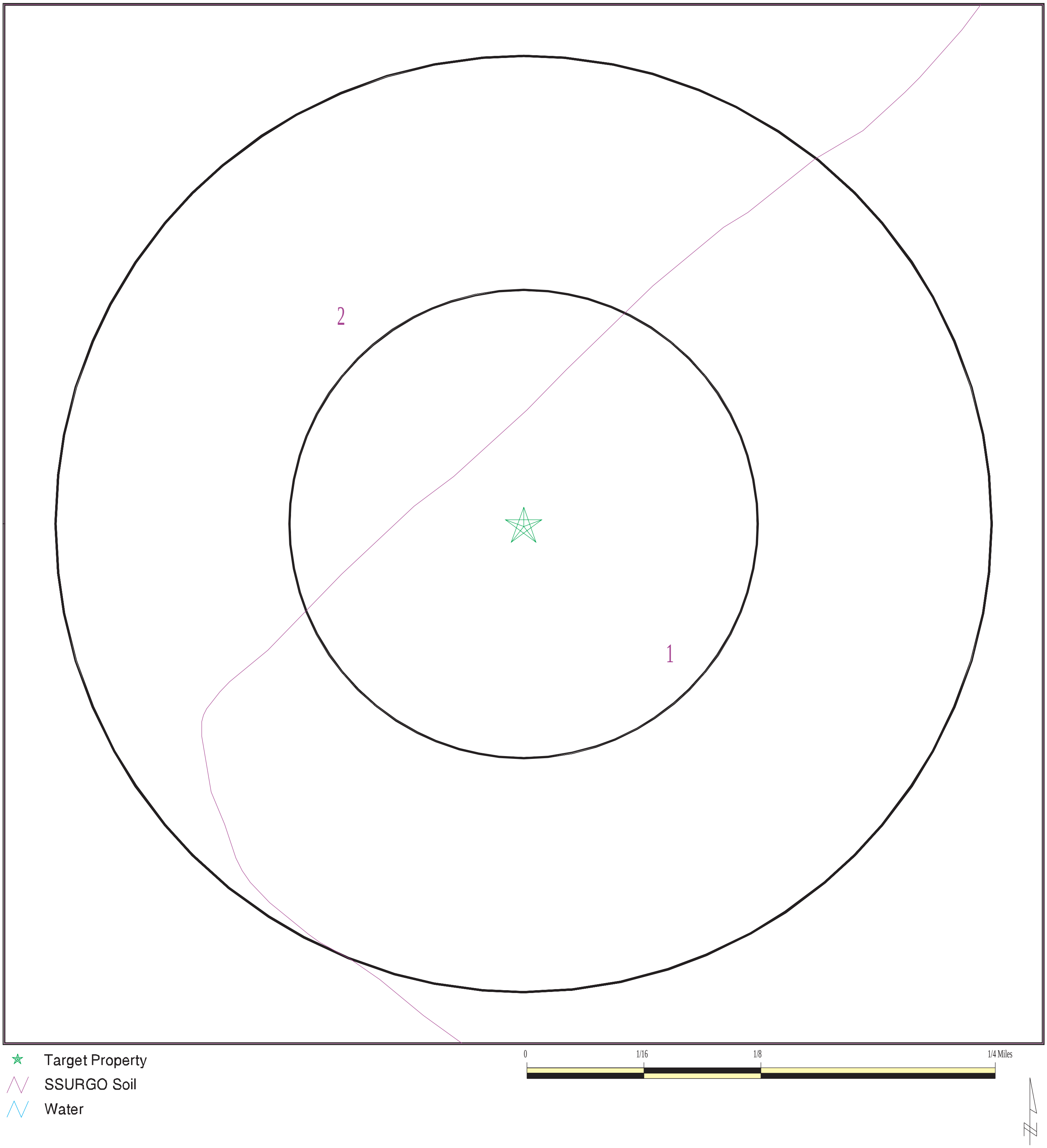
GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT		GEOLOGIC AGE IDENTIFICATION	
Era:	Cenozoic	Category:	Stratifed Sequence
System:	Quaternary		
Series:	Quaternary		
Code:	Q *(decoded above as Era, System & Series)*		

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 3170104.2s



SITE NAME:	800 Cedar	CLIENT:	Northgate Env. Management Inc.
ADDRESS:	800 Cedar Street Oakland CA 94607	CONTACT:	Anya Starovoytov
		INQUIRY #:	3170104.2s
LAT/LONG:	37.8098 / 122.3033	DATE:	September 20, 2011 6:06 pm

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture’s (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name:	Urban land
Soil Surface Texture:	
Hydrologic Group:	Not reported
Soil Drainage Class:	
Hydric Status: Partially hydric	
Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name:	Urban land
Soil Surface Texture:	
Hydrologic Group:	Not reported
Soil Drainage Class:	
Hydric Status: Partially hydric	
Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

No Layer Information available.

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

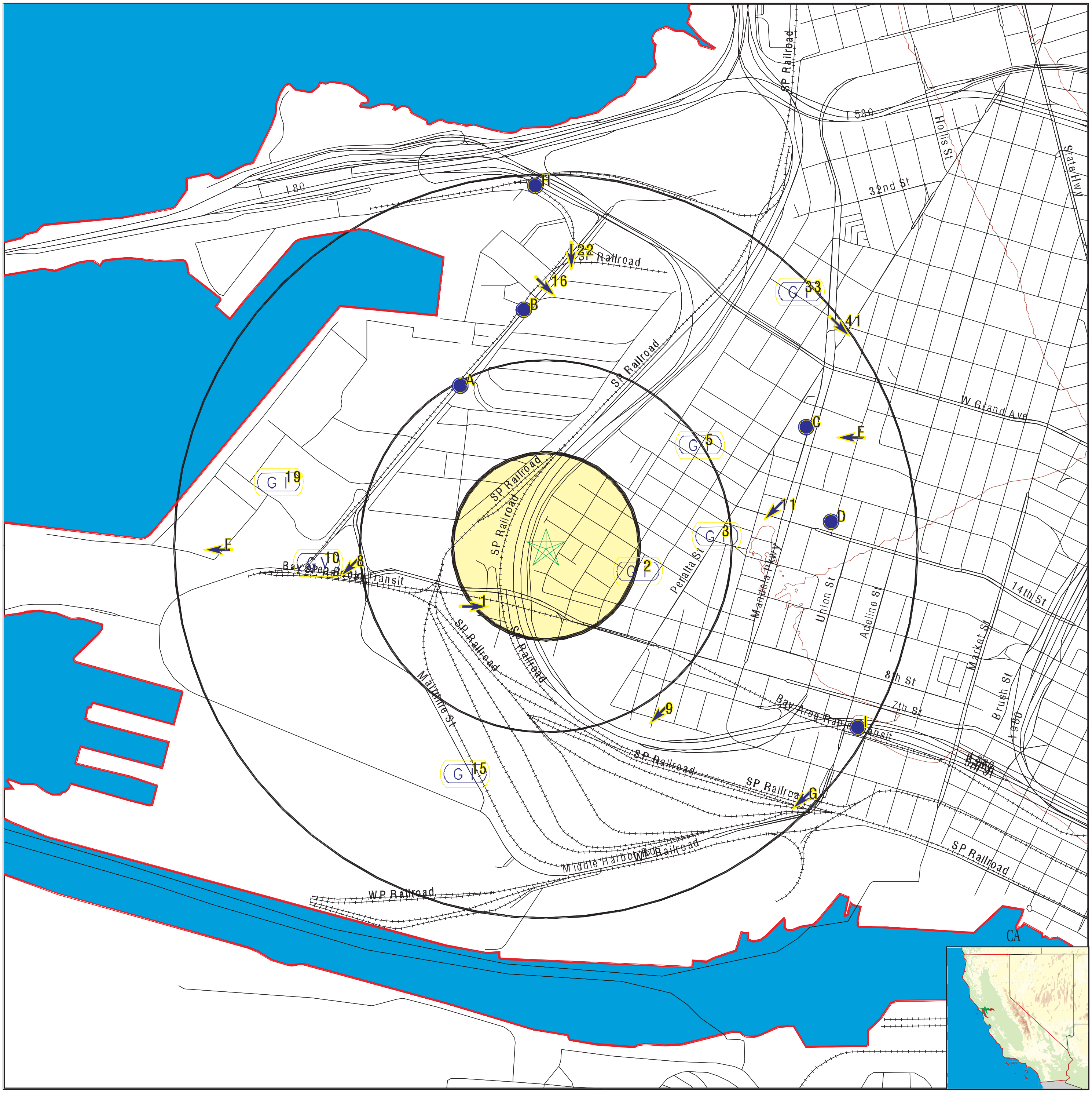
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 3170104.2s



0 1/4 1/2 1 Miles

- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Ⓦ Water Wells
- Ⓟ Public Water Supply Wells
- ● Cluster of Multiple Icons

- ↑ Groundwater Flow Direction
- (G I) Indeterminate Groundwater Flow at Location
- (G V) Groundwater Flow Varies at Location
- (H D) Closest Hydrogeological Data
- ● Oil, gas or related wells

SITE NAME:	800 Cedar	CLIENT:	Northgate Env. Management Inc.
ADDRESS:	800 Cedar Street Oakland CA 94607	CONTACT:	Anya Starovoytov
		INQUIRY #:	3170104.2s
LAT/LONG:	37.8098 / 122.3033	DATE:	September 20, 2011 6:06 pm

Map ID Direction Distance Elevation			Database	EDR ID Number
1	Site ID:	01-1414		
SW	Groundwater Flow:	E	**AQUIFLOW**	**67911**
1/4 - 1/2 Mile	Shallow Water Depth:	Not Reported		
Lower	Deep Water Depth:	Not Reported		
	Average Water Depth:	11.5		
	Date:	06/20/1988		
2	Site ID:	01-0487		
ESE	Groundwater Flow:	N, E, S, W	**AQUIFLOW**	**55917**
1/4 - 1/2 Mile	Shallow Water Depth:	Not Reported		
Higher	Deep Water Depth:	Not Reported		
	Average Water Depth:	12		
	Date:	12/31/1992		
3	Site ID:	01-0506		
East	Groundwater Flow:	NE, SE, S	**AQUIFLOW**	**55880**
1/4 - 1/2 Mile	Shallow Water Depth:	Not Reported		
Higher	Deep Water Depth:	Not Reported		
	Average Water Depth:	Not Reported		
	Date:	11/17/1994		
A4	Site ID:	01-0939		
NNW	Groundwater Flow:	Not Reported	**AQUIFLOW**	**55945**
1/4 - 1/2 Mile	Shallow Water Depth:	.6		
Lower	Deep Water Depth:	7.5		
	Average Water Depth:	Not Reported		
	Date:	04/1992		
5	Site ID:	01-0152		
ENE	Groundwater Flow:	Not Reported	**AQUIFLOW**	**55883**
1/4 - 1/2 Mile	Shallow Water Depth:	Not Reported		
Lower	Deep Water Depth:	Not Reported		
	Average Water Depth:	15		
	Date:	04/22/1993		
A6	Site ID:	01-0939		
NNW	Groundwater Flow:	NW	**AQUIFLOW**	**55946**
1/4 - 1/2 Mile	Shallow Water Depth:	Not Reported		
Lower	Deep Water Depth:	Not Reported		
	Average Water Depth:	10		
	Date:	11/1992		
A7	Site ID:	01-0939		
NNW	Groundwater Flow:	NW	**AQUIFLOW**	**55947**
1/4 - 1/2 Mile	Shallow Water Depth:	Not Reported		
Lower	Deep Water Depth:	Not Reported		
	Average Water Depth:	9		
	Date:	11/24/1992		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
8 **West** **1/2 - 1 Mile** **Lower**	Site ID:	01-0969	**AQUIFLOW**	**63917**
	Groundwater Flow:	SW		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	Not Reported		
	Date:	05/06/1997		
9 **SE** **1/2 - 1 Mile** **Lower**	Site ID:	01-0933	**AQUIFLOW**	**55989**
	Groundwater Flow:	SW		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	20		
	Date:	08/05/1992		
10 **West** **1/2 - 1 Mile** **Lower**	Site ID:	01-2020	**AQUIFLOW**	**63928**
	Groundwater Flow:	Varies		
	Shallow Water Depth:	49.4		
	Deep Water Depth:	66.7		
	Average Water Depth:	Not Reported		
	Date:	07/13/1994		
11 **East** **1/2 - 1 Mile** **Higher**	Site ID:	01-0933	**AQUIFLOW**	**55988**
	Groundwater Flow:	SW		
	Shallow Water Depth:	6.5		
	Deep Water Depth:	7.5		
	Average Water Depth:	Not Reported		
	Date:	04/08/1986		
B12 **North** **1/2 - 1 Mile** **Lower**	Site ID:	01-1310	**AQUIFLOW**	**55991**
	Groundwater Flow:	SW		
	Shallow Water Depth:	5.5		
	Deep Water Depth:	6.0		
	Average Water Depth:	Not Reported		
	Date:	07/24/1998		
B13 **North** **1/2 - 1 Mile** **Lower**	Site ID:	01-1310	**AQUIFLOW**	**55992**
	Groundwater Flow:	SW		
	Shallow Water Depth:	4.5		
	Deep Water Depth:	5.0		
	Average Water Depth:	Not Reported		
	Date:	07/03/1998		
B14 **North** **1/2 - 1 Mile** **Lower**	Site ID:	01-1310	**AQUIFLOW**	**55993**
	Groundwater Flow:	SSW		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	15		
	Date:	08/04/1994		

Map ID Direction Distance Elevation			Database	EDR ID Number
15 **SSW** **1/2 - 1 Mile** **Lower**	Site ID:	01-1716	**AQUIFLOW**	**55929**
	Groundwater Flow:	E, W		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	6		
	Date:	10/29/1997		
16 **North** **1/2 - 1 Mile** **Lower**	Site ID:	01-2104	**AQUIFLOW**	**55910**
	Groundwater Flow:	SE		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	6.5		
	Date:	03/23/1994		
C17 **ENE** **1/2 - 1 Mile** **Lower**	Site ID:	01-5284	**AQUIFLOW**	**55940**
	Groundwater Flow:	N		
	Shallow Water Depth:	3.0		
	Deep Water Depth:	4.0		
	Average Water Depth:	Not Reported		
	Date:	02/18/1992		
C18 **ENE** **1/2 - 1 Mile** **Lower**	Site ID:	01-5284	**AQUIFLOW**	**55941**
	Groundwater Flow:	SSW		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	12		
	Date:	02/18/1992		
19 **WNW** **1/2 - 1 Mile** **Lower**	Site ID:	01-1009	**AQUIFLOW**	**65406**
	Groundwater Flow:	ENE, SSE, NW		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	9-20’		
	Date:	12/05/1994		
D20 **East** **1/2 - 1 Mile** **Higher**	Site ID:	01-0282	**AQUIFLOW**	**55976**
	Groundwater Flow:	N, S		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	5		
	Date:	06/05/1989		
D21 **East** **1/2 - 1 Mile** **Higher**	Site ID:	01-0282	**AQUIFLOW**	**55977**
	Groundwater Flow:	NE		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	Not Reported		
	Date:	03/27/1989		

Map ID
Direction
Distance
Elevation
Database EDR ID Number

22
North
1/2 - 1 Mile
Lower

Site ID: 01-2104
Groundwater Flow: S
Shallow Water Depth: Not Reported
Deep Water Depth: Not Reported
Average Water Depth: 7.5
Date: 08/05/1992

AQUIFLOW **55911**

D23
East
1/2 - 1 Mile
Higher

Site ID: 01-3911
Groundwater Flow: Not Reported
Shallow Water Depth: Not Reported
Deep Water Depth: Not Reported
Average Water Depth: 10
Date: 03/24/1992

AQUIFLOW **55972**

D24
East
1/2 - 1 Mile
Higher

Site ID: 01-3911
Groundwater Flow: Not Reported
Shallow Water Depth: Not Reported
Deep Water Depth: Not Reported
Average Water Depth: 10
Date: 11/08/1988

AQUIFLOW **55973**

C25
ENE
1/2 - 1 Mile
Lower

Site ID: 01-0438
Groundwater Flow: NW
Shallow Water Depth: Not Reported
Deep Water Depth: Not Reported
Average Water Depth: 7.6
Date: 09/12/1997

AQUIFLOW **55981**

C26
ENE
1/2 - 1 Mile
Lower

Site ID: 01-0438
Groundwater Flow: NW
Shallow Water Depth: Not Reported
Deep Water Depth: Not Reported
Average Water Depth: 4
Date: 05/06/1998

AQUIFLOW **55982**

C27
ENE
1/2 - 1 Mile
Lower

Site ID: 01-0438
Groundwater Flow: NW
Shallow Water Depth: Not Reported
Deep Water Depth: Not Reported
Average Water Depth: 5
Date: 07/01/1998

AQUIFLOW **55983**

E28
ENE
1/2 - 1 Mile
Lower

Site ID: 01-2048
Groundwater Flow: W
Shallow Water Depth: Not Reported
Deep Water Depth: Not Reported
Average Water Depth: Not Reported
Date: 08/03/1993

AQUIFLOW **55823**

Map ID Direction Distance Elevation			Database	EDR ID Number
E29 **ENE** **1/2 - 1 Mile** **Lower**	Site ID:	01-2048	**AQUIFLOW**	**55821**
	Groundwater Flow:	W		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	73		
	Date:	11/21/1988		
E30 **ENE** **1/2 - 1 Mile** **Lower**	Site ID:	01-2048	**AQUIFLOW**	**55822**
	Groundwater Flow:	W		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	74		
	Date:	09/24/1992		
F31 **West** **1/2 - 1 Mile** **Lower**	Site ID:	01-2046	**AQUIFLOW**	**51841**
	Groundwater Flow:	W		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	126’b		
	Date:	07/11/1997		
F32 **West** **1/2 - 1 Mile** **Lower**	Site ID:	01-2046	**AQUIFLOW**	**51893**
	Groundwater Flow:	W		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	6’ bg		
	Date:	06/24/1996		
33 **NE** **1/2 - 1 Mile** **Lower**	Site ID:	01-3995	**AQUIFLOW**	**55923**
	Groundwater Flow:	E, W		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	55		
	Date:	11/1995		
G34 **SE** **1/2 - 1 Mile** **Lower**	Site ID:	01-2143	**AQUIFLOW**	**55984**
	Groundwater Flow:	SW		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	8		
	Date:	06/20/1990		
G35 **SE** **1/2 - 1 Mile** **Lower**	Site ID:	01-2143	**AQUIFLOW**	**55985**
	Groundwater Flow:	SW		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	10		
	Date:	05/21/1990		

Map ID Direction Distance Elevation			Database	EDR ID Number
H36 **North** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0718 S 16 18 Not Reported 09/28/1992	**AQUIFLOW**	**55834**
H37 **North** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0718 SE,S,Varies 8 12 Not Reported 09/1992	**AQUIFLOW**	**55835**
I38 **ESE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-2322 S Not Reported Not Reported 15 03/05/1997	**AQUIFLOW**	**55794**
I39 **ESE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-2322 SE,S,Varies Not Reported Not Reported 5 09/26/1992	**AQUIFLOW**	**55795**
I40 **ESE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-2322 SE,S,Varies Not Reported Not Reported 8 01/17/1997	**AQUIFLOW**	**55793**
41 **NE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-2218 SE 8.15 9.04 Not Reported 07/14/1995	**AQUIFLOW**	**63941**

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
94607	3	0

Federal EPA Radon Zone for ALAMEDA County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for ALAMEDA COUNTY, CA

Number of sites tested: 49

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.776 pCi/L	100%	0%	0%
Living Area - 2nd Floor	-0.400 pCi/L	100%	0%	0%
Basement	1.338 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5’ Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5’ Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5’ Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture’s (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Health Services
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

800 Cedar
800 Cedar Street
Oakland, CA 94607

Inquiry Number: 3170104.5
September 22, 2011

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Date EDR Searched Historical Sources:

Aerial Photography September 22, 2011

Target Property:

800 Cedar Street
Oakland, CA 94607

Year	***Scale***	***Details***	***Source***
1939	Aerial Photograph. Scale: 1"=555'	Flight Year: 1939	Fairchild
1946	Aerial Photograph. Scale: 1"=655'	Flight Year: 1946	Jack Ammann
1959	Aerial Photograph. Scale: 1"=555'	Flight Year: 1959	Cartwright
1965	Aerial Photograph. Scale: 1"=333'	Flight Year: 1965	Cartwright
1975	Aerial Photograph. Scale: 1"=550'	Flight Year: 1975	NASA
1982	Aerial Photograph. Scale: 1"=690'	Flight Year: 1982	USGS
1993	Aerial Photograph. Scale: 1"=604'	/Composite DOQQ - acquisition dates: 1993	EDR
1998	Aerial Photograph. Scale: 1"=666'	Flight Year: 1998	USGS
2005	Aerial Photograph. Scale: 1"=604'	Flight Year: 2005	EDR

INQUIRY #: 3170104.5

YEAR: 1939

= 555'

INQUIRY #: 3170104.5

YEAR: 1946

= 655'

INQUIRY #: 3170104.5

YEAR: 1959

= 555'

INQUIRY #: 3170104.5

YEAR: 1965

= 333'

INQUIRY #: 3170104.5

YEAR: 1975

= 550'

N

INQUIRY #: 3170104.5

YEAR: 1982

= 690'

INQUIRY #: 3170104.5

YEAR: 1993

= 604'

INQUIRY #: 3170104.5

YEAR: 1998

= 666'

N

INQUIRY #: 3170104.5

YEAR: 2005

= 604'

800 Cedar
800 Cedar Street
Oakland, CA 94607

Inquiry Number: 3170104.3
September 21, 2011

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

9/21/11

Site Name:	**Client Name:**
800 Cedar 800 Cedar Street Oakland, CA 94607	Northgate Env. Management 300 Frank H. Ogawa Plaza Oakland, CA 94612
EDR Inquiry # 3170104.3	Contact: Anya Starovoytov

EDR® Environmental Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Northgate Env. Management Inc. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name:	800 Cedar
Address:	800 Cedar Street
City, State, Zip:	Oakland, CA 94607
Cross Street:	
P.O. #	1204.18
Project:	800 Cedar
Certification #	4BF9-4CF2-96FB

Maps Provided:

1970
1967
1961
1958
1957
1952
1951
1912
1902
1889

Sanborn® Library search results
Certification # 4BF9-4CF2-96FB

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

☑ Library of Congress
☑ University Publications of America
☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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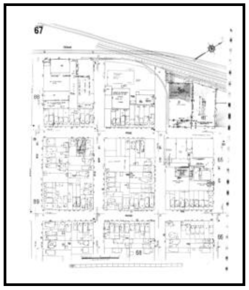
Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1970 Source Sheets



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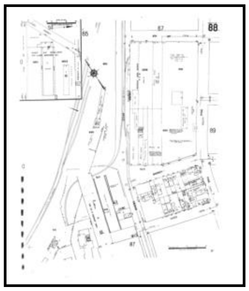
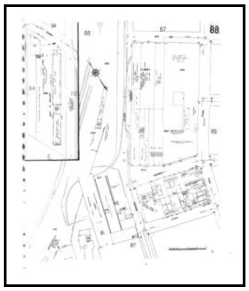


Volume 1, Sheet 88

Volume 1, Sheet 89

1967 Source Sheets

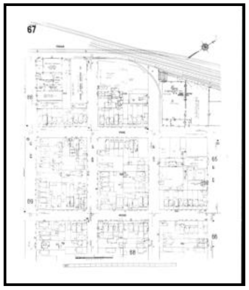
Volume 1, Sheet 67



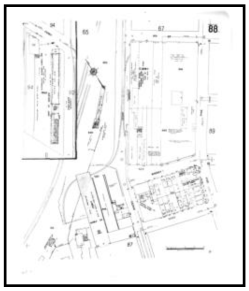
Volume 1, Sheet 88

Volume 1, Sheet 89

1961 Source Sheets



Volume 1, Sheet 67



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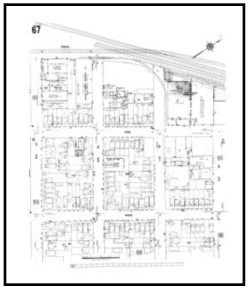
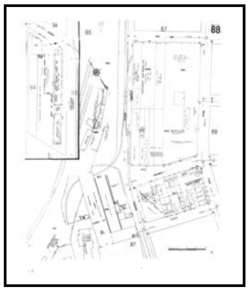
Volume 1, Sheet 89

1958 Source Sheets



Volume 1, Sheet 67



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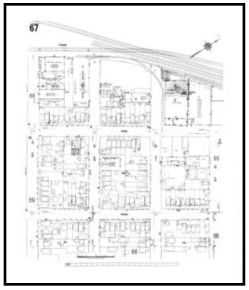
1957 Source Sheets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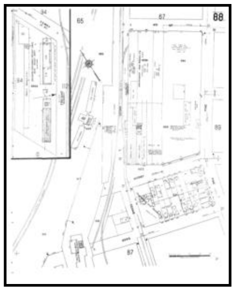
Volume 1, Sheet 88


Volume 1, Sheet 89

1952 Source Sheets


Volume 1, Sheet 67


Volume 1, Sheet 88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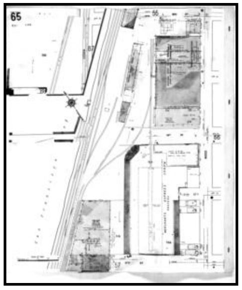
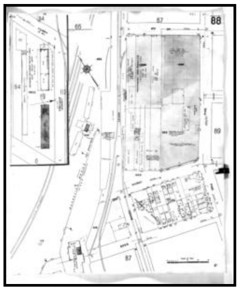
1951 Source Sheets

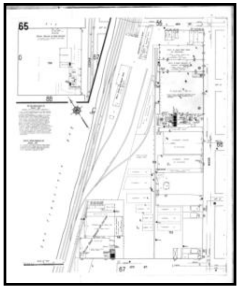

Volume 1, Sheet 65


Volume 1, Sheet 67


Volume 1, Sheet 88


Volume 1, Sheet 89

1912 Source Sheets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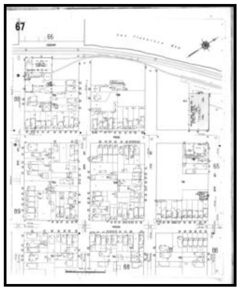
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Volume 1, Sheet 88


Volume 1, Sheet 89

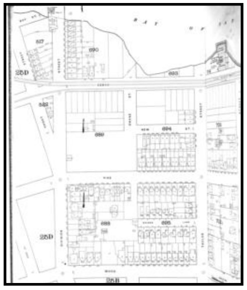
1902 Source Sheets

Volume 1, Sheet 40

Volume 1, Sheet 96

Volume 1, Sheet 109

1889 Source Sheets



Volume 1, Sheet 25c

Volume 1, Sheet 25c

Volume 1, Sheet 25d

1902 Certified Sanborn Map

Site Name: 800 Cedar
Address: 800 Cedar Street

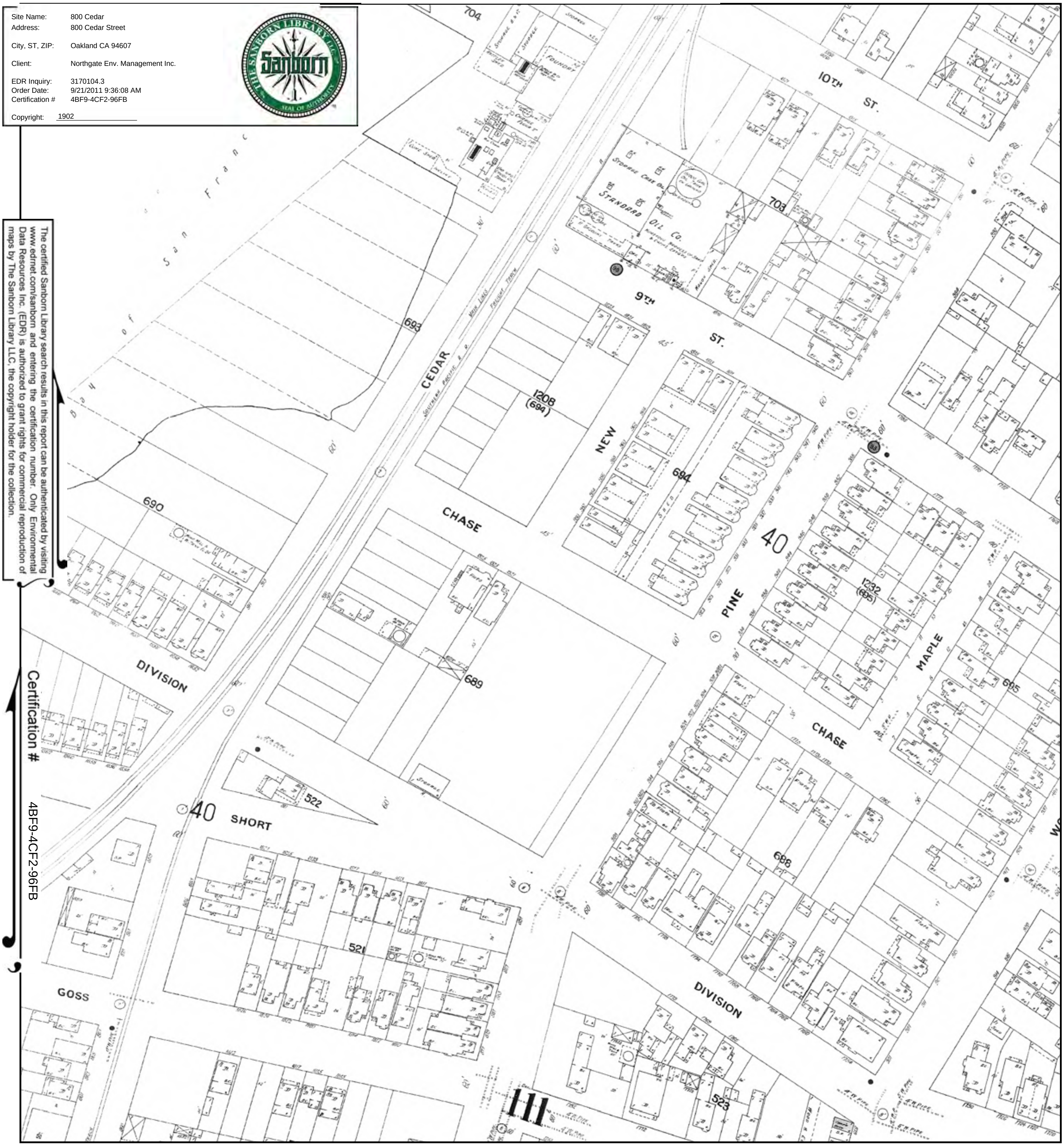
City, ST, ZIP: Oakland CA 94607

Client: Northgate Env. Management Inc.

EDR Inquiry: 3170104.3
Order Date: 9/21/2011 9:36:08 AM
Certification # 4BF9-4CF2-96FB

Copyright: 1902

Certification # 4BF9-4CF2-96FB



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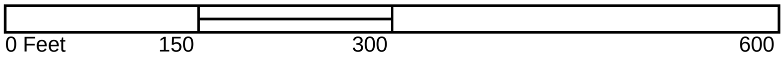
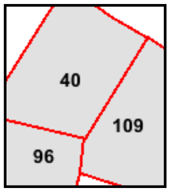
Outlined areas indicate map sheets within the collection.





Volume 1, Sheet 40
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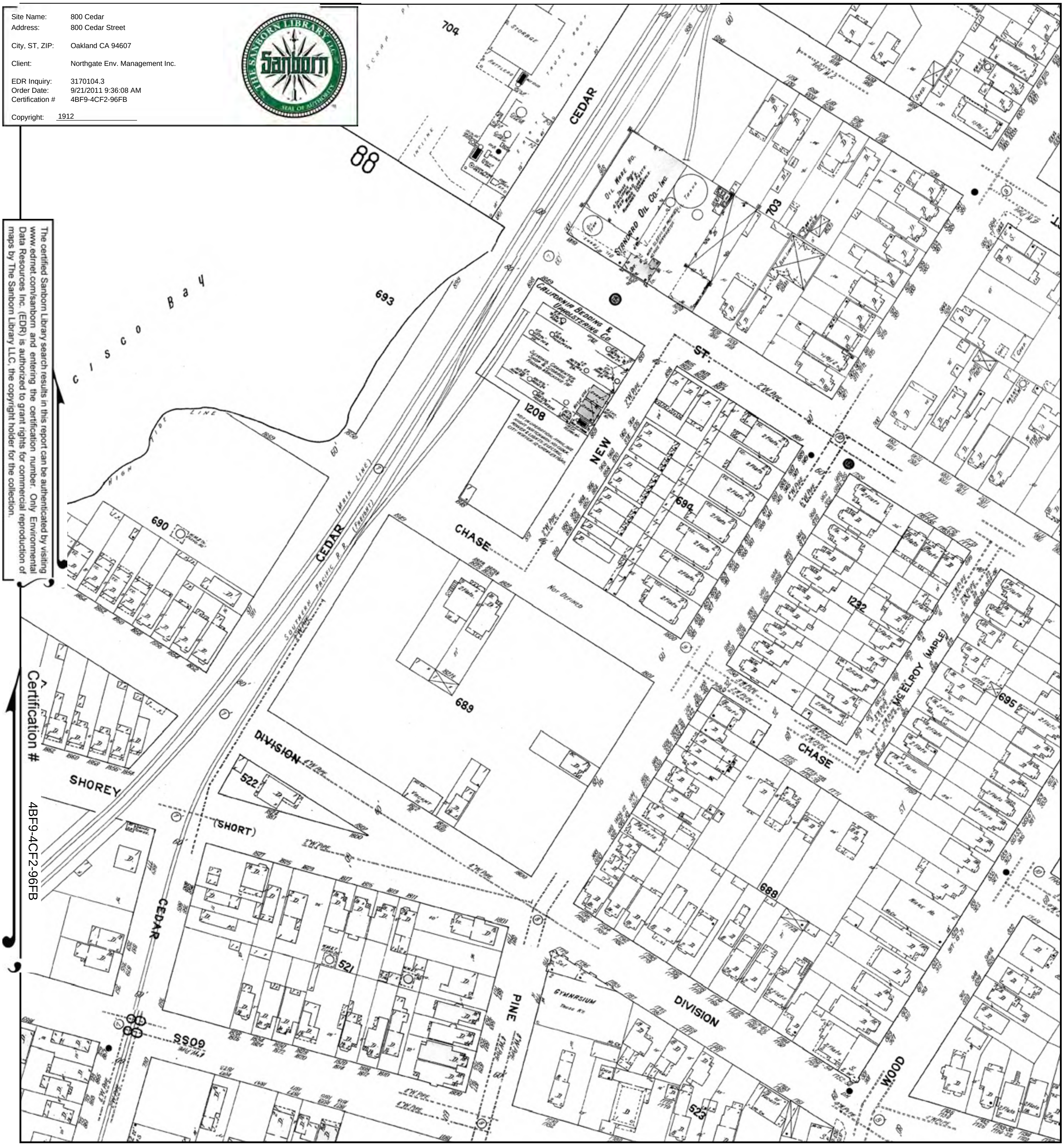
1912 Certified Sanborn Map

Site Name:	800 Cedar
Address:	800 Cedar Street
City, ST, ZIP:	Oakland CA 94607
Client:	Northgate Env. Management Inc.
EDR Inquiry:	3170104.3
Order Date:	9/21/2011 9:36:08 AM
Certification #	4BF9-4CF2-96FB
Copyright:	1912

Certification # 4BF9-4CF2-96FB



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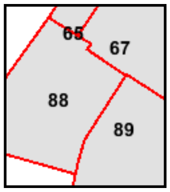

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Volume 1, Sheet 88
Volume 1, Sheet 89

0 Feet 150 300 600

N

1951 Certified Sanborn Map

Site Name: 800 Cedar
Address: 800 Cedar Street

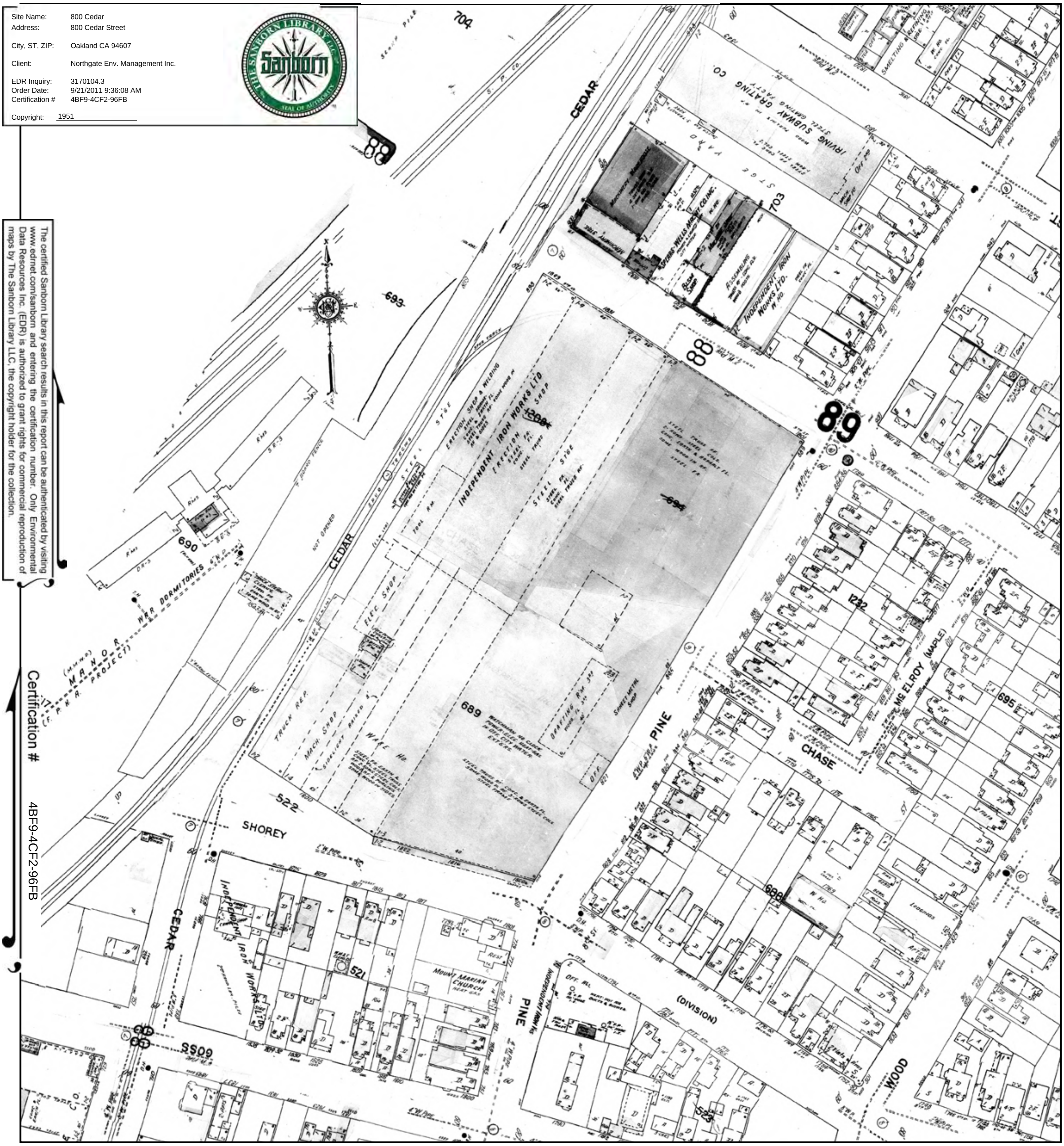
City, ST, ZIP: Oakland CA 94607

Client: Northgate Env. Management Inc.

EDR Inquiry: 3170104.3
Order Date: 9/21/2011 9:36:08 AM
Certification # 4BF9-4CF2-96FB

Copyright: 1951

Certification # 4BF9-4CF2-96FB



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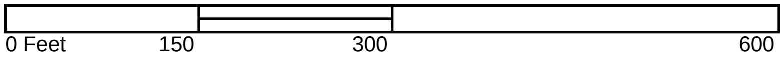

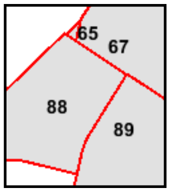

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Volume 1, Sheet 89

1952 Certified Sanborn Map

Site Name: 800 Cedar
Address: 800 Cedar Street

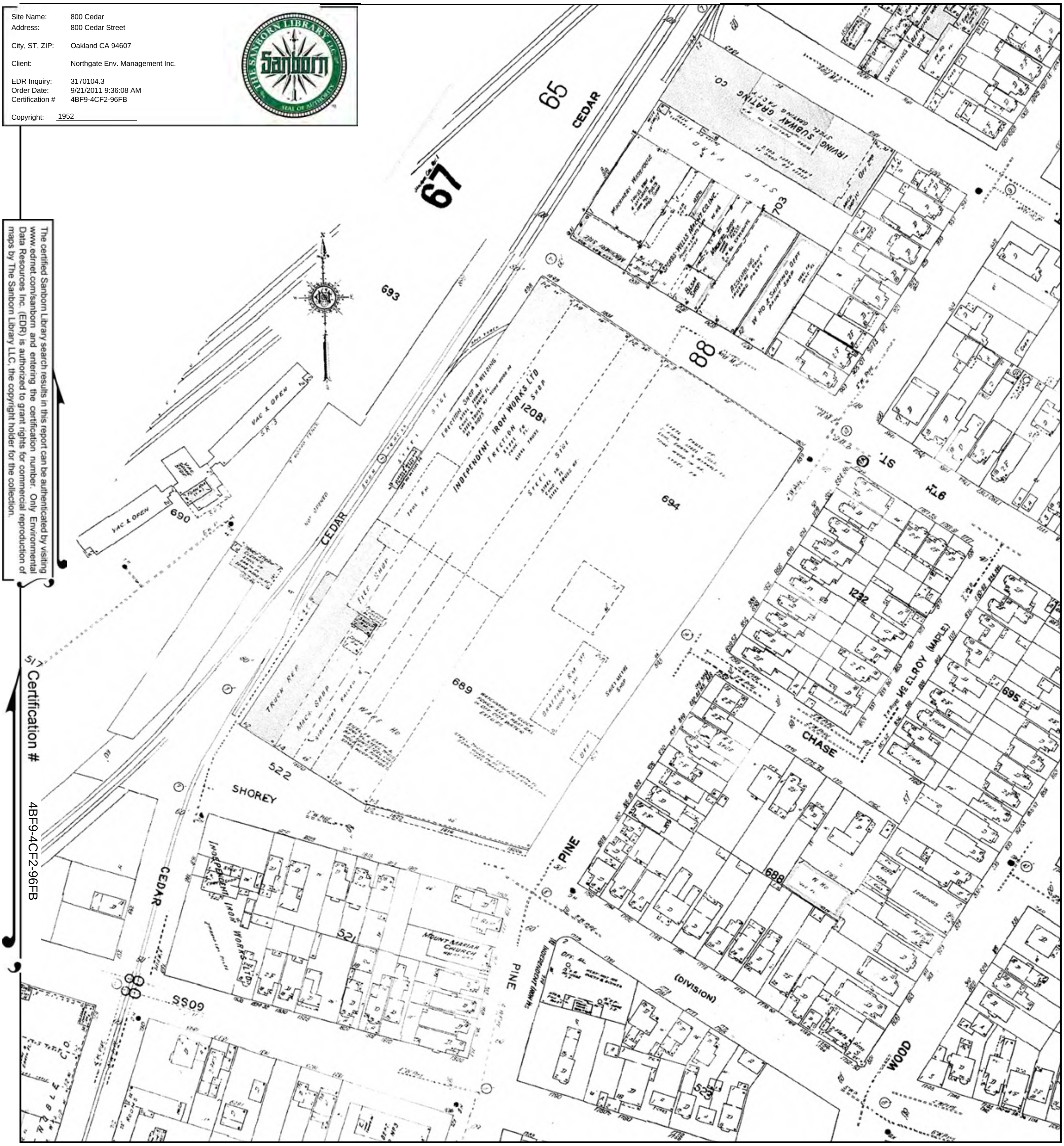
City, ST, ZIP: Oakland CA 94607

Client: Northgate Env. Management Inc.

EDR Inquiry: 3170104.3
Order Date: 9/21/2011 9:36:08 AM
Certification # 4BF9-4CF2-96FB

Copyright: 1952

Certification # 4BF9-4CF2-96FB



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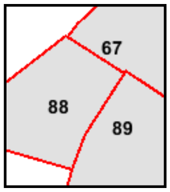

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1957 Certified Sanborn Map

Site Name: 800 Cedar
Address: 800 Cedar Street

City, ST, ZIP: Oakland CA 94607

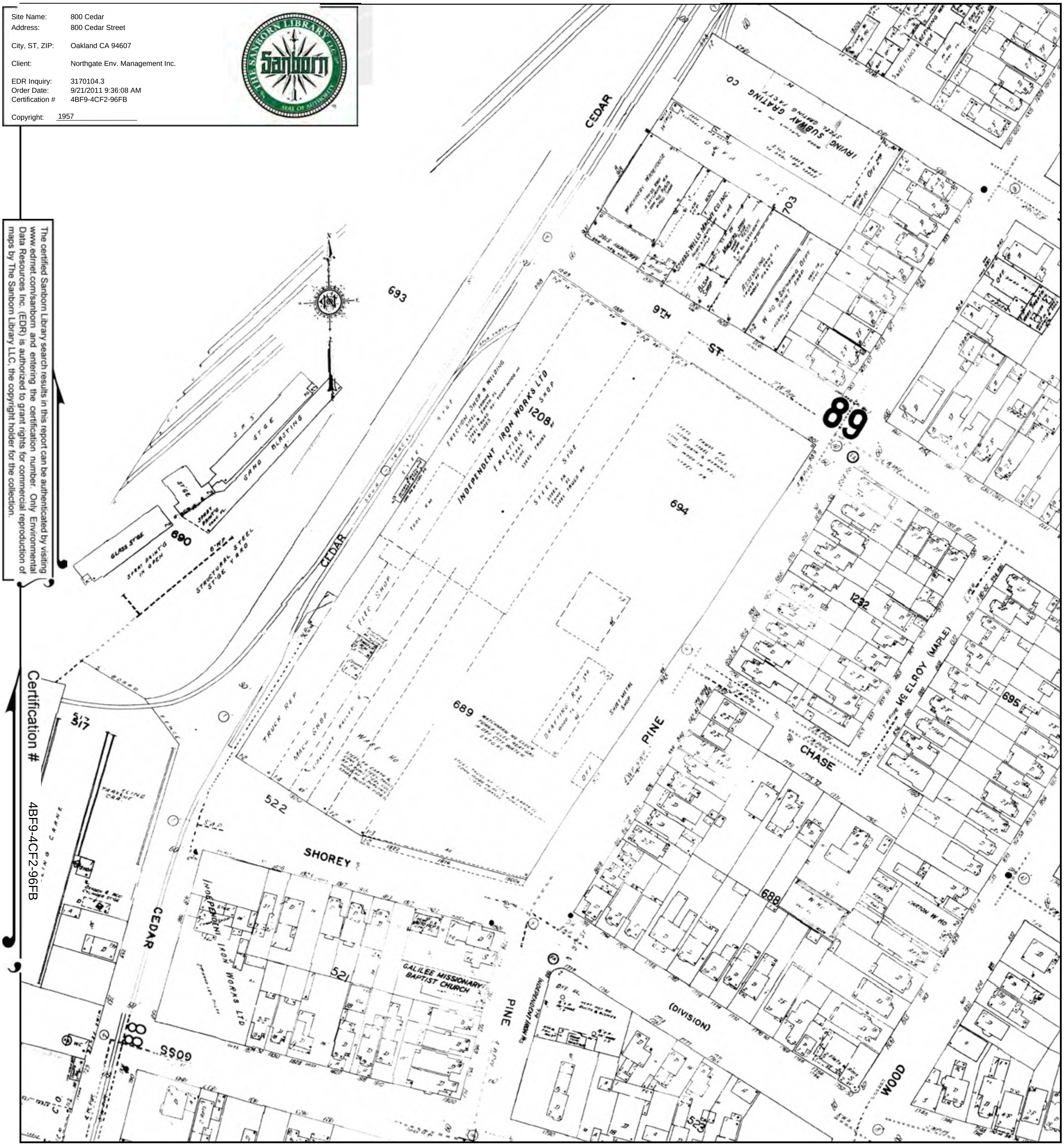
Client: Northgate Env. Management Inc.

EDR Inquiry: 3170104.3
Order Date: 9/21/2011 9:36:08 AM
Certification # 4BF9-4CF2-96FB

Copyright: 1957

Certification #

4BF9-4CF2-96FB



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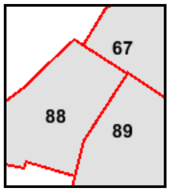

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1958 Certified Sanborn Map

Site Name: 800 Cedar
Address: 800 Cedar Street

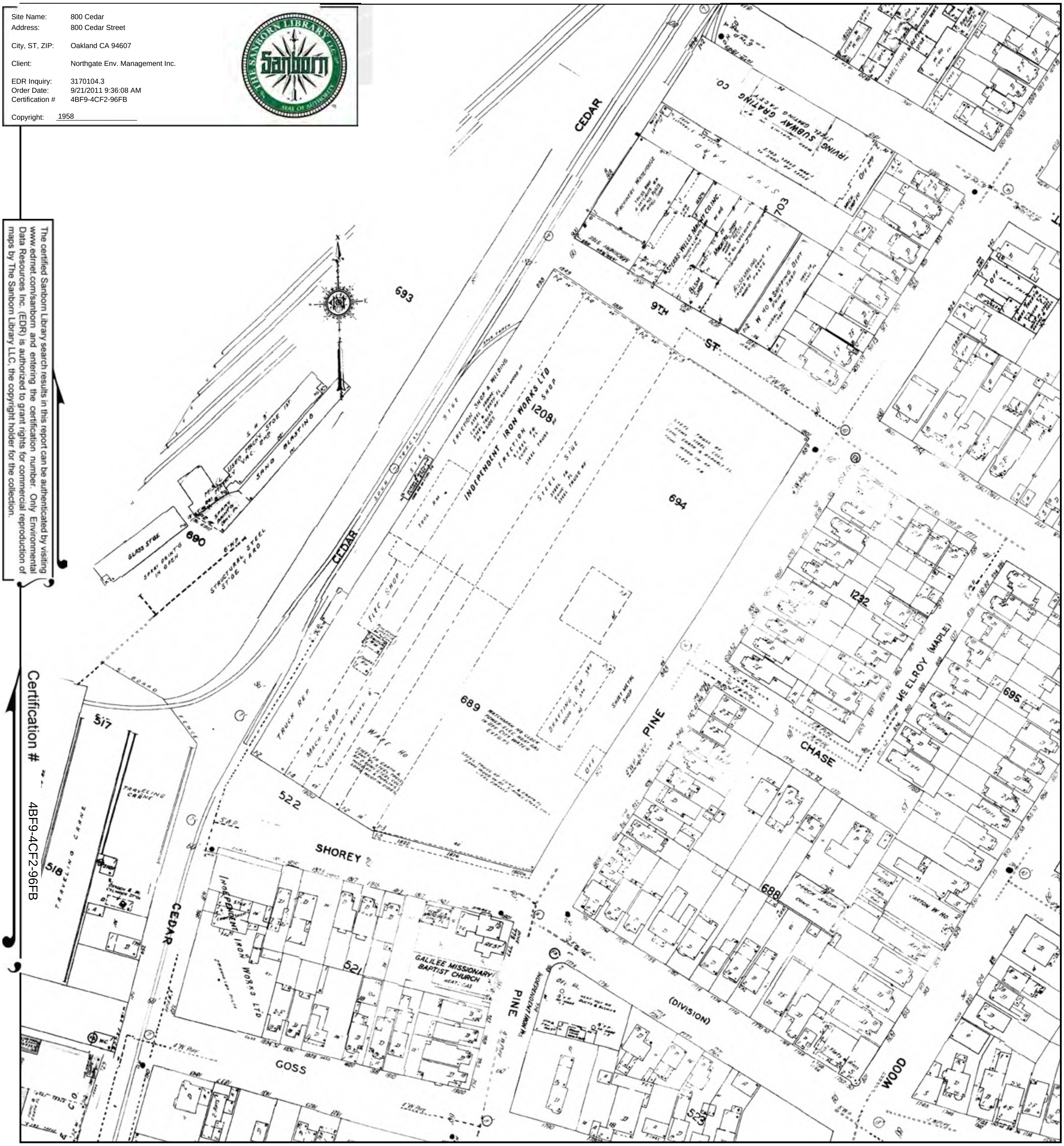
City, ST, ZIP: Oakland CA 94607

Client: Northgate Env. Management Inc.

EDR Inquiry: 3170104.3
Order Date: 9/21/2011 9:36:08 AM
Certification # 4BF9-4CF2-96FB

Copyright: 1958

Certification # 4BF9-4CF2-96FB



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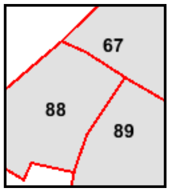

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Volume 1, Sheet 89

0 Feet 150 300 600

N

1961 Certified Sanborn Map

Site Name: 800 Cedar
Address: 800 Cedar Street

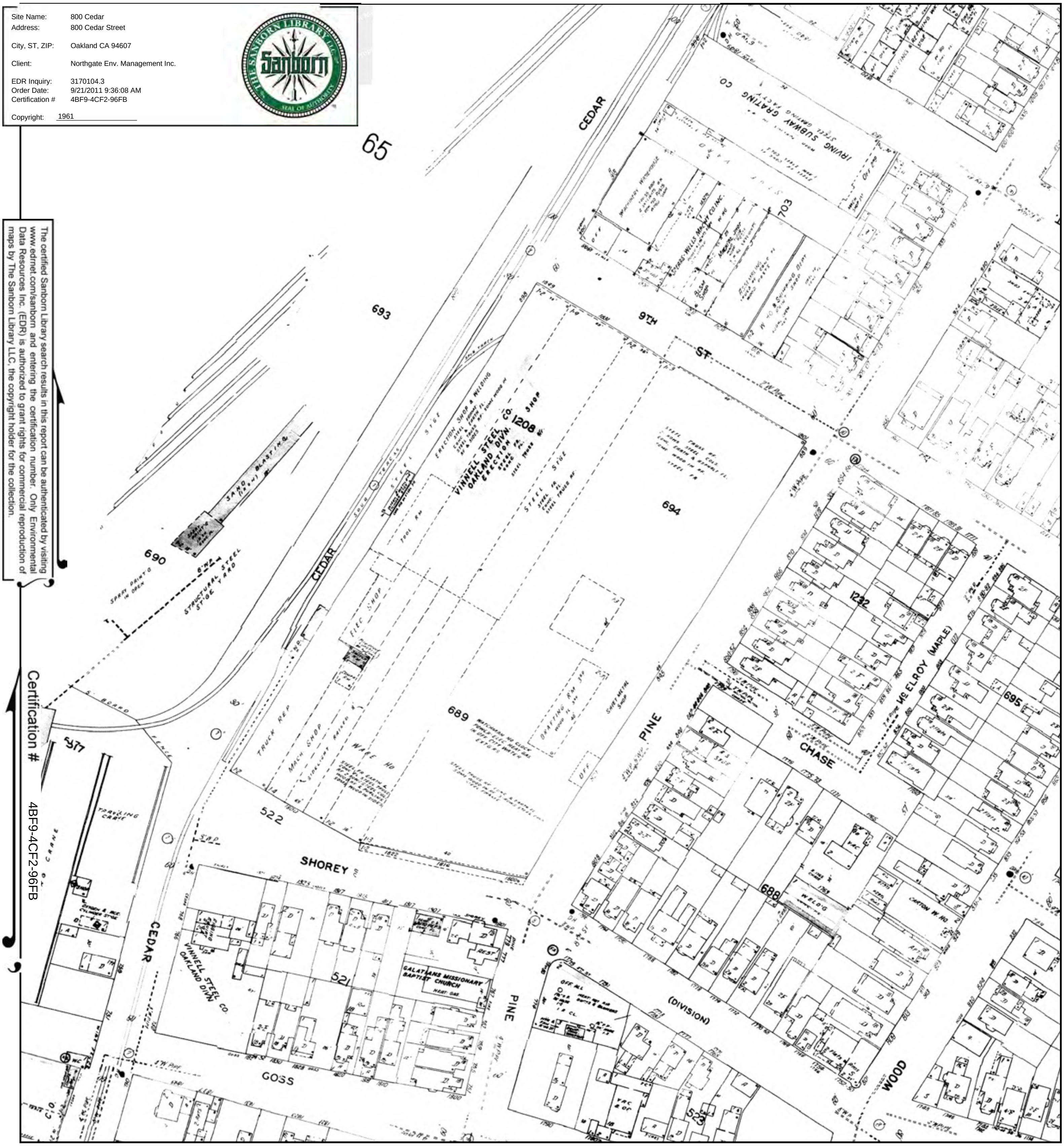
City, ST, ZIP: Oakland CA 94607

Client: Northgate Env. Management Inc.

EDR Inquiry: 3170104.3
Order Date: 9/21/2011 9:36:08 AM
Certification # 4BF9-4CF2-96FB

Copyright: 1961

Certification # 4BF9-4CF2-96FB



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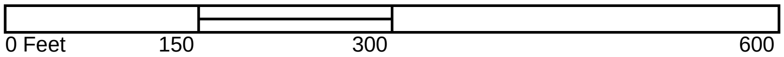

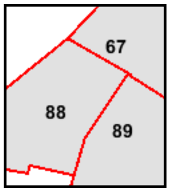

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Volume 1, Sheet 89

1967 Certified Sanborn Map

Site Name: 800 Cedar
Address: 800 Cedar Street

City, ST, ZIP: Oakland CA 94607

Client: Northgate Env. Management Inc.

EDR Inquiry: 3170104.3
Order Date: 9/21/2011 9:36:08 AM
Certification # 4BF9-4CF2-96FB

Copyright: 1967

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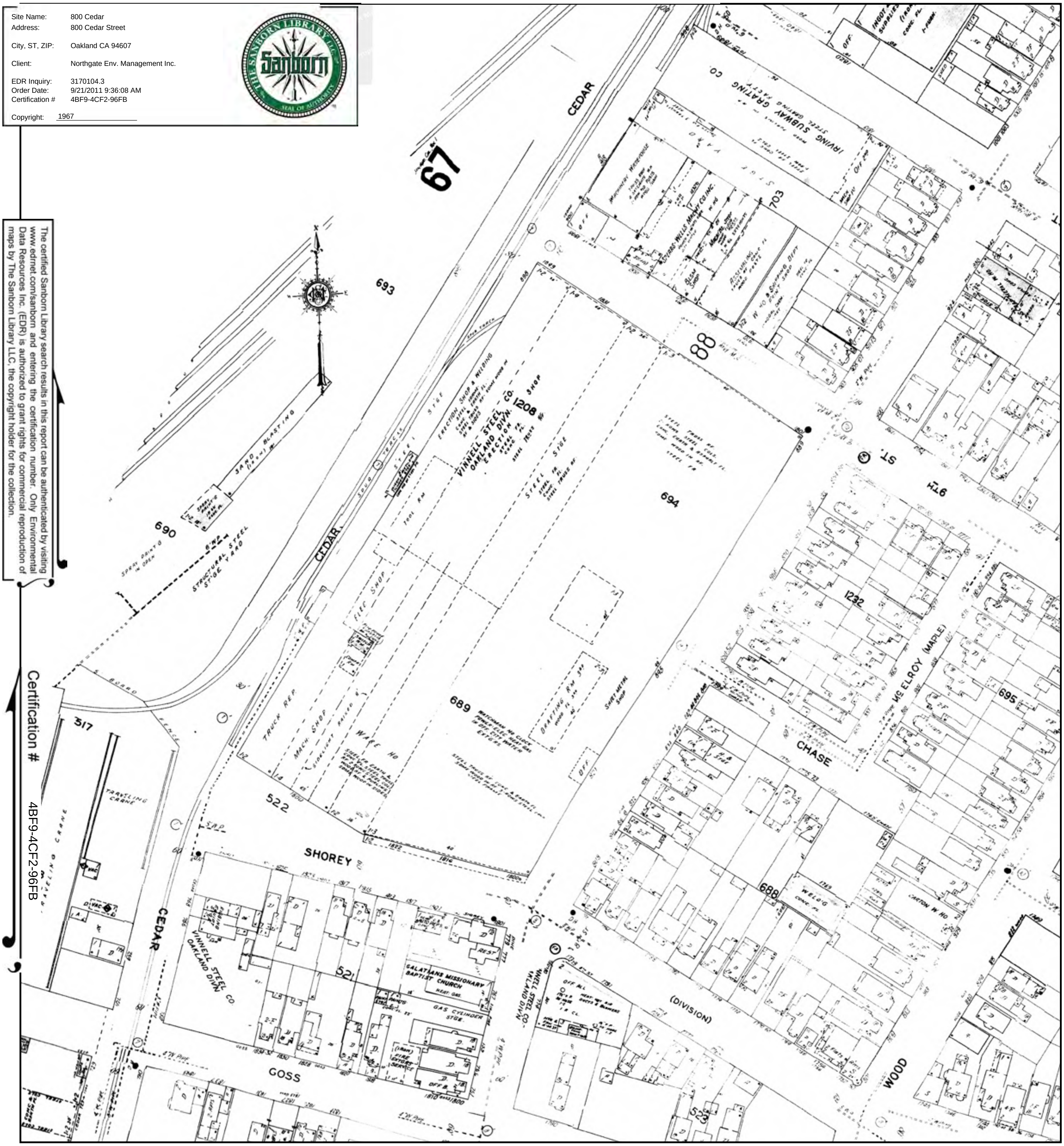
Certification # 4BF9-4CF2-96FB



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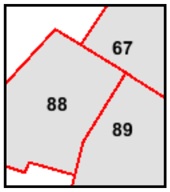

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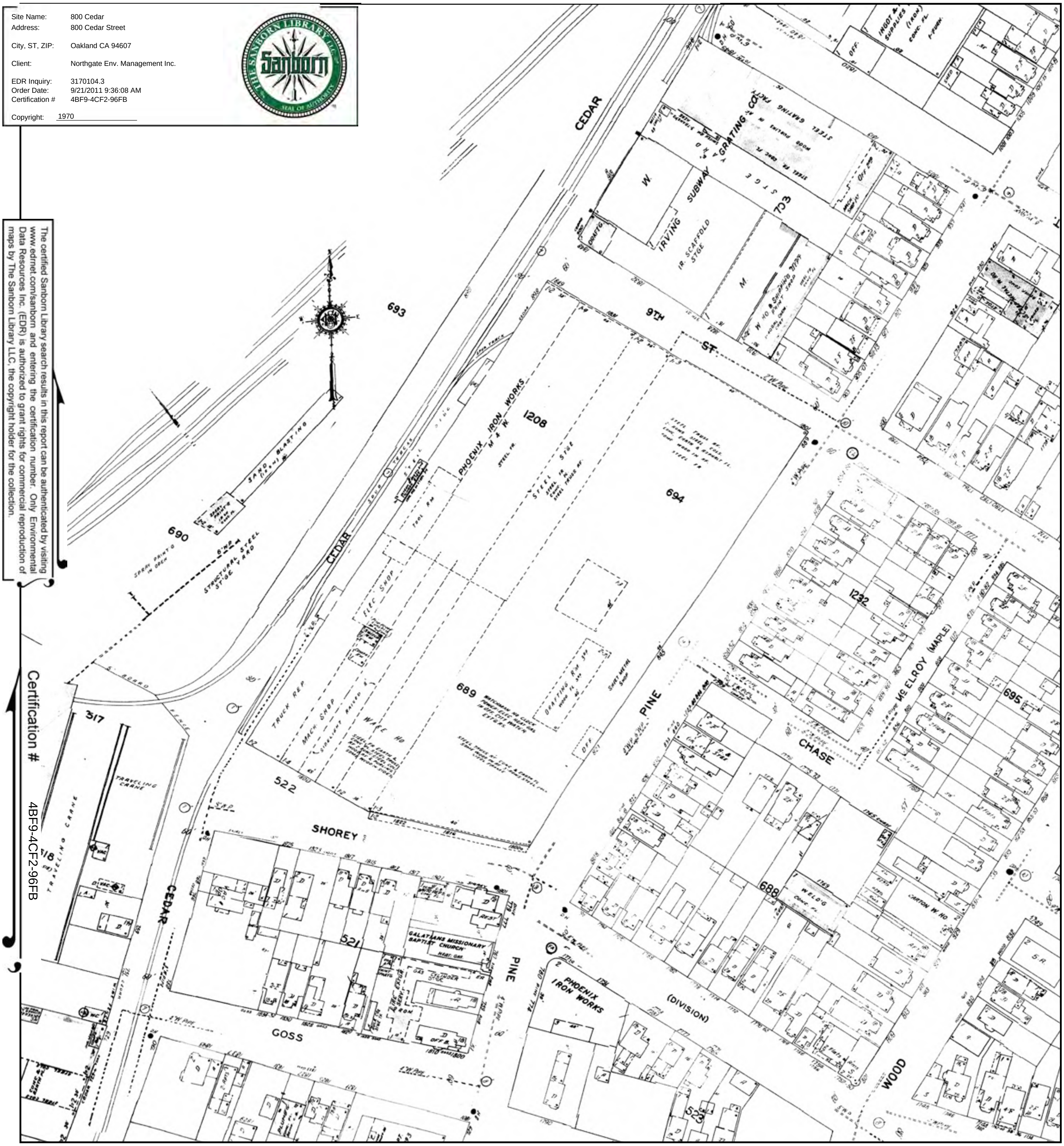
N

1970 Certified Sanborn Map

Site Name: 800 Cedar
Address: 800 Cedar Street
City, ST, ZIP: Oakland CA 94607
Client: Northgate Env. Management Inc.
EDR Inquiry: 3170104.3
Order Date: 9/21/2011 9:36:08 AM
Certification # 4BF9-4CF2-96FB
Copyright: 1970

Certification # 4BF9-4CF2-96FB



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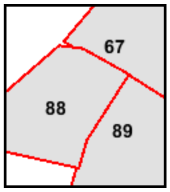

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Volume 1, Sheet 88
Volume 1, Sheet 89

1889 Certified Sanborn Map

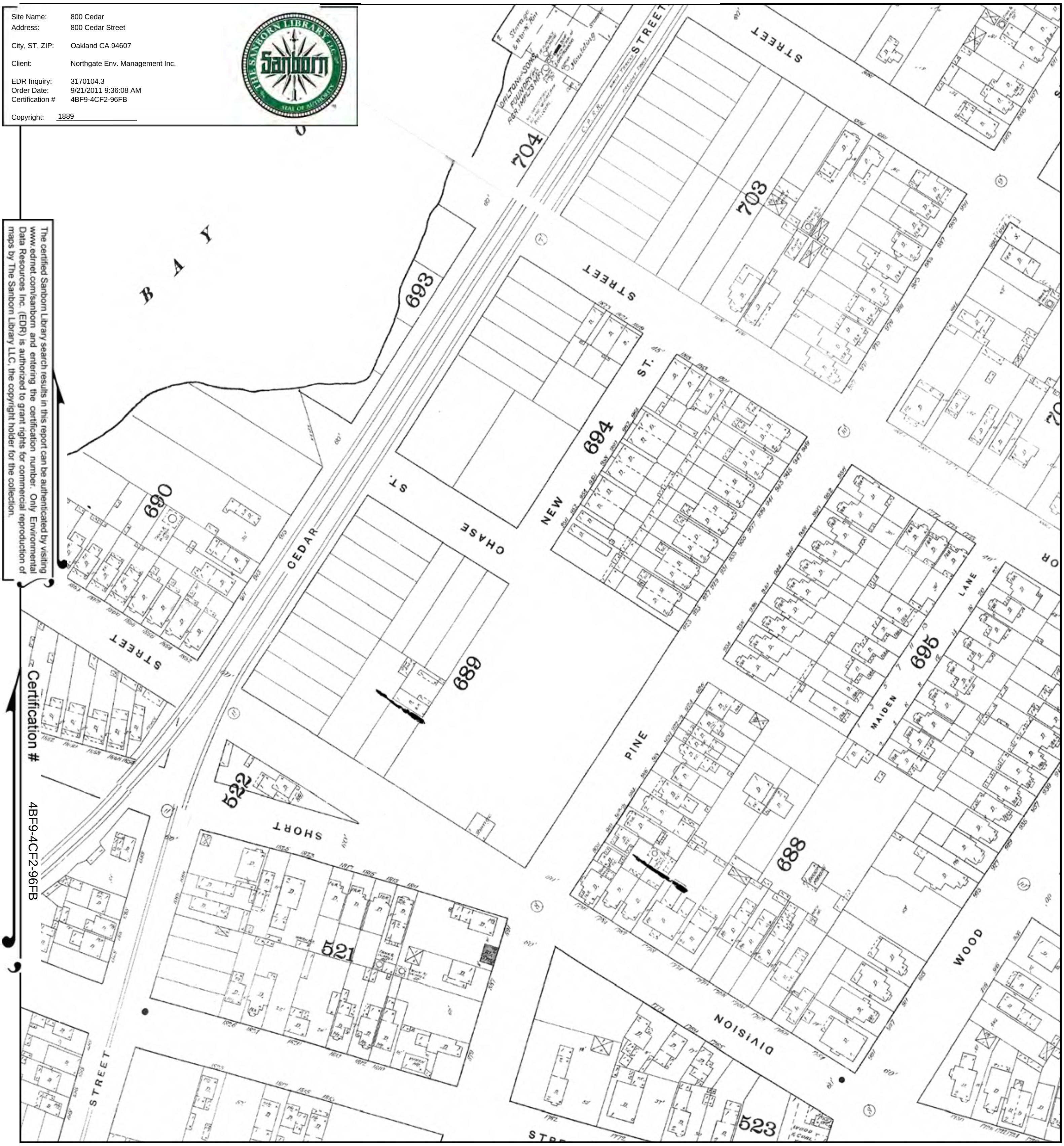
Site Name: 800 Cedar
Address: 800 Cedar Street

City, ST, ZIP: Oakland CA 94607

Client: Northgate Env. Management Inc.

EDR Inquiry: 3170104.3
Order Date: 9/21/2011 9:36:08 AM
Certification # 4BF9-4CF2-96FB

Copyright: 1889



Certification # 4BF9-4CF2-96FB

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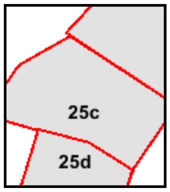

Volume 1, Sheet 25c
Volume 1, Sheet 25c
Volume 1, Sheet 25d

800 Cedar
800 Cedar Street
Oakland, CA 94607

Inquiry Number: 3170104.4
September 21, 2011

EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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Historical Topographic Map

N

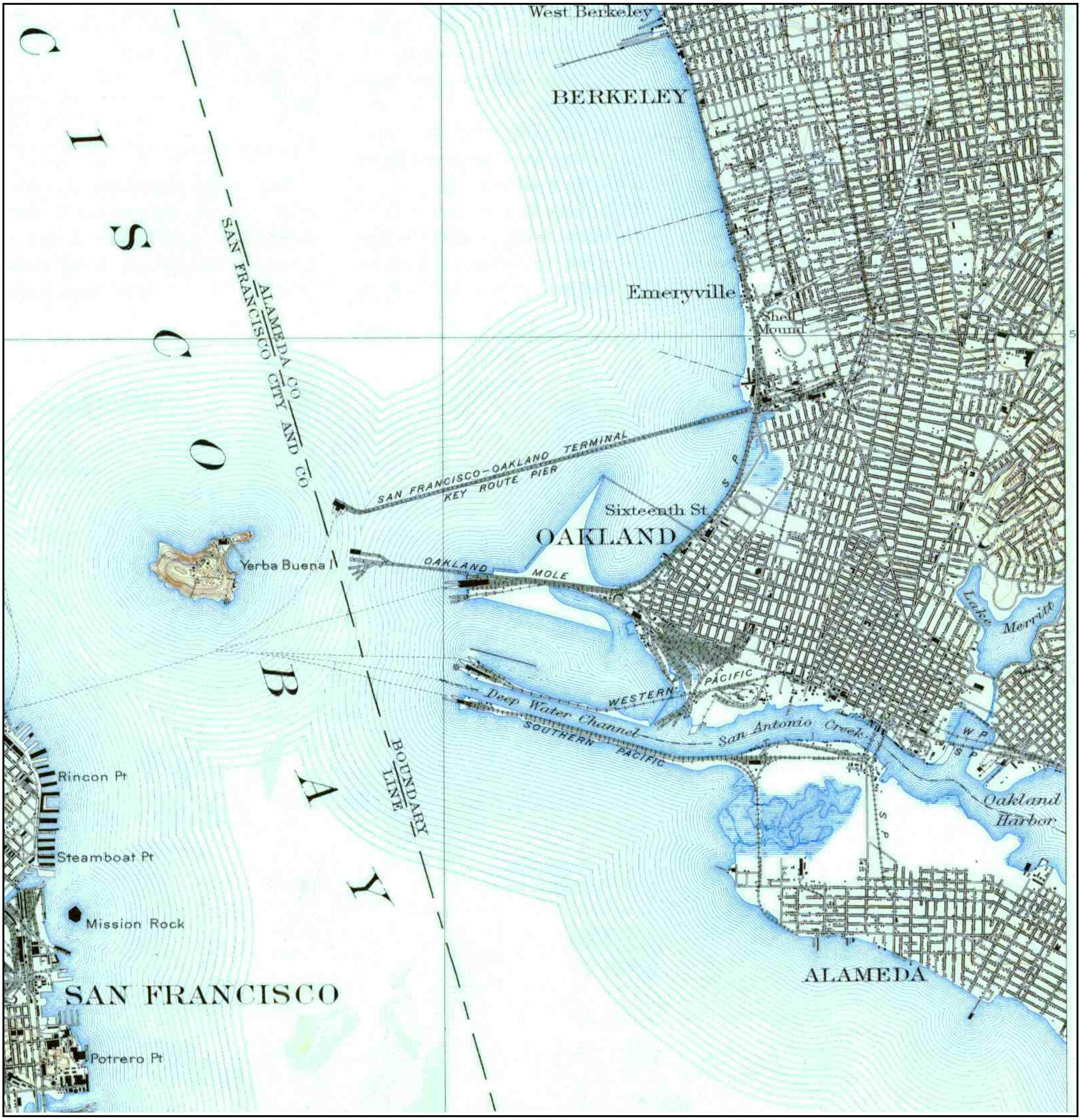
TARGET QUAD
NAME: SAN FRANCISCO
MAP YEAR: 1895

SERIES: 15
SCALE: 1:62500

SITE NAME: 800 Cedar
ADDRESS: 800 Cedar Street
Oakland, CA 94607
LAT/LONG: 37.8098 / -122.3033

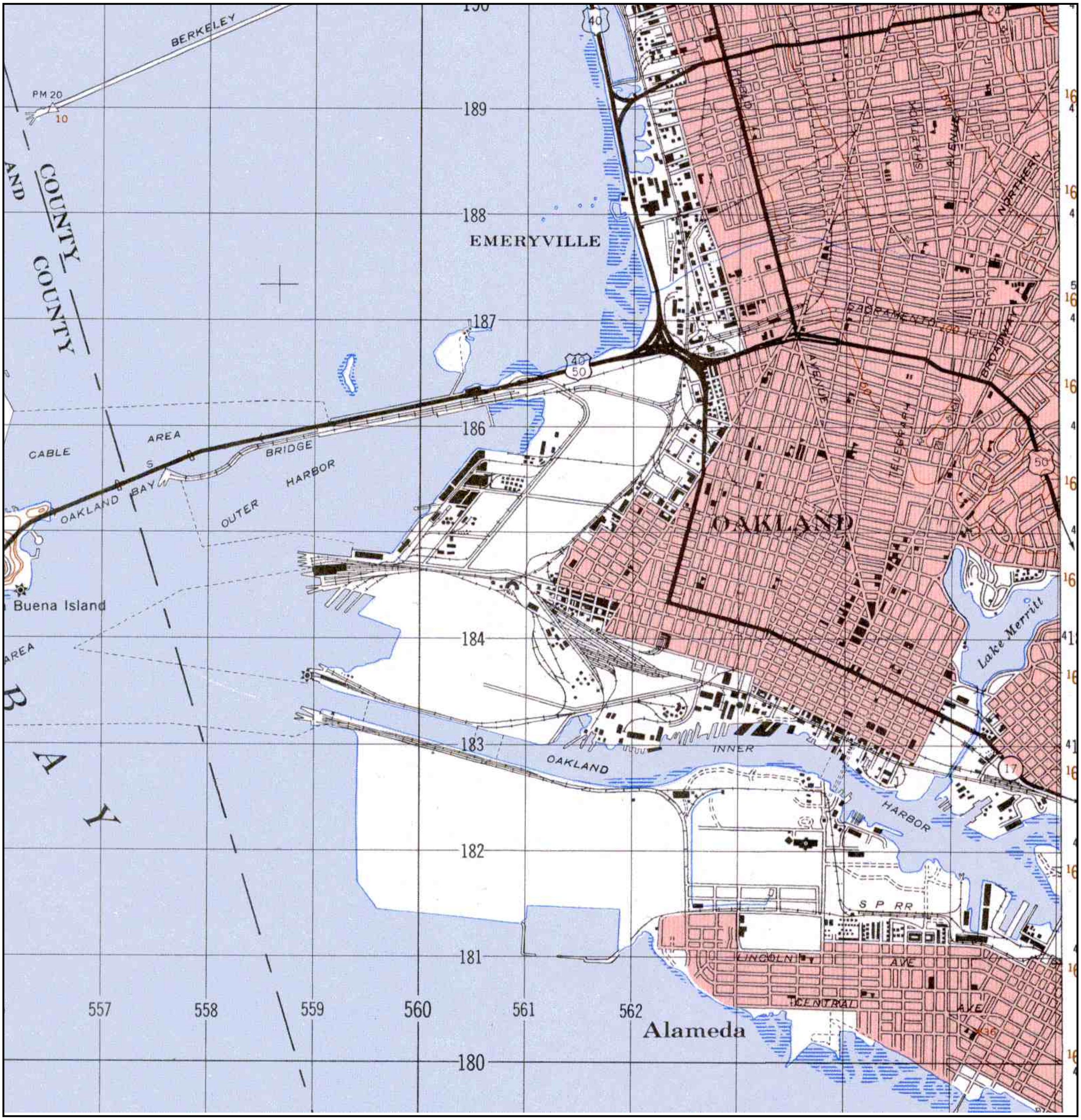
CLIENT: Northgate Env. Management Inc.
CONTACT: Anya Starovoytov
INQUIRY#: 3170104.4
RESEARCH DATE: 09/21/2011

Historical Topographic Map



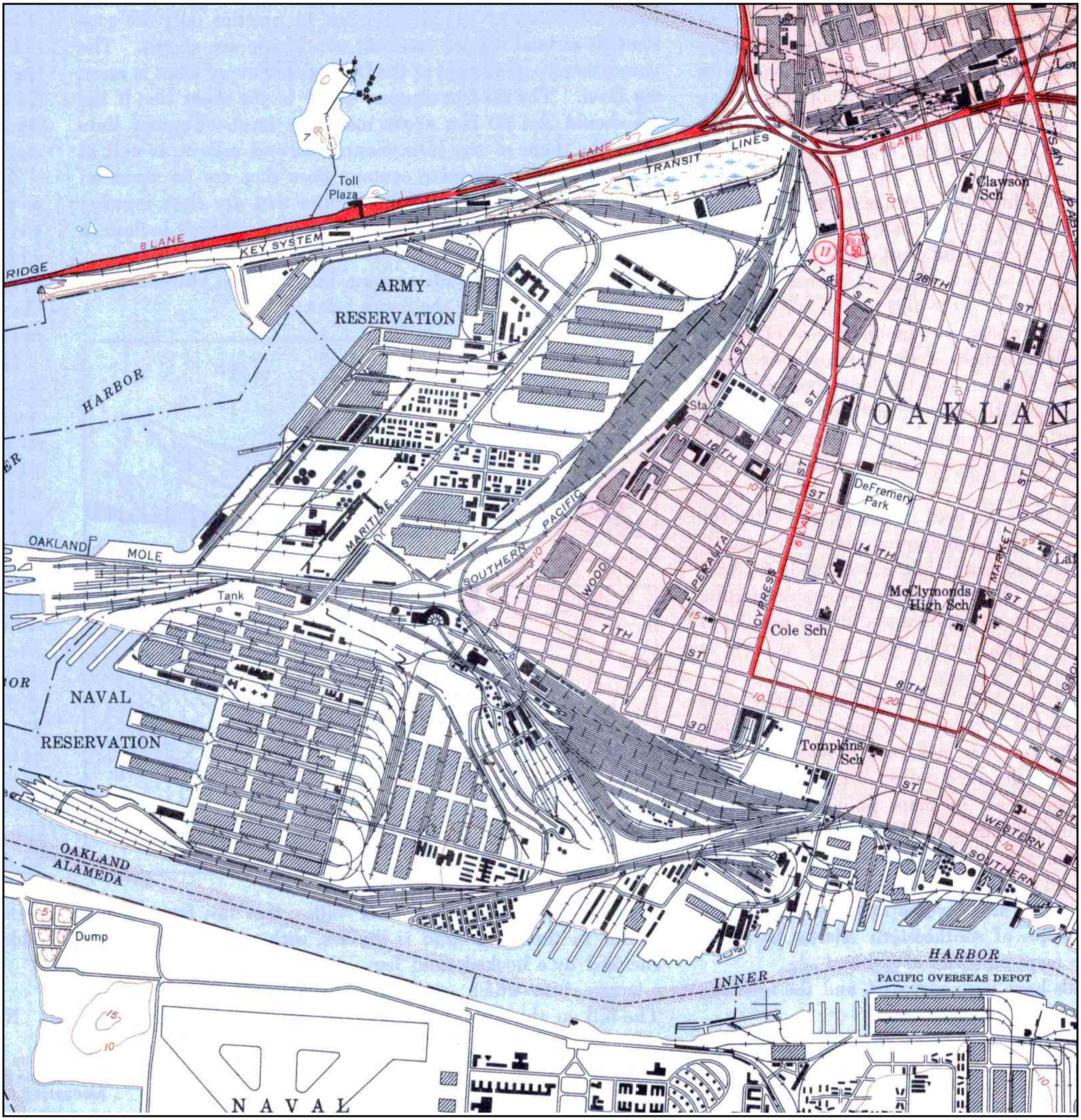
N	TARGET QUAD NAME: SAN FRANCISCO MAP YEAR: 1915 SERIES: 15 SCALE: 1:62500	SITE NAME: 800 Cedar ADDRESS: 800 Cedar Street Oakland, CA 94607 LAT/LONG: 37.8098 / -122.3033	CLIENT: Northgate Env. Management Inc. CONTACT: Anya Starovoytov INQUIRY#: 3170104.4 RESEARCH DATE: 09/21/2011

Historical Topographic Map



N	TARGET QUAD NAME: SAN FRANCISCO MAP YEAR: 1948 SERIES: 15 SCALE: 1:50000	SITE NAME: 800 Cedar ADDRESS: 800 Cedar Street Oakland, CA 94607 LAT/LONG: 37.8098 / -122.3033	CLIENT: Northgate Env. Management Inc. CONTACT: Anya Starovoytov INQUIRY#: 3170104.4 RESEARCH DATE: 09/21/2011

Historical Topographic Map



N

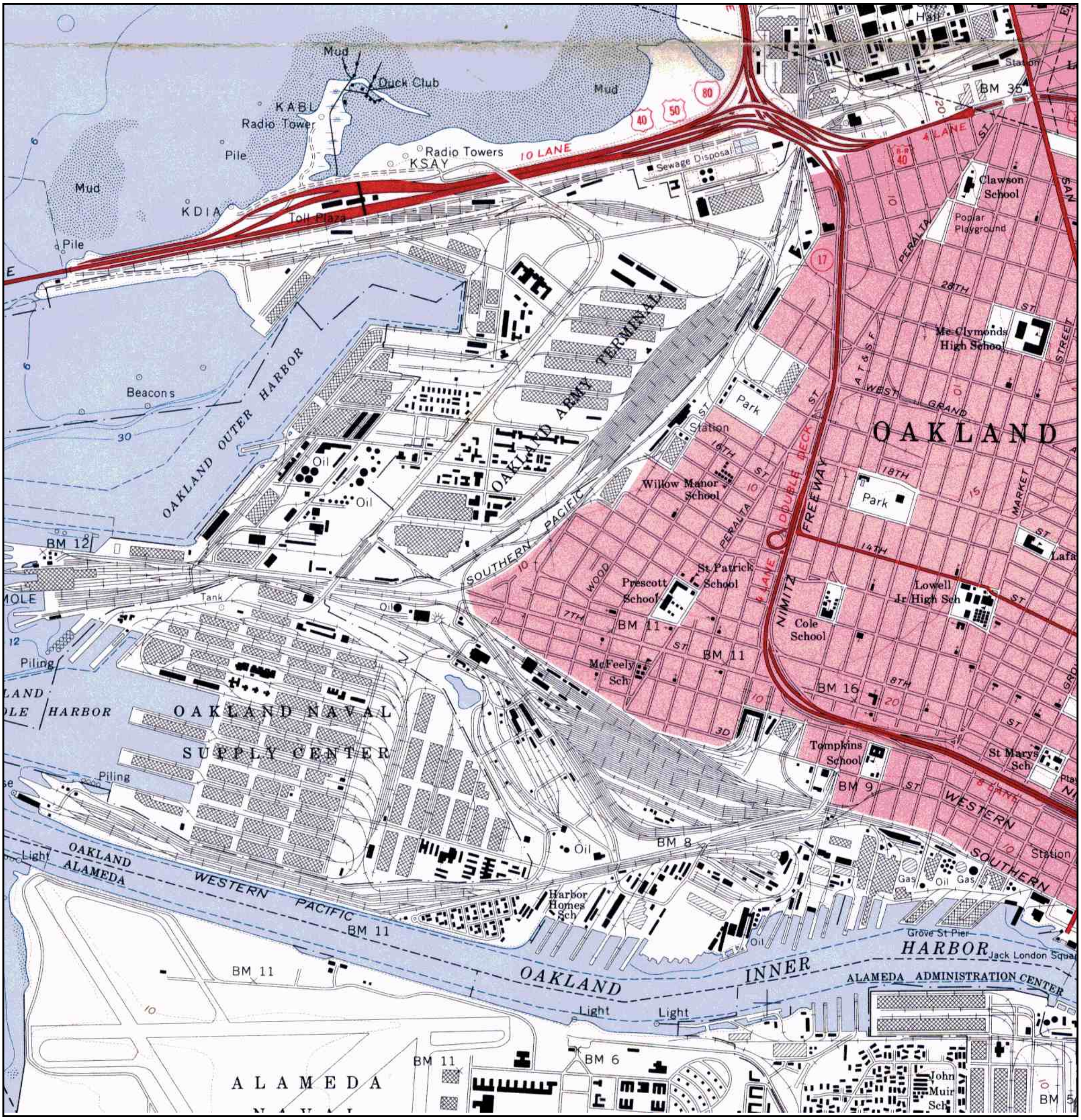
TARGET QUAD
NAME: OAKLANDWEST
MAP YEAR: 1949

SERIES: 7.5
SCALE: 1:24000

SITE NAME: 800 Cedar
ADDRESS: 800 Cedar Street
Oakland, CA 94607
LAT/LONG: 37.8098 / -122.3033

CLIENT: Northgate Env. Management Inc.
CONTACT: Anya Starovoytov
INQUIRY#: 3170104.4
RESEARCH DATE: 09/21/2011

Historical Topographic Map



N

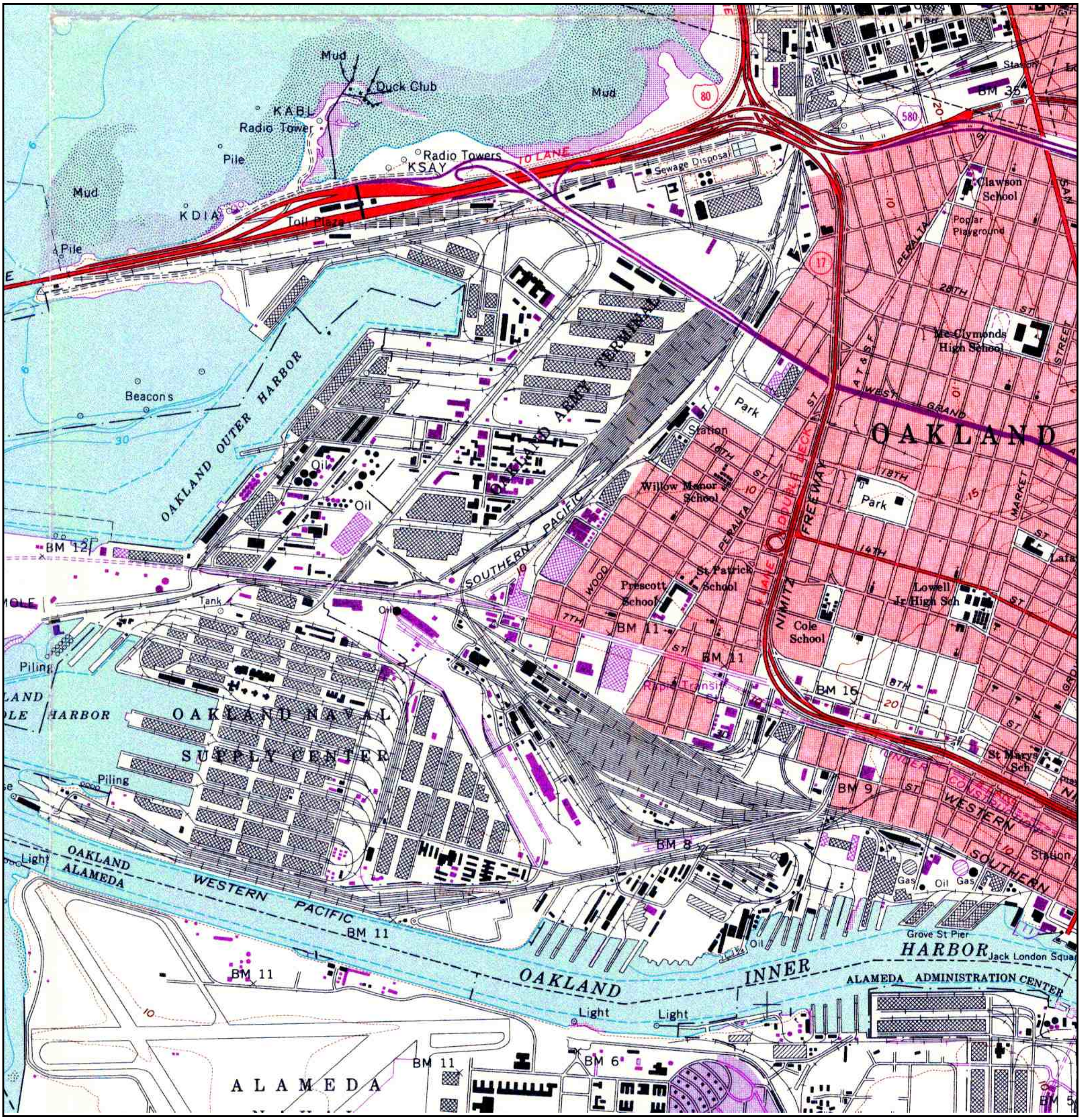
TARGET QUAD
NAME: OAKLANDWEST
MAP YEAR: 1959

SERIES: 7.5
SCALE: 1:24000

SITE NAME: 800 Cedar
ADDRESS: 800 Cedar Street
Oakland, CA 94607
LAT/LONG: 37.8098 / -122.3033

CLIENT: Northgate Env. Management Inc.
CONTACT: Anya Starovoytov
INQUIRY#: 3170104.4
RESEARCH DATE: 09/21/2011

Historical Topographic Map



N

TARGET QUAD
NAME: OAKLANDWEST
MAP YEAR: 1968
PHOTOREVISED:1959
SERIES: 7.5
SCALE: 1:24000

SITE NAME: 800 Cedar
ADDRESS: 800 Cedar Street
Oakland, CA 94607
LAT/LONG: 37.8098 / -122.3033

CLIENT: Northgate Env. Management Inc.
CONTACT: Anya Starovoytov
INQUIRY#: 3170104.4
RESEARCH DATE: 09/21/2011

Historical Topographic Map

N

TARGET QUAD
NAME: OAKLANDWEST
MAP YEAR: 1973
PHOTOREVISED:1959
SERIES: 7.5
SCALE: 1:24000

SITE NAME: 800 Cedar
ADDRESS: 800 Cedar Street
Oakland, CA 94607
LAT/LONG: 37.8098 / -122.3033

CLIENT: Northgate Env. Management Inc.
CONTACT: Anya Starovoytov
INQUIRY#: 3170104.4
RESEARCH DATE: 09/21/2011

Historical Topographic Map

N

TARGET QUAD
NAME: OAKLANDWEST
MAP YEAR: 1980
PHOTOREVISED:1959
SERIES: 7.5
SCALE: 1:24000

SITE NAME: 800 Cedar
ADDRESS: 800 Cedar Street
Oakland, CA 94607
LAT/LONG: 37.8098 / -122.3033

CLIENT: Northgate Env. Management Inc.
CONTACT: Anya Starovoytov
INQUIRY#: 3170104.4
RESEARCH DATE: 09/21/2011

800 Cedar
800 Cedar Street
Oakland, CA 94607

Inquiry Number: 3170104.6
October 03, 2011

The EDR-City Directory Abstract

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.’s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR’s City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2006. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	***Source***	***TP***	***Adjoining***	***Text Abstract***	***Source Image***
2006	Haines Company, Inc.	-	X	X	-
2002	Haines	-	X	X	-
	R. L. Polk & Co.	-	X	X	-
2000	Pacific Bell	-	X	X	-
1996	PACIFIC BELL DIRECTORY	-	X	X	-
1993	Pacific Bell	-	-	-	-
1992	PACIFIC BELL DIRECTORY	X	X	X	-
1991	PACIFIC BELL WHITE PAGES	X	X	X	-
1986	Pacific Bell	-	X	X	-
	PACIFIC BELL WHITE PAGES	-	X	X	-
1984	Pacific Bell	-	X	X	-
1982	Pacific Telephone	-	-	-	-
1980	Pacific Telephone	-	X	X	-
1979	Pacific Telephone	-	X	X	-
1976	Pacific Telephone	-	-	-	-
1975	Pacific Telephone	-	X	X	-
1973	Pacific Telephone	-	-	-	-
1970	Pacific Telephone	-	X	X	-
	Pacific Telephone Directory	-	X	X	-
1967	R. L. Polk & Co.	-	X	X	-
1965	Pacific Telephone	-	X	X	-
1962	Pacific Telephone	-	X	X	-
1960	Pacific Telephone	-	-	-	-
1959	R. L. Polk & Co.	-	-	-	-
1956	Pacific Telephone	-	-	-	-
1955	The Pacific Telephone & Telegraph Co.	-	X	X	-

EXECUTIVE SUMMARY

Year	***Source***	***TP***	***Adjoining***	***Text Abstract***	***Source Image***
1954	R. L. Polk & Co. of California	-	-	-	-
1951	R. L. Polk & Co.	-	-	-	-
1950	The Pacific Telephone & Telegraph Co.	-	X	X	-
1946	R. L. Polk & Co.	-	-	-	-
1945	The Pacific Telephone & Telegraph Co.	-	X	X	-
1943	R. L. Polk & Co.	-	X	X	-
1940	R. L. Polk & Co.	-	-	-	-
1938	Pacific Telephone	-	X	X	-
1933	R. L. Polk & Co.	-	X	X	-
1932	R. L. Polk & Co. of California	-	-	-	-
1928	R.L. Polk and Co of California	-	X	X	-
1926	R. L. Polk & Co.	-	-	-	-
1925	R. L. Polk & Co. of California	-	X	X	-
1920	R. L. Polk & Co. of California	-	X	X	-

EXECUTIVE SUMMARY

MAP INFORMATION

The Overview Map provides information on nearby property parcel boundaries. Properties on this map that were selected for research are listed below the map.

SELECTED ADDRESSES

The following addresses were selected by the client. Detailed findings are contained in the findings section. An "X" indicates where information was identified.

Address	***Type***	***Findings***
800 Cedar Street	Map ID: 1	
858 PINE ST	Map ID: 2	X
937 PINE ST	Map ID: 34	X
941 PINE ST	Map ID: 35	X
853 MCELROY ST	Map ID: 4	X
1769 GOSS ST	Map ID: 47	X
857 MCELROY ST	Map ID: 5	X

EXECUTIVE SUMMARY

Address	***Type***	***Findings***
1785 9TH ST	Map ID: 8	X
888 Cedar Street	Client Entered	
801 Cedar Street	Client Entered	
1832 9th Street	Client Entered	X
1820 10th Street	Client Entered	X
1778 10th Street	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

800 Cedar Street
Oakland, CA 94607

MapID: 1

FINDINGS DETAIL

Target Property research detail.

Year	***Uses***	***Source***
1992	GREGG S MECHANICAL SERVICES	PACIFIC BELL DIRECTORY
	J & A MACHINE SHOP	PACIFIC BELL DIRECTORY
	YOUNG BILL	PACIFIC BELL DIRECTORY
1991	i Greggs Mechanical Services	PACIFIC BELL WHITE PAGES
	Young Bill	PACIFIC BELL WHITE PAGES

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

10TH

2520 10TH

Year	***Uses***	***Source***
1928	SABIN JOHN M JR County Purchasing Agent Hall of Records H	R.L. Polk and Co of California

10TH ST

2526 10TH ST

Year	***Uses***	***Source***
1943	Sheffield Robt R asst mgr Aermotor Co r	R. L. Polk & Co.
1928	Portland Harriett B3wid John R R	R.L. Polk and Co of California

2622 10TH ST

Year	***Uses***	***Source***
1928	t Melin Anton Mary lab H	R.L. Polk and Co of California

2630 10TH ST

Year	***Uses***	***Source***
1928	Quesada Honrobono Mary M fctywkr H	R.L. Polk and Co of California

10th Street

1778 10th Street

Client Entered

Year	***Uses***	***Source***
2006	No Current Listing	Haines Company, Inc.
1996	JENKINS AUTO WRECKER	PACIFIC BELL DIRECTORY
1992	JENKINS AUTO WRECKER	PACIFIC BELL DIRECTORY
1967	JENKINS AUTO WRECKER	R. L. Polk & Co.

1820 10th Street

Client Entered

Year	***Uses***	***Source***
2006	GOLDEN EAGLE	Haines Company, Inc.
	TRUCKING	Haines Company, Inc.
	NO ANGANOCO	Haines Company, Inc.
	Alexander	Haines Company, Inc.

FINDINGS

Year	*Uses*	*Source*
2006	BETH EDEN	Haines Company, Inc.
	BAPTIST CHURCH	Haines Company, Inc.
2000	GOLDEN EAGLE TRUCKING	Pacific Bell
	CALIFORNIA WASTE SOLUTIONS INC	Pacific Bell
	U S FREIGHT SYSTEMS	Pacific Bell
1996	GOLDEN EAGLE TRUCKING	PACIFIC BELL DIRECTORY
	CALIFORNIA WASTE SOLUTIONS INC	PACIFIC BELL DIRECTORY
	CALIFORNIA WASTE SOLUTIONS INC	PACIFIC BELL DIRECTORY
1992	GLOBE METALS CO	PACIFIC BELL DIRECTORY
1967	GLOBE METALS SMELTERS	R. L. Polk & Co.

8TH ST

1754 8TH ST

Year	*Uses*	*Source*
2006	ROPER Marshall	Haines Company, Inc.
	HERNANDEZ David	Haines Company, Inc.
1967	STEWART DELBERT	R. L. Polk & Co.
	RIDLEY DOROTHY MRS	R. L. Polk & Co.

1756 8TH ST

Year	*Uses*	*Source*
2006	HERNANDEZ David	Haines Company, Inc.
1967	BRISCOE LEON	R. L. Polk & Co.

1764 8TH ST

Year	*Uses*	*Source*
2006	MACDOUGALL Jason	Haines Company, Inc.
1967	WOODFORD ORA M MRS	R. L. Polk & Co.
	BURTON OWENS	R. L. Polk & Co.

1765 8TH ST

Year	*Uses*	*Source*
2006	JONES Josi	Haines Company, Inc.
2000	JONES JOSSI	Pacific Bell
1996	JONES JOSSI	PACIFIC BELL DIRECTORY

1768 8TH ST

Year	*Uses*	*Source*
2006	BEHMARAMFareed	Haines Company, Inc.

FINDINGS

Year	***Uses***	***Source***
1992	SHAW B	PACIFIC BELL DIRECTORY
1970	PRUITT ESTELLE	Pacific Telephone Directory
1967	PRUITT ESTELLE MRS	R. L. Polk & Co.
1943	Castro Frank bartndr r	R. L. Polk & Co.
1928	Prentiss Manuel R	R.L. Polk and Co of California

1770 8TH ST

Year	***Uses***	***Source***
2006	No Current Listing	Haines Company, Inc.
1967	RIK CONNIE MRS H	R. L. Polk & Co.

1772 8TH ST

Year	***Uses***	***Source***
2006	PINKARDLyn Ice	Haines Company, Inc.
1967	YELLING SALLIE MRS 0 G	R. L. Polk & Co.

1774 8TH ST

Year	***Uses***	***Source***
2006	o COOPER Chee	Haines Company, Inc.

1777 8TH ST

Year	***Uses***	***Source***
2006	I ARRIS Lee	Haines Company, Inc.
1967	JACKSON MILTON	R. L. Polk & Co.

1778 8TH ST

Year	***Uses***	***Source***
2006	No Current Listing	Haines Company, Inc.
1967	JEFFERSON ERLENE MRS	R. L. Polk & Co.
	BUTLER VINA K MRS	R. L. Polk & Co.
	A SMITH BERTH	R. L. Polk & Co.

1781 8TH ST

Year	***Uses***	***Source***
2006	AL BAKARIFad II	Haines Company, Inc.
1967	THOMPSON CALEB L	R. L. Polk & Co.

1782 8TH ST

Year	***Uses***	***Source***
2006	No Current Listing	Haines Company, Inc.
2000	PHINIEX GERTRUDE	Pacific Bell

Year	*Uses*	*Source*
1967	MAYE WILLIE M	R. L. Polk & Co.

1784 8TH ST

Year	*Uses*	*Source*
1967	VACANT	R. L. Polk & Co.

1791 8TH ST

Year	*Uses*	*Source*
1967	VINNELL STEEL CORP MFG CO	R. L. Polk & Co.

1792 8TH ST

Year	*Uses*	*Source*
1967	CRANE JOHN E	R. L. Polk & Co.

1794 8TH ST

Year	*Uses*	*Source*
1967	SNEED MACK S TE	R. L. Polk & Co.

1796 8TH ST

Year	*Uses*	*Source*
2006	SANDERS James	Haines Company, Inc.
	NO BLAINEH	Haines Company, Inc.
2000	ALPHA OMEGA FOUNDATION	Pacific Bell
1967	VALLADON GENEVIEVE C S	R. L. Polk & Co.

9TH ST

1752 9TH ST

Year	*Uses*	*Source*
2006	e MADDOX Raymond	Haines Company, Inc.
1967	HOLBERT HENRY	R. L. Polk & Co.

1756 9TH ST

Year	*Uses*	*Source*
2006	DAWSON VIldred	Haines Company, Inc.
1967	SMITH HENRY	R. L. Polk & Co.
	DUNLAP HENRY W	R. L. Polk & Co.

1760 9TH ST

Year	*Uses*	*Source*
2006	a WILLIAMS Jessica	Haines Company, Inc.

FINDINGS

Year	***Uses***	***Source***
1967	TUCKER WILLIE JR	R. L. Polk & Co.

1764 9TH ST

Year	***Uses***	***Source***
2006	e SMITH John	Haines Company, Inc.
	DEACON	Haines Company, Inc.
	LEWIS WILLIE	Haines Company, Inc.
2000	LEWIS WILLIE DEACON	Pacific Bell
1996	LEWIS WILLIE DEACON	PACIFIC BELL DIRECTORY
1992	LEWIS WILLIE DEACON	PACIFIC BELL DIRECTORY

1768 9TH ST

Year	***Uses***	***Source***
2006	e SOPONJose	Haines Company, Inc.
1992	MENDOZA N	PACIFIC BELL DIRECTORY
1967	CHAMBERS GERTRUDE MRS	R. L. Polk & Co.

1777 9TH ST

Year	***Uses***	***Source***
2006	BENNETT Barbara	Haines Company, Inc.
2000	LEWIS EDITH	Pacific Bell
1996	LEWIS EDITH	PACIFIC BELL DIRECTORY
1992	LEWIS EDITH	PACIFIC BELL DIRECTORY

1780 9TH ST

Year	***Uses***	***Source***
2006	No Current Listing	Haines Company, Inc.
1967	VACANT	R. L. Polk & Co.
	VEE LEW	R. L. Polk & Co.

1781 9TH ST

Year	***Uses***	***Source***
2006	JACKSON Ed Ith	Haines Company, Inc.
2000	JACKSON MILTON & EDITH	Pacific Bell
1996	JACKSON MILTON & EDITH	PACIFIC BELL DIRECTORY
1992	JACKSON MILTON & EDITH	PACIFIC BELL DIRECTORY
1967	JACKSON MILTON	R. L. Polk & Co.
	BILBO RICHD	R. L. Polk & Co.

FINDINGS

1782 9TH ST

Year	Uses	Source
1967	A SANDERS J	R. L. Polk & Co.
	BLACK ANNIE MRS	R. L. Polk & Co.
	AITEMON BEN J	R. L. Polk & Co.

1784 9TH ST

Year	Uses	Source
2006	ABIOYE Moses	Haines Company, Inc.
2000	WILLIAMS CAROLYN	Pacific Bell
1996	WILLIAMS CAROLYN	PACIFIC BELL DIRECTORY
	B WILLIAMS VIVIAN	PACIFIC BELL DIRECTORY

Map ID: 8

1785 9TH ST

Year	Uses	Source
2006	PORCHIACara	Haines Company, Inc.
1967	BROWN ERNST	R. L. Polk & Co.

1787 9TH ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1992	LIVINGSTON RAY A	PACIFIC BELL DIRECTORY

1788 9TH ST

Year	Uses	Source
2006	GREATOAKTHE	Haines Company, Inc.
1992	JACKSON HESTER	PACIFIC BELL DIRECTORY
1967	JENNINGS JIM	R. L. Polk & Co.
	CHU PETER	R. L. Polk & Co.

1790 9TH ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.

1794 9TH ST

Year	Uses	Source
2006	EMEZIEM Kenneth	Haines Company, Inc.
2000	GOODWIN VERDA LEE	Pacific Bell
1996	GOODWIN VERDA LEE	PACIFIC BELL DIRECTORY
1992	GOODWIN VERDA LEE	PACIFIC BELL DIRECTORY
1967	HARRIS GEORGIA MRS	R. L. Polk & Co.

FINDINGS

1796 9TH ST

Year	Uses	Source
1992	GOODWIN C	PACIFIC BELL DIRECTORY
1967	NO RETURN	R. L. Polk & Co.

1798 9TH ST

Year	Uses	Source
2006	GUERRAAntonio	Haines Company, Inc.
	RODRIGUEZJulia	Haines Company, Inc.
1967	VACANT	R. L. Polk & Co.

1819 9TH ST

Year	Uses	Source
1992	A IVAN S AUTO BODY	PACIFIC BELL DIRECTORY

1822 9TH ST

Year	Uses	Source
2006	NO ST GEORGE	Haines Company, Inc.
	TRAPEZE ARTS INC	Haines Company, Inc.
	SERBIAN ORTHDX	Haines Company, Inc.

1824 9TH ST

Year	Uses	Source
2000	CAP INTERNATIONAL	Pacific Bell
1996	ULLOA S AUTO REPAIR	PACIFIC BELL DIRECTORY
	TOW S R US	PACIFIC BELL DIRECTORY

1832 9TH ST

Year	Uses	Source
1996	ENVIRONMENTAL DRILLING SERVICE	PACIFIC BELL DIRECTORY

1846 9TH ST

Year	Uses	Source
1928	Katsulakis John T May ilk Jenny Wren Stores H	R.L. Polk and Co of California

9th Street

Client Entered

1832 9th Street

Year	Uses	Source
1996	ENVIRONMENTAL DRILLING SERVICE	PACIFIC BELL DIRECTORY

Year	*Uses*	*Source*
1945	SPEARS WELLS MACHINERY CO INC	The Pacific Telephone & Telegraph Co.
	MICHIGAN POWER SHOVEL CO	The Pacific Telephone & Telegraph Co.
1938	SPEARS WELLS MCHY CO	Pacific Telephone
	GENERAL EXCAVATOR CO	Pacific Telephone
	MICHIGAN POWER SHOVEL CO	Pacific Telephone
	OSGOOD CO GAS SHOVELS	Pacific Telephone
1933	SPEARS WELLS MACHINERY CO INC W H B FOWLER PRES WARD WELLS V-PRES I M WELLS	R. L. Polk & Co.

CHASE CT

1745 CHASE CT

Year	*Uses*	*Source*
1975	JACKSON JAS	Pacific Telephone

1769 CHASE CT

Year	*Uses*	*Source*
1950	ALL STATE SUPPLY CO	The Pacific Telephone & Telegraph Co.

1771 CHASE CT

Year	*Uses*	*Source*
1950	MOORE FLORENCE R	The Pacific Telephone & Telegraph Co.

CHASE ST

1738 CHASE ST

Year	*Uses*	*Source*
2006	BENSONLee	Haines Company, Inc.
1970	ROBINSON WM L	Pacific Telephone Directory
1967	ROBINSON WM L	R. L. Polk & Co.
1962	Robinson Wm L	Pacific Telephone
	Robinson Daisey	Pacific Telephone
1955	ROBINSON GEO	The Pacific Telephone & Telegraph Co.
1950	BROWN MARY R	The Pacific Telephone & Telegraph Co.
1943	Jardine Ida I r	R. L. Polk & Co.
	Jardine Wm dairywkr h	R. L. Polk & Co.

Year	***Uses***	***Source***
1933	JARDINE WILLIE (IDA) CREAMERYWKR H	R. L. Polk & Co.
1928	Yardin Wm lab H	R.L. Polk and Co of California

1739 CHASE ST

Year	***Uses***	***Source***
2006	DEANJoe	Haines Company, Inc.
2000	DEAN JOE	Pacific Bell
1996	DEAN JOE	PACIFIC BELL DIRECTORY
1992	DEAN JOE	PACIFIC BELL DIRECTORY
1991	Dean Joe	PACIFIC BELL WHITE PAGES
1986	Dean Joe	PACIFIC BELL WHITE PAGES
1980	Dean Joe	Pacific Telephone
1975	DEAN JOE	Pacific Telephone
1970	DEAN JOE	Pacific Telephone Directory
1967	DEAN JOSEPH	R. L. Polk & Co.
1962	Dean Joe	Pacific Telephone
1955	DEAN HOWARD	The Pacific Telephone & Telegraph Co.
1950	FRAZIER MABLE R	The Pacific Telephone & Telegraph Co.
1945	PAYNES WESLEY R	The Pacific Telephone & Telegraph Co.
1943	Turner Edw shipydwkr r	R. L. Polk & Co.
	DEAN John M Ethel shipydwkr h	R. L. Polk & Co.
	Boyd Allen Estelle shipydwkr r	R. L. Polk & Co.
	WHITTAKER Octavia Mrs hotelwkr h	R. L. Polk & Co.
1938	WILLIAMS BERTHA R	Pacific Telephone
1933	WILEY BENJ CAR CLNR R	R. L. Polk & Co.
	PATRICK FLOYD CAR CLNR SPCO R	R. L. Polk & Co.
	ANDERSON ETHEL MRS H	R. L. Polk & Co.
1928	Surveyor Dora Mrs H	R.L. Polk and Co of California
	N Orange waiter R	R.L. Polk and Co of California
1925	FRANCIS MRS PEGGY R	R. L. Polk & Co. of California

1745 CHASE ST

Year	***Uses***	***Source***
2006	DURAN Gabriel	Haines Company, Inc.
	METCALFEHermon	Haines Company, Inc.
1992	4 JACKSON JAS	PACIFIC BELL DIRECTORY
	4 SMITH FANNIE	PACIFIC BELL DIRECTORY

FINDINGS

Year	Uses	Source
1991	Jackson Jas	PACIFIC BELL WHITE PAGES
	Smith Fannie	PACIFIC BELL WHITE PAGES
	Smith Farah	PACIFIC BELL WHITE PAGES
	Smith Farah	PACIFIC BELL WHITE PAGES
	Smith Fay	PACIFIC BELL WHITE PAGES
1986	Jackson Jas	PACIFIC BELL WHITE PAGES
	Smith Fannie	PACIFIC BELL WHITE PAGES
1980	Jackson Jas	Pacific Telephone
	Redmond Danl	Pacific Telephone
	Smith Fannie	Pacific Telephone

1765 CHASE ST

Year	Uses	Source
1933	GIGLIOTTI JOS (ANGELENA) CARMN H	R. L. Polk & Co.
1928	Gfillotti Eug tailor R	R.L. Polk and Co of California
	Jos Angelino lab H	R.L. Polk and Co of California

1769 CHASE ST

Year	Uses	Source
2006	ROBESON Nathan	Haines Company, Inc.
2000	JOE S TIRE AND BREAK SERVICE	Pacific Bell
1996	KELLY ESAU CONSTRUCTION	PACIFIC BELL DIRECTORY
1992	AMAR PRASAD AUTO REPAIR	PACIFIC BELL DIRECTORY
	JAXYSON JESSE C	PACIFIC BELL DIRECTORY
1991	Amar Prasad Auto Repair	PACIFIC BELL WHITE PAGES
1986	Amar Prasad Auto Repair	PACIFIC BELL WHITE PAGES
1980	J J J Metal Polishing Plating & Body Repair	Pacific Telephone
1970	TECHWELD CO	Pacific Telephone Directory
1967	TECHWELD CO STEEL FABRICATORS	R. L. Polk & Co.
1962	Techweld Co	Pacific Telephone
1955	GOODSTEIN WILLIAM ALL STATE SUPPLY CO	The Pacific Telephone & Telegraph Co.
	ALL-STATE SUPPLY CO	The Pacific Telephone & Telegraph Co.
1950	GOODSTEIN WM ALL STATE SUPPLY CO	The Pacific Telephone & Telegraph Co.

1771 CHASE ST

Year	Uses	Source
1992	GATISON KENNETH	PACIFIC BELL DIRECTORY
1991	English Annie Bell	PACIFIC BELL WHITE PAGES

FINDINGS

Year	Uses	Source
1975	ENGLISH NED	Pacific Telephone
1970	ENGLISH NED	Pacific Telephone Directory
1967	ENGLISH NED	R. L. Polk & Co.
1962	English Ned	Pacific Telephone
1955	MCCORMICK ELOISE MRS	The Pacific Telephone & Telegraph Co.
1943	Flores Carlos lab r	R. L. Polk & Co.
	Flores Refugia Mrs h	R. L. Polk & Co.
1933	CONLEY ELIZ L (WID CHRIS) H	R. L. Polk & Co.
	CONLEY WM H LAB H	R. L. Polk & Co.
1928	n Philip Marie H	R.L. Polk and Co of California
	Guzman Angel car olnr R	R.L. Polk and Co of California
	Elisa Leonardo Onate H	R.L. Polk and Co of California

1771 1/2 CHASE ST

Year	Uses	Source
1945	DANIELS JOHNNIE R	The Pacific Telephone & Telegraph Co.

1773 CHASE ST

Year	Uses	Source
1955	RIVERS CELESTINE	The Pacific Telephone & Telegraph Co.
1950	RIVERS I REV R	The Pacific Telephone & Telegraph Co.
1943	Fruzzetti Ali lab SP Co h	R. L. Polk & Co.
	Fruzzetti Marie wid Louis h	R. L. Polk & Co.
1938	FRUZETTI A R	Pacific Telephone
1933	FRUZZETTI ANTONE LAB R	R. L. Polk & Co.
	FRUZZETTI MARY (WID LOUIS) H	R. L. Polk & Co.

1775 CHASE ST

Year	Uses	Source
1945	FRUZZETTI FRANCIS P R	The Pacific Telephone & Telegraph Co.
1943	Fruzzetti Francis P Helen M clk h	R. L. Polk & Co.
1928	Fruzzette Mary Mrs H	R.L. Polk and Co of California

1779 CHASE ST

Year	Uses	Source
2006	a ROBESON Nathan	Haines Company, Inc.
1970	SHUTTLEWORTH IRA JACK	Pacific Telephone Directory

Year	Uses	Source
1955	RELIFORD FRANCES	The Pacific Telephone & Telegraph Co.
1950	MITCHELL CLEO F R	The Pacific Telephone & Telegraph Co.
1943	Piona Manuel Dina ironwkr h	R. L. Polk & Co.
	Stevens Geo shipydwkr r	R. L. Polk & Co.
1933	DEL SARTO MAURICO LAB H	R. L. Polk & Co.
1928	Del Sarto Maurice lab H	R.L. Polk and Co of California

E 8TH ST

1770 E 8TH ST

Year	Uses	Source
1928	Ardley John fctywkr R	R.L. Polk and Co of California

GOSS ST

1769 GOSS ST

Map ID: 47

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1991	Sturholmarol	PACIFIC BELL WHITE PAGES
1980	Johnson A	Pacific Telephone
1970	PAGE ARTHUR	Pacific Telephone Directory
	PAGE GERALDINE	Pacific Telephone Directory
1967	PAGE GERALDINE MRS	R. L. Polk & Co.
1962	Adams John B Sr	Pacific Telephone
1955	BOYER HARVEY D	The Pacific Telephone & Telegraph Co.
1950	WILSON JAS R R	The Pacific Telephone & Telegraph Co.
1943	Fletcher Joel lab r	R. L. Polk & Co.
	Jones Theo barber r	R. L. Polk & Co.
	Shields Frances h	R. L. Polk & Co.
	Ferrel Coleman shipydwkr r	R. L. Polk & Co.
	EDWARDS Attis T porter r	R. L. Polk & Co.
1938	CRUIKSHANK MANUEL JR R	Pacific Telephone
1933	ROBERTSON MARGT M MAID R	R. L. Polk & Co.
	BATIES SOL CAR CLNR R	R. L. Polk & Co.
	DAVIS BERTHA (WID RAYMOND) H	R. L. Polk & Co.
1928	r Chas B H	R.L. Polk and Co of California
	Broadway Marshall porter R	R.L. Polk and Co of California

Year	Uses	Source
1925	BEASLEY MRS M R	R. L. Polk & Co. of California

MCELROY ST

852 MCELROY ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1962	Christian Dave	Pacific Telephone
1943	Sastini Leo S Annie shipydwkr h	R. L. Polk & Co.
	Sastini Angelina Mrs h	R. L. Polk & Co.

Map ID: 4

853 MCELROY ST

Year	Uses	Source
2006	DE LEON Rufno	Haines Company, Inc.
1943	Barcelas Mary Mrs Indywkr r	R. L. Polk & Co.
	Cabanaro John h	R. L. Polk & Co.

854 MCELROY ST

Year	Uses	Source
2006	ODONOGHUE Klean	Haines Company, Inc.
1943	SOUSA Tony A firemn SP Co h	R. L. Polk & Co.

856 MCELROY ST

Year	Uses	Source
2006	CHAMBERS Larry	Haines Company, Inc.
1986	Manuel R	PACIFIC BELL WHITE PAGES
	Manuel Perry	PACIFIC BELL WHITE PAGES
1980	Manuel Perry	Pacific Telephone
1943	Vasquez Roger carp r	R. L. Polk & Co.
	Vasquez Manuel Benigna whsmn h	R. L. Polk & Co.
	Torres Rudolph C clk S F Ry r	R. L. Polk & Co.

Map ID: 5

857 MCELROY ST

Year	Uses	Source
2006	VARDANEGA Robed	Haines Company, Inc.
1962	Collins Kattie	Pacific Telephone
1943	Rosso Onorato jan r	R. L. Polk & Co.
	Coggiola Colombo wid Enrico h	R. L. Polk & Co.
	Coggiola Eliz B r	R. L. Polk & Co.

FINDINGS

859 MCELROY ST

Year	Uses	Source
1943	HUDSON Kathleen Mrs h	R. L. Polk & Co.

860 MCELROY ST

Year	Uses	Source
2006	EVANS Wayne	Haines Company, Inc.
1980	Jackson Jas	Pacific Telephone
1943	ESTES Thos C Pearl shipydwkr h	R. L. Polk & Co.
	Lewis John W shipydwkr r	R. L. Polk & Co.
	Smith Vernon fctywkr r	R. L. Polk & Co.

861 MCELROY ST

Year	Uses	Source
2006	JARQUIN Anabel	Haines Company, Inc.
1986	Whitley Green	PACIFIC BELL WHITE PAGES
	Whitley J	PACIFIC BELL WHITE PAGES
	Whitley Janice	PACIFIC BELL WHITE PAGES
1980	Whitley Green	Pacific Telephone
1962	Whitley Green	Pacific Telephone
	Whitley Olevia	Pacific Telephone
1943	Arruda Aug L Mary shipydwkr h	R. L. Polk & Co.

863 MCELROY ST

Year	Uses	Source
2006	OSUNAEmes Io	Haines Company, Inc.
1962	Jackson Bobbie	Pacific Telephone

864 MCELROY ST

Year	Uses	Source
2006	MURRAY Kenneth	Haines Company, Inc.
	MURRAY Kenneth	Haines Company, Inc.
1962	Mc Kenna M	Pacific Telephone
1943	Madden Martin mech r	R. L. Polk & Co.
	Doyle Mary wid Thos h	R. L. Polk & Co.
	Fournier Volney U Dorothy tilewkr h	R. L. Polk & Co.

865 MCELROY ST

Year	Uses	Source
2006	PUKATCH Richard	Haines Company, Inc.
1991	Grayson Bobbie	PACIFIC BELL WHITE PAGES

FINDINGS

Year	Uses	Source
1986	Graze R	PACIFIC BELL WHITE PAGES
	Grayson Toni	PACIFIC BELL WHITE PAGES
	Grayson Shelley Mae	PACIFIC BELL WHITE PAGES
	Graze Walter	PACIFIC BELL WHITE PAGES
	Grayson Bobbie	PACIFIC BELL WHITE PAGES
	Grayson Chas Edw	PACIFIC BELL WHITE PAGES
	Grayson DD	PACIFIC BELL WHITE PAGES
1980	Grayson Chas Edw	Pacific Telephone
	Grayson Shelley Mae	Pacific Telephone
	Grayson Bobbie	Pacific Telephone
1962	Grayson Bobbie	Pacific Telephone
	Grayson Chas Edw	Pacific Telephone
	Grayson Shelley Mae	Pacific Telephone
1943	Cardoza Adelia D r	R. L. Polk & Co.
	Cardoza Manuel Adelia lab h	R. L. Polk & Co.
	Cardoza Manuel F lab r	R. L. Polk & Co.

868 MCELROY ST

Year	Uses	Source
1943	Rincon Arth Mary lab r	R. L. Polk & Co.
	DUARTE Victor Mary lab h	R. L. Polk & Co.
	DUARTE Susie cnrywkr r	R. L. Polk & Co.

869 MCELROY ST

Year	Uses	Source
2006	e NOCIFERAMario	Haines Company, Inc.
1962	Le Bars Henry r	Pacific Telephone
1943	Poulos Geo G Rose M electn h	R. L. Polk & Co.
	LE BARS Vincencia wid Yves h	R. L. Polk & Co.

872 MCELROY ST

Year	Uses	Source
2006	CARVAJAL Roberto	Haines Company, Inc.
1986	Perry Jessie L	PACIFIC BELL WHITE PAGES
1980	Perry Jessie L	Pacific Telephone
1943	Miller Lawrence F lab r	R. L. Polk & Co.
	Nilla Frank Mary lab h	R. L. Polk & Co.
	Nilla Frank jr seamn r	R. L. Polk & Co.
	Nilla Wm r	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1943	Nilla Lawrence lab NSB r	R. L. Polk & Co.

873 MCELROY ST

Year	Uses	Source
2006	LAWTON Linda	Haines Company, Inc.
1943	Mirizzi Jos Anna guard NAB h	R. L. Polk & Co.
	Gigante Marie r	R. L. Polk & Co.

876 MCELROY ST

Year	Uses	Source
1962	Williams Mary G	Pacific Telephone

877 MCELROY ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1943	Wilson Douglas F lab h	R. L. Polk & Co.

880 MCELROY ST

Year	Uses	Source
2006	LETO Julio	Haines Company, Inc.
1962	Everett Dorothy	Pacific Telephone
	Everett Cleveland	Pacific Telephone
1943	Norbriga Jos lab h	R. L. Polk & Co.
	Norbriga John USA r	R. L. Polk & Co.
	Norbriga Evangeline smstrs r	R. L. Polk & Co.

886 MCELROY ST

Year	Uses	Source
2006	TOOMEYBIII	Haines Company, Inc.
1986	Benjamin F	PACIFIC BELL WHITE PAGES
	Benjamin Ethel M	PACIFIC BELL WHITE PAGES
1980	Benjamin Ethel M	Pacific Telephone
1962	Benjamin Ethel M	Pacific Telephone
1943	Mendez Reno Rena lab h	R. L. Polk & Co.
	Mendana Teresa Indywkr r	R. L. Polk & Co.

FINDINGS

PINE

1001 PINE

Year	*Uses*	*Source*
1955	BOLDRIDGE GEORGIA MRS R	The Pacific Telephone & Telegraph Co.
1928	Anthony M Evelyn blrmkr H	R.L. Polk and Co of California
	Creamery Sol emp SPCo R	R.L. Polk and Co of California
	t Herman J Evelyn blrmkr H	R.L. Polk and Co of California
1925	BROWN EVELYN B R	R. L. Polk & Co. of California

1003 PINE

Year	*Uses*	*Source*
1925	MARLOW BERT R	R. L. Polk & Co. of California

1004 PINE

Year	*Uses*	*Source*
1970	POST AUTO WRECKERS	Pacific Telephone Directory
1955	BELLAMY CLARENCE W	The Pacific Telephone & Telegraph Co.

1005 PINE

Year	*Uses*	*Source*
1955	MCCULLOUGH BERNICE R	The Pacific Telephone & Telegraph Co.

1006 PINE

Year	*Uses*	*Source*
1955	EMERICK C G	The Pacific Telephone & Telegraph Co.
1928	Dmnmick Virgil B Matilda ydmn H	R.L. Polk and Co of California
1925	DIMMICK V B R	R. L. Polk & Co. of California

1009 PINE

Year	*Uses*	*Source*
1970	FONTENETTE JOHN	Pacific Telephone Directory
1955	HUNTSBERRY MARY	The Pacific Telephone & Telegraph Co.

708 PINE

Year	*Uses*	*Source*
1980	Sawyer Shoe Shine Parlor	Pacific Telephone

FINDINGS

714 PINE

Year	Uses	Source
1980	Fritch Eugene	Pacific Telephone

727 PINE

Year	Uses	Source
1980	Hewitt Robt	Pacific Telephone

751 PINE

Year	Uses	Source
1955	CRUIKSHANK MANUEL JR R	The Pacific Telephone & Telegraph Co.
	CRUIKSHANK MANUEL JR PUB ACCT	The Pacific Telephone & Telegraph Co.

755 PINE

Year	Uses	Source
1955	HAMPTON ROSE ANNA	The Pacific Telephone & Telegraph Co.

759 PINE

Year	Uses	Source
1986	Golden Star Trucking	PACIFIC BELL WHITE PAGES
1980	Golden Star Trucking	Pacific Telephone
1955	FROST CALLIE	The Pacific Telephone & Telegraph Co.

763 PINE

Year	Uses	Source
1955	COOKS RAYMOND SR	The Pacific Telephone & Telegraph Co.

767 PINE

Year	Uses	Source
1980	St Lukes Missionary Baptist Church	Pacific Telephone
1955	MT MORIAH BAPTIST CHURCH	The Pacific Telephone & Telegraph Co.

779 PINE

Year	Uses	Source
1970	GILKEY L B	Pacific Telephone Directory
1955	HERMAN JOE	The Pacific Telephone & Telegraph Co.
	JENKINS JOS R	The Pacific Telephone & Telegraph Co.

FINDINGS

Year	Uses	Source
1955	STEVENS EDWINA MISS	The Pacific Telephone & Telegraph Co.
1925	HITE A M R	R. L. Polk & Co. of California

800 PINE

Year	Uses	Source
1991	Monsour M	PACIFIC BELL WHITE PAGES
	Montag D	PACIFIC BELL WHITE PAGES
	Montagne T	PACIFIC BELL WHITE PAGES
	Mc Laughlin Brian	PACIFIC BELL WHITE PAGES
	Mc Laughlin Bruce A	PACIFIC BELL WHITE PAGES
1986	Mc Mullen Kevin	PACIFIC BELL WHITE PAGES
	Monsour M	PACIFIC BELL WHITE PAGES
	Parker Robert	PACIFIC BELL WHITE PAGES
	Pine Iron Works	PACIFIC BELL WHITE PAGES
	Senegal D	PACIFIC BELL WHITE PAGES
	Senechal A	PACIFIC BELL WHITE PAGES
	Seneca Steel Co	PACIFIC BELL WHITE PAGES
	Schultz Bros Photographers	PACIFIC BELL WHITE PAGES
	Schultz Bart	PACIFIC BELL WHITE PAGES

806 PINE

Year	Uses	Source
1970	Clark Fredrick R	Pacific Telephone

808 PINE

Year	Uses	Source
1955	ODELL R E R	The Pacific Telephone & Telegraph Co.

812 PINE

Year	Uses	Source
1970	Bennett Robert R	Pacific Telephone
1928	Limos Nick cook H	R.L. Polk and Co of California

815 PINE

Year	Uses	Source
1991	Zajac Marianna	PACIFIC BELL WHITE PAGES
	Bischoff Jeffery	PACIFIC BELL WHITE PAGES
	Bischoff John	PACIFIC BELL WHITE PAGES
	Block Cinder	PACIFIC BELL WHITE PAGES

FINDINGS

Year	Uses	Source
1991	Zaitzew M	PACIFIC BELL WHITE PAGES
	Zajac D	PACIFIC BELL WHITE PAGES
1986	Anderson Greg L	PACIFIC BELL WHITE PAGES
	Espinosa Dante F	PACIFIC BELL WHITE PAGES

816 PINE

Year	Uses	Source
1980	Amos Minnie O	Pacific Telephone
1970	AMOS MINNIE O	Pacific Telephone Directory
1955	ELAM TOM	The Pacific Telephone & Telegraph Co.
1928	Varela Louise Q wid Mit iil H	R.L. Polk and Co of California
	Varela Iltoug R	R.L. Polk and Co of California
	Varela Leonore R	R.L. Polk and Co of California

817 PINE

Year	Uses	Source
1991	Calderwood Merl	PACIFIC BELL WHITE PAGES

818 PINE

Year	Uses	Source
1980	Stevenson Willnetta	Pacific Telephone
1970	THOMAS ALBERT R	Pacific Telephone Directory
1955	NEELEY FRED	The Pacific Telephone & Telegraph Co.

821 PINE

Year	Uses	Source
1991	CYPRE S S S ALVAGE	PACIFIC BELL WHITE PAGES
	Cypress Auto Salvage	PACIFIC BELL WHITE PAGES
	Cypress Used Auto Parts	PACIFIC BELL WHITE PAGES
1986	CYPRE S S S ALVAGE	PACIFIC BELL WHITE PAGES
	Cypress Used Auto Parts	PACIFIC BELL WHITE PAGES
	Cypress Auto Salvage	PACIFIC BELL WHITE PAGES
1980	Cypress Used Auto Parts	Pacific Telephone
	CYPRESS SALVAGE	Pacific Telephone
	Cypress Auto Salvage	Pacific Telephone

822 PINE

Year	Uses	Source
1986	Campbell Floyd	PACIFIC BELL WHITE PAGES

Year	***Uses***	***Source***
1980	Campbell Floyd	Pacific Telephone
	Howard D	Pacific Telephone
1970	LINZIE ESTORIA LEE	Pacific Telephone Directory
1955	LINZIE ROOSEVELT R	The Pacific Telephone & Telegraph Co.
	NICHOLAS ETHEL MRS	The Pacific Telephone & Telegraph Co.

826 PINE

Year	***Uses***	***Source***
1991	Walls Opal	PACIFIC BELL WHITE PAGES
	Gilliam Ronita	PACIFIC BELL WHITE PAGES
1986	Alexander Eddie	PACIFIC BELL WHITE PAGES
1980	Jackson Ethel	Pacific Telephone
1970	CHEATHAM CLYTIE	Pacific Telephone Directory
1955	CHEATHAM CLYTIE	The Pacific Telephone & Telegraph Co.

830 PINE

Year	***Uses***	***Source***
1986	Williams Demetrious	PACIFIC BELL WHITE PAGES
1980	Williams Demetrious	Pacific Telephone
1970	Woods Chas L	Pacific Telephone
	WELLS DORIS	Pacific Telephone Directory
1955	GOMEZ FRANK R	The Pacific Telephone & Telegraph Co.
	SPIKULA NICK JR R	The Pacific Telephone & Telegraph Co.

834 PINE

Year	***Uses***	***Source***
1970	WILLIAMS SAMMIE	Pacific Telephone Directory
1955	WILLIAMS SAMMIE	The Pacific Telephone & Telegraph Co.

835 PINE

Year	***Uses***	***Source***
1970	Miller J Ivan	Pacific Telephone

836 PINE

Year	***Uses***	***Source***
1991	Spikula John	PACIFIC BELL WHITE PAGES

FINDINGS

Year	*Uses*	*Source*
1986	Spikula John	PACIFIC BELL WHITE PAGES
1980	Spikula John	Pacific Telephone
1970	Taylor Norman J Jr	Pacific Telephone

842 PINE

Year	*Uses*	*Source*
1970	Gray Carson	Pacific Telephone

844 PINE

Year	*Uses*	*Source*
1986	Landry Wilmer C Chr Sci Pr	PACIFIC BELL WHITE PAGES
	Landry Ozell	PACIFIC BELL WHITE PAGES
1980	Landry Ozell	Pacific Telephone
1970	LANDRY OZELL	Pacific Telephone Directory
1955	LANDRY OZELL R	The Pacific Telephone & Telegraph Co.

846 PINE

Year	*Uses*	*Source*
1955	SPAGAN JOHNNIE	The Pacific Telephone & Telegraph Co.

848 PINE

Year	*Uses*	*Source*
1970	Holcomb Earl W	Pacific Telephone
1955	OWENS MARY	The Pacific Telephone & Telegraph Co.

850 PINE

Year	*Uses*	*Source*
1955	FLEMINGS IRELENE J	The Pacific Telephone & Telegraph Co.

852 PINE

Year	*Uses*	*Source*
1991	Jones Genner	PACIFIC BELL WHITE PAGES
1986	Jones Genner	PACIFIC BELL WHITE PAGES
1980	Jones Genner	Pacific Telephone
1970	JONES GENNER	Pacific Telephone Directory

FINDINGS

854 PINE

Year	*Uses*	*Source*
1955	HARRIS JAS	The Pacific Telephone & Telegraph Co.

858 PINE

Year	*Uses*	*Source*
1955	HENDERSON HENRY R	The Pacific Telephone & Telegraph Co.

860 PINE

Year	*Uses*	*Source*
1970	Bettencourt Edw D	Pacific Telephone

862 PINE

Year	*Uses*	*Source*
1955	DUARTE GREGORY	The Pacific Telephone & Telegraph Co.

865 PINE

Year	*Uses*	*Source*
1925	SCOTT W A TAXI SERV	R. L. Polk & Co. of California

866 PINE

Year	*Uses*	*Source*
1991	Rienhardt Chas	PACIFIC BELL WHITE PAGES
1986	Rienhardt Chas	PACIFIC BELL WHITE PAGES
1980	Rienhardt Chas	Pacific Telephone
1970	Bull Jason A	Pacific Telephone
	PEGG VELMA	Pacific Telephone Directory
1955	PEGG VELMA R	The Pacific Telephone & Telegraph Co.
1925	HODGES MRS A W R	R. L. Polk & Co. of California

870 PINE

Year	*Uses*	*Source*
1970	NEELY GERTRUDE	Pacific Telephone Directory
	NEELY SAMMIE	Pacific Telephone Directory
1955	CAREY ALEX R	The Pacific Telephone & Telegraph Co.

FINDINGS

874 PINE

Year	Uses	Source
1955	WHITE BOBBY	The Pacific Telephone & Telegraph Co.
	WHITE ESSIE MAE	The Pacific Telephone & Telegraph Co.

878 PINE

Year	Uses	Source
1970	Gainous Jack T	Pacific Telephone
1955	ELLIS REPAIR SERVICE	The Pacific Telephone & Telegraph Co.
1928	Martcellacci Victor Rose lab H	R.L. Polk and Co of California

882 PINE

Year	Uses	Source
1955	MARTINEZ MAX J	The Pacific Telephone & Telegraph Co.
	MARTINEZ ROBT	The Pacific Telephone & Telegraph Co.

884 PINE

Year	Uses	Source
1970	Lutz Bert	Pacific Telephone

886 PINE

Year	Uses	Source
1986	Reynolds Charlie J Red	PACIFIC BELL WHITE PAGES
1980	Martin Gertrude	Pacific Telephone
1970	MARTIN GERTRUDE	Pacific Telephone Directory

903 PINE

Year	Uses	Source
1991	Edwards Harvie	PACIFIC BELL WHITE PAGES
1986	Edwards Harvie	PACIFIC BELL WHITE PAGES
1980	Edwards Harvie	Pacific Telephone
1970	EDWARDS HARVIE	Pacific Telephone Directory
1955	EDWARDS HARVIE	The Pacific Telephone & Telegraph Co.
1925	ROSE LYDIA A R	R. L. Polk & Co. of California

FINDINGS

905 PINE

Year	Uses	Source
1955	CONN E A R	The Pacific Telephone & Telegraph Co.

907 PINE

Year	Uses	Source
1986	Kellum Chas	PACIFIC BELL WHITE PAGES
	Kellum Arthur Mack	PACIFIC BELL WHITE PAGES
1980	Kellum Arthur Mack	Pacific Telephone
1955	SILVA JENNIE D MRS	The Pacific Telephone & Telegraph Co.

911 PINE

Year	Uses	Source
1980	Battle Ernest R	Pacific Telephone
1970	BATTLE ERNEST R	Pacific Telephone Directory
1955	GABRIEL URIAH	The Pacific Telephone & Telegraph Co.

917 PINE

Year	Uses	Source
1955	WARE MOSES	The Pacific Telephone & Telegraph Co.

924 PINE

Year	Uses	Source
1991	Mendoza Alfred	PACIFIC BELL WHITE PAGES
1986	Mendoza Alfred	PACIFIC BELL WHITE PAGES
1980	Mendoza Alfred	Pacific Telephone
1970	MENDOZA ALFRED	Pacific Telephone Directory
1955	MENDOZA ALFRED R	The Pacific Telephone & Telegraph Co.

927 PINE

Year	Uses	Source
1980	Argueta Ana	Pacific Telephone

927 1/2 PINE

Year	Uses	Source
1970	KELLY JERRY	Pacific Telephone Directory
	KELLY JERRY	Pacific Telephone Directory

FINDINGS

929 PINE

Year	Uses	Source
1970	CASTLEMAN W A	Pacific Telephone Directory
1955	CASTLEMAN W A	The Pacific Telephone & Telegraph Co.

930 PINE

Year	Uses	Source
1986	Radonich Dave	PACIFIC BELL WHITE PAGES
	Radomsky Salvage Co	PACIFIC BELL WHITE PAGES
1980	Radomsky Salvage Co	Pacific Telephone
1970	RADOMSKY SALVAGE CO	Pacific Telephone Directory

933 PINE

Year	Uses	Source
1925	DEWITT HENRY R	R. L. Polk & Co. of California

937 PINE

Year	Uses	Source
1955	LUCICH STEVE R	The Pacific Telephone & Telegraph Co.

942 PINE

Year	Uses	Source
1928	f Frances wid Jas A H	R.L. Polk and Co of California
1925	JONES FRANCES R	R. L. Polk & Co. of California

PINE AVE

1009 PINE AVE

Year	Uses	Source
1928	Fanelli Domenico H	R.L. Polk and Co of California

751 PINE AVE

Year	Uses	Source
1928	h John H	R.L. Polk and Co of California

755 PINE AVE

Year	Uses	Source
1928	Co Jessie Mrs H	R.L. Polk and Co of California
	Grabb Aug R	R.L. Polk and Co of California
	Grabb Henry meatctr R	R.L. Polk and Co of California

FINDINGS

758 PINE AVE

Year	Uses	Source
2006	WONGElaine	Haines Company, Inc.

759 PINE AVE

Year	Uses	Source
2006	a HOLDENER Thomas	Haines Company, Inc.
1928	Sipe Jacob M Nancy E solr H	R.L. Polk and Co of California
	Sipe Ray E formn PG&ECo R	R.L. Polk and Co of California

761 PINE AVE

Year	Uses	Source
1986	MC KONE THOMAS E	Pacific Bell

763 PINE AVE

Year	Uses	Source
1928	Kayo Win Victoria lab H	R.L. Polk and Co of California

767 PINE AVE

Year	Uses	Source
1928	Ciprian Michi car cln R	R.L. Polk and Co of California
	Deleget Mark lab R	R.L. Polk and Co of California
	Perianik Marko car insptr SPCo H	R.L. Polk and Co of California

774 PINE AVE

Year	Uses	Source
2006	POWERS Patrick	Haines Company, Inc.
1928	av Manufacturing Company C R Gray garden tools	R.L. Polk and Co of California

775 PINE AVE

Year	Uses	Source
2006	e DUPONT Patrick	Haines Company, Inc.

779 PINE AVE

Year	Uses	Source
1928	Clifford Alice waiter b H	R.L. Polk and Co of California

789 PINE AVE

Year	Uses	Source
2006	e REDWINE Eaine	Haines Company, Inc.

FINDINGS

790 PINE AVE

Year	*Uses*	*Source*
2006	LYNCH Ctiutopher	Haines Company, Inc.

808 PINE AVE

Year	*Uses*	*Source*
1928	Ohisamar Frank Milly lab H	R.L. Polk and Co of California

811 PINE AVE

Year	*Uses*	*Source*
2006	CROFOOTMichael	Haines Company, Inc.

812 PINE AVE

Year	*Uses*	*Source*
2006	a MEEKER Micael	Haines Company, Inc.

818 PINE AVE

Year	*Uses*	*Source*
1928	Peguero Francisco lab R	R.L. Polk and Co of California

821 PINE AVE

Year	*Uses*	*Source*
1928	Cedar Thos J Vivian car clnr H	R.L. Polk and Co of California

822 PINE AVE

Year	*Uses*	*Source*
1928	Crescent Edmonia Mrs H	R.L. Polk and Co of California

826 PINE AVE

Year	*Uses*	*Source*
1928	Spikula Nich Anna cook H	R.L. Polk and Co of California

830 PINE AVE

Year	*Uses*	*Source*
1928	h Guadalupe stdt R	R.L. Polk and Co of California
	tional Manuel lab R	R.L. Polk and Co of California
	tional Maria wid Jose H	R.L. Polk and Co of California

834 PINE AVE

Year	*Uses*	*Source*
1928	Sastini Eva C stdt R	R.L. Polk and Co of California
	Sastini Anelsna wi Michl H	R.L. Polk and Co of California

FINDINGS

835 PINE AVE

Year	Uses	Source
2006	a PRATHERWFtam	Haines Company, Inc.

836 PINE AVE

Year	Uses	Source
2006	o PRATHER Wiam	Haines Company, Inc.

837 PINE AVE

Year	Uses	Source
1928	Leimar Jos P R	R.L. Polk and Co of California
	Leimar Henry printer R	R.L. Polk and Co of California
	Leimar Alt R	R.L. Polk and Co of California
	Leimar Geo R	R.L. Polk and Co of California
	Leimar Louis Ilremn R	R.L. Polk and Co of California
	Leimar Manuel lab R	R.L. Polk and Co of California
	Leimar Manuel P Isabelle lab H	R.L. Polk and Co of California
	Leimar Virginia P R	R.L. Polk and Co of California
	Le Mar Jos lab R	R.L. Polk and Co of California
	Leamer Manuel K millmn R	R.L. Polk and Co of California

838 PINE AVE

Year	Uses	Source
1928	w Lee C electn H	R.L. Polk and Co of California

840 PINE AVE

Year	Uses	Source
1928	Padilla Lorenzo Sylvia lab H	R.L. Polk and Co of California

842 PINE AVE

Year	Uses	Source
1928	Ophelia Oliver P candymkr H	R.L. Polk and Co of California

844 PINE AVE

Year	Uses	Source
1928	Valadon Anthony Louise carp H	R.L. Polk and Co of California
	Valadon Al! A shtmtlwkr R	R.L. Polk and Co of California

846 PINE AVE

Year	Uses	Source
1928	Ouarez Sabino Aurelia lab H	R.L. Polk and Co of California

848 PINE AVE

Year	Uses	Source
1928	Codenez Bianco H	R.L. Polk and Co of California

850 PINE AVE

Year	Uses	Source
1928	h Geo N Felicina blrmkr H	R.L. Polk and Co of California
	Gemignani Felicia fctywkr R	R.L. Polk and Co of California

851 PINE AVE

Year	Uses	Source
1928	Thos Wm S Lula M lab H	R.L. Polk and Co of California

852 PINE AVE

Year	Uses	Source
1928	Montangelo A lab R	R.L. Polk and Co of California

854 PINE AVE

Year	Uses	Source
1928	Miadlnich Michl Diana lab H	R.L. Polk and Co of California
	Miadlnich John R	R.L. Polk and Co of California
	Filipich Jos lab R	R.L. Polk and Co of California

858 PINE AVE

Year	Uses	Source
1928	Catalau Desiderio lab H	R.L. Polk and Co of California

859 PINE AVE

Year	Uses	Source
1986	LABORERS UNION LOCAL 304	Pacific Bell
1984	LABORDE PAUL J	Pacific Bell
1928	ster Leonardo lab H	R.L. Polk and Co of California
	Ornelas Nieles lab R	R.L. Polk and Co of California
	Rinozzo Edw lab R	R.L. Polk and Co of California
	Reynoso Eduogives lab R	R.L. Polk and Co of California

860 PINE AVE

Year	Uses	Source
2006	e LAZOPedm	Haines Company, Inc.
	LAZOS HOME	Haines Company, Inc.

FINDINGS

861 PINE AVE

Year	Uses	Source
2006	a HERNANDEZLarie	Haines Company, Inc.

862 PINE AVE

Year	Uses	Source
1928	Selado Delflno Pauline lab H	R.L. Polk and Co of California

865 PINE AVE

Year	Uses	Source
1928	av Frank M reprmn R	R.L. Polk and Co of California
	55th Wm A Bobbie H	R.L. Polk and Co of California

866 PINE AVE

Year	Uses	Source
1928	Fayette Mrs H	R.L. Polk and Co of California

870 PINE AVE

Year	Uses	Source
1928	Mannini Gino lab R	R.L. Polk and Co of California
	Nannini Lena Mrs H	R.L. Polk and Co of California
	Nannini Minnie fctywkr R	R.L. Polk and Co of California

874 PINE AVE

Year	Uses	Source
1928	Mc Beulah H	R.L. Polk and Co of California

884 PINE AVE

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.

885 PINE AVE

Year	Uses	Source
2006	HERZIG Maxim	Haines Company, Inc.

886 PINE AVE

Year	Uses	Source
2006	GOZZANOThwoa	Haines Company, Inc.
1928	Foundry n Peter M mach R	R.L. Polk and Co of California
	side Jos C firemn R	R.L. Polk and Co of California
	Havenscourt Gertrude R R	R.L. Polk and Co of California
	n Eliz A 4 Thos P H	R.L. Polk and Co of California

Year	***Uses***	***Source***
1928	way Cath M R	R.L. Polk and Co of California

889 PINE AVE

Year	***Uses***	***Source***
1928	Borgas Joe Mary barbe R	R.L. Polk and Co of California
	H	R.L. Polk and Co of California

890 PINE AVE

Year	***Uses***	***Source***
2006	e ABDELLOUI Laila	Haines Company, Inc.

903 PINE AVE

Year	***Uses***	***Source***
1928	Cudro Felix Margt tmstr H	R.L. Polk and Co of California

905 PINE AVE

Year	***Uses***	***Source***
1928	B Austen A R	R.L. Polk and Co of California

907 PINE AVE

Year	***Uses***	***Source***
1928	F Frank D Jenny barbe R	R.L. Polk and Co of California
	H	R.L. Polk and Co of California

917 PINE AVE

Year	***Uses***	***Source***
1928	N Domingo Ellz lab H	R.L. Polk and Co of California

921 PINE AVE

Year	***Uses***	***Source***
1928	M Gladys pntr H	R.L. Polk and Co of California
	Jos M lab R	R.L. Polk and Co of California

924 PINE AVE

Year	***Uses***	***Source***
1928	land Johnie M wid Chas H	R.L. Polk and Co of California

927 PINE AVE

Year	***Uses***	***Source***
1928	Mary fctywkr R	R.L. Polk and Co of California

FINDINGS

929 PINE AVE

Year	Uses	Source
1928	Santa Prank C Kate clk Ala Belt Line H	R.L. Polk and Co of California
	Santa Francis E clk SPCo R	R.L. Polk and Co of California

932 PINE AVE

Year	Uses	Source
1928	Tillis Jas cook R	R.L. Polk and Co of California

933 PINE AVE

Year	Uses	Source
1928	San Robt Bessie waiter H	R.L. Polk and Co of California
	15th Wallace Anna lath grader H	R.L. Polk and Co of California

937 PINE AVE

Year	Uses	Source
1928	Lucich Anthony R	R.L. Polk and Co of California
	Lucich Lena R	R.L. Polk and Co of California
	Lucich Vivian R	R.L. Polk and Co of California
	Lucich Steve formn PG&ECo H	R.L. Polk and Co of California

942 PINE AVE

Year	Uses	Source
1928	av Sam cook R	R.L. Polk and Co of California
	wood Leonard D waiter R	R.L. Polk and Co of California
	av Jas A Jr stdt R	R.L. Polk and Co of California
	H Howard A porter R	R.L. Polk and Co of California

944 PINE AVE

Year	Uses	Source
1928	h & Pelosi Aladino Martinelli Marino Pelosi gre	R.L. Polk and Co of California

PINE CT

822 PINE CT

Year	Uses	Source
1950	LINZIE ALICE R	The Pacific Telephone & Telegraph Co.

FINDINGS

PINE LN

866 PINE LN

Year	Uses	Source
1975	PEGG VELMA	Pacific Telephone

PINE ST

1001 PINE ST

Year	Uses	Source
1962	Boldridge Georgia Mrs	Pacific Telephone
1945	BOLDRIDGE GEORGIA MRS R	The Pacific Telephone & Telegraph Co.
1943	Baldridge Georgia Mrs h	R. L. Polk & Co.
1938	HAYNIE G K R	Pacific Telephone
1920	BROWN EVELYN B R	R. L. Polk & Co. of California

1003 PINE ST

Year	Uses	Source
1943	Boldridge Matthew Georgia barber r	R. L. Polk & Co.

1004 PINE ST

Year	Uses	Source
1967	BAYSIDE AUTO WRECKING	R. L. Polk & Co.
1950	EMERICK RAYMOND R	The Pacific Telephone & Telegraph Co.
1945	CARPENTER D R R	The Pacific Telephone & Telegraph Co.
1943	HORN Clyde Velma shipydwkr h	R. L. Polk & Co.

1005 PINE ST

Year	Uses	Source
1967	VACANT	R. L. Polk & Co.
1962	Murphy Ollie Lee	Pacific Telephone
1950	KEYS MARIE R	The Pacific Telephone & Telegraph Co.
1945	JOHNSON DAN R	The Pacific Telephone & Telegraph Co.
1943	Vittoli Frank mech r	R. L. Polk & Co.
	Benanda Michl Laura lab h	R. L. Polk & Co.
	Benanda Fred J shipydwkr r	R. L. Polk & Co.
1938	BENANDA MIKE R	Pacific Telephone
1933	BENANDA MICHL (LAURA) LAB H	R. L. Polk & Co.

FINDINGS

1006 PINE ST

Year	***Uses***	***Source***
1950	EMERICK C G R	The Pacific Telephone & Telegraph Co.
1945	EMERICK C G R	The Pacific Telephone & Telegraph Co.
1943	Emerick Claude G Alva swchmn h	R. L. Polk & Co.
1933	LEPURIN JOHN (LUCY) H	R. L. Polk & Co.

1009 PINE ST

Year	***Uses***	***Source***
1967	RICHARDS BENNIE	R. L. Polk & Co.
1950	FANELLI DOMENICO R	The Pacific Telephone & Telegraph Co.
1945	FANELLI DOMENICO R	The Pacific Telephone & Telegraph Co.
1943	Fanelli Dominic Rose lab h	R. L. Polk & Co.
1938	FANELLI D R	Pacific Telephone
1933	FANELLI DOMENICO (ROSE) LAB H	R. L. Polk & Co.

707 PINE ST

Year	***Uses***	***Source***
2002	WON Sau EKuen	Haines
	WON Sau EKuen	R. L. Polk & Co.
1920	WEST OAKLAND RESTAURANT	R. L. Polk & Co. of California

714 PINE ST

Year	***Uses***	***Source***
1967	VACANT	R. L. Polk & Co.
1933	SHEA MARTIN H	R. L. Polk & Co.

727 PINE ST

Year	***Uses***	***Source***
1967	OAKLAND FIRE DEPT STA	R. L. Polk & Co.
1962	Adams Ernest F	Pacific Telephone

751 PINE ST

Year	***Uses***	***Source***
1967	WIGGINS JOEVA	R. L. Polk & Co.
1950	CRUIKSHANK MANUEL JR R	The Pacific Telephone & Telegraph Co.
1945	CRUIKSHANK MANUEL JR R	The Pacific Telephone & Telegraph Co.

Year	Uses	Source
1943	Cruickshank Manuel jr USA r	R. L. Polk & Co.
	Cruickshank Manuel Lillie barber h	R. L. Polk & Co.
1938	HITE H A R	Pacific Telephone

753 PINE ST

Year	Uses	Source
2002	CASTILLOVr Ior	R. L. Polk & Co.
	CASTILLOVr Ior	Haines
1986	HOLTON AMY	Pacific Bell
	CASTILLO VIE	Pacific Bell

755 PINE ST

Year	Uses	Source
2002	OLVERFFbyd	Haines
	BURCHFIELOBrandon T	Haines
	OLVERFFbyd	R. L. Polk & Co.
	BURCHFIELOBrandon T	R. L. Polk & Co.
1986	ANDERSEN S	Pacific Bell
1967	CHEEK THOS J	R. L. Polk & Co.
1962	Butler Rose Anna	Pacific Telephone
	Butler Matthew	Pacific Telephone
1950	LOVETT MARJORIE R	The Pacific Telephone & Telegraph Co.
1945	WILKERSON HELEN R	The Pacific Telephone & Telegraph Co.
1943	Williams Eug Linner whsmn h	R. L. Polk & Co.
	Mason Leon Mary whsmn r	R. L. Polk & Co.
1933	BRIGGS HAMPTON W (REBECCA G) JAN H	R. L. Polk & Co.

757 PINE ST

Year	Uses	Source
2002	MCCONNELLKaren	R. L. Polk & Co.
	MCCONNELLKaren	Haines
1979	GLOVER J D	Pacific Telephone

759 PINE ST

Year	Uses	Source
2006	a MADDEN Nolden	Haines Company, Inc.
2002	WENGERTJohn	Haines
	WENGERTJohn	R. L. Polk & Co.
1979	CHAKEDIS DENNIS	Pacific Telephone

Year	***Uses***	***Source***
1975	ANGELES FIRE EQUIPMENT CO	Pacific Telephone
1967	MARSHALL ERNEST	R. L. Polk & Co.
1962	Brooks Charlie	Pacific Telephone
1945	RAYFORD MARY R	The Pacific Telephone & Telegraph Co.
1943	THOMAS Jas lab h	R. L. Polk & Co.
1933	SAVAGE GEO R (FAYE) LAB H	R. L. Polk & Co.
	CAMARIS PETER LAB R	R. L. Polk & Co.

761 PINE ST

Year	***Uses***	***Source***
2002	KAHARICKMark	R. L. Polk & Co.
	KAHARICKMark	Haines
1979	BASCOM BARBARA L	Pacific Telephone

763 PINE ST

Year	***Uses***	***Source***
2002	GAJDALee	Haines
	GAJDALee	R. L. Polk & Co.
1986	FRY CHRISTINE D	Pacific Bell
1979	FRY GENE	Pacific Telephone
1967	BUTLER MARSHALLA MRS	R. L. Polk & Co.
1962	Patterson Allie	Pacific Telephone
1943	Bell Austin Fannie pntr h	R. L. Polk & Co.
	Williams Harry Ruth lab r	R. L. Polk & Co.
1920	WALTHOUR D L R	R. L. Polk & Co. of California

765 PINE ST

Year	***Uses***	***Source***
2002	BURDICKtawrence	Haines
	BURDICKtawrence	R. L. Polk & Co.
1979	METZ GEO R	Pacific Telephone

767 PINE ST

Year	***Uses***	***Source***
2006	MISSIONARY BAPT	Haines Company, Inc.
	STLUKES	Haines Company, Inc.
2002	LEISKEJanice	Haines
	LEISKEJanice	R. L. Polk & Co.
2000	ST LUKE S MISSIONARY BAPTIST CHURCH	Pacific Bell

FINDINGS

Year	Uses	Source
1996	ST LUKE S MISSIONARY BAPTIST CHURCH	PACIFIC BELL DIRECTORY
1992	ST LUKE S MISSIONARY BAPTIST CHURCH	PACIFIC BELL DIRECTORY
1991	St Lukes Missionary Baptist Church	PACIFIC BELL WHITE PAGES
1943	Cage Robt P Callie shipydwkr h	R. L. Polk & Co.
	Gaines Elmer lab r	R. L. Polk & Co.
	Gaines Easel lab r	R. L. Polk & Co.
1933	HASKELL WALTER W LAB H	R. L. Polk & Co.

775 PINE ST

Year	Uses	Source
1967	GALATAIN MISSIONARY BAPTIST CHURCH	R. L. Polk & Co.

777 PINE ST

Year	Uses	Source
1967	VACANT	R. L. Polk & Co.

779 PINE ST

Year	Uses	Source
1950	J & M BARBECUE PIT	The Pacific Telephone & Telegraph Co.
	JENKINS JAS R	The Pacific Telephone & Telegraph Co.
1945	COCHRAN ELLA R	The Pacific Telephone & Telegraph Co.
1943	PRYOR Theo Lorene USA r	R. L. Polk & Co.
	Barnes Docia shipydwkr r	R. L. Polk & Co.
	COCHRAN Virgil L Ella lab h	R. L. Polk & Co.
	Cockwell Marvin mech r	R. L. Polk & Co.
	COLBERT Jas lab NSB r	R. L. Polk & Co.
	Hill Maxine Mrs r	R. L. Polk & Co.
	HOWARD Thos lab r	R. L. Polk & Co.
	JONES Benj lab r	R. L. Polk & Co.
1933	LOERA EVARISTO (CATH) PNTR H	R. L. Polk & Co.

780 PINE ST

Year	Uses	Source
2002	DECARLSLEBandy	R. L. Polk & Co.
	DECARLSLEBandy	Haines

793 PINE ST

Year	Uses	Source
2002	NIXON 0 im	Haines
	NIXON 0 im	R. L. Polk & Co.
1986	JAKOWATZ JON	Pacific Bell
1979	CLEVENGER RAYLENE	Pacific Telephone

795 PINE ST

Year	Uses	Source
2002	SWANSONAlbert D	Haines
	SWANSONAlbert D	R. L. Polk & Co.
1986	SWANSON ALBERT D	Pacific Bell
1979	SWANSON ALBERT D	Pacific Telephone

799 PINE ST

Year	Uses	Source
1986	OBERMAN KEVIN	Pacific Bell

800 PINE ST

Year	Uses	Source
2006	STADLERSusanne	Haines Company, Inc.
	CHAPMAN A	Haines Company, Inc.
	BLUMGsry 510 S 28 0874	Haines Company, Inc.
2000	1 WEST OAKLAND HEALTH COUNCIL INC	Pacific Bell
	WEAP	Pacific Bell
1996	1 WEST OAKLAND HEALTH CENTER	PACIFIC BELL DIRECTORY
1992	MONSOUR M	PACIFIC BELL DIRECTORY
	8 STEVENSON TONY	PACIFIC BELL DIRECTORY
	4B FINNERTY JAMES	PACIFIC BELL DIRECTORY
	4C ARMSTRONG TED	PACIFIC BELL DIRECTORY
1950	SALAZAR AGAPITO R	The Pacific Telephone & Telegraph Co.

806 PINE ST

Year	Uses	Source
2002	NAVARRORalph	R. L. Polk & Co.
	NAVARRORalph	Haines

808 PINE ST

Year	Uses	Source
1967	ANDERSON MILDRED	R. L. Polk & Co.

FINDINGS

812 PINE ST

Year	Uses	Source
2002	BENNETTRobert	R. L. Polk & Co.
	BENNETTRobert	Haines
1967	VACANT	R. L. Polk & Co.
1945	DULMLERI JOHN R	The Pacific Telephone & Telegraph Co.
1933	ROBINSON MOLLIE R	R. L. Polk & Co.
	LISSE NICH COOK H	R. L. Polk & Co.

815 PINE ST

Year	Uses	Source
1992	BISCHOFF CINDER & JEFFERY	PACIFIC BELL DIRECTORY
	DORN CHRISTIAN	PACIFIC BELL DIRECTORY
	ABRAMS PETR	PACIFIC BELL DIRECTORY
	BAY AREA ROCK MAGAZINE	PACIFIC BELL DIRECTORY

816 PINE ST

Year	Uses	Source
2006	a LUCKETTFredic	Haines Company, Inc.
1967	AMOS MINNIE	R. L. Polk & Co.
1945	SPIKULA JOHN R	The Pacific Telephone & Telegraph Co.
1943	Spikula John Florence driver h	R. L. Polk & Co.
1933	CHESMIRE FRANK (MILLIE) LAB H	R. L. Polk & Co.

818 PINE ST

Year	Uses	Source
2006	Chrltopher	Haines Company, Inc.
	MURDOCH	Haines Company, Inc.
2002	WOOTENWil Irm T	Haines
	WOOTENWil Irm T	R. L. Polk & Co.
1986	JOHNSON L T	Pacific Bell
1979	JOHNSON L T	Pacific Telephone
1967	EVANS AZALEF MRS	R. L. Polk & Co.
1943	Cherry Roosevelt Hester lab h	R. L. Polk & Co.

821 PINE ST

Year	Uses	Source
1992	PHOENIX IRON WORKS	PACIFIC BELL DIRECTORY
	CYPRESS USED AUTO PARTS	PACIFIC BELL DIRECTORY

FINDINGS

Year	*Uses*	*Source*
1992	CYPRESS SALVAGE	PACIFIC BELL DIRECTORY
1967	VINNELL STEFL STEEL FABRICATORS	R. L. Polk & Co.
1945	INDEPENDENT IRON WORKS LTD	The Pacific Telephone & Telegraph Co.
1943	Independent Iron Works Henry Gede jr W G Meagher	R. L. Polk & Co.
1938	INDEPENDENT IRON WORKS LTD	Pacific Telephone
1920	DYE FANNIE NURSE	R. L. Polk & Co. of California

822 PINE ST

Year	*Uses*	*Source*
1967	LINZIE ROOSEVELT	R. L. Polk & Co.
1962	Linzie Estoria Lee	Pacific Telephone
	Linzie Roosevelt	Pacific Telephone
1945	LINZIE ALICE R	The Pacific Telephone & Telegraph Co.
1933	FORD LAVALLE PORTER R	R. L. Polk & Co.
	FORD OMAY MRS H	R. L. Polk & Co.

824 PINE ST

Year	*Uses*	*Source*
2002	OIXONJay	Haines
	OIXONJay	R. L. Polk & Co.
1979	POLLARD DEBRA	Pacific Telephone
	POLLARD WANDA J	Pacific Telephone

826 PINE ST

Year	*Uses*	*Source*
1992	SANDERS ROBIN	PACIFIC BELL DIRECTORY
1975	CHEATHAM CLYTIE	Pacific Telephone
1967	CHEATHAM CLYTIE	R. L. Polk & Co.
	JACKSON K P	R. L. Polk & Co.
1962	Cheatham Clytie	Pacific Telephone
1950	PONCE ANTONIO R	The Pacific Telephone & Telegraph Co.
1943	Spikula Nick Ann h	R. L. Polk & Co.
	Franco Magdelino Alta cementwkr r	R. L. Polk & Co.
1933	SPIKULA NICHOLAS (ANNIE) RESTR	R. L. Polk & Co.

FINDINGS

830 PINE ST

Year	Uses	Source
2006	WILLIAMS Sammen	Haines Company, Inc.
2002	LEE Patricia	Haines
	LEE Patricia	R. L. Polk & Co.
1986	SULLIVAN PAT	Pacific Bell
1979	WOODS CHAS L	Pacific Telephone
1967	SPEARS NICOLAS	R. L. Polk & Co.
1962	Gomez Frank r	Pacific Telephone
	Spikula Nick Jr r	Pacific Telephone
1950	SPIKULA NICK JR R	The Pacific Telephone & Telegraph Co.
1943	Spikula Nick jr Mary driver h	R. L. Polk & Co.
1933	PRICUT GEO LAB R	R. L. Polk & Co.
	PALANTA MATILDA (WID JOHN) H	R. L. Polk & Co.

834 PINE ST

Year	Uses	Source
1967	WILLIAMS SAMMIE	R. L. Polk & Co.
1962	Williams Sammie	Pacific Telephone
1945	DEVEREAUX HORACE R	The Pacific Telephone & Telegraph Co.
1943	Saavedra Engelina r	R. L. Polk & Co.
	Saavedra Dolores cnrywkr r	R. L. Polk & Co.
	Saavedra Manuel Eulalia h	R. L. Polk & Co.
	Saavedra Manuel jr lab r	R. L. Polk & Co.
	Saavedra Rita clk r	R. L. Polk & Co.

835 PINE ST

Year	Uses	Source
1986	MILLER J IVAN & BRONWYN	Pacific Bell
1979	MILLER J IVAN & BRONWYN	Pacific Telephone
1965	ROCKWELL E J	Pacific Telephone

836 PINE ST

Year	Uses	Source
2002	TAYLOR Norman	Haines
	TAYLOR Norman	R. L. Polk & Co.
2000	SPIKULA JOHN	Pacific Bell
1996	SPIKULA JOHN	PACIFIC BELL DIRECTORY
1992	SPIKULA JOHN	PACIFIC BELL DIRECTORY

FINDINGS

Year	***Uses***	***Source***
1986	TAYLOR NORMAN J JR	Pacific Bell
1979	TAYLOR NORMAN J JR	Pacific Telephone
1965	HUFFMAN R E	Pacific Telephone
	HUFFMAN BETTY A	Pacific Telephone

837 PINE ST

Year	***Uses***	***Source***
1933	LEIMA MANUEL F LAB R	R. L. Polk & Co.
	LIMA ALFD LAB R	R. L. Polk & Co.
	LIMA LOUIS FIREMN R	R. L. Polk & Co.
	LIMA MANUEL F (ISABELLE) MLDR H	R. L. Polk & Co.
	LEMAR JOS LAB R	R. L. Polk & Co.
	LIMA JOS LAB R	R. L. Polk & Co.
	LIMA HENRY IRONWKR R	R. L. Polk & Co.

838 PINE ST

Year	***Uses***	***Source***
1933	WARNER LEE C ELECTN H	R. L. Polk & Co.

841 PINE ST

Year	***Uses***	***Source***
2006	HATCHER Jas S	Haines Company, Inc.

842 PINE ST

Year	***Uses***	***Source***
2002	COLLOMBrent	R. L. Polk & Co.
	COLLOMBrent	Haines
1979	VAN HOOK J H	Pacific Telephone
1967	GILBFRT EMORY	R. L. Polk & Co.
1965	GRAY CARSON	Pacific Telephone
1943	Cherry Knorvel Lucy lab h	R. L. Polk & Co.

844 PINE ST

Year	***Uses***	***Source***
2006	a BRODERSON Robert	Haines Company, Inc.
1975	LANDRY OZELL	Pacific Telephone
1967	LANDPY OZELL MRS	R. L. Polk & Co.
1962	Landry Ozell r	Pacific Telephone
1950	LANDRY OZELL R	The Pacific Telephone & Telegraph Co.

Year	***Uses***	***Source***
1943	GRAYSON Clarence Willie M lab h	R. L. Polk & Co.

846 PINE ST

Year	***Uses***	***Source***
1943	Hills Mary Mrs h	R. L. Polk & Co.
1933	BIKICH STEPH LAB H	R. L. Polk & Co.
	BARICH SPIRO LAB R	R. L. Polk & Co.

848 PINE ST

Year	***Uses***	***Source***
2002	DULISSEJane	Haines
	DULISSENck	R. L. Polk & Co.
	DULISSEM	R. L. Polk & Co.
	DULISSEJane	R. L. Polk & Co.
	DULISSEM	Haines
	DULISSENck	Haines
1979	ZILLER BERNARD L	Pacific Telephone
1965	HOLCOMB EARL W	Pacific Telephone
1950	OWENS MARY R	The Pacific Telephone & Telegraph Co.
1943	Garcia Dolores Mrs h	R. L. Polk & Co.
1933	FERNANDEZ JOS SIGN PNTR H	R. L. Polk & Co.

850 PINE ST

Year	***Uses***	***Source***
2006	o BRAYGe i	Haines Company, Inc.
	RAMSEYJanice	Haines Company, Inc.
1967	ANDERSON ELEANOR MRS	R. L. Polk & Co.
1950	HOWARD IRELENE J R	The Pacific Telephone & Telegraph Co.

852 PINE ST

Year	***Uses***	***Source***
2000	JOHNSON BETTY J	Pacific Bell
1996	JONES GENNER	PACIFIC BELL DIRECTORY
1992	JONES GENNER	PACIFIC BELL DIRECTORY
1975	JONES GEUNNR	Pacific Telephone
1967	JONES GENNER	R. L. Polk & Co.
1950	MASTRANGELO JOE R	The Pacific Telephone & Telegraph Co.

Year	*Uses*	*Source*
1945	MASTRANGELO JOE R	The Pacific Telephone & Telegraph Co.
1943	Bianchini Angie Mrs fctywkr r	R. L. Polk & Co.
	Bianchini Jerry r	R. L. Polk & Co.
	Mastrangelo Rose Mrs h	R. L. Polk & Co.
1933	MASTRENGELO ANGELO (ROSE) BRKLYR H	R. L. Polk & Co.

854 PINE ST

Year	*Uses*	*Source*
2002	WIDMAYEROa Cd	R. L. Polk & Co.
	WIDMAYEROa Cd	Haines
1979	GRAHAM JOHN W	Pacific Telephone
1967	RHODES JESSIE	R. L. Polk & Co.
1962	Therman Romona	Pacific Telephone
	Therman Roscoe	Pacific Telephone
1950	MIADINICH JOHN R	The Pacific Telephone & Telegraph Co.
1945	MLADINICH JOHN R	The Pacific Telephone & Telegraph Co.
1943	Miadinich Mate Dina h	R. L. Polk & Co.
	Miadinich Ruby pkr r	R. L. Polk & Co.
1933	MLADINICH MICHL (DIANA) LAB H	R. L. Polk & Co.
	MLADINICH JOHN MACH R	R. L. Polk & Co.

858 PINE ST

Map ID: 2

Year	*Uses*	*Source*
1967	SMITH THREATHER MRS	R. L. Polk & Co.
	SMITH THREATHER MRS	R. L. Polk & Co.
1955	HENDERSON HENRY R	The Pacific Telephone & Telegraph Co.
1950	HENDERSON HENRY R	The Pacific Telephone & Telegraph Co.
	JOIINSON ESTHER R	The Pacific Telephone & Telegraph Co.
	HENDERSON HENRY R	The Pacific Telephone & Telegraph Co.
	JOIINSON ESTHER R	The Pacific Telephone & Telegraph Co.
1945	HENDERSON HENRY R	The Pacific Telephone & Telegraph Co.
	HENDERSON HENRY R	The Pacific Telephone & Telegraph Co.

FINDINGS

Year	Uses	Source
1943	Catalan Desimerio lab SPCo h	R. L. Polk & Co.
	Catalan Desimerio lab SPCo h	R. L. Polk & Co.
1933	CATLAN DESIDERIO H	R. L. Polk & Co.
	CATALAN MADEINE LNDYWKR R	R. L. Polk & Co.
	CATALAN MADEINE LNDYWKR R	R. L. Polk & Co.
	CATLAN DESIDERIO H	R. L. Polk & Co.
1928	Catalau Desiderio lab H	R.L. Polk and Co of California
1920	CHAMPREUX A A R	R. L. Polk & Co. of California
	CHAMPREUX A A R	R. L. Polk & Co. of California

859 PINE ST

Year	Uses	Source
2002	XXXX	R. L. Polk & Co.
	XXXX	Haines

860 PINE ST

Year	Uses	Source
2002	BETTENCOURTEdw O	Haines
	BETTENCOURTEdw O	R. L. Polk & Co.
1986	BETTENCOURT EDW D	Pacific Bell
1979	BETTENCOURT EDW D	Pacific Telephone
1965	BETTENCOURT EDW D	Pacific Telephone

862 PINE ST

Year	Uses	Source
1967	JONES EUG V	R. L. Polk & Co.
1962	Jones Vernon	Pacific Telephone
	Jones Cortez	Pacific Telephone
	Jones Eugene V	Pacific Telephone
1943	Benitez Raymond Marina lab h	R. L. Polk & Co.
	Malone Lee R Lowell electn hlpr SPCo r	R. L. Polk & Co.
1933	CELADO DELFINO (PAULINE) GDNR H	R. L. Polk & Co.

863 PINE ST

Year	Uses	Source
1933	LANIER EFFIE MRS H	R. L. Polk & Co.

865 PINE ST

Year	Uses	Source
1933	SCOTT WM A (BOBBIE) H	R. L. Polk & Co.

FINDINGS

866 PINE ST

Year	*Uses*	*Source*
2006	&WHITTINGHILLJohn	Haines Company, Inc.
	VIGIL Daniel	Haines Company, Inc.
2002	PHAN Joseph	R. L. Polk & Co.
	PHAN Joseph	Haines
1992	2 NELSON JOSEPH	PACIFIC BELL DIRECTORY
1979	BULL JASON A	Pacific Telephone
1967	PEGG VELM	R. L. Polk & Co.
1962	Pegg Velma r	Pacific Telephone
1950	PEGS VELMA R	The Pacific Telephone & Telegraph Co.
1945	LITTLE WONDER BEAUTY SALON	The Pacific Telephone & Telegraph Co.
1943	Dimery Sidney r	R. L. Polk & Co.
	Hodges Fayette Mrs beauty shop	R. L. Polk & Co.
1938	HODGES A W MRS R	Pacific Telephone
1933	HOGUES FAYETTE MRS H	R. L. Polk & Co.

870 PINE ST

Year	*Uses*	*Source*
2006	a BROWN Sonya	Haines Company, Inc.
1967	NEELY SAMMIE	R. L. Polk & Co.
1950	MARTIN ALICE R	The Pacific Telephone & Telegraph Co.
1945	MARTIN R L R	The Pacific Telephone & Telegraph Co.
1943	DAVIS Robt whsmn r	R. L. Polk & Co.
	MARTIN Robt L Alice shipydwkr h	R. L. Polk & Co.
	Norman Vernon Flossie M clo clnr r	R. L. Polk & Co.
	SMITH Oscar shipydwkr r	R. L. Polk & Co.
	WHITE Robt T carp r	R. L. Polk & Co.
1933	NANNINI MANUEL D CLK R	R. L. Polk & Co.
	NANNINI GINO (LENA) LAB H	R. L. Polk & Co.
1920	JENSEN JACOB R	R. L. Polk & Co. of California

872 PINE ST

Year	*Uses*	*Source*
2002	MOATSPrice	Haines
	MOATSPrice	R. L. Polk & Co.
1965	ALEXANDER JAS C	Pacific Telephone

FINDINGS

874 PINE ST

Year	***Uses***	***Source***
2006	al LEDBETTER Carolyn	Haines Company, Inc.
1967	WHITE R L S	R. L. Polk & Co.
1943	Roberts David firemn r	R. L. Polk & Co.
	Dearing Kate wid Jos h	R. L. Polk & Co.

875 PINE ST

Year	***Uses***	***Source***
1975	CHEMSOURCE CORP	Pacific Telephone

878 PINE ST

Year	***Uses***	***Source***
2002	OANJOUEEAnousheh	R. L. Polk & Co.
	SIROTA Jef	Haines
	OANJOUEEAnousheh	Haines
	CURTt SJohn	Haines
	SIROTA Jef	R. L. Polk & Co.
	CURTt SJohn	R. L. Polk & Co.
1979	GREENLEE RALPH W	Pacific Telephone
1967	BELL MONROE C	R. L. Polk & Co.
1965	GAINOUS JACUMBAK T	Pacific Telephone
1962	Coleman Lindsey	Pacific Telephone
	Coleman Martha	Pacific Telephone
1950	LEWIS LILLIAN R	The Pacific Telephone & Telegraph Co.
	LEE EDW R	The Pacific Telephone & Telegraph Co.
1943	Martellacci Victor Rose clk SPCo h	R. L. Polk & Co.
1933	MARTELLACCI VITTORIO (ROSE) MSNGR H	R. L. Polk & Co.

880 PINE ST

Year	***Uses***	***Source***
1967	MARTINEZ ROST	R. L. Polk & Co.

882 PINE ST

Year	***Uses***	***Source***
2006	CENICEROS Dolores	Haines Company, Inc.
	MARTINEZ Stella	Haines Company, Inc.
1975	MARTINEZ MAX J	Pacific Telephone
1967	MARTINEZ MAX J	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1962	Martinez Nemy	Pacific Telephone
	Martinez Max J	Pacific Telephone
1950	BOURGES JOS R	The Pacific Telephone & Telegraph Co.
1945	ROSA JOSEPHINE R	The Pacific Telephone & Telegraph Co.
1943	Borges Jos barber r	R. L. Polk & Co.
	Borgers Jas Mary barber h	R. L. Polk & Co.
1933	BORGES JOS (MARY E) BARBER	R. L. Polk & Co.

883 PINE ST

Year	Uses	Source
1933	KAYO WM (VICTORIA) YDMN SPCO H	R. L. Polk & Co.

884 PINE ST

Year	Uses	Source
1979	CATAPIA SACARIAS	Pacific Telephone
1965	PUTT PHYLLIS D	Pacific Telephone
	PUTT ROBT D	Pacific Telephone

886 PINE ST

Year	Uses	Source
2006	MARTINEZJavler	Haines Company, Inc.
1992	B REYNOLDS CHARLIE J RED	PACIFIC BELL DIRECTORY
1975	MARTIN GERTRUDE	Pacific Telephone
1967	MARTIN GERTRUDE	R. L. Polk & Co.
1943	MARTIN Gertrude h	R. L. Polk & Co.
	MARTIN Peter mach r	R. L. Polk & Co.
	MARTIN Jos C shipydwkr r	R. L. Polk & Co.
1933	MARTIN PETER M MACH R	R. L. Polk & Co.
	MARTIN JOS C FIREMN H	R. L. Polk & Co.
	MARTIN GERTRUDE R FCTYWKR R	R. L. Polk & Co.

903 PINE ST

Year	Uses	Source
2006	PUKATCH RPchnrd	Haines Company, Inc.
	JACKSON M	Haines Company, Inc.
1975	EDFWARDS HARFI	Pacific Telephone
1967	EDWARDS HARVIE	R. L. Polk & Co.
1962	Edwards Harvie	Pacific Telephone

Year	Uses	Source
1950	CRAIG EDNA F R	The Pacific Telephone & Telegraph Co.
1945	CUADRO E MISS R	The Pacific Telephone & Telegraph Co.
1943	Craig Clare R Edna clk h	R. L. Polk & Co.
1938	CUADRO E MISS R	Pacific Telephone
1933	CUADRO FELIX (MARGT) CHAUF H	R. L. Polk & Co.
1920	MUHOBERAC JOHN M R	R. L. Polk & Co. of California

905 PINE ST

Year	Uses	Source
1962	Wright Mary	Pacific Telephone
1945	SILVA LUCILLE L MRS R	The Pacific Telephone & Telegraph Co.
1943	SILVA Lawrence E Lucille barber h	R. L. Polk & Co.

907 PINE ST

Year	Uses	Source
2006	PUKATCH Richand	Haines Company, Inc.
	PACAS Jose A	Haines Company, Inc.
1975	KELLUM ANGELINE	Pacific Telephone
1967	SILVA J D MRS	R. L. Polk & Co.
1962	Silva Jennie D Mrs	Pacific Telephone
1943	Silva Frank D Jennie D barber h	R. L. Polk & Co.
1933	VARGAS FRANK D (MARIE) 2D HD CLO	R. L. Polk & Co.
	SILVA LAWRENCE E BARBER R	R. L. Polk & Co.
	SILVA FRANK D (JENNIE) BARBER	R. L. Polk & Co.

911 PINE ST

Year	Uses	Source
2006	GABRIELAnn	Haines Company, Inc.
1967	GABRIEL ANN MRS	R. L. Polk & Co.
1962	Battle Ernest R	Pacific Telephone
1950	HUNTER MARGIE R	The Pacific Telephone & Telegraph Co.
	EVANS ANN R	The Pacific Telephone & Telegraph Co.
1945	ROBINSON ROOSEVELT R	The Pacific Telephone & Telegraph Co.
1943	Bertovich Vincent lab r	R. L. Polk & Co.
	Bertovich Lucy r	R. L. Polk & Co.
	Bertovich John Madeline lab h	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1943	Bertovich Jennie r	R. L. Polk & Co.
1938	BUTOROVICH JOHN R	Pacific Telephone
1933	BUTOROVICH JOHN (MADELINE) STEVEDORE H	R. L. Polk & Co.

917 PINE ST

Year	Uses	Source
2006	SMITH Jam Ie	Haines Company, Inc.
	TRIGGS Donna	Haines Company, Inc.
1967	CORNELIUS WILMER U	R. L. Polk & Co.
1950	PRINGLE RUTH R	The Pacific Telephone & Telegraph Co.
1943	Estrada Jas Anita paper baler h	R. L. Polk & Co.
1938	COOPER ODESSA R	Pacific Telephone
1933	DEL CESSANDORO CHERUBINO LAB H	R. L. Polk & Co.

921 PINE ST

Year	Uses	Source
2006	O JACK Marcel	Haines Company, Inc.
1967	SILVA JOE	R. L. Polk & Co.
1962	Silva Gerald	Pacific Telephone
1943	SILVA Joe Angie lab h	R. L. Polk & Co.
1933	SILVA JOS (ANGELINA) LAB H	R. L. Polk & Co.
	MENDONCA JOS LAB R	R. L. Polk & Co.

924 PINE ST

Year	Uses	Source
2006	a MOSLEY Maya	Haines Company, Inc.
1967	MENDOZA AL	R. L. Polk & Co.
1962	Mendoza Alfred r	Pacific Telephone
1950	MENDOZA ALFRED R	The Pacific Telephone & Telegraph Co.
1943	Mendoza Alf M Gladys V cementwkr h	R. L. Polk & Co.
1933	MENDOZA ALFD M (GLADYS V) LAB H	R. L. Polk & Co.
	O CONNELL JERRY R	R. L. Polk & Co.

927 PINE ST

Year	Uses	Source
2006	AMEEN Kall	Haines Company, Inc.
1967	NIBLETT LEDORA MRS	R. L. Polk & Co.
1962	Lopez Joe	Pacific Telephone

FINDINGS

Year	Uses	Source
1962	Jimenez Josephine	Pacific Telephone
1943	Boatwright Jas Lillie h	R. L. Polk & Co.
	COOPER Saml r	R. L. Polk & Co.
1933	SMITH LUCILLE MRS H	R. L. Polk & Co.

929 PINE ST

Year	Uses	Source
2006	o CROSS Alff	Haines Company, Inc.
1967	CASTLEMAN W ARTH	R. L. Polk & Co.
1962	Castleman W A	Pacific Telephone
1950	CASTLEMAN WM A R	The Pacific Telephone & Telegraph Co.
1943	SMITH Benj bldr r	R. L. Polk & Co.
	HAYES Thos shipydwkr r	R. L. Polk & Co.
	CONLON Francis shipydwkr r	R. L. Polk & Co.
	Reed Herbt H Mary brkmn SPCo h	R. L. Polk & Co.
1933	CONLON FRANK (CATH) LAB H	R. L. Polk & Co.

930 PINE ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	RADOMSKY SALVAGE CO	Pacific Bell
1996	RADOMSKY SALVAGE CO	PACIFIC BELL DIRECTORY
1992	RADOMSKY SALVAGE CO	PACIFIC BELL DIRECTORY
1967	RADOMSKY SALVAGE SCRAP MTLS	R. L. Polk & Co.

933 PINE ST

Year	Uses	Source
1967	VACANT	R. L. Polk & Co.
1950	OSIHITS CLAUDINE R	The Pacific Telephone & Telegraph Co.
1945	OSIBIN CLAUDINE R	The Pacific Telephone & Telegraph Co.
1943	Osibin Wilmer USA r	R. L. Polk & Co.
	Osibin Walter mach h	R. L. Polk & Co.
	Osibin Robt r	R. L. Polk & Co.
	Osibin Percy lab r	R. L. Polk & Co.
	Osibin Claudine wid Walter r	R. L. Polk & Co.
1938	OSIBIN CLAUDINE R	Pacific Telephone

FINDINGS

937 PINE ST

Year	***Uses***	***Source***
1967	HOFFMAN JOHN L	R. L. Polk & Co.
	HOFFMAN JOHN L	R. L. Polk & Co.
1962	Lucich Steve r	Pacific Telephone
	Lucich Steve r	Pacific Telephone
1955	LUCICH STEVE R	The Pacific Telephone & Telegraph Co.
1945	LUCICH HELEN R	The Pacific Telephone & Telegraph Co.
	LUCICH HELEN R	The Pacific Telephone & Telegraph Co.
1943	Lucich Steph Bona lab h	R. L. Polk & Co.
	Lucich Helen manicurist r	R. L. Polk & Co.
	Lucich Helen manicurist r	R. L. Polk & Co.
	Lucich Steph Bona lab h	R. L. Polk & Co.
1938	LUCICH HELEN R	Pacific Telephone
	LUCICH HELEN R	Pacific Telephone
1928	Lucich Anthony R	R.L. Polk and Co of California
	Lucich Lena R	R.L. Polk and Co of California
	Lucich Steve formn PG&ECo H	R.L. Polk and Co of California
	Lucich Vivian R	R.L. Polk and Co of California

941 PINE ST

Map ID: 35

Year	***Uses***	***Source***
2000	HATCHER JAS S	Pacific Bell
1996	HATCHER JAS S	PACIFIC BELL DIRECTORY
1992	HATCHER JAS S	PACIFIC BELL DIRECTORY
1991	Hatcher Jas S	PACIFIC BELL WHITE PAGES
	Hatcher Jeff	PACIFIC BELL WHITE PAGES
	Hatcher L	PACIFIC BELL WHITE PAGES
1986	Hatcher Jas S	PACIFIC BELL WHITE PAGES
1980	Hatcher Ester	Pacific Telephone
	Edwards Richard G	Pacific Telephone
1975	HATCHER ESTER	Pacific Telephone
1970	HATCHER ESTER	Pacific Telephone Directory
1967	HATCHER ESTHER M MRS 9 451 R	R. L. Polk & Co.
1962	Bairfield Roy Lee	Pacific Telephone
	O K Cleaners	Pacific Telephone
1955	O K CLEANERS	The Pacific Telephone & Telegraph Co.

FINDINGS

Year	*Uses*	*Source*
1945	ONEAL OBRAY R	The Pacific Telephone & Telegraph Co.
1943	JOHNSON Le Roy lab r	R. L. Polk & Co.
	Desvigens Walter lab r	R. L. Polk & Co.
	Eubanks Jack lab r	R. L. Polk & Co.
	Nichols Lawrence B Grace rigger h	R. L. Polk & Co.
	Burney Kathleen maid r	R. L. Polk & Co.
	Eubanks Thos lab r	R. L. Polk & Co.
	READER Bobbie clk r	R. L. Polk & Co.
1933	DIAZ MICHL (LORETTA) PNTR SPCO H	R. L. Polk & Co.
	TORRES LOUIS (SARAH) LAB H	R. L. Polk & Co.
1920	WILLIAMS MRS ALMA R	R. L. Polk & Co. of California

942 PINE ST

Year	*Uses*	*Source*
1967	JACKSON HALLARD	R. L. Polk & Co.
1962	Jackson Hallard	Pacific Telephone
1950	BOWIE WM M R	The Pacific Telephone & Telegraph Co.
1943	Reno Jack Angelina bldr h	R. L. Polk & Co.
	Del Sarto Maurizio lab r	R. L. Polk & Co.
1933	JONES JAS LAB R	R. L. Polk & Co.
	JONES FRANCES MRS H	R. L. Polk & Co.
1920	DALY MRS FRANCES R	R. L. Polk & Co. of California

S 8TH ST

1768 S 8TH ST

Year	*Uses*	*Source*
1928	SILVA Augustino barbe R	R.L. Polk and Co of California
	H	R.L. Polk and Co of California

SHOREY ST

1800 SHOREY ST

Year	*Uses*	*Source*
1986	Light Rip	PACIFIC BELL WHITE PAGES
	Light Rail Plastic Manufacturing Co	PACIFIC BELL WHITE PAGES
	Light Ronald M	PACIFIC BELL WHITE PAGES

FINDINGS

1807 SHOREY ST

Year	Uses	Source
1967	EDOS AUTOMOTIVE GARAGE	R. L. Polk & Co.

1811 SHOREY ST

Year	Uses	Source
1933	BROWN VAUGHN G R	R. L. Polk & Co.
	AUBERT ALEX S PDLR H	R. L. Polk & Co.
1925	HALL M R	R. L. Polk & Co. of California

1813 SHOREY ST

Year	Uses	Source
1980	Allen Jessie	Pacific Telephone
1975	ALLEN JESSIE	Pacific Telephone
1970	ALLEN JESSIE	Pacific Telephone Directory
1967	ALLEN JESSE J	R. L. Polk & Co.
1962	Allen Jessie r	Pacific Telephone
1955	ALLEN JESSIE R	The Pacific Telephone & Telegraph Co.
1950	ALLEN JESSIE R	The Pacific Telephone & Telegraph Co.
1945	ARMSTRONG B L R	The Pacific Telephone & Telegraph Co.
1943	Armstrong Burton L h	R. L. Polk & Co.
1938	VOJVADA NICK R	Pacific Telephone
1933	VOJVODA KATE (WID ANTONE) H	R. L. Polk & Co.
	ARMSTRONG BURTON L (KATH) ENGMN SPCO H	R. L. Polk & Co.
	VOJVODA NICHOLAS A CLK R	R. L. Polk & Co.
1928	H	R.L. Polk and Co of California
	Vojvoda Antonio Kath rest R	R.L. Polk and Co of California

1815 SHOREY ST

Year	Uses	Source
1986	Barber Joe	PACIFIC BELL WHITE PAGES
1967	BARBER JOSEPH S	R. L. Polk & Co.
1962	Barber Carrie	Pacific Telephone
	Barber Joe	Pacific Telephone
1950	MOORE MERRELL R	The Pacific Telephone & Telegraph Co.
1943	ELLIS John E lab h	R. L. Polk & Co.
1925	BATIES SOLMON R	R. L. Polk & Co. of California

FINDINGS

1817 SHOREY ST

Year	Uses	Source
1992	THOMAS L M	PACIFIC BELL DIRECTORY
1991	Thomas L R	PACIFIC BELL WHITE PAGES
	Thomas LM	PACIFIC BELL WHITE PAGES
1986	Thomas L Mr & Mrs	PACIFIC BELL WHITE PAGES
	Thomas L M	PACIFIC BELL WHITE PAGES
1980	Thomas L M	Pacific Telephone
1970	THOMAS L M	Pacific Telephone Directory
1967	MARBLES DORIS L MRS	R. L. Polk & Co.
1962	Hayes Sylvia M	Pacific Telephone
1955	MAY LILLIE B R	The Pacific Telephone & Telegraph Co.
1950	MAY LILLIE B R	The Pacific Telephone & Telegraph Co.
1943	Ursich Frank Jennie shipydwkr h	R. L. Polk & Co.
	Shanks Rudolph USA r	R. L. Polk & Co.
1933	ZIMBAL ERNEST H	R. L. Polk & Co.

1818 SHOREY ST

Year	Uses	Source
1992	STOLTZ METALS	PACIFIC BELL DIRECTORY
	BONDI MICHAEL METAL DESIGN	PACIFIC BELL DIRECTORY
1991	Stoltz Metals	PACIFIC BELL WHITE PAGES
	Bondi Michael Metal Design	PACIFIC BELL WHITE PAGES
1986	Stoltz Metals	PACIFIC BELL WHITE PAGES
	BON DI ME TALS	PACIFIC BELL WHITE PAGES

1823 SHOREY ST

Year	Uses	Source
1991	LB & A Auto Wrecking Yard	PACIFIC BELL WHITE PAGES
	B&A S AFE TY & HE ALTH CON S ULTAN TS	PACIFIC BELL WHITE PAGES
1986	B & A Auto Wrecking Yard	PACIFIC BELL WHITE PAGES
1980	B & A Auto Wrecking Yard	Pacific Telephone
1975	B & A AUTO WRECKING YARD	Pacific Telephone
1943	Ross Peter lab h	R. L. Polk & Co.
1933	ROSS PETER LAB H	R. L. Polk & Co.

FINDINGS

1824 SHOREY ST

Year	***Uses***	***Source***
1933	MILLENAN WM H SOAP MFR	R. L. Polk & Co.
1925	MILLEMAN W H R	R. L. Polk & Co. of California

1825 SHOREY ST

Year	***Uses***	***Source***
1992	PETRIN JOSH	PACIFIC BELL DIRECTORY
1967	SWANSON ANTHONY L	R. L. Polk & Co.
1943	Swanson Anthony shipydwkr r	R. L. Polk & Co.
	Swanson Chas constwkr r	R. L. Polk & Co.
	Swanson Martha wid C S h	R. L. Polk & Co.
	Swanson Ida O r	R. L. Polk & Co.
1933	SWANSON CARL O (MARTHA) SEAMN H	R. L. Polk & Co.

W 9TH ST

1832 W 9TH ST

Year	***Uses***	***Source***
1945	SPEARS WELLS MACHINERY CO INC	The Pacific Telephone & Telegraph Co.
	MICHIGAN POWER SHOVEL CO	The Pacific Telephone & Telegraph Co.
1938	OSGOOD CO GAS SHOVELS	Pacific Telephone
	SPEARS WELLS MCHY CO	Pacific Telephone
	GENERAL EXCAVATOR CO	Pacific Telephone
	MICHIGAN POWER SHOVEL CO	Pacific Telephone
1933	SPEARS WELLS MACHINERY CO INC W H B FOWLER PRES WARD WELLS V-PRES I M WELLS	R. L. Polk & Co.

WOOD

813 WOOD

Year	***Uses***	***Source***
1980	Jones Phellix	Pacific Telephone

817 WOOD

Year	***Uses***	***Source***
1986	Brown Elaine	PACIFIC BELL WHITE PAGES
1980	Brown Elaine	Pacific Telephone

FINDINGS

820 WOOD

Year	Uses	Source
1986	Matteo M	PACIFIC BELL WHITE PAGES
	Matteo L E	PACIFIC BELL WHITE PAGES
	Matteck Belle	PACIFIC BELL WHITE PAGES
	Matte Paul Otto	PACIFIC BELL WHITE PAGES
1980	Matte Paul Otto	Pacific Telephone

823 WOOD

Year	Uses	Source
1991	Brown Zippy	PACIFIC BELL WHITE PAGES
	Brown Zellena	PACIFIC BELL WHITE PAGES
	Brown John Zellena	PACIFIC BELL WHITE PAGES
1986	Brown Zippy	PACIFIC BELL WHITE PAGES
	Brown Zelena	PACIFIC BELL WHITE PAGES
	Brown Johnnie	PACIFIC BELL WHITE PAGES
	Brown John Zellena	PACIFIC BELL WHITE PAGES
1980	Brown John Zellena	Pacific Telephone
	Godfrey Bobby	Pacific Telephone

828 WOOD

Year	Uses	Source
1980	Jackson Hester	Pacific Telephone

829 WOOD

Year	Uses	Source
1986	Watson Rufus Jr	PACIFIC BELL WHITE PAGES
1980	Watson Rufus Jr	Pacific Telephone

831 WOOD

Year	Uses	Source
1991	Lewis Booker T Rev	PACIFIC BELL WHITE PAGES
1986	Lewis Booker T Rev	PACIFIC BELL WHITE PAGES
1980	Lewis Booker T Rev	Pacific Telephone

832 WOOD

Year	Uses	Source
1980	Bryant Jimmie	Pacific Telephone

FINDINGS

839 WOOD

Year	*Uses*	*Source*
1986	Navarro Armando	PACIFIC BELL WHITE PAGES
1980	Navarro Armando	Pacific Telephone

855 WOOD

Year	*Uses*	*Source*
1991	I Hill Hayward R	PACIFIC BELL WHITE PAGES
	Hill Versa	PACIFIC BELL WHITE PAGES
	Hill Vickie	PACIFIC BELL WHITE PAGES
1986	Hill Hayward R	PACIFIC BELL WHITE PAGES
	Hill Versa	PACIFIC BELL WHITE PAGES
1980	Hill Hayward R	Pacific Telephone
	Hill Versa	Pacific Telephone

859 WOOD

Year	*Uses*	*Source*
1986	Brown V H	PACIFIC BELL WHITE PAGES
1980	Huckaby Chas	Pacific Telephone

868 WOOD

Year	*Uses*	*Source*
1980	Saechao Chiem Yoon	Pacific Telephone

872 WOOD

Year	*Uses*	*Source*
1980	Light House Church Of God In Christ	Pacific Telephone

873 WOOD

Year	*Uses*	*Source*
1980	Jackson Lucille	Pacific Telephone

875 WOOD

Year	*Uses*	*Source*
1980	Harris Leora	Pacific Telephone

WOOD CT

855 WOOD CT

Year	*Uses*	*Source*
1975	HILL GA A	Pacific Telephone

872 WOOD CT

Year	Uses	Source
1975	LASENBY MACK REV GALILEE CHURCH OF GOD IN CHRIST	Pacific Telephone

WOOD ST

808 WOOD ST

Year	Uses	Source
1967	VACANT	R. L. Polk & Co.

809 WOOD ST

Year	Uses	Source
2006	RAMOS Ignaclo L	Haines Company, Inc.
	PEREZMardsela V	Haines Company, Inc.
	PEREZJuan	Haines Company, Inc.
	a DEASSIS Eduardo	Haines Company, Inc.
1975	JEFFERSON WRENCO	Pacific Telephone
1970	HOPKINS RUSSELL	Pacific Telephone Directory
	JONES J	Pacific Telephone Directory
1967	VACANT	R. L. Polk & Co.
1955	HEATH L T MRS	The Pacific Telephone & Telegraph Co.
1950	CLARK L T R	The Pacific Telephone & Telegraph Co.
1943	Landon Theo J Adeline towermn Key System h	R. L. Polk & Co.
1938	LANDON TEDDIE R	Pacific Telephone
1933	SANSONI FRED (FRANCES) COOK H	R. L. Polk & Co.
1925	SIMS SYLVESTER R	R. L. Polk & Co. of California
1920	BROWN MRS W A R	R. L. Polk & Co. of California

813 WOOD ST

Year	Uses	Source
2006	a DEASSIS Renato	Haines Company, Inc.
1975	JONES PHELLIX	Pacific Telephone
1970	JONES PHELLIX	Pacific Telephone Directory
1967	JONES PHELLIX	R. L. Polk & Co.
1962	Jones Phellix	Pacific Telephone
1955	MARTINOVICH J S	The Pacific Telephone & Telegraph Co.
1943	Martinovich John oiler r	R. L. Polk & Co.

Year	Uses	Source
1943	Martinovich John V Margt shipydwkr h	R. L. Polk & Co.
1933	TAKOVICH JOHN LAB R	R. L. Polk & Co.
	MARTINOVICH JOHN (KATIE) OILER H	R. L. Polk & Co.
	MARTINOVICH JOHN AUTO MECH R	R. L. Polk & Co.

817 WOOD ST

Year	Uses	Source
2006	a CALDERON Erdka	Haines Company, Inc.
1975	BROWN ELAINE	Pacific Telephone
1970	BROWN ELAINE	Pacific Telephone Directory
1967	BROWN ELAINE MRS	R. L. Polk & Co.
1962	Brown Elaine	Pacific Telephone
1955	BROWN ELBERT R	The Pacific Telephone & Telegraph Co.
1950	BROWN ELBERT R	The Pacific Telephone & Telegraph Co.
1945	CABRAL ROBT K R	The Pacific Telephone & Telegraph Co.
1943	Cabral Robt K Kath steelwkr r	R. L. Polk & Co.
	Priznich Michl lab h	R. L. Polk & Co.
1933	PRIZMICH JOHN LAB R	R. L. Polk & Co.
	PRIZMICH MICHL LAB H	R. L. Polk & Co.
1925	LONG MRS R W R	R. L. Polk & Co. of California

820 WOOD ST

Year	Uses	Source
2006	a MEYER Jessica	Haines Company, Inc.
2000	PEREZ MARISELA V	Pacific Bell
	RAMOS IGNACIO L	Pacific Bell
1970	HARRIS JAS A MRS	Pacific Telephone Directory
1967	BARKER LOUISE MRS	R. L. Polk & Co.
	HARRIS ETHEL MRS	R. L. Polk & Co.
1962	Harris Jas A Mrs	Pacific Telephone
1955	HARRIS JAS A MRS	The Pacific Telephone & Telegraph Co.
1950	HARRIS JAS A R	The Pacific Telephone & Telegraph Co.
1945	HARRIS JAS A R	The Pacific Telephone & Telegraph Co.
1943	Harris Jas A Ethel mech h	R. L. Polk & Co.
	ROGERS Ernest shipydwkr r	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1943	Spates Ethel cook r	R. L. Polk & Co.
1938	COLMAN BILLIE R	Pacific Telephone
1933	JOHNSON HIRAM WAITER R	R. L. Polk & Co.
	ALLEN MAUDE MRS H	R. L. Polk & Co.
1925	SCHOONMAKER W T R	R. L. Polk & Co. of California

821 WOOD ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.

823 WOOD ST

Year	Uses	Source
2006	a ARMASRafae l	Haines Company, Inc.
1975	BROWN JOHN ZELLENA	Pacific Telephone
1970	MARTIN BESSIE MAE	Pacific Telephone Directory
1967	WALOT AGNES P MRS	R. L. Polk & Co.
1962	Smet Edward James r	Pacific Telephone
1955	SMET EDWARD JAMES R	The Pacific Telephone & Telegraph Co.
1950	SMET EDWARD JAMES R	The Pacific Telephone & Telegraph Co.
1945	SMET EDWARD JAMES R	The Pacific Telephone & Telegraph Co.
1943	Weldt Agnes wid David h	R. L. Polk & Co.
	Smet Edw storekpr NSB r	R. L. Polk & Co.
1933	WELDT AGNES P (WID D W) H	R. L. Polk & Co.
1925	WELDT CAPT D W R	R. L. Polk & Co. of California
1920	WELDT D W R	R. L. Polk & Co. of California

823 1/2 WOOD ST

Year	Uses	Source
1992	BROWN ZELLENA	PACIFIC BELL DIRECTORY

824 WOOD ST

Year	Uses	Source
2006	CARHUAZ Francisco	Haines Company, Inc.
	SALGADO Ana	Haines Company, Inc.
2000	PENNINGTON RANDY	Pacific Bell
1967	WILLIAMS GERTRUDE	R. L. Polk & Co.
1962	Brown Clarance	Pacific Telephone

FINDINGS

Year	Uses	Source
1955	BROWN CLARENCE	The Pacific Telephone & Telegraph Co.
1950	JONES THOMAS R	The Pacific Telephone & Telegraph Co.
	SILAR HERMAN R	The Pacific Telephone & Telegraph Co.
1945	JONES THOMAS R	The Pacific Telephone & Telegraph Co.
1943	Anderson Sam clk r	R. L. Polk & Co.
	Pilet Hazel h	R. L. Polk & Co.
1933	BROWN EUG BUSMN R	R. L. Polk & Co.
	BROWN JAS (MAUDE) WAITER H	R. L. Polk & Co.
	CRAWFORD BEULAH MRS R	R. L. Polk & Co.
	SMITH HOWARD (MARTHA) PORTER H	R. L. Polk & Co.
	THORNTON BERTHA MRS H	R. L. Polk & Co.
	WILLIAMS EDW D SHOE SHINER R	R. L. Polk & Co.
1925	THORNTON MRS BERTHA R	R. L. Polk & Co. of California
1920	THORNTON MRS BERTHA R	R. L. Polk & Co. of California

828 WOOD ST

Year	Uses	Source
2006	Deleign	Haines Company, Inc.
	LOWE Noelle	Haines Company, Inc.
	a METCALFETHOMPS	Haines Company, Inc.
1970	JACKSON HESTER	Pacific Telephone Directory
1967	JACKSON HESTER	R. L. Polk & Co.
1945	VOLASGLS ETHEL R R	The Pacific Telephone & Telegraph Co.
1943	Velasco Rafael h	R. L. Polk & Co.
1925	LAWSON B R	R. L. Polk & Co. of California

829 WOOD ST

Year	Uses	Source
1991	Nifty Ideas	PACIFIC BELL WHITE PAGES
1967	VACANT	R. L. Polk & Co.
1950	JONES JOLIII J R	The Pacific Telephone & Telegraph Co.
	WILLIAMS MALZOAR R	The Pacific Telephone & Telegraph Co.
	WOODSIDE APTS	The Pacific Telephone & Telegraph Co.
1945	PATES WM APARTMENTS	The Pacific Telephone & Telegraph Co.

FINDINGS

Year	Uses	Source
1933	BAIRD BRUSH MFG CO R H ROBB PRES	R. L. Polk & Co.
	UNITED METAL PRODUCTS LTD HAROLD EDGAR MGR	R. L. Polk & Co.
1928	Telegraph Brush Manufacturing Co Inc R H Robb pres H H Edgar v pres R W Kimberlin sec	R.L. Polk and Co of California
1920	SEALRIGHT CO OF CAL	R. L. Polk & Co. of California

831 WOOD ST

Year	Uses	Source
1992	LEWIS BOOKER T REV	PACIFIC BELL DIRECTORY
1975	LEWIS BOOKER T REV	Pacific Telephone
1970	LEWIS BOOKER T REV	Pacific Telephone Directory
1967	LEWIS BOOKER T	R. L. Polk & Co.
1962	Atkins Josephine Mrs	Pacific Telephone
	Lewis Booker T Rev	Pacific Telephone
1955	LEWIS S GROCERY	The Pacific Telephone & Telegraph Co.
	LEWIS CLEMARD R	The Pacific Telephone & Telegraph Co.
1950	TUCKER WILLIS C R	The Pacific Telephone & Telegraph Co.
	LEWIS CLEMARD R	The Pacific Telephone & Telegraph Co.
1943	Smith Vern Mabel h	R. L. Polk & Co.

832 WOOD ST

Year	Uses	Source
1955	HICKS NANNIE T	The Pacific Telephone & Telegraph Co.
1950	THORN C A R	The Pacific Telephone & Telegraph Co.
1945	THORN C A R	The Pacific Telephone & Telegraph Co.
1943	Thorne Cyrus A porter r	R. L. Polk & Co.
	HICKS Nannie T Mrs h	R. L. Polk & Co.
1938	THORN C A R	Pacific Telephone
1933	THORN SILAS A PORTER H	R. L. Polk & Co.
	THOMAS NANNY COOK R	R. L. Polk & Co.
	HICKS NETTIE T (WID A W) H	R. L. Polk & Co.

FINDINGS

835 WOOD ST

Year	Uses	Source
2006	DEAN Dornse	Haines Company, Inc.
	GILMOREWendall	Haines Company, Inc.
1970	BAKER HOSEA	Pacific Telephone Directory
1967	BAKER HOSE	R. L. Polk & Co.
1962	Brooks Marie	Pacific Telephone
	Brooks Carl V	Pacific Telephone
1955	STUCKEY ANNIE	The Pacific Telephone & Telegraph Co.
1945	PADRON LOUIS R	The Pacific Telephone & Telegraph Co.
1943	Padron Louis Rebecca paper baler h	R. L. Polk & Co.
	Padrone Josephine slswn r	R. L. Polk & Co.
1933	GALTMAN MANUEL (VERA) LAB H	R. L. Polk & Co.
1925	UPTON R A R	R. L. Polk & Co. of California
1920	UPTON R A R	R. L. Polk & Co. of California

836 WOOD ST

Year	Uses	Source
1938	LEWIS MIKE R	Pacific Telephone

837 WOOD ST

Year	Uses	Source
2000	DEAN CHRISTOPHER JR	Pacific Bell

839 WOOD ST

Year	Uses	Source
2006	PETERSON Galen	Haines Company, Inc.
	a COLOTTI Unda	Haines Company, Inc.
2000	MORALES HECTOR O	Pacific Bell
1975	NAVARRO ARMANDO	Pacific Telephone
1970	NAVARRO ARMANDO	Pacific Telephone Directory
1967	NAVARRO AJOSEPHINE MRS TW	R. L. Polk & Co.
1962	Navarro Gilbert	Pacific Telephone
1955	NAVARRO ROCENDO R	The Pacific Telephone & Telegraph Co.
1950	NAVARRO R R	The Pacific Telephone & Telegraph Co.
1943	Navarro Alf Isabelle ironwkr r	R. L. Polk & Co.
	Navarro Josephine Mrs h	R. L. Polk & Co.
	Navarro Robt ironwkr r	R. L. Polk & Co.

Year	Uses	Source
1943	Navarro Rocendo ironwkr r	R. L. Polk & Co.
1933	NICHOLSON JOHN (ELIA) LAB H	R. L. Polk & Co.
1920	HOFFNER A J R	R. L. Polk & Co. of California

843 WOOD ST

Year	Uses	Source
1943	RIPLEY Louis B Elaine H USAC h	R. L. Polk & Co.

851 WOOD ST

Year	Uses	Source
2006	BLOCH Johathan	Haines Company, Inc.

855 WOOD ST

Year	Uses	Source
2006	GRAYSON Chadoote	Haines Company, Inc.
	HILL Hayward R	Haines Company, Inc.
2000	HILL HAYWARD R	Pacific Bell
1996	HILL HAYWARD R	PACIFIC BELL DIRECTORY
1992	HILL HAYWARD R	PACIFIC BELL DIRECTORY
1975	HILL VERSA	Pacific Telephone
1970	HILL HAYWARD R	Pacific Telephone Directory
	HILL VERSA	Pacific Telephone Directory
1967	HILL HAYWARD R	R. L. Polk & Co.
1962	Washington Versa	Pacific Telephone
1955	BOGAN BEE	The Pacific Telephone & Telegraph Co.
	MCDONALD CARRIE MRS	The Pacific Telephone & Telegraph Co.
	WASHINGTON VERSA	The Pacific Telephone & Telegraph Co.
1950	BEGAN BEE R	The Pacific Telephone & Telegraph Co.
1943	Schaffer Conrad R Jennie A shipydwkr h	R. L. Polk & Co.
1938	SCHAFFER AUGUST C R	Pacific Telephone

856 WOOD ST

Year	Uses	Source
2006	a SHARP Sylvia	Haines Company, Inc.
1967	THOMAS EDDIE L	R. L. Polk & Co.
1962	Lewis Irene	Pacific Telephone
1955	ROLLINS R	The Pacific Telephone & Telegraph Co.

FINDINGS

Year	Uses	Source
1955	BROWN PEARL MRS R	The Pacific Telephone & Telegraph Co.
1950	ROLLINS R R	The Pacific Telephone & Telegraph Co.
	BROWN PEARL MRS R	The Pacific Telephone & Telegraph Co.
1945	MARTIN FRANK R	The Pacific Telephone & Telegraph Co.
1943	MARTIN Marie cnrywkr r	R. L. Polk & Co.
	Martin Frank Claudina lbrmn h	R. L. Polk & Co.
1925	WARD MORGAN L R	R. L. Polk & Co. of California

859 WOOD ST

Year	Uses	Source
2006	a BROWN Victor	Haines Company, Inc.
1970	MURPHY MARY	Pacific Telephone Directory
1967	MURPHY JOHN	R. L. Polk & Co.
1962	Murphy Mary	Pacific Telephone
1955	MURPHY MARY	The Pacific Telephone & Telegraph Co.
1950	MURPHY JOHN R	The Pacific Telephone & Telegraph Co.
1945	MURPHY JOHN R	The Pacific Telephone & Telegraph Co.
1943	Enos Chas M Ruth driver h	R. L. Polk & Co.
1938	WASHINGTON J R	Pacific Telephone
1933	WASHINGTON GEO (JENNIE) LAB H	R. L. Polk & Co.
	SCHLIN HILMA MRS H	R. L. Polk & Co.
	ENOS HENRY C LAB OKLD ST DEPT H	R. L. Polk & Co.

862 WOOD ST

Year	Uses	Source
1933	HUBBARD HORACE B H	R. L. Polk & Co.
	HARRIS HENRY LAB R	R. L. Polk & Co.
	SMITH MAJOR COOK R	R. L. Polk & Co.

863 WOOD ST

Year	Uses	Source
2006	a BROWN Jessie	Haines Company, Inc.
1967	GIBSON RUTH	R. L. Polk & Co.
1955	GIBSON RUTH B R	The Pacific Telephone & Telegraph Co.

FINDINGS

Year	Uses	Source
1950	GIBSON RUTH B R	The Pacific Telephone & Telegraph Co.
	SCOTT LEO R	The Pacific Telephone & Telegraph Co.
1945	BOSCOVICH AGNES R	The Pacific Telephone & Telegraph Co.
1943	Boscovich Anna N Mrs drygds h	R. L. Polk & Co.
	Hexberg Mary E Mrs writer r	R. L. Polk & Co.
1938	BOSCOVICH AGNES R	Pacific Telephone
1933	BOSCOVICH AGNES CLK R	R. L. Polk & Co.
	BOSCOVICH ANNA (WID GEO) DRY GDS	R. L. Polk & Co.
	HOFFNER ALBT R	R. L. Polk & Co.
1928	Taller Andw H	R.L. Polk and Co of California

866 WOOD ST

Year	Uses	Source
2006	WILLIAMS Van 19ta	Haines Company, Inc.
1970	DOBBINS WALTER MRS	Pacific Telephone Directory
1967	BERRY FRANK J	R. L. Polk & Co.
1950	DRAKE IDALIA R	The Pacific Telephone & Telegraph Co.
1943	Weatherly Saml lab h	R. L. Polk & Co.
	ANDERSON Henry h	R. L. Polk & Co.
1933	LUPORINI MICHL (DOROTHY) LAB H	R. L. Polk & Co.

867 WOOD ST

Year	Uses	Source
2006	SNYDER Wiliam	Haines Company, Inc.
1970	BENNETT JOS	Pacific Telephone Directory
1967	BENNETT JOSEPH	R. L. Polk & Co.
1962	Bennett Jos	Pacific Telephone
1955	THROWER HOSIE R	The Pacific Telephone & Telegraph Co.
1950	GUNLOW LEE R	The Pacific Telephone & Telegraph Co.
1943	Concerta John Cerisa lab h	R. L. Polk & Co.
	Concerta Albino r	R. L. Polk & Co.
1933	FELICE JOHN (CONCHETTA) LAB H	R. L. Polk & Co.
1920	BOOTSMA WM A R	R. L. Polk & Co. of California

FINDINGS

868 WOOD ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	NEAL MONIQUE M	Pacific Bell
	LANKFORD KIANNA M	Pacific Bell
1975	BENNETT JOS	Pacific Telephone
1967	MORISE RAYFORD E	R. L. Polk & Co.
1962	Wiggins Charlie	Pacific Telephone
1955	WIGGINS CHARLIE	The Pacific Telephone & Telegraph Co.
1943	Robinson Robt Vunie waiter h	R. L. Polk & Co.
	BAILEY Harrison shipydwkr h	R. L. Polk & Co.
1933	SILVERA JOS R	R. L. Polk & Co.
	BENTON CHAS V (MARIAN) H	R. L. Polk & Co.
1925	MEYER CATHERINE R	R. L. Polk & Co. of California

871 WOOD ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.

872 WOOD ST

Year	Uses	Source
2006	PROCTOR Gary	Haines Company, Inc.
2000	NEAL MONIQUE	Pacific Bell
1996	UNITI PRESCHOOL	PACIFIC BELL DIRECTORY
1975	GATILEE CHURCH OF GOD IN CHRIST	Pacific Telephone
1970	GALILEE CHURCH OF GOD IN CHRIST	Pacific Telephone Directory
	LASENBY MACK REV GALILEE CHURCH OF GOD IN CHRIST	Pacific Telephone Directory
1967	CAESAR AL 8 ERT	R. L. Polk & Co.
1955	DAVIS W D REV	The Pacific Telephone & Telegraph Co.
1945	BOWDEN SARAH MRS R	The Pacific Telephone & Telegraph Co.
1943	Bowden Thos Sarah lab h	R. L. Polk & Co.
	Mc Clain Anna B Mrs r	R. L. Polk & Co.
1933	MONIZE MANUEL (GLORIA) LAB H	R. L. Polk & Co.

873 WOOD ST

Year	Uses	Source
2006	a ELLISON Lanell	Haines Company, Inc.
2000	LOWE S T	Pacific Bell

FINDINGS

Year	Uses	Source
1967	BERRY FRANK	R. L. Polk & Co.
1955	COOPER J W	The Pacific Telephone & Telegraph Co.
1950	GOSS ELIJAH H R	The Pacific Telephone & Telegraph Co.
1945	SCALES ANTIONETTE A MRS R	The Pacific Telephone & Telegraph Co.
1943	Melfi Laterza clk r	R. L. Polk & Co.
	Mastrangelo Rose Mrs r	R. L. Polk & Co.
	Melfi Rose Mrs h	R. L. Polk & Co.
1933	MASTRANGELO PETER R	R. L. Polk & Co.
	LATERZA PIETRO (ROSE) JAN H	R. L. Polk & Co.

875 WOOD ST

Year	Uses	Source
2006	a CHOYCE Gordon	Haines Company, Inc.
1975	HARRIS LEORA	Pacific Telephone
1970	HARRIS LEORA	Pacific Telephone Directory
1967	HARRIS HENRY	R. L. Polk & Co.
1962	Battle Pauline	Pacific Telephone
	Harris Leora	Pacific Telephone
	Battle John	Pacific Telephone
1955	DAVIS ERNEST	The Pacific Telephone & Telegraph Co.
	HARRIS LEORA R	The Pacific Telephone & Telegraph Co.
1950	HARRIS LEORA R	The Pacific Telephone & Telegraph Co.
1943	Lipanovich John Mary mech h	R. L. Polk & Co.
	Lipanovitch Michl J USN r	R. L. Polk & Co.
	Lipanovich Mary T r	R. L. Polk & Co.
1938	LIPANOVICH JOHN R	Pacific Telephone
1933	LIPANOVICH JOHN (MARY TRUCKMN SPCO H	R. L. Polk & Co.
1925	VRANKOVICH A R	R. L. Polk & Co. of California
1920	VRANKOVICH A R	R. L. Polk & Co. of California

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	**Address Not Identified in Research Source**
800 Cedar Street	2006, 2002, 2000, 1996, 1993, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	**Address Not Identified in Research Source**
1001 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1920
1001 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1940, 1933, 1932, 1928, 1926, 1925
1003 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1920
1003 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1004 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1004 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1005 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1005 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1932, 1928, 1926, 1925, 1920
1006 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1920
1006 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1938, 1932, 1928, 1926, 1925, 1920
1009 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1009 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
1009 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
1738 CHASE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1926, 1925, 1920
1739 CHASE ST	2002, 1993, 1984, 1982, 1979, 1976, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1932, 1926, 1920
1745 CHASE CT	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1745 CHASE ST	2002, 2000, 1996, 1993, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1752 9TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1754 8TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1756 8TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1756 9TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1760 9TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1764 8TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1764 9TH ST	2002, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1765 8TH ST	2002, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1765 CHASE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1926, 1925, 1920
1768 8TH ST	2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1926, 1925, 1920
1768 9TH ST	2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1768 S 8TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
1769 CHASE CT	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1769 CHASE ST	2002, 1993, 1984, 1982, 1979, 1976, 1975, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1769 GOSS ST	2002, 2000, 1996, 1993, 1992, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1940, 1932, 1926, 1920
1770 8TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	**Address Not Identified in Research Source**
1770 E 8TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
1771 1/2 CHASE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1771 CHASE CT	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1771 CHASE ST	2006, 2002, 2000, 1996, 1993, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1926, 1925, 1920
1772 8TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1773 CHASE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1940, 1932, 1928, 1926, 1925, 1920
1774 8TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1775 CHASE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1940, 1938, 1933, 1932, 1926, 1925, 1920
1777 8TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1777 9TH ST	2002, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1778 10th Street	2002, 2000, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1778 8TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1779 CHASE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1926, 1925, 1920
1780 9TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1781 8TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1781 9TH ST	2002, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1782 8TH ST	2002, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1782 9TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1784 8TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
1784 9TH ST	2002, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1785 9TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1787 9TH ST	2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1788 9TH ST	2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1790 9TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1791 8TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1792 8TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1794 8TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1794 9TH ST	2002, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1796 8TH ST	2002, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1796 9TH ST	2006, 2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1798 9TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1800 SHOREY ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1807 SHOREY ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1811 SHOREY ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1928, 1926, 1920
1813 SHOREY ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1932, 1926, 1925, 1920
1815 SHOREY ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1920
1817 SHOREY ST	2006, 2002, 2000, 1996, 1993, 1984, 1982, 1979, 1976, 1975, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
1818 SHOREY ST	2006, 2002, 2000, 1996, 1993, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1819 9TH ST	2006, 2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
1820 10th Street	2002, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1822 9TH ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1823 SHOREY ST	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
1824 9TH ST	2006, 2002, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1824 SHOREY ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1928, 1926, 1920
1825 SHOREY ST	2006, 2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
1832 9TH ST	2006, 2002, 2000, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1832 9th Street	2006, 2002, 2000, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1943, 1940, 1932, 1928, 1926, 1925, 1920
1832 W 9TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1943, 1940, 1932, 1928, 1926, 1925, 1920
1846 9TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
2520 10TH	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
2526 10TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1926, 1925, 1920
2622 10TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
2630 10TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
707 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925
708 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
714 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
714 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1928, 1926, 1925, 1920
727 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

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Address Researched	**Address Not Identified in Research Source**
727 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
751 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
751 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
751 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1933, 1932, 1928, 1926, 1925, 1920
753 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
755 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
755 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
755 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1938, 1932, 1928, 1926, 1925, 1920
757 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
758 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
759 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
759 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
759 PINE ST	2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1940, 1938, 1932, 1928, 1926, 1925, 1920
761 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
761 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
763 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
763 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
763 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925
765 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

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Address Researched	Address Not Identified in Research Source
767 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
767 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
767 PINE ST	1993, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
774 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
775 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
775 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
777 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
779 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1920
779 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
779 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1938, 1932, 1928, 1926, 1925, 1920
780 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
789 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
790 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
793 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
795 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
799 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
800 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
800 PINE ST	2002, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
801 Cedar Street	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

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Address Researched	Address Not Identified in Research Source
806 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
806 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
808 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
808 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
808 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
808 WOOD ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
809 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1940, 1932, 1928, 1926
811 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
812 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
812 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
812 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1943, 1940, 1938, 1932, 1928, 1926, 1925, 1920
813 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
813 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
815 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
815 PINE ST	2006, 2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
816 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
816 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1940, 1938, 1932, 1928, 1926, 1925, 1920
817 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
817 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
817 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1938, 1932, 1928, 1926, 1920

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Address Researched	Address Not Identified in Research Source
818 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
818 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
818 PINE ST	2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
820 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
820 WOOD ST	2002, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1932, 1928, 1926, 1920
821 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
821 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
821 PINE ST	2006, 2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1940, 1933, 1932, 1928, 1926, 1925
821 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
822 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
822 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
822 PINE CT	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
822 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1943, 1940, 1938, 1932, 1928, 1926, 1925, 1920
823 1/2 WOOD ST	2006, 2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
823 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
823 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1938, 1932, 1928, 1926
824 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
824 WOOD ST	2002, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1938, 1932, 1928, 1926
826 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
826 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920

FINDINGS

Address Researched	**Address Not Identified in Research Source**
826 PINE ST	2006, 2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
828 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
828 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1940, 1938, 1933, 1932, 1928, 1926, 1920
829 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
829 WOOD ST	2006, 2002, 2000, 1996, 1993, 1992, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1943, 1940, 1938, 1932, 1926, 1925
830 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
830 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
830 PINE ST	2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
831 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
831 WOOD ST	2006, 2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
832 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
832 WOOD ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1932, 1928, 1926, 1925, 1920
834 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
834 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
834 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
835 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
835 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
835 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
835 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1940, 1938, 1932, 1928, 1926

FINDINGS

Address Researched	Address Not Identified in Research Source
836 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
836 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
836 PINE ST	2006, 1993, 1991, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
836 WOOD ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1933, 1932, 1928, 1926, 1925, 1920
837 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
837 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1928, 1926, 1925, 1920
837 WOOD ST	2006, 2002, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
838 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
838 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1928, 1926, 1925, 1920
839 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
839 WOOD ST	2002, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925
840 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
841 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
842 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
842 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
842 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
843 WOOD ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
844 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
844 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920

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Address Researched	**Address Not Identified in Research Source**
844 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
846 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
846 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
846 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
848 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
848 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
848 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
850 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
850 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
850 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
851 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
851 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
852 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
852 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
852 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
852 PINE ST	2006, 2002, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1938, 1932, 1928, 1926, 1925, 1920
853 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
854 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
854 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

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Address Researched	Address Not Identified in Research Source
854 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
854 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1938, 1932, 1928, 1926, 1925, 1920
855 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
855 WOOD CT	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
855 WOOD ST	2002, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1940, 1933, 1932, 1928, 1926, 1925, 1920
856 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
856 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1938, 1933, 1932, 1928, 1926, 1920
857 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
858 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
858 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
858 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1938, 1932, 1928, 1926, 1925
858 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1938, 1932, 1926, 1925
859 MCELROY ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
859 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
859 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
859 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
859 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1932, 1928, 1926, 1925, 1920
860 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
860 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

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Address Researched	Address Not Identified in Research Source
860 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
860 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
861 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
861 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
862 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
862 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
862 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
862 WOOD ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1928, 1926, 1925, 1920
863 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
863 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1928, 1926, 1925, 1920
863 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1932, 1926, 1925, 1920
864 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
865 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
865 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1920
865 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
865 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1928, 1926, 1925, 1920
866 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1920
866 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
866 PINE LN	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	**Address Not Identified in Research Source**
866 PINE ST	2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1932, 1928, 1926, 1925, 1920
866 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
867 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925
868 MCELROY ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
868 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
868 WOOD ST	2002, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1965, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1920
869 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
870 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
870 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
870 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1938, 1932, 1928, 1926, 1925
871 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
872 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
872 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
872 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
872 WOOD CT	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
872 WOOD ST	2002, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1940, 1938, 1932, 1928, 1926, 1925, 1920
873 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
873 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
873 WOOD ST	2002, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1938, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	**Address Not Identified in Research Source**
874 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
874 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
874 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
875 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
875 WOOD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
875 WOOD ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1940, 1932, 1928, 1926
876 MCELROY ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
877 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
878 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
878 PINE ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
880 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
880 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
882 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
882 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1938, 1932, 1928, 1926, 1925, 1920
883 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1928, 1926, 1925, 1920
884 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
884 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
884 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
885 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
886 MCELROY ST	2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
886 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
886 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
886 PINE ST	2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
888 Cedar Street	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
889 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
890 PINE AVE	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
903 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1920
903 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
903 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1932, 1928, 1926, 1925
905 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
905 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
905 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
907 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
907 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
907 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
911 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
911 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1932, 1928, 1926, 1925, 1920
917 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	**Address Not Identified in Research Source**
917 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
917 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1940, 1932, 1928, 1926, 1925, 1920
921 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
921 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
924 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
924 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
924 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
927 1/2 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
927 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
927 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
927 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
929 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
929 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
929 PINE ST	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
930 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
930 PINE ST	2002, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
932 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
933 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1920
933 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
933 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1940, 1933, 1932, 1928, 1926, 1925, 1920
937 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
937 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
937 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1940, 1933, 1932, 1928, 1926, 1925, 1920
937 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1940, 1933, 1932, 1926, 1925, 1920
941 PINE ST	2006, 2002, 1993, 1984, 1982, 1979, 1976, 1973, 1965, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1940, 1938, 1932, 1928, 1926, 1925
942 PINE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1920
942 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
942 PINE ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925
944 PINE AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920

From:	Public Records <PublicRecords@baaqmd.gov>
Sent:	Monday, March 18, 2019 1:33 PM
To:	Erik Brown
Subject:	Public Records Request No. 2019-03-0117

Dear Erik Brown,

Thank you for your request. We have searched our records and have no records that respond to your below request for:

800 Cedar Street
Oakland

If you have any questions or concerns, please call or e-mail me.

Sincerely,

Rochelle Reed
Public Records Section
BAAQMD
415-516-1916

SITE CERTIFICATION SYNOPSIS

NAME AND LOCATION OF SITE:

B&A Auto Dismantlers
1823 Shorey Street
Oakland, California
Alameda County

DATE PROJECT BEGAN: 1992

DATE PROJECT CERTIFIED: January 8, 1997

DESCRIPTION OF SITE AND CONTAMINANTS: The Site is located at 1823 Shorey Street, within the western portion of the city of Oakland, approximately 1 mile west of the Oakland Outer Harbor. The Site is relatively level and approximately 1,875 square feet in area. The site was previously used as an auto dismantling facility. Caltrans acquired the property in 1990 as a right-of-way acquisition to reconstruct the section of the I-880 freeway that collapsed in the 1989 Loma Prieta earthquake. Residential homes are located directly across from the site along the east side of Pine Street and the south side of Goss Street.

Soil and groundwater investigations conducted in December 1992 found that the soil contained elevated concentrations of petroleum hydrocarbons and soluble lead above preliminary remedial goals.

DESCRIPTION OF REMOVALS AND REMEDIAL ACTIONS: Approximately 80 cubic yards of debris and 670 cubic yards of California-hazardous soils were excavated from the B&A Auto Site on November 18, 1995. The debris consisted of wood and metal scraps, metals pipes, tires, tree branches and brush. The debris and soil were taken to the Southern Pacific Transportation Company staging area on November 18, 1995 and subsequently loaded onto rail cars on November 20, 1995 for transport to the ECDC landfill in Utah.

The Site was then dewatered and excavated to a depth of approximately 15 to 20 feet to install the Contract 'B' frontage road connecting to the Seventh Street undercrossing. The floor of the excavation was sealed with a concrete slab to construct a sub-base road.

DESCRIPTION OF PROBLEMS ENCOUNTERED WHICH CAUSED MAJOR DELAYS: None

DESCRIPTION OF ACCOMPLISHMENTS UNIQUE TO THIS SITE: None

FINAL USE OF SITE: Part of a frontage road connecting to the Seventh Street undercrossing. The Site was excavated to a depth of approximately 15-20 feet and the floor of the excavation was sealed with a concrete slab to construct a sub-base road.

REMEDIAL ACTION CERTIFICATION FORM

---

1. Site Name and Location:

B&A Auto Dismantlers
1823 Shorey Street
Oakland, California
Alameda County

Assessor's Parcel Numbers: 6-45-3

2. Project Proponent:

Mr. Nino Cerruti
CALTRANS
P.O. Box 23660
Oakland, California 94623-0660

3. Brief Description and History of the Site: The Site is located at 1823 Shorey Street, within the western portion of the city of Oakland, approximately 1 mile west of the Oakland Outer Harbor. The Site is relatively level and approximately 1,875 square feet in area. The site was previously used as an auto dismantling facility. Caltrans acquired the property in 1990 as a right-of-way acquisition to reconstruct the section of the I-880 freeway that collapsed in the 1989 Loma Prieta earthquake. Residential homes are located directly across from the site along the east side of Pine Street and the south side of Goss Street.

Soil and groundwater investigations conducted in December 1992 found that the soil contained elevated concentrations of petroleum hydrocarbons and soluble lead above preliminary remedial goals.

4. Type of Site:
Included in the Annual Workplan? No, a Voluntary Cleanup Program project.

5. Size of Site: Small

6. Dates of Remedial Action:
Initiated: Implementation of the field activities approved in the Remedial Design and Implementation Plan began on November 18, 1995.

Completed: Excavation activities were completed on November 18, 1995 and the excavated soil and debris were loaded onto rail cars on November 20, 1995

7. Response Action Taken on Site:

A. Type of Remedial Action: Excavation and offsite disposal of soil exceeding cleanup goals.

B. Estimated quantity of wastes associated with the Site: Approximately 80 cubic yards of debris and 670 cubic yards of California-hazardous soils.

8. Cleanup Levels/Standards.

A. What were the cleanup standards established by DTSC pursuant to the final remedial action plan (RAP)? The Remedial Action Plan included preliminary remedial goals. See attached Table 1.

B. Were the specified cleanup standards met? Yes

C. If "no", why not:

9. DTSC Involvement in the Remedial Action:

A. Did DTSC order the remedial action? The remedial action was conducted pursuant to a Voluntary Cleanup Agreement.

B. Did DTSC review and approve:

Sampling and Analysis Procedures?	Yes	Date: 11/16/95
Health and Safety Procedures?	Yes	Date: 11/16/95
Removal/Disposal Procedures?	Yes	Date: 11/16/95
Remedial Action Plan	Yes	Date: 8/14/95

C. If the site was abated by a responsible party, did DTSC receive a signed statement from a licensed professional on all Remedial Actions? Yes

D. Did a registered engineer or geologist verify that acceptable engineering practices were implemented? Yes

E. Did DTSC confirm completion of all Remedial Action? Yes

F. Did DTSC (directly or through a contractor) actually perform the Remedial Action? No

G. Was there a community relations plan in place? Yes.

H. Was a remedial action plan developed for this Site? Yes.

I. Did DTSC hold a public meeting regarding the draft RAP? Yes, a public meeting was held on July 13, 1995 to discuss and receive comments on the Final Feasibility Study/Remedial Action Plan, Interstate 880, Cypress Replacement Project, Oakland, California, August 1995. This Site was one of the properties addressed under this RAP.

J. Were public comments addressed? Yes, a Responsiveness Summary, dated August 10, 1995, was prepared which addressed all comments received.

K. Are all of the facts cited above adequately documented in DTSC files? Yes.

10. EPA Involvement in the Remedial Action:
Was the EPA involved in the site cleanup? No.

11. Other Regulatory Agency Involvement in the Cleanup Actions: DTSC coordinated activities with CALTRANS, the San Francisco Bay Region of the Regional Water Quality Control Board (RWQCB), Alameda County Environmental Health Department and City of Oakland staff.

12. Post-Closure Activities:

A. Will there be post-closure activities at this Site (e.g., Operation and Maintenance)? No.

B. Have post-closure plans been prepared and approved by DTSC? Not applicable.

C. What is the estimated duration of post-closure (including operation and maintenance) activities? Not applicable

D. Are deed restrictions proposed or in place? No

E. Has cost recovery been initiated? As per the Voluntary Cleanup Agreement, Caltrans should be receiving quarterly invoices for DTSC's oversight costs.

F. Were local planning agencies notified of the cleanup action? Yes. The Oakland Public Works Department and the Alameda County Environmental Health Department were notified of the availability of the draft RAP for public comment.

G. Expenditure of Funds and Source: Funding Source and Amount Expended:

_____ HWCA $______________
_____ HSCF $______________
_____ RP $______________

_____ HSA $_____________
_____ Other $_____________

14. Certification Statement: Based upon the information which is currently and actually known to DTSC, DTSC has determined that all appropriate removal/remedial actions have been completed and that no further remedial action is necessary.

15. Certification of Remedial Action:

I hereby certify that the foregoing information is true and correct to the best of my knowledge.

Lynn Nakashima 1/7/97
Project Manager Date

Barbara J. Coler 1/8/97
Regional Branch Chief Date

File Date	Status	Record Number	Record Type	Description
5/12/1995	Final	B9501755	Building/Non-Residential/Building/Demolition	DEMOLISH PHOENIX IRON WORKS FOR CAL-TRANS-PHASE I. SLAB REM. PHASE II TO BE ACCOMPLISHED BY CAL-TRANS WITHIN 2 YEARS FROM DATE OF ISSUE THIS PERMIT B9501755. 30-DAY POSTING WAIVED.
8/17/1995	Permit Issu	H9500002	Building/Residential/Building/New	move house from 1815 Shorey st to 800 Cedar st
8/21/1995	Permit Issu	H9500001	Building/Residential/Building/New	Move house from 714 Pine st to 800 Cedar st
8/21/1995	Permit Issu	H9500003	Building/Residential/Building/New	Move house from 1817 Shorey St to 800 Cedar St
5/17/2018	Permit Exp	OB1800928	Obstruction	Reserve #300 feet NON-METERED parking space(s) in front of parcel only for dumpster, construction vehicle, moving van or storage pod. Post No-parking signs 72 hours prior in residential areas. Any impact on traffic lane or sidewalk shall comply with TCP. No-parking signs picked up by applicant after payment, 4TH FLOOR. To Have Illegally Parked Vehicle Ticketed Call 510-777-3333. Applicant arranges towing. Comply with terms set forth in CVC Section 22651 (m). For Towed Vehicle: Call 510 238-3021. RELATED PERMIT: X1800581TSD: 18-0178Date: 5/31-6/1
5/17/2018	Applicatior	X1800581	OPW - Excavation	Soil Boring - Any impact on traffic lane or sidewalk allowed shall comply with TCP. Ensure that environmental controls are in place to prevent dust/debris/waste water from contaminating environment. If working within 25' feet of a monument you must comply with State Law 8771, contact the Inspector prior to starting excavation: minimum $5,800.00 fine for non-compliance. Comply with all terms of City of Oakland Public Works Standards, Street Excavation Rules, Revised March 2015 and City Council Ordinance No. 13300 C.M.S. Five day prior notice required for work lasting five days or less in business/commercial districts; 72 hour notice in residential districts. Ten day prior notice required for work lasting six days or more in all districts. Call PWA INSPECTION prior to start: 510-238-3651. email PWA_inspections@oaklandnet.com. TSD: 18-0178Date: 5/31-6/01
10/10/2018	Created	X1800899	OPW - Excavation	Soil Boring (not in the street) Installation of Soil Gas Well. - Any impact on traffic lane or sidewalk allowed shall comply with TCP. Ensure that environmental controls are in place to prevent dust/debris/waste water from contaminating environment. If working within 25' feet of a monument you must comply with State Law 8771, contact the Inspector prior to starting excavation: minimum $5,800.00 fine for non-compliance. Comply with all terms of City of Oakland Public Works Standards, Street Excavation Rules, Revised March 2015 and City Council Ordinance No. 13300 C.M.S. Five day prior notice required for work lasting five days or less in business/commercial districts; 72 hour notice in residential districts. Ten day prior notice required for work lasting six days or more in all districts. Call PWA INSPECTION prior to start: 510-238-3651. email PWA_inspections@oaklandnet.com.
10/10/2018	Permit Exp	OB1802131	Obstruction	Reserve 1 (25 ft) NON-METERED parking space(s) in front of parcel only for soiling boring. Post No-parking signs 72 hours prior in residential areas. No impact on traffic lane or sidewalk allowed. No-parking signs picked up by applicant after payment, 4TH FLOOR. To Have Illegally Parked Vehicle Ticketed Call 510-777-3333. Applicant arranges towing. Comply with terms set forth in CVC Section 22651 (m). For Towed Vehicle: Call 510-238-3021.
10/10/2018	Created	X1800900	OPW - Excavation	Soil Boring (not in the street) Installation of Soil Gas Well. - Any impact on traffic lane or sidewalk allowed shall comply with TCP. Ensure that environmental controls are in place to prevent dust/debris/waste water from contaminating environment. If working within 25' feet of a monument you must comply with State Law 8771, contact the Inspector prior to starting excavation: minimum $5,800.00 fine for non-compliance. Comply with all terms of City of Oakland Public Works Standards, Street Excavation Rules, Revised March 2015 and City Council Ordinance No. 13300 C.M.S. Five day prior notice required for work lasting five days or less in business/commercial districts; 72 hour notice in residential districts. Ten day prior notice required for work lasting six days or more in all districts. Call PWA INSPECTION prior to start: 510-238-3651. email PWA_inspections@oaklandnet.com. (ADDRESS IS AT 818 CEDAR STREET. SEE ATTACHED DRAWING)

Department of Toxic Substances Control

Meredith Williams, Ph.D.
Acting Director
1001 "I" Street
P.O. Box 806
Sacramento, California 95812-0806

Jared Blumenfeld
Secretary for
Environmental Protection

Gavin Newsom
Governor

EPA ID PROFILE

Map

ID Number:	CAC001029656	**Status:**	INACTIVE
Name:	CALTRANS	**Inactive Date:**	10/25/2000 12:00:00 AM
County:	ALAMEDA	**Record Entered:**	6/15/1995 12:00:00 AM
NAICS:	N/A	**Last Updated:**	10/25/2000 12:00:00 AM

	Name	Address	City	State	Zip Code	Phone
Location	CALTRANS	800 CEDAR STREET	OAKLAND	CA	946070000	
Mailing		PO BOX 23660	OAKLAND	CA	946230660	
Owner	CALTRANS	PO BOX 23660	OAKLAND	CA	946230660	5102865651
Operator/Contact	JOEL HOWIE/ADHWDC	PO BOX 23660	OAKLAND	CA	946230660	5102865651

Based Only Upon ID Number: **CAC001029656**

Calif. Manifests?	Non Calif. Manifests?	Transporter Registration?
Yes	N/A	N/A

California and Non California Manifest Tonnage Total and Waste Code by Year Matrix by Entity Type (if available) are on the next page

Calif. Manifest Counts and Total Tonnage

Top line represents Manifest Count and Bottom line represents Total Tonnage

Year	Generator	Trans. 1	Trans. 2	TSDF	ALT. TSDF
1995	3 9.37800	0 0.00000	0 0.00000	0 0.00000	0 0.00000

Non California Manifest Total Tonnage

No Records Found

Waste Code Matrix					
California	[Generator]	[Trans. 1]	[Trans. 2]	[TSDF]	[Alt. TSDF]
RCRA	[Generator]	[Trans. 1]	[Trans. 2]	[TSDF]	[Alt. TSDF]

Waste Code Matrix as a spreadsheet

The Department of Toxics Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

Report Generation Date: 03/25/2019

Results for California Waste Codes, as a Generator, for EPA-ID: CAC001029656

Calif. Waste Code	Description	1995
	Blank/Unknown	0.015
123	UNSPECIFIED ALKALINE SOLUTION	0.025
331	OFF-SPEC, AGED, OR SURPLUS ORGANICS	0.41
512	OTHER EMPTY CONTAINERS >= 30 GALLONS	0.5
513	EMPTY CONTAINERS < 30 GALLONS	8.428
	Grand Total	9.378

No results for California Waste Codes, as a Transporter 1, for EPA-ID: CAC001029656

No results for California Waste Codes, as a Transporter 2, for EPA-ID: CAC001029656

No results for California Waste Codes, as a TSDF, for EPA-ID: CAC001029656

No results for California Waste Codes, as a Alternate TSDF, for EPA-ID: CAC001029656

Results for RCRA, as a Generator, for EPA-ID: CAC001029656

RCRA	Description	1995
	Blank/Unknown	8.928
D001	Ignitable	0.4
D002	Corrosives	0.04
U051	Creosote	0.01
	Grand Total	9.378

No results for RCRA, as a Transporter 1, for EPA-ID: CAC001029656

No results for RCRA, as a Transporter 2, for EPA-ID: CAC001029656

No results for RCRA, as a TSDF, for EPA-ID: CAC001029656

No results for RCRA, as a Alternate TSDF, for EPA-ID: CAC001029656

Jared Blumenfeld
Secretary for
Environmental Protection

Department of Toxic Substances Control

Meredith Williams, Ph.D.
Acting Director
1001 "I" Street
P.O. Box 806
Sacramento, California 95812-0806

Gavin Newsom
Governor

EPA ID PROFILE

Map

ID Number:	CAC001479328	**Status:**	INACTIVE
Name:	DEPT OF TRANSPORTATION DIST 4	**Inactive Date:**	10/25/2000 12:00:00 AM
County:	ALAMEDA	**Record Entered:**	1/4/2000 12:00:00 AM
NAICS:	N/A	**Last Updated:**	10/25/2000 12:00:00 AM

	Name	Address	City	State	Zip Code	Phone
Location	DEPT OF TRANSPORTATION DIST 4	800 CEDAR ST	OAKLAND	CA	946070000	
Mailing		111 GRAND AVE 14TH FL	OAKLAND	CA	946230000	
Owner	DEPT OF TRANSPORTATION	1120 N ST,MS 31	SACRAMENTO	CA	958140000	0000000000
Operator/Contact	KATHLEEN WALDO/IT CORP	--	--	99	--	9169283300

Based Only Upon ID Number: **CAC001479328**

Calif. Manifests?	Non Calif. Manifests?	Transporter Registration?
Yes	N/A	N/A

California and Non California Manifest Tonnage Total and Waste Code by Year Matrix by Entity Type (if available) are on the next page

Calif. Manifest Counts and Total Tonnage

Top line represents Manifest Count and Bottom line represents Total Tonnage

Year	Generator	Trans. 1	Trans. 2	TSDF	ALT. TSDF
2000	1 1.75000	0 0.00000	0 0.00000	0 0.00000	0 0.00000

Non California Manifest Total Tonnage

No Records Found

Waste Code Matrix					
California	Generator	Trans. 1	Trans. 2	TSDF	Alt. TSDF
RCRA	Generator	Trans. 1	Trans. 2	TSDF	Alt. TSDF

Waste Code Matrix as a spreadsheet

Report Generation Date: 03/25/2019

Results for California Waste Codes, as a Generator, for EPA-ID: CAC001479328

Calif. Waste Code	Description	2000
611	CONTAMINATED SOILS FROM SITE CLEAN-UP	1.75
	Grand Total	1.75

No results for California Waste Codes, as a Transporter 1, for EPA-ID: CAC001479328
No results for California Waste Codes, as a Transporter 2, for EPA-ID: CAC001479328
No results for California Waste Codes, as a TSDF, for EPA-ID: CAC001479328
No results for California Waste Codes, as a Alternate TSDF, for EPA-ID: CAC001479328
Results for RCRA, as a Generator, for EPA-ID: CAC001479328

RCRA	Description	2000
	Blank/Unknown	1.75
	Grand Total	1.75

No results for RCRA, as a Transporter 1, for EPA-ID: CAC001479328
No results for RCRA, as a Transporter 2, for EPA-ID: CAC001479328
No results for RCRA, as a TSDF, for EPA-ID: CAC001479328
No results for RCRA, as a Alternate TSDF, for EPA-ID: CAC001479328

Department of Toxic Substances Control

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Governor

EPA ID PROFILE

Map

ID Number:	CAC002888702	**Status:**	INACTIVE
Name:	CALTRANS, DISTRICT 4 ENVIRONMENTAL	**Inactive Date:**	3/9/2017 3:00:28 AM
County:	ALAMEDA	**Record Entered:**	12/7/2016 1:35:15 PM
NAICS:	N/A	**Last Updated:**	3/9/2017 3:00:28 AM

	Name	Address	City	State	Zip Code	Phone
Location	CALTRANS, DISTRICT 4 ENVIRONMENTAL	800 CEDAR STREET	OAKLAND	CA	94607	
Mailing		111 GRAND AVENUE	OAKLAND	CA	94612	
Owner	MISAEL CORDIS	111 GRAND AVENUE	OAKLAND	CA	94612	5102866481
Operator/Contact	MISAEL CORDIS	111 GRAND AVENUE	OAKLAND	CA	94612	5102866481

Based Only Upon ID Number: **CAC002888702**

Calif. Manifests?	Non Calif. Manifests?	Transporter Registration?
N/A	N/A	N/A

California and Non California Manifest Tonnage Total and Waste Code by Year Matrix by Entity Type (if available) are on the next page

Calif. Manifest Counts and Total Tonnage

No Records Found

Non California Manifest Total Tonnage

No Records Found

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Report Generation Date: 03/25/2019

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Jared Blumenfeld
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EPA ID PROFILE

Map

ID Number:	CAL000018992	**Status:**	INACTIVE
Name:	WALKER GREG	**Inactive Date:**	6/30/1995 12:00:00 AM
County:	ALAMEDA	**Record Entered:**	11/14/1989 12:00:00 AM
NAICS:	N/A	**Last Updated:**	7/10/2001 12:00:00 AM

	Name	Address	City	State	Zip Code	Phone
Location	WALKER GREG	800 CEDAR ST	OAKLAND	CA	946070000	
Mailing		800 CEDAR ST	OAKLAND	CA	946070000	
Owner	--	--	--	99	--	0000000000
Operator/Contact	UNDELIVERABLE PER 95 FEES FORM	MB	--	99	--	--

Based Only Upon ID Number: **CAL000018992**

Calif. Manifests?	Non Calif. Manifests?	Transporter Registration?
N/A	N/A	N/A

California and Non California Manifest Tonnage Total and Waste Code by Year Matrix by Entity Type (if available) are on the next page

Calif. Manifest Counts and Total Tonnage

No Records Found

Non California Manifest Total Tonnage

No Records Found

Report Generation Date: 03/25/2019

Jared Blumenfeld
Secretary for
Environmental Protection

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Gavin Newsom
Governor

EPA ID PROFILE

Map

ID Number:	CAR000011692	**Status:**	INACTIVE
Name:	CALTRANS	**Inactive Date:**	6/30/1998 12:00:00 AM
County:	ALAMEDA	**Record Entered:**	6/20/1996 12:00:00 AM
NAICS:	N/A	**Last Updated:**	7/6/2010 11:09:30 AM

	Name	Address	City	State	Zip Code	Phone
Location	CALTRANS	800 CEDAR ST	OAKLAND	CA	946070000	
Mailing		PO BOX 23360	OAKLAND	CA	946232336	
Owner	CALTRANS	PO BOX 23360	OAKLAND	CA	946232336	5102865651
Operator/Contact	CALTRANS	INACT PER 98VQ FINAL NOTICE	OAKLAND	CA	946232336	5102865651

Based Only Upon ID Number: **CAR000011692**

Calif. Manifests?	Non Calif. Manifests?	Transporter Registration?
N/A	N/A	N/A

California and Non California Manifest Tonnage Total and Waste Code by Year Matrix by Entity Type (if available) are on the next page

Calif. Manifest Counts and Total Tonnage

No Records Found

Non California Manifest Total Tonnage

No Records Found

The Department of Toxics Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

Report Generation Date: 03/25/2019

P&D ENVIRONMENTAL, INC.
55 Santa Clara Avenue, Suite 240
Oakland, CA 94610
(510) 658-6916

February 14, 2019
Report 0772.R4

Mr. Jamie Hiteshew
Urban Designs, LLC
1201 Pine Street, Suite 151
Oakland, CA 94607

SUBJECT: LIMITED SUBSURFACE INVESTIGATION REPORT
(S1 Through S9, GW3 Through GW11, and SG4 Through SG20)
RO Number 0003269
The Phoenix
801 Pine Street
Oakland, CA

Dear Mr. Hiteshew:

P&D Environmental, Inc. (P&D) has prepared this report documenting a limited subsurface investigation of soil, soil gas and groundwater performed at 801 Pine Street in Oakland, California (historically known as 800 Cedar Street, however Cedar Street no longer exists). Historical documents have also identified the site address as 800 Pine Street.

The purpose of the investigation was to evaluate the property in preparation for site development for the presence of near-surface lead concentrations in soil and for Volatile Organic Compounds (VOCs) that were historically detected at the subject site. The work was performed in accordance with a March 23, 2018 Limited Subsurface Investigation Work Plan (document 0772.W2) prepared by P&D, a May 15, 2018 Limited Subsurface Investigation Work Plan Addendum (document 0772.W2A) prepared by P&D, a May 22, 2018 Alameda County Department of Environmental Health (ACDEH) letter approving the work plan and work plan addendum, and subsequent discussions during meetings with the ACDEH on September 13, 2018 and November 7, 2018.

A total of nine boreholes designated as S1 through S9 were drilled on June 1, 2018 to a depth of 5.0 feet below the ground surface (bgs) for soil sample collection for shallow soil lead evaluation. Seven boreholes designated as GW3 through GW9 were hand augered on May 31, 2018 to a depth of 11.5 feet bgs and two additional boreholes designated as GW10 and GW11 were hand augered on October 13, 2018 for groundwater grab sample collection for VOC evaluation and for the evaluation of metals in groundwater at selected locations. Additionally, six soil gas wells, designated as SG4 through SG9 were installed at the site on May 24, 2018, five soil gas wells designated as SG10 through SG14 were installed on October 13, 2018, and an additional six soil gas wells, designated as SG15 through SG20 were installed on November 19, 2018 each to a depth of 7.0 feet bgs with the collection of soil gas samples from soil gas wells on the following dates:

- June 4 and 5, 2018 soil gas wells SG6 through SG9.
- September 6, 2018 soil gas wells SG4 and SG5. Based on the presence of water in soil gas wells SG4 and SG5 during the June 2018 sampling event, soil gas samples were not collected from these two soil gas wells.
- October 17 and 18, 2018soil gas wells SG2, SG4, SG5, SG6, and SG10 through SG14
- December 10 and 15, 2018 soil gas wells SG15 through SG18, and SG20. Based on the presence of water in soil gas wells SG10, SG11 and SG19 during the December 2018 sampling event, soil gas samples were not collected from these soil gas wells.

A Site Location Map is attached as Figure 1 and Figures 2 through 9 show detected VOC, petroleum, lead, and metals concentrations for historical and the current investigation. All work was performed under the direct supervision of a professional geologist.

BACKGROUND

The property is presently a vacant lot that is entirely covered with a concrete slab. The property is presently divided into four parcels (see Figure 2) and is presently scheduled for residential development beginning with development at Parcel 1.

A search of the State Water Resources Control Board's (SWRCB) Geotracker website lists the subject site address as 888 Cedar Street and as an active Leaking Underground Storage Tank (LUST) site. There are no documents associated with the Geotracker case for the subject site, except for a directive letter from the Alameda County Department of Environmental Health (ACDEH) dated July 3, 2008 outlining Geotracker upload requirements for the site.

A search of the ACDEH Local Oversight Program's (LOP) website shows various miscellaneous historical documents and correspondence including the following documents:

- Preliminary Endangerment Assessment (PEA) Volume II for 800 Cedar Street dated November 1993 and prepared by On-Site Technologies (OST),
- Underground Storage Tank Closure Report for Cypress "B" Freeway Reconstruction Project - Phoenix 800 Area "T" dated November 27, 1995 and prepared by OGISO Environmental.

Review of the November 1993 PEA shows that OST reports that the site is located along a portion of the then proposed reconstruction of the I-880 Cypress structure by the California Department of Transportation (Caltrans). The original Cypress structure was demolished following its collapse during the Loma Prieta Earthquake in 1989. Additionally, the PEA identifies the following company names and past site activities:

- The Dunn Cracker Co. from approximately 1889 to 1902,
- California Bedding & Upholstery Co. from approximately 1902 to 1912,
- A soap factory from some period of time between 1912 and 1931,
- California Fireworks from approximately 1923 to 1927,
- Independent Iron Works from 1924 to approximately 1960,

- Pine Iron Works from some unknown time until 1990.
- J&A Machine shop from 1985 through at least the date of the PEA.
- Phoenix Iron Works from approximately 1970 through at least the date of the PEA.
- Michael Bondi Metal Design from 1985 through at least the date of the PEA.
- Cypress Auto Parts from 1970 through at least the date of the PEA.
- Ivan's Auto Body, Unknown Plastic Bag Co., Vennell Steel, and Terminal Manufacturing were located at the subject site at unknown dates and for unknown durations.

A search of the Department of Toxic Substances Control (DTSC) Envirostor website shows that the site is listed as a Voluntary Cleanup site located at 800 Cedar Street and as an Inactive open case as of September 3, 2010. The Envirostor summary page for the site lists only diesel as a potential contaminant of concern and only soil for a potentially impacted media. The Envirostor summary page also states that the site is part of the Cypress Freeway Reconstruction Project as well as having been historically used as an iron works plant that occupied the entire block bounded by Shorey, 9th, Pine, and Cedar (no longer exists) Streets. When the iron works plant went out of business, the building was subdivided into 5 bays and subsequently leased to commercial tenants including machine shops, iron works, auto parts dismantlers, and other manufacturing. The subject site building is reported to have been demolished in July 1995. The former location of Cedar Street (west side of subject site) is shown on Figure 2.

Envirostor also references the approval of proposed excavation of 104 cubic yards of soil on January 13, 1998 and the last available activity listed is dated February 27, 2012 and states that sampling activities were complete and that results were expected in 60 days. Among the documents on Envirostor were the following:

- Site Investigation Report for Highway 880, Cypress Reconstruction - Area 4 dated August 28, 1992 and prepared by Geo/Resource Consultants, Inc.
- Sampling and Analysis Plan Phase II Soil Investigation for 800 Cedar Street dated July 14, 2011 and prepared by Northgate Environmental Management, Inc. (Northgate).

Other documents obtained and reviewed by P&D are as follows:

- Site Investigation Report for 800 Cedar Street dated March 8, 2000 and prepared by IT Corporation,
- Phase II Soil Investigation Report for 800 Cedar Street dated November 9, 2011 and prepared by Northgate,
- Soil Stockpile Sampling Report for 800 Cedar Street dated December 31, 2013 and prepared by Geocon Consultants, Inc.

P&D's September 5, 2017 Limited Subsurface Investigation Report (document 0772.R1) documents the installation and sampling of soil gas wells SG1 through SG3 and the collection of two groundwater grab samples designated GW1 and GW2 at the site during August 2017.

Historical investigation sample results were summarized by P&D in a December 1, 2017 Soil and Groundwater Management Plan (SGMP) for the site. Soil, groundwater, and soil gas have been impacted at the Site from historical Site use and potentially from off-site sources. Tabulated results of analytical data with figures showing the sample collection locations are provided in Appendix B of P&D's December 1, 2017 SGMP. Appendix A of the SGMP also contains figures that summarize contaminants historically detected at concentrations exceeding San Francisco Bay Regional Water Quality Control Board (SFRWQCB) February 2016 revision 3 Tier 1 screening levels.

FIELD ACTIVITIES

Prior to performing field activities, drilling permits W2018-0430, W2018-0431, and W2018-1010 were obtained from the Alameda County Public Works Agency (ACPWA), permits were obtained from the City of Oakland for work in the public right-of-way, site access was arranged, the drilling locations were marked with white paint, Underground Service Alert was notified for underground utility location, a health and safety plan was prepared, and notification of the drilling dates was provided to the ACDEH, ACPWA, and the City of Oakland.

Continuous Coring and Soil Sample Collection

P&D personnel oversaw drilling at locations S1 through S9 on June 1, 2018 for the collection of shallow soil samples to further evaluate the presence and vertical extent of lead concentrations in soil at the subject site. A Site Aerial Photograph showing lead concentrations in historical soil samples is attached with this report as Figure 2 and a Site Aerial Photograph showing lead concentrations in soil samples collected from boreholes S1 through S9 is attached with this report as Figure 3.

All drilling was performed by VTS Drilling LLC of Hayward, California (VTS) using Geoprobe dual tube direct push methods with a Macrocore barrel sampler lined with transparent PVC sleeves. Boreholes S1 through S9 were each drilled to a total depth of 5.0 feet bgs.

The soil from the boreholes was logged in the field in accordance with standard geologic field techniques and the Unified Soil Classification System (USCS), and was evaluated with a Photoionization Detector (PID) equipped with a 10.6 eV bulb that was calibrated with a 100 parts per million (ppm) isobutylene standard. The soil was also evaluated for other evidence of contamination such as odors, staining, and discoloration. No elevated PID values, odors, staining, or discoloration were detected in the boreholes. Copies of the boring logs for boreholes S1 through S9 are attached with this report in Appendix A.

Groundwater was not encountered during the drilling of boreholes S1 through S9. Soil samples were collected from boreholes S1 through S9 by cutting the Macrocore barrel sampler PVC liner in 6-inch long sections and sequentially covering the ends of the sections of PVC liner with Teflon sheets and plastic endcaps.

All of the boreholes were sampled at depths of 0.5, 1.0, 2.0, and 3.0 feet bgs. Following evaluation and collection the soil samples were labeled and placed into a cooler pending delivery to the laboratory. Chain of custody procedures were observed for all sample handling.

Hand Augering and Groundwater Sample Collection

P&D personnel oversaw hand augering at locations GW3 through GW9 on May 31, 2018 and at locations GW10 and GW11 on October 13, 2018, (see Figures 4 through 7) for the collection of groundwater grab samples to evaluate the presence of VOCs in groundwater and metals at specific locations in groundwater at the subject site. All hand augering was performed by VTS using a 2.75-inch outside diameter hand auger. Boreholes GW3 through GW9 were all hand augered to a total depth of 11.5 feet bgs and boreholes GW10 and GW11 were hand augered to a total depth of 10.0 feet bgs.

Groundwater was first encountered in boreholes GW3, GW4, GW5, GW6, GW7, GW8, GW9, GW10, and GW11 at depths of approximately 9.5, 9.5, 9.5, 11.0, 8.5, 9.0, 9.0, 9.0, and 9.0 feet bgs, respectively. Following verification of the presence of groundwater in each borehole a temporary 1-inch diameter slotted PVC pipe was placed into the borehole. One groundwater grab sample was collected from each of the boreholes using new ¼-inch outside diameter polyethylene tubing and a peristaltic pump with silicone tubing in the pump rollers. The sample was discharged directly from the discharge tubing into 40-milliliter Volatile Organic Analysis (VOA) vials that contained hydrochloric acid and also into unpreserved 1-liter amber glass containers which all were sealed with Teflon-lined screw caps. Groundwater from boreholes GW3 and GW4 was also collected into unpreserved 500 milliliter (mL) HDPE bottles for metals analysis. The VOA vials were overturned and tapped to ensure that no air bubbles were present, and the bottles were then labeled and transferred to a cooler with ice until they were transported to the laboratory. Chain of custody procedures were observed for all sample handling.

The soil from the boreholes was logged in the field in accordance with standard geologic field techniques and the USCS, and was evaluated with a PID equipped with a 10.6 eV bulb that was calibrated with a 100 ppm isobutylene standard. The soil was also evaluated for other evidence of contamination such as odors, staining, and discoloration. No elevated PID values, odors, staining, or discoloration were detected in the boreholes. The shallowest depth at which groundwater was subsequently encountered in boreholes GW3, GW4, GW5, GW6, GW7, GW8, GW9, GW10, and GW11 prior to grouting the boreholes was at depths of 6.3, 7.0, 6.7, 6.9, 6.8, 6.8, 6.9, 9.4, and 9.4 feet bgs, respectively. Copies of the boring logs for boreholes GW3 through GW11 are attached with this report in Appendix A. Boreholes GW3 through GW9 were grouted on May 31, 2018 and boreholes GW10 and GW11 were grouted on October 13, 2018 with neat cement using the temporary PVC casing as a tremie pipe.

All drilling and sampling equipment was cleaned with an Alconox solution followed by a clean water rinse prior to use in each borehole, and all temporary PVC casing and tubing used for sample collection was new and unused. All soil and rinse water generated during subsurface investigation was stored in labeled 55-gallon drums at the site pending characterization and proper disposal.

Soil Gas Well Construction and Soil Gas Sample Collection

Six soil gas wells, designated as SG4 through SG9 were constructed on May 24, 2018; five soil gas wells, designated as SG10 through SG14 were constructed on October 13, 2018; and six soil gas wells, designated as SG15 through SG20 were constructed on November 19, 2018. Soil gas samples were collected from soil gas wells SG6 through SG9 on June 4 and 5, 2018, from soil gas wells SG4 and SG5 on September 6, 2018, from soil gas wells SG2, SG4, SG5, SG6, SG10 through SG14 on October 17 and 18, 2018, and from SG15 through SG18 and SG20 on December 10 and 15, 2018 using shrouds with helium tracer gas in accordance with procedures recommended in the following Department of Toxic Substances Control (DTSC) documents:

- July 2015 Advisory - Active Soil Gas Investigations.
- August 2015 - FAQ for the 2012 Active Soil Gas Investigations Advisory.
- October 2011 - Vapor Intrusion Guidance.
- October 2011 - Vapor Intrusion Mitigation Advisory.

The boreholes for the soil gas wells were each drilled to a depth of 7.0 feet bgs at locations SG4 through SG20 (see Figures 8 and 9) using a 3.5-inch outside diameter hand auger. The soil from the boreholes was logged in the field in accordance with standard geologic field techniques and the USCS, and was evaluated with a PID equipped with a 10.6 eV bulb that was calibrated with a 100 ppm isobutylene standard. The soil was also evaluated for other evidence of contamination such as odors, staining, and discoloration. No elevated PID values, odors, staining, or discoloration were detected in any of the boreholes.

Based on the presence of groundwater in the initial hand augered soil gas borehole (drilled at proposed location SG6 identified in the work plan), the initial borehole was designated as SG6A and no soil gas well was constructed in the borehole. An alternate borehole designated as SG6 was hand augered at a nearby location in an effort to determine if the groundwater encountered in the first borehole was localized or related to a buried utility, and a soil gas well designated as SG6 was constructed in the alternate borehole.

Groundwater was not encountered during hand augering in soil gas well boreholes SG4, SG5, and SG8 through SG20, and was encountered during hand augering in soil gas well boreholes SG6, SG6A (no soil gas well was constructed in borehole SG6A), and SG7 at depths of 6.7, 5.0, and 6.8 feet bgs, respectively. The shallowest depth at which groundwater was subsequently encountered in soil gas well boreholes SG4, SG5, SG6, SG6A, SG7, SG8 and SG9 was 5.5, 5.4, 5.9, 5.7, 5.6, 6.1 and 6.1 feet bgs, respectively. Copies of the boring logs for the soil gas well boreholes are attached with this report as Appendix A.

Each soil gas well was constructed with a sand filter pack in the bottom of the borehole consisting of #2/12 CEMEX sack sand between the depths of 7.0 and 5.0 feet bgs. A 0.250-inch outside diameter (0.187-inch inside diameter) Teflon tube measuring 7.0 feet in length with a HDPE filter at the bottom of the tube was placed in the center of the borehole during placement of the sand so that the HDPE filter. Based on the shallow depth of groundwater encountered in the soil gas well boreholes the HDPE filter was placed at a depth of 5.5 feet bgs. The annular space above the sand was filled with hydrated bentonite to a height of 0.5 feet above the top of the sand, and the remaining borehole annular space was filled with neat cement to approximately 0.5 feet below the ground surface. The top of the tubing for each soil gas well was enclosed with a Swagelok nut and plug, and the top of each soil gas well was enclosed in a well box with a lid secured with bolts.

Following construction, the soil gas wells were not sampled for a minimum of 48 hours. Additionally, not more than 0.5 inches of precipitation occurred during the five days prior to the sampling dates of June 4 and 5, 2018, September 6, 2018, October 17 and 18, 2018 and December 15, 2018 (see Appendix C).

Soil gas samples were collected using a manifold that was enclosed in a shroud provided by the laboratory. A helium tracer gas was introduced and maintained at a concentration of approximately 20 percent in the shroud during soil gas well purging and sampling in accordance with procedures identified in Appendix B. A manifold in the shroud connected the soil gas well to a well purging source (vacuum pump) and to a sampling Summa canister. The manifold was isolated with valves from the soil gas well, the purging source, and from the sampling Summa canister. Different valves on the manifold were opened during different operations associated with purging and sampling. A flow restrictor located in the manifold limited air flow from the soil gas well into the manifold at a nominal rate of 150 cubic centimeters (cc) per minute. The calculated purge volume for the soil gas wells is provided in Appendix B. Vacuum gages in the manifold on each of the soil gas side of the flow restrictor and on the sampling Summa canister side of the flow restrictor allowed vacuum to be monitored in the soil gas well and in the manifold during soil gas sample collection. An opening in the bottom of the shroud allowed the shroud to cover the soil gas well while still allowing access to the soil gas well through the bottom of the shroud.

The soil gas samples collected on June 4 and 5, 2018, September 6, 2018, and October 17 and 18, 2018 were collected in accordance with the following documents.

- July 2015 DTSC Active Soil Gas Investigations Advisory Appendix C Quantitative Leak Testing Using a Tracer Gas.
- September 2017 Enthalpy Analytical Field Guide for Use of the Helium Shrouds (see Appendix B).

The soil gas samples collected on December 10 and 15, 2018 were collected in accordance with the following documents.

- July 2015 DTSC Active Soil Gas Investigations Advisory Appendix C Quantitative Leak Testing Using a Tracer Gas.
- Standard Operating Procedures: MAI Helium Shroud During Soil Gas Sampling for Quantitative Leak Detection (see Appendix B).

The soil gas samples were collected in the following manner. A new shroud with a new soil gas sampling manifold with a 1-liter Summa sampling canister for each location was assembled in the shroud. At the time that the sampling manifold was assembled, the vacuum for the sample canister was verified with a vacuum gauge and recorded. Duplicate samples were collected on each of the three sample collection events in a shroud with a manifold that was constructed for the simultaneous collection of two soil gas samples in the same shroud.

Because the laboratory provided pre-assembled manifolds in shrouds with a vacuum for the June 4 and 5, 2018, September 6, 2018, and October 17 and 18, 2018 soil gas sampling events, it was not necessary to perform a shut in test prior to soil gas sampling. Shut in tests were performed for the manifold and sampling Summa assemblies for the December 10 and 15, 2018 sampling event. Following review of the manifold vacuum gage to verify that no unacceptable leaks were present in the manifold, a helium tracer gas was introduced into the shroud at a concentration of approximately 20 percent beginning a minimum of 5 minutes before purging the soil gas well. A default of three purge volumes of the tubing and filter pack were purged prior to sample collection. The purge time was calculated using a nominal flow rate provided by the manifold flow controller of 150 cc per minute. The shroud tracer gas concentration was monitored with a continuously operating helium detector and maintained at a concentration of approximately 20 percent and recorded during purging for the June 4 and 5, 2018, September 6, 2018, and October 17 and 18, 2018 soil gas sampling events. The shroud helium concentration was periodically monitored during the December 10 and 15, 2018 soil gas sampling event by using a syringe to draw shroud air through a helium detector .

An in-line helium detector located between the shroud and the vacuum source used for purging was monitored and recorded during purging to determine if the helium tracer gas was detected in the manifold during purging. No elevated helium concentrations were detected during purging, indicating that no leaks were detected during the purging process.

Following the completion of the soil gas well purging, the valve to the purge source was closed and the valve to the 1-liter Summa canister was opened for sample collection. The shroud tracer gas concentration was maintained at a concentration of approximately 20 percent and monitored as described above. Once the vacuum for the sample canister valve had decreased to 5 inches of mercury, the sample canister valve was closed. The pressure gage on the inlet side of the flow controller was monitored during sample collection to ensure that the vacuum applied to the soil gas well did not exceed 100 inches of water column. Vacuum did not exceed 100 inches of water column at any of the locations where soil gas samples were collected. During the June 4 and 5, 2018 soil gas sampling event the process was then repeated for soil gas sample collection using a second 1-liter Summa canister with the second soil gas sample identified by the soil gas well number followed by the letters REP based on the laboratory requiring a replicate sample for nitrogen analysis.

Following soil gas sample collection, a PID was connected to the soil gas well tubing to obtain a preliminary field value for the sample collection location. The soil gas Summa canister samples were stored in a box and promptly shipped to the laboratory for extraction and analysis. Chain of custody procedures were observed for all sample handling. Because of the presence of water in soil gas wells, soil gas samples were not collected at locations SG4 and SG5 during the June 4 and 5, 2018 soil gas sampling event, and were not collected from locations SG10, SG11, and SG19 during the December 10 and 15, 2018 soil gas sampling event. Measurements of vacuums, purging and equilibration time intervals, helium shroud concentrations, in-line helium detector readings during purging, and PID readings following soil gas sample collection were recorded on Soil Gas Sampling Data Sheets (see Appendix B).

All hand augering equipment was cleaned with an Alconox solution wash followed by a clean water rinse prior to use at each location. New Teflon tubing and a new filter were used for construction of each soil gas well. Clean, unused vacuum gages and a stainless steel sampling manifold were used at each sample collection location. All soil and rinse water generated during soil gas well construction was stored in 55-gallon drums at the site and labeled pending characterization and proper disposal.

Investigation-Derived Waste

All soil and rinse water generated during subsurface investigation was stored in labeled 55-gallon drums at the site pending characterization and proper disposal.

GEOLOGY AND HYDROGEOLOGY

Review of regional geologic maps from U. S. Geological Survey Professional Paper 943, "Flatland Deposits - Their Geology and Engineering Properties and Their Importance to Comprehensive Planning," by E. J. Helley and K. R. Lajoie, 1979, indicates that the subject site is underlain by Pleistocene beach and dune sand deposits (Merrit Sand) (Qps), which is described as loose well-sorted fine to medium sand. Immediately to the west of the western property boundary the subsurface materials are identified as Bay Mud (Qhbm), which is described as unconsolidated water-saturated dark plastic carbonaceous clay and silty clay.

The subsurface materials encountered in boreholes S1 through S9, GW3 through GW11, and SG4 through SG20 consisted of silty sand and silty clayey sand to the maximum depths explored of 11.5 feet bgs. Geologic cross sections for the site are provided in P&D's March 23, 2018 Limited Subsurface Investigation Work Plan (document 0772.W2).

Groundwater was not encountered during drilling in boreholes S1 through S9 or during hand augering boreholes SG4, SG5, SG8, SG9, and SG15 through SG20. Groundwater was first encountered during hand augering in boreholes GW3, GW4, GW5, GW6, GW7, GW8, GW9, GW10, and GW11 at depths of 9.5, 9.5, 9.5, 11.0, 8.5, 9.0, 9.0, 9.0, and 9.0 feet bgs, respectively. Groundwater was not encountered during hand augering in soil gas well boreholes SG4, SG5, and SG8 through SG14, and was encountered during hand augering in soil gas well boreholes SG6, SG6A, and SG7 at depths of 6.7, 5.0, and 6.8 feet bgs, respectively. The shallowest depth at which groundwater was subsequently encountered in boreholes GW3, GW4, GW5, GW6, GW7, GW8, GW9, GW10, and GW11 was at depths of 6.3, 7.0, 6.7, 6.9, 6.8, 6.8, 6.9, 9.0, and 9.4 feet bgs, respectively. The shallowest depth at which groundwater was subsequently encountered in soil gas well boreholes SG4, SG5, SG6, SG6A (no soil gas well was constructed in borehole SG6A), SG7, SG8 and SG9 was 5.5, 5.4, 5.9, 5.7, 5.6, 6.1 and 6.1 feet bgs, respectively.

Review of Figure 1 shows that the ground surface elevation at the site is approximately 11 feet above sea level. The San Francisco Bay is located approximately 3,800 feet to the north and approximately 5,500 feet to the west of the subject site, and the Oakland Inner Harbor which is connected to the San Francisco Bay is located approximately 5,500 feet to the south of the subject site. Based on site vicinity topography and the proximity of surface water bodies the groundwater flow direction at the site is presumed to be westerly towards the San Francisco Bay.

WEATHER

No precipitation total exceeding 0.5 inches occurred for the 5 days preceding any of the soil gas sampling events or occurred on the days of any of the soil gas sampling events.

Weather data, including precipitation and barometric pressure for May 21 through June 20, 2018, August 23 through September 20, 2018, October 3 through November 1, 2018, and December 1 through 29, 2018, including the dates of soil gas sample collection, are provided in Appendix C.

The weather station is located north of the intersection of Marshall Street and Peabody Lane in Oakland at an elevation of 36 feet above sea level, approximately 2.7 miles to the north-northeast of the subject site. The subject site is located at an elevation of approximately 11 feet above sea level. An internet link to the weather station information is provided in Appendix C.

LABORATORY ANALYSIS

All of the soil and groundwater samples were analyzed at McCampbell Analytical, Inc. (McCampbell) in Pittsburg, California.

The soil samples were analyzed for total lead using EPA Method 6020.

The groundwater samples were analyzed for the following analytes:

- Total Petroleum Hydrocarbons as Gasoline (TPH-G) using EPA Method 5030B in conjunction with EPA Methods 8021B and modified 8015B.
- Total Petroleum Hydrocarbons as Diesel (TPH-D), Total Petroleum Hydrocarbons as Motor Oil (TPH-MO), and Total Petroleum Hydrocarbons as Bunker Oil (TPH-BO) using EPA Method 3510C in conjunction with EPA Method 8015B.
- VOCs including the petroleum compounds methyl-tert-butyl ether (MTBE), benzene, toluene, ethylbenzene, and xylenes (MBTEX), and naphthalene, and Halogenated Volatile Organic Compounds (HVOCs) including tetrachloroethene (PCE) and trichloroethene (TCE) using EPA Method 5030B in conjunction with EPA Method 8260B.
- The groundwater samples collected from boreholes GW3 and GW4 were additionally analyzed for CAM 17 metals using EPA Method E200.8.

The soil gas samples collected on December 10 and 15, 2018 were analyzed at McCampbell for the following analytes:

- VOCs including the petroleum compounds MBTEX and naphthalene, and HVOCs including PCE and TCE using EPA TO-15.
- Oxygen, Carbon Dioxide, and the tracer gas Helium using ASTM D1946-90.

All of the other soil gas samples were analyzed at Enthalpy Analytical in Berkeley, California (Enthalpy) for the following analytes:

- VOCs, including BTEX, PCE, TCE, cis-1,2-Dichloroethene (cis-1,2-DCE) , trans-1,2-Dichloroethene (trans-1,2-DCE), and vinyl chloride using EPA Method TO-15.
- Oxygen, Carbon Dioxide, and the tracer gas Helium using ASTM D1946-90.

Additionally, the soil gas samples collected on June 4, 2018 were analyzed at Enthalpy for Gasoline Range Organics (C6-C12) using EPA Method TO-3, and for nitrogen using ASTM D1946-90.

The shallow soil sample laboratory analytical results are summarized in Table 1, the borehole groundwater sample laboratory analytical results for Petroleum and VOCs are summarized in Table 2A, the borehole groundwater sample laboratory analytical results for Metals are summarized in Table 2B, the soil gas sample HVOC analytical results are summarized in Table 3A and non-HVOC analyte results are summarized in Table 3B. Copies of the laboratory analytical reports and chain of custody documentation for all of the samples are attached with this report in Appendix D.

DISCUSSION AND RECOMMENDATIONS

All known historical lead soil sample results are shown on Figure 2. Review of Table 1 shows that below a depth of 0.5 feet bgs all of the detected lead concentrations from boreholes S1 through S9 were below the SFRWQCB January 2019 residential soil Environmental Screening Level (ESL) value for lead of 80 milligrams per kilogram (mg/kg). Review of the boring logs in Appendix A for borings S1 through S9 shows that the elevated lead concentrations are limited to dark brown material that overlies brown silty sand.

Review of Table 2A shows that TPH-G, TPH-D, TPH-MO, TPH-BO, and VOCs were not detected in any of the groundwater samples from boreholes GW3 through GW11 with the following exceptions:

- TCE in sample GW5 at a concentration of 3.4 micrograms per Liter (ug/L).
- MTBE in sample GW7 at a concentration of 3.9 ug/L.
- PCE in sample GW10 at a concentration of 5.1 ug/L.
- TPH-D and TCE in sample GW11 detected at concentrations of 76 and 9.3 ug/L, respectively.

Only the detected PCE concentration in sample GW10 and the TCE concentrations in samples GW5 and GW11 exceed their respective SFRWQCB January 2019 Tier 1 groundwater ESL values. Similarly, the same detected PCE and TCE concentrations in GW10 and GW11 exceed their respective SFRWQCB January 2019 Table GW-3 groundwater vapor intrusion human health risk screening levels for groundwater with a residential land use (see Figure 4). Figure 4 also shows all detected analytes from locations GW1 and GW2 that were sampled in 2017. Review of Figure 4 shows that the extent of PCE and TCE in groundwater has been defined. Figure 5 shows all detected VOC groundwater concentrations exceeding SFRWQCB January 2019 Tier 1 groundwater ESL values (none of the petroleum groundwater concentrations at location GW1 exceeded Tier 1 groundwater ESL values).

Review of Table 2B shows that none of the detected metals in groundwater samples GW3 and GW4 exceed their respective SFRWQCB January 2019 Table GW-1 Groundwater Direct Exposure Human Health Screening Level MCL values (see Figure 6). The historical water quality results for metals for samples that were collected in 1999 are not considered to be dissolved metals concentrations (the 1999 groundwater metals results appear to be total metals concentrations) and for this reason are not included on Figure 6.

Review of HVOC soil gas results in Table 3A and the non-HVOC soil gas results in Table 3B for soil gas samples collected from soil gas wells SG4 through SG20 in 2018 shows that the tracer gas helium was not detected in any of the soil gas samples with the exception of 1.1 percent detected in sample SG6 and duplicate SG6-DUP collected on October 17, 2018. The absence of helium in the soil gas samples indicates that atmospheric dilution of the soil gas samples is not a concern. The helium detected in the October 17, 2018 SG6 soil gas samples was equivalent to approximately 5.5 percent of the shroud helium concentration, indicating that these SG6 soil gas samples may have experienced atmospheric dilution. Samples were also collected at location SG6 on June 4, 2018 that did not have detectable tracer gas concentrations, and location SG6 is also surrounded by soil gas wells where soil gas samples were collected that did not have detectable tracer gas concentrations.

Review of Table 3B shows that oxygen was detected in all of the soil gas samples at concentrations ranging from 9.7 to 18 percent. Review of Tables 3A and 3B shows that the only analytes detected in soil gas at concentrations exceeding their respective SFRWQCB January 2019 Tier 1 soil gas ESL values were PCE, TCE and chloroform at the following locations:

- PCE at locations SG2, SG3, SG4, SG6, SG7, SG9, SG10, SG11 and SG12.
- TCE at locations SG2, SG5, and SG6.
- Chloroform at location SG17.

The source of the chloroform is unknown, and is assumed to be related to domestic water supply.

PCE soil gas sample results are shown in Figure 7 and TCE soil gas sample results are shown in Figure 8. Review of Figures 7 and 8 shows that the extent of PCE and TCE in soil gas has been defined for the subject site.

Based on the sample results P&D recommends that a Corrective Action Plan be prepared for development of the site for residential use.

DISTRIBUTION

A copy of this report will be uploaded to GeoTracker.

LIMITATIONS

This report was prepared solely for the use of Urban Designs, LLC. The content and conclusions provided by P&D in this assessment are based on information collected during our investigation, which may include, but not be limited to, visual site inspections; interviews with site owner, regulatory agencies and other pertinent individuals; review of available public documents; subsurface exploration and our professional judgment based on said information at the time of preparation of this document. Any subsurface sample results and observations presented herein are considered to be representative of the area of investigation; however, geological conditions may vary between boreholes and may not necessarily apply to the general site as a whole. If future subsurface or other conditions are revealed which vary from these findings, the newly revealed conditions must be evaluated and may invalidate the findings of this report.

This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information contained herein is brought to the attention of the appropriate regulatory agencies, where required by law. Additionally, it is the sole responsibility of the owner to properly dispose of any hazardous materials or hazardous wastes left onsite, in accordance with existing laws and regulations.

This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. P&D is not responsible for the accuracy or completeness of information provided by other individuals or entities which is used in this report. This report presents our professional judgment based upon data and findings identified in this report and interpretation of such data based upon our experience and background, and no warranty, either express or implied, is made. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur.

Should you have any questions, please do not hesitate to contact us at (510) 658-6916.

Sincerely,

P&D Environmental, Inc.

Paul H. King

Paul H. King
Professional Geologist # 5901
Expires: 12/31/19

PROFESSIONAL GEOLOGIST
PAUL H. KING
No. 5901
STATE OF CALIFORNIA

Attachments:

Table 1 - Summary of Shallow Soil Sample Analytical Results
Table 2A - Summary of Borehole Groundwater Sample Analytical Results - Petroleum and VOCs
Table 2B - Summary of Borehole Groundwater Sample Analytical Results – Dissolved Metals
Table 3A - Summary of Soil Gas Sample Analytical Results - HVOCs
Table 3B - Summary of Soil Gas Sample Analytical Results - Non-HVOCs

Figure 1 - Site Location Map
Figure 2 - Site Aerial Photograph Showing Lead Concentrations in Historical Soil Samples
Figure 3 - Site Aerial Photograph Showing Lead Concentrations in Current Investigation Soil Samples
Figure 4 - Site Aerial Photograph Showing All Detected Petroleum and VOC Concentrations in Groundwater
Figure 5 - Site Aerial Photograph Showing All Detected VOC Concentrations in Groundwater Exceeding Tier 1 Screening Levels
Figure 6 - Site Aerial Photograph Showing All Detected Metals Concentrations in Groundwater
Figure 7 - Site Aerial Photograph Showing PCE in Soil Gas
Figure 8 - Site Aerial Photograph Showing TCE in Soil Gas

Appendix A - Soil Boring Logs
Appendix B - Enthalpy Analytical Field Guide for Use of the Helium Shrouds, Standard Operating Procedures: MAI Helium Shroud During Soil Gas Sampling for Quantitative Leak Detection, Purge Volume Calculations, and Soil Gas Sampling Data Sheets
Appendix C - Weather Information
Appendix D - Laboratory Analytical Reports and Chain of Custody Documentation

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TABLES

Table 1
Summary of Shallow Soil Sample Analytical Results

Sample ID	Sample Collection Date	Sample Collection Depth (ft bgs)	Total Lead
S1-0.5	6/1/2018	0.5	**1,300**
S1-1.0	6/1/2018	1.0	34
S1-2.0	6/1/2018	2.0	2.6
S1-3.0	6/1/2018	3.0	2.2
S2-0.5	6/1/2018	0.5	70
S2-1.0	6/1/2018	1.0	37
S2-2.0	6/1/2018	2.0	9.1
S2-3.0	6/1/2018	3.0	4.9
S3-0.5	6/1/2018	0.5	**2,400**
S3-1.0	6/1/2018	1.0	14
S3-2.0	6/1/2018	2.0	3.5
S3-3.0	6/1/2018	3.0	2.3
S4-0.5	6/1/2018	0.5	**310**
S4-1.0	6/1/2018	1.0	7.9
S4-2.0	6/1/2018	2.0	2.1
S4-3.0	6/1/2018	3.0	2.0
S5-0.5	6/1/2018	0.5	6.0
S5-1.0	6/1/2018	1.0	2.3
S5-2.0	6/1/2018	2.0	2.4
S5-3.0	6/1/2018	3.0	1.9
S6-0.5	6/1/2018	0.5	75
S6-1.0	6/1/2018	1.0	10
S6-2.0	6/1/2018	2.0	5.5
S6-3.0	6/1/2018	3.0	3.9
S7-0.5	6/1/2018	0.5	70
S7-1.0	6/1/2018	1.0	14

Table 1
Summary of Shallow Soil Sample Analytical Results

Sample ID	Sample Collection Date	Sample Collection Depth (ft bgs)	Total Lead
S7-2.0	6/1/2018	2.0	39
S7-3.0	6/1/2018	3.0	3.3
S8-0.5	6/1/2018	0.5	**410**
S8-1.0	6/1/2018	1.0	2.2
S8-2.0	6/1/2018	2.0	2.4
S8-3.0	6/1/2018	3.0	2.1
S9-0.5	6/1/2018	0.5	64
S9-1.0	6/1/2018	1.0	2.8
S9-2.0	6/1/2018	2.0	2.4
S9-3.0	6/1/2018	3.0	1.9
ESL	Soil Residential ESL		80

NOTES:

ft bgs = feet below ground surface.

ND = Not detected.

ESL = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated January 2019, from Table S-1: Soil Direct Exposure Human Health Risk Screening Levels.

Results in bold exceed their respective ESL values.

Results and ESL values reported in milligrams per kilogram (mg/kg),

Table 2A
Summary of Borehole Groundwater Sample Analytical Results - Petroleum and VOCs

Sample ID	Sample Collection Date	TPH-G	TPH-D	TPH-MO	TPH-BO	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	PCE	TCE	Other VOCs by EPA Method 8260B
GW1	8/10/2017	ND<50	63, a,b	120, a,b	130, a,b	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND
GW2	8/11/2017	ND<50	ND<38	ND<82	ND<110	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**2.1**	ND<0.50	All ND
GW3	5/31/2018	ND<50	ND<50	ND<250	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND
GW4	5/31/2018	ND<50	ND<50	ND<250	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND
GW5	5/31/2018	ND<50	ND<50	ND<250	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**3.4**	All ND
GW6	5/31/2018	ND<50	ND<50	ND<250	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND
GW7	5/31/2018	ND<50	ND<50	ND<250	ND<250	3.9	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND
GW8	5/31/2018	ND<50	ND<50	ND<250	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND
GW9	5/31/2018	ND<50	ND<50	ND<250	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND
GW10	10/13/2018	ND<50	ND<50	ND<250	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**5.1**	ND<0.50	All ND
GW11	10/13/2018	ND<50	76, a	ND<250	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**9.3**	All ND
ESL^1		100	100	No Value	No Value	5.0	0.42	40	3.5	20	0.64	1.2	Various
ESL^2		No Value	No Value	No Value	No Value	450	0.42	No Value	3.5	No Value	0.64	1.2	Various
ESL^3		No Value	No Value	No Value	No Value	130,000	14	1,200	3,300	390	58	5.2	Various

NOTES:
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
TPH-D = Total Petroleum Hydrocarbons as Diesel.
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil.
TPH-BO = Total Petroleum Hydrocarbons as Bunker Oil.
MTBE = Methyl tertiary-butyl ether.
VOCs = Volatile Organic Compounds.
PCE = Tetrachloroethene.
TCE = Trichloroethene.
cis-1,2-DCE = cis-1,2-Dichloroethene.
1,1-DCA = 1,1-Dichloroethane.
1,1-DCE = 1,1-Dichloroethene.
1,1,1-TCA = 1,1,1-Trichloroethane.
ft bgs = feet below ground surface.
ND = Not detected.
a = Laboratory Note: Diesel range compounds are significant; no recognizable pattern.
ESL^1 = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated January 2019, from Summary of Groundwater ESLs, GW Tier 1 ESL.
ESL^2 = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated January 2019, from Table GW-3 – Groundwater Vapor Intrusion Human Health Risk Screening Levels. Residential Land Use. Cancer Risk.
ESL^3 = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated January 2019, from Table GW-3 – Groundwater Vapor Intrusion Human Health Risk Screening Levels. Residential Land Use. Non-Cancer Hazard.
Results in bold exceed their respective ESL^1 values.
Underlined results exceed their respective ESL^2 values.
Italicized results exceed their respective ESL^3 values.
Results and ESL values, reported in micrograms per Liter (µg/L), unless otherwise indicated.

Table 2B
Summary of Borehole Groundwater Sample Analytical Results - Dissolved Metals

Sample ID	Sample Collection Date	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
GW3	5/31/2018	ND<0.50	ND<0.50	54	ND<0.50	ND<0.25	2.0	1.3	ND<2.0	ND<0.50	ND<0.050	ND<0.50	3.4	ND<0.50	ND<0.19	ND<0.50	ND<0.50	ND<15
GW4	5/31/2018	ND<0.50	ND<0.50	140	ND<0.50	ND<0.25	3.3	6.8	ND<2.0	ND<0.50	ND<0.050	ND<0.50	15	ND<0.50	ND<0.19	ND<0.50	ND<0.50	28
ESL Basis		MCL	MCL	MCL	Aquatic Habitat	Aquatic Habitat	MCL	Aquatic Habitat	Aquatic Habitat	Aquatic Habitat	Aquatic Habitat	Tapwater Non-cancer	Aquatic Habitat	Aquatic Habitat	Aquatic Habitat	MCL	Aquatic Habitat	Aquatic Habitat
ESL	Groundwater MCL	6.0	10	1,000	4.0	5.0	50	6.0	1,000	15	2.0	100	100	50	100	2.0	50	5,000

NOTES:

Sb = Antimony; As = Arsenic; Ba = Barium; Be = Beryllium; Cd = Cadmium; Cr = Chromium; Co = Cobalt; Cu = Copper; Pb = Lead; Hg = Mercury; Mo = Molybdenum;

Ni = Nickel; Se = Selenium; Ag = Silver; Tl = Thallium; V = Vanadium; Zn = Zinc

ft bgs = feet below ground surface.

ND = Not detected.

-- = Not analyzed.

ESL = Environmental Screening Level. Final MCL Priority Screening Level, by San Francisco Bay Regional Water Quality Control Board, updated January 2019, from Table GW-1: Groundwater Direct Exposure Human Health Risk Screening Levels.

There is no MCL for Vanadium, and the Tapwater Non-cancer Hazard Screeening Level is used.

Results and ESL values reported in micrograms per liter (ug/L), unless otherwise indicated.

Table 3A
Summary of Soil Gas Sample Analytical Results - HVOCs

Sample ID	Land Use	Sample Date	Probe Depth (Feet bgs)	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Trichlorofluoromethane	Dichlorodifluoromethane	Methylene Chloride	1,1,1-TCA	DFA (Tracer Gas)	Percent Shroud (DFA)	Helium (Tracer Gas) (%)	Percent Shroud (Helium)
SG1	Residential	8/14/2017	5.5	ND<6.78	ND<5.37	ND<3.97	NR	ND<2.56	**82.5**	16.3	ND<4.95	ND<3.47	ND<5.46	ND<27,014	0.0	NA	--
SG2	Residential	8/14/2017	5.5	**28.6**	**447**	ND<3.97	NR	ND<2.56	**132**	ND<5.62	ND<4.95	ND<3.47	ND<5.46	ND<27,014	0.0	NA	--
SG2 DUP	Residential	8/14/2017	5.5	**28.2**	**441**	ND<3.97	NR	ND<2.56	**128**	ND<5.62	ND<4.95	ND<3.47	ND<5.46	ND<27,014	0.0	NA	--
SG2	Residential	10/17/2018	6.5	**45**	**570**	ND<4.1	ND<4.1	ND<2.6	NR	NR	NR	NR	NR	NA	--	ND<0.21	0.0
SG3	Residential	8/14/2017	5.5	**42.6**	ND<5.37	ND<3.97	NR	ND<2.56	**14.8**	6.01	ND<4.95	4.27	21.3	ND<27,014	0.0	NA	--
SG4	Residential	9/6/2018	6.5	**4,000**	7.6	ND<4.2	ND<4.2	ND<2.7	ND<5.1	ND<5.9	NR	ND<3.6	ND<5.7	NA	--	ND<0.21	0.0
SG4	Residential	10/17/2018	6.5	**3,000**	ND<17	ND<13	ND<13	ND<8.2	NR	NR	NR	NR	NR	NA	--	ND<0.21	0.0
SG5	Residential	9/6/2018	6.5	7.2	**90**	ND<3.9	ND<3.9	ND<2.5	ND<4.8	ND<5.5	NR	ND<3.4	ND<5.4	NA	--	ND<0.20	0.0
SG5 DUP	Residential	9/6/2018	6.5	7.1	**90**	ND<3.8	ND<3.8	ND<2.5	ND<4.7	ND<5.4	NR	ND<3.4	ND<5.3	NA	--	ND<0.19	0.0
SG5	Residential	10/17/2018	6.5	9.8	**48**	ND<4.1	ND<4.1	ND<2.6	NR	NR	NR	NR	NR	NA	--	ND<0.21	0.0
SG6	Residential	6/4/2018	6.5	**35**	**2,600**	ND<12	ND<12	ND<8.0	NR	NR	NR	NR	NR	NA	--	ND<0.21	0.0
SG6-DUP	Residential	6/4/2018	6.5	**35**	**2,600**	ND<14	ND<14	ND<9.0	NR	NR	NR	NR	NR	NA	--	ND<0.23	0.0
SG6	Residential	10/17/2018	6.5	**29**	**2,100**	ND<8.3	ND<8.3	ND<5.3	NR	NR	NR	NR	NR	NA	--	1.1	5.5
SG6-DUP	Residential	10/17/2018	6.5	**30**	**2,100**	ND<8.1	ND<8.1	ND<5.2	NR	NR	NR	NR	NR	NA	--	1.1	5.5
SG7	Residential	6/4/2018	6.5	**36**	0.64, b	ND<4.5	ND<4.5	ND<2.9	NR	NR	NR	NR	NR	NA	--	ND<0.23	0.0
SG8	Residential	6/5/2018	6.5	4.5, b	ND<6.1	ND<4.5	ND<4.5	ND<2.9	NR	NR	NR	NR	NR	NA	--	ND<0.23	0.0
SG9	Residential	6/5/2018	6.5	**27**	0.23, b	ND<4.2	ND<4.2	ND<2.7	NR	NR	NR	NR	NR	NA	--	ND<0.21	0.0
SG10	Residential	10/18/2018	6.5	**810**	ND<5.0	ND<3.7	ND<3.7	ND<2.4	NR	NR	NR	NR	NR	NA	--	ND<0.19	0.0
SG11	Residential	10/18/2018	6.5	**1,100**	ND<5.6	ND<4.1	ND<4.1	ND<2.6	NR	NR	NR	NR	NR	NA	--	ND<0.21	0.0
SG12	Residential	10/18/2018	6.5	**280**	ND<3.8	ND<4.0	ND<4.0	ND<2.6	NR	NR	NR	NR	NR	NA	--	ND<0.20	0.0
SG13	Residential	10/18/2018	6.5	8.4	ND<4.9	ND<3.6	ND<3.6	ND<2.3	NR	NR	NR	NR	NR	NA	--	ND<0.18	0.0
SG14	Residential	10/18/2018	6.5	ND<6.9	ND<5.5	ND<4.0	ND<4.0	ND<2.6	NR	NR	NR	NR	NR	NA	--	ND<0.20	0.0
SG 15	Residential	12/15/2018	6.5	ND<3.4	ND<2.8	ND<2.0	ND<2.0	ND<1.3	ND<2.4	ND<2.8	ND<2.5	ND<8.8	ND<2.8	NA	--	ND<0.050	0.0
SG 16	Residential	12/15/2018	6.5	ND<3.4	ND<2.8	ND<2.0	ND<2.0	ND<1.3	ND<2.4	ND<2.8	ND<2.5	ND<8.8	ND<2.8	NA	--	ND<0.050	0.0
SG 17	Residential	12/15/2018	6.5	ND<3.4	ND<2.8	ND<2.0	ND<2.0	ND<1.3	**20**	ND<2.8	2.6	ND<8.8	ND<2.8	NA	--	ND<0.050	0.0
SG 18	Residential	12/10/2018	6.5	ND<3.4	ND<2.8	ND<2.0	ND<2.0	ND<1.3	ND<2.4	ND<2.8	ND<2.5	ND<8.8	ND<2.8	NA	--	ND<0.050	0.0
SG 20	Residential	12/15/2018	6.5	ND<3.4	ND<2.8	ND<2.0	ND<2.0	ND<1.3	ND<2.4	ND<2.8	ND<2.5	ND<8.8	ND<2.8	NA	--	ND<0.050	0.0
SG 20 DUP	Residential	12/15/2018	6.5	ND<3.4	ND<2.8	ND<2.0	ND<2.0	ND<1.3	ND<2.4	ND<2.8	ND<2.5	ND<8.8	ND<2.8	NA	--	ND<0.050	0.0
ESL				*15*	*16*	*280*	*2,800*	*0.32*	*4.1*	*No Value*	*No Value*	*34*	*35,000*	*No Value*	*No Value*	*No Value*	*No Value*

Notes:

Feet bgs = Feet Below Ground Surface.
PCE = Tetrachloroethene.
TCE = Trichloroethene.
cis-1,2-DCE = cis-1,2-Dichloroethene.
trans-1,2-DCE = trans-1,2-Dichloroethene.
NA = Not Analyzed.
ND = Not Detected.
NR = Not Reported.
-- = No Value.
b = Laboratory Note: Estimated Value.
ESL = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated January 2019, Soil Gas Tier 1 ESL from Summary of Vapor ESLs.
BOLDED concentrations exceed their respective ESL value.
Results and ESLs in micrograms per cubic meter (µg/m3), unless otherwise indicated.

Table 3B
Summary of Soil Gas Sample Analytical Results - Non-HVOCs

Sample ID	Land Use	Sample Date	Probe Depth (Feet bgs)	TPH-G	Benzene	Toluene	Ethyl-benzene	m,p-Xylenes	o-Xylenes	MEK	Carbon Disulfide	Hexane	DFA (Tracer Gas)	Percent Shroud (DFA)	Helium (Tracer Gas) (%)	Percent Shroud (Helium)	Carbon Dioxide (%)	Carbon Monoxide (%)	Oxygen (%)	Methane (%)
SG1	Residential	8/14/2017	5.5	NA	ND<3.19	4.11	ND<4.34	ND<8.68	ND<4.34	NR	NR	NR	ND<27,014	0.0	NA	--	NA	NA	NA	NA
SG2	Residential	8/14/2017	5.5	NA	ND<3.19	10.6	ND<4.34	ND<8.68	ND<4.34	NR	NR	NR	ND<27,014	0.0	NA	--	NA	NA	NA	NA
SG2 DUP	Residential	8/14/2017	5.5	NA	ND<3.19	10.4	ND<4.34	ND<8.68	ND<4.34	NR	NR	NR	ND<27,014	0.0	NA	--	NA	NA	NA	NA
SG2	Residential	10/17/2018	6.5	NA	ND<3.3	ND<3.9	ND<4.5	ND<4.5	ND<4.5	NR	NR	NR	NA	--	ND<0.21	0.0	1.9	ND<0.21	16	ND<0.21
SG3	Residential	8/14/2017	5.5	NA	ND<3.19	ND<3.77	ND<4.34	ND<8.68	ND<4.34	NR	NR	NR	ND<27,014	0.0	NA	--	NA	NA	NA	NA
SG4	Residential	9/6/2018	5.5	NA	ND<3.4	ND<4.0	ND<4.6	ND<4.6	ND<4.6	17	ND<3.3	ND<3.7	NA	--	ND<0.21	0.0	3.5	NA	15	NA
SG4	Residential	10/17/2018	5.5	NA	ND<10	ND<12	ND<14	ND<14	ND<14	NR	NR	NR	NA	--	ND<0.21	0.0	2.8	ND<0.21	15	ND<0.21
SG5	Residential	9/6/2018	5.5	NA	ND<3.1	ND<3.7	ND<4.3	ND<4.3	ND<4.3	ND<9.7	ND<3.1	ND<3.5	NA	--	ND<0.20	0.0	1.2	NA	17	NA
SG5 DUP	Residential	9/6/2018	5.5	NA	ND<3.1	ND<3.7	ND<4.2	ND<4.2	ND<4.2	ND<9.5	ND<3.0	ND<3.4	NA	--	ND<0.19	0.0	1.2	NA	17	NA
SG5	Residential	10/17/2018	5.5	NA	ND<3.3	ND<3.9	ND<4.5	ND<4.5	ND<4.5	NR	NR	NR	NA	--	ND<0.21	0.0	0.98	ND<0.21	17	ND<0.21
SG6	Residential	6/4/2018	5.5	580	0.64, b	3.2, b	1.2, b	4.9, b	2.9, b	NR	NR	NR	NA	--	ND<0.21	0.0	7.5	NA	9.9	ND<0.21
SG6-DUP	Residential	6/4/2018	5.5	770	0.54, b	2.3, b	1.1, b	5.0, b	2.9, b	NR	NR	NR	NA	--	ND<0.23	0.0	7.4	NA	9.7	ND<0.23
SG6	Residential	10/17/2018	5.5	NA	ND<6.7	ND<7.9	ND<9.1	ND<9.1	ND<9.1	NR	NR	NR	NA	--	1.1	5.5	8.1	ND<0.21	11	ND<0.21
SG6-DUP	Residential	10/17/2018	5.5	NA	ND<6.5	ND<7.7	ND<8.9	ND<8.9	ND<8.9	NR	NR	NR	NA	--	1.1	5.5	8.1	ND<0.20	11	ND<0.20
SG7	Residential	6/4/2018	5.5	110, b	0.16, b	0.42, b	ND<5.0	0.47, b	0.45, b	NR	NR	NR	NA	--	ND<0.23	0.0	2.9	NA	14	ND<0.23
SG8	Residential	6/5/2018	5.5	200, b	0.26, b	1.4, b	0.22, b	0.98, b	0.33, b	NR	NR	NR	NA	--	ND<0.23	0.0	3.3	NA	14	ND<0.23
SG9	Residential	6/5/2018	5.5	ND<440	ND<3.4	0.45, b	0.20, b	0.34, b	0.15, b	NR	NR	NR	NA	--	ND<0.21	0.0	2.3	NA	15	ND<0.21
SG10	Residential	10/18/2018	5.5	NA	ND<3.0	ND<3.5	ND<4.1	6.4	4.9	NR	NR	NR	NA	--	ND<0.19	0.0	2.2	ND<0.19	16	ND<0.19
SG11	Residential	10/18/2018	5.5	NA	ND<3.3.	ND<3.9	ND<4.5	ND<4.5	ND<4.5	NR	NR	NR	NA	--	ND<0.21	0.0	2.6	ND<0.21	15	ND<0.21
SG12	Residential	10/18/2018	5.5	NA	ND<3.3	ND<3.8	ND<4.4	ND<4.4	ND<4.4	NR	NR	NR	NA	--	ND<0.20	0.0	2.4	ND<0.20	15	ND<0.20
SG13	Residential	10/18/2018	5.5	NA	ND<2.9	ND<3.4	ND<3.9	ND<3.9	ND<3.9	NR	NR	NR	NA	--	ND<0.18	0.0	1.7	ND<0.18	16	ND<0.18
SG14	Residential	10/18/2018	5.5	NA	**6.9**	ND<3.8	ND<4.4	ND<4.4	ND<4.4	NR	NR	NR	NA	--	ND<0.20	0.0	2.8	ND<0.20	10	0.82
SG 15	Residential	12/15/2018	5.5	NA	ND<1.6	ND<1.9	ND<2.2	ND<4.4	ND<2.2	ND<75	4.2	ND<18	NA	--	ND<0.050	0.0	5.1	NA	15	NA
SG 16	Residential	12/15/2018	5.5	NA	ND<1.6	ND<1.9	ND<2.2	ND<4.4	ND<2.2	ND<75	ND<1.6	ND<18	NA	--	ND<0.050	0.0	0.82	NA	18	NA
SG 17	Residential	12/15/2018	5.5	NA	ND<1.6	ND<1.9	ND<2.2	ND<4.4	ND<2.2	ND<75	ND<1.6	60	NA	--	ND<0.050	0.0	0.99	NA	17	NA
SG 18	Residential	12/10/2018	5.5	NA	ND<1.6	ND<1.9	ND<2.2	ND<4.4	ND<2.2	ND<75	ND<1.6	ND<18	NA	--	ND<0.050	0.0	8.3	NA	14	NA
SG 20	Residential	12/15/2018	5.5	NA	ND<1.6	ND<1.9	ND<2.2	ND<4.4	ND<2.2	ND<75	4.2	ND<18	NA	--	ND<0.050	0.0	2.6	NA	18	NA
SG 20 DUP	Residential	12/15/2018	5.5	NA	ND<1.6	ND<1.9	ND<2.2	ND<4.4	ND<2.2	ND<75	4.2	ND<18	NA	--	ND<0.050	0.0	2.5	NA	18	NA
ESL				*3,300*	*3.2*	*10,000*	*37*	*Combined = 3,500*		*170,000*	*No Value*	*No Value*	*No Value*	*No Value*	*No Value*	*No Value*	*No Value*	*No Value*	*No Value*	*No Value*

Notes:
Feet bgs = Feet Below Ground Surface.
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
MEK = Methyl Ethyl Ketone (2-Butanone).
NA = Not Analyzed.
ND = Not Detected.
NR = Not Reported.
-- = No Value.
b = Laboratory Note: Estimated Value.
ESL= Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated January 2019, Soil Gas Tier 1 ESL from Summary of Vapor ESLs.
BOLDED concentrations exceed their respective ESL value.
Results and ESLs in micrograms per cubic meter (µg/m3), unless otherwise indicated.

FIGURES

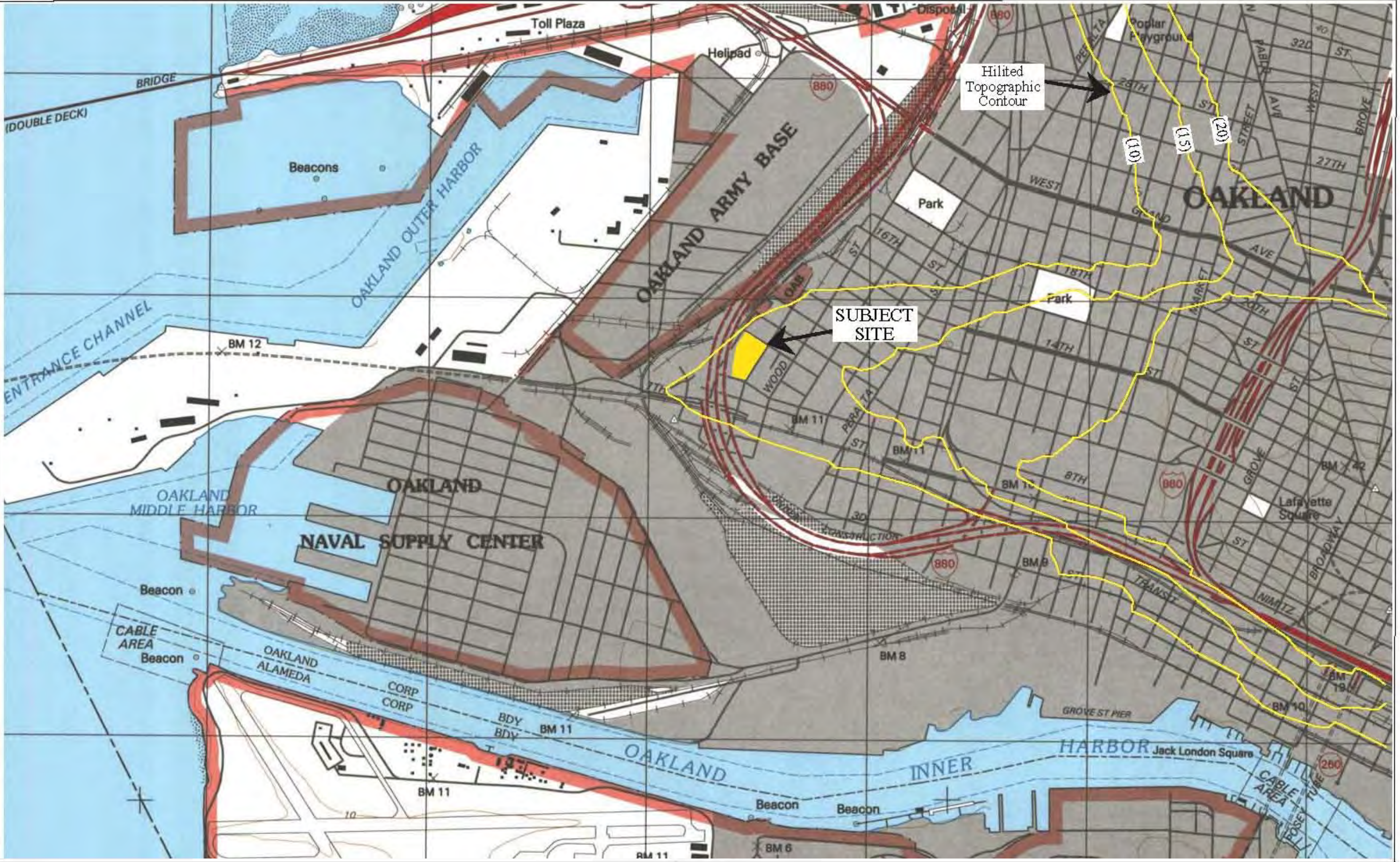


Figure 1
Site Location Map
The Phoenix
801 Pine Street
Oakland, California

Base Map from:
U.S. Geological Survey 7.5-Minute Quadrangle,
Oakland West, California, Map edited 1993

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

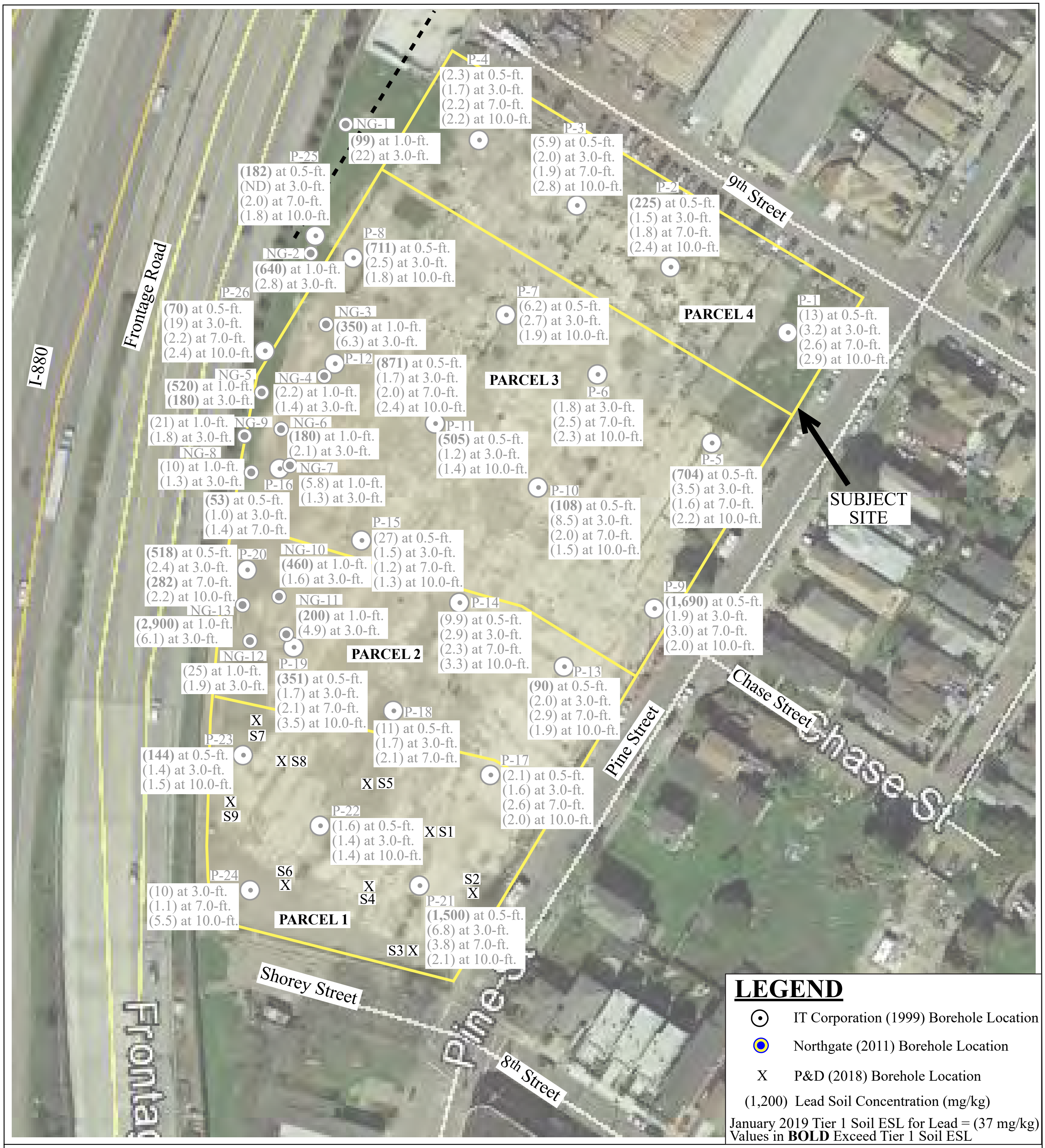


Figure 2
Site Aerial Photograph Showing Lead Concentrations In Historical Soil Samples
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

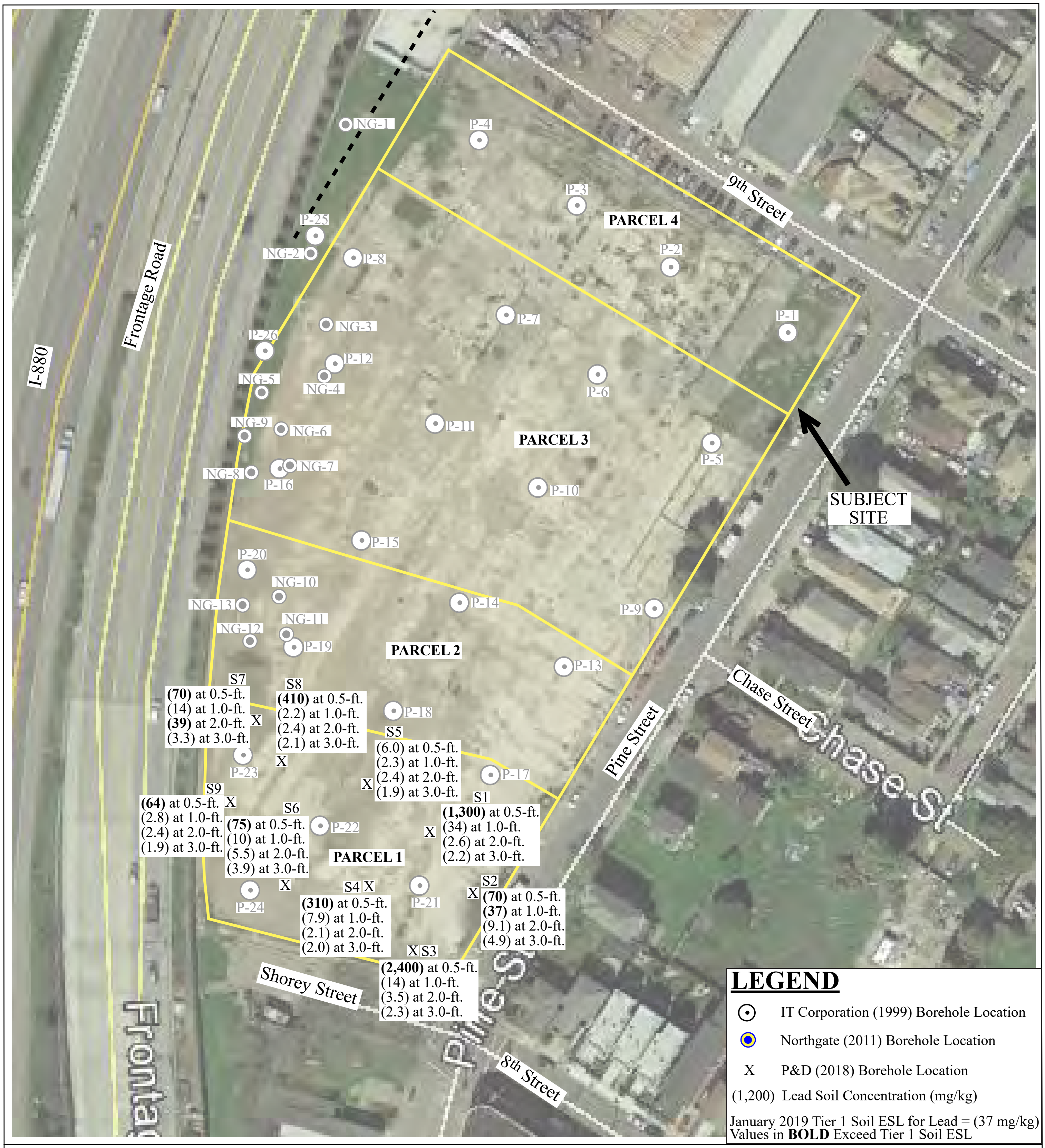
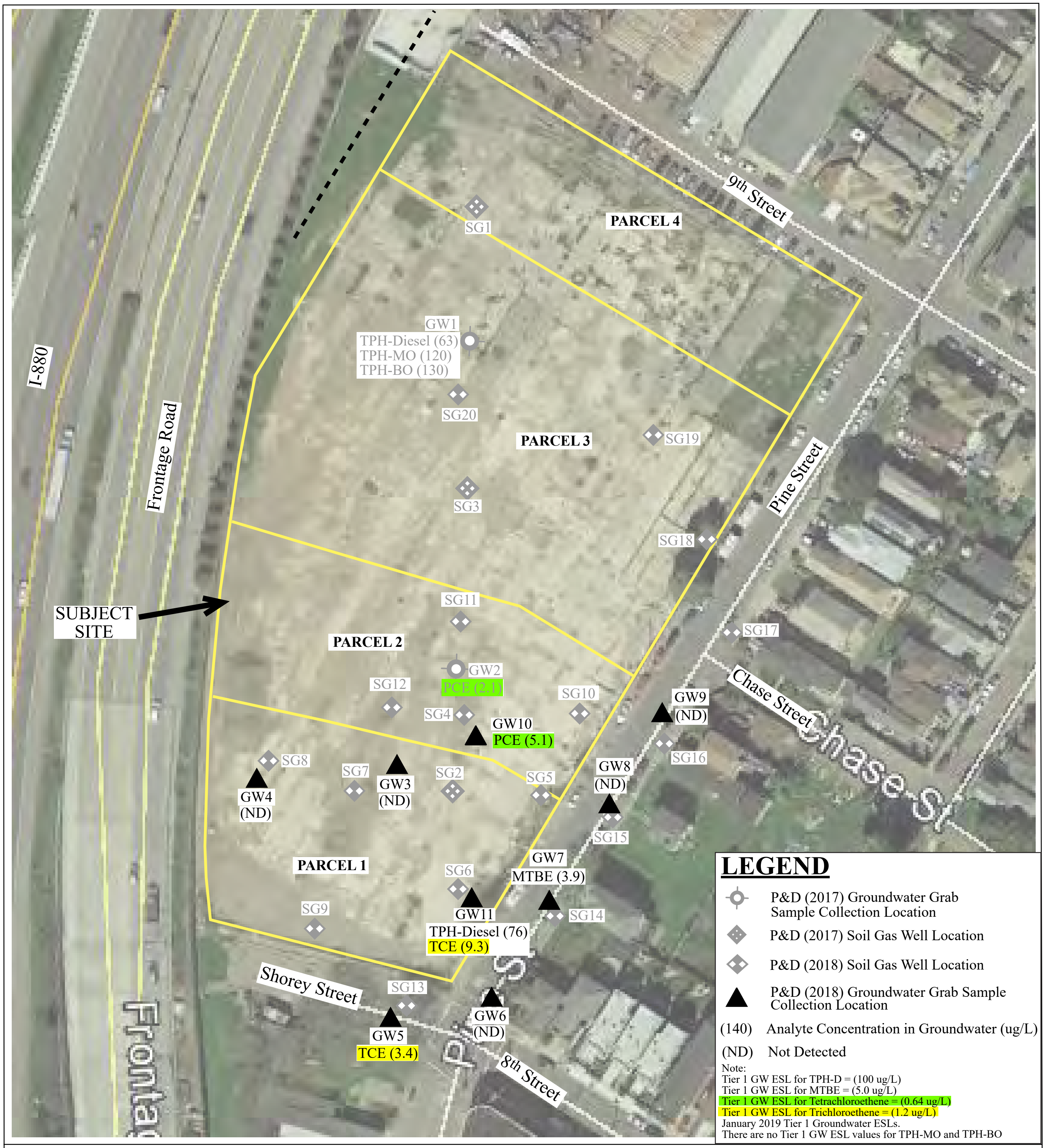


Figure 3
Site Aerial Photograph Showing Lead Concentrations In Current Investigation Soil Samples
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610



Note:
Tier 1 GW ESL for TPH-D = (100 ug/L)
Tier 1 GW ESL for MTBE = (5.0 ug/L)
Tier 1 GW ESL for Tetrachloroethene = (0.64 ug/L)
Tier 1 GW ESL for Trichloroethene = (1.2 ug/L)
January 2019 Tier 1 Groundwater ESLs.
There are no Tier 1 GW ESL values for TPH-MO and TPH-BO

Figure 4
Site Aerial Photograph Showing All Detected Petroleum and VOC Concentrations In Groundwater
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 50 100
Approximate Scale in Feet

N

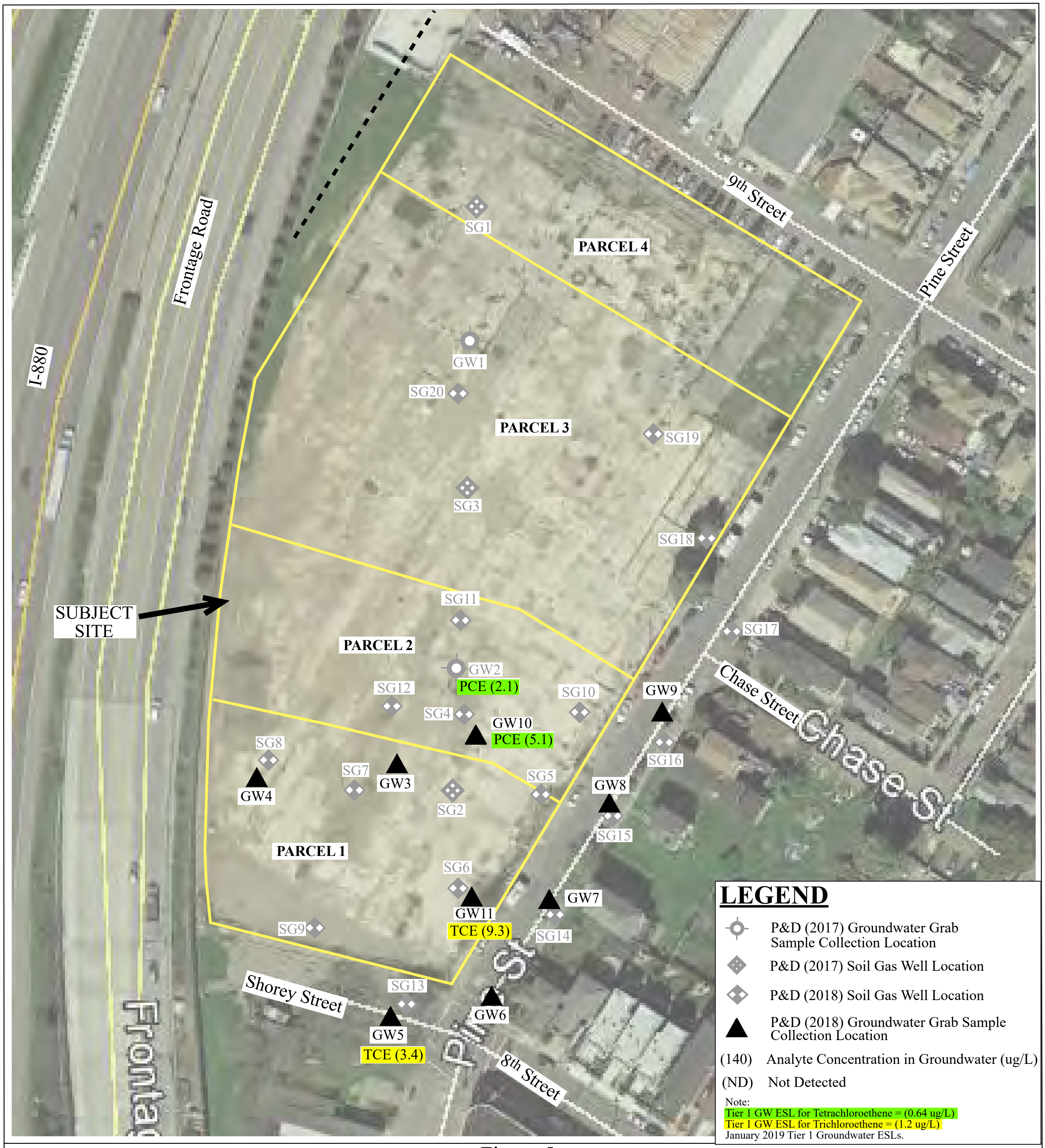


Figure 5
Site Aerial Photograph Showing All Detected VOC Concentrations
In Groundwater Exceeding Tier 1 Screening Levels
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 50 100
Approximate Scale in Feet

N

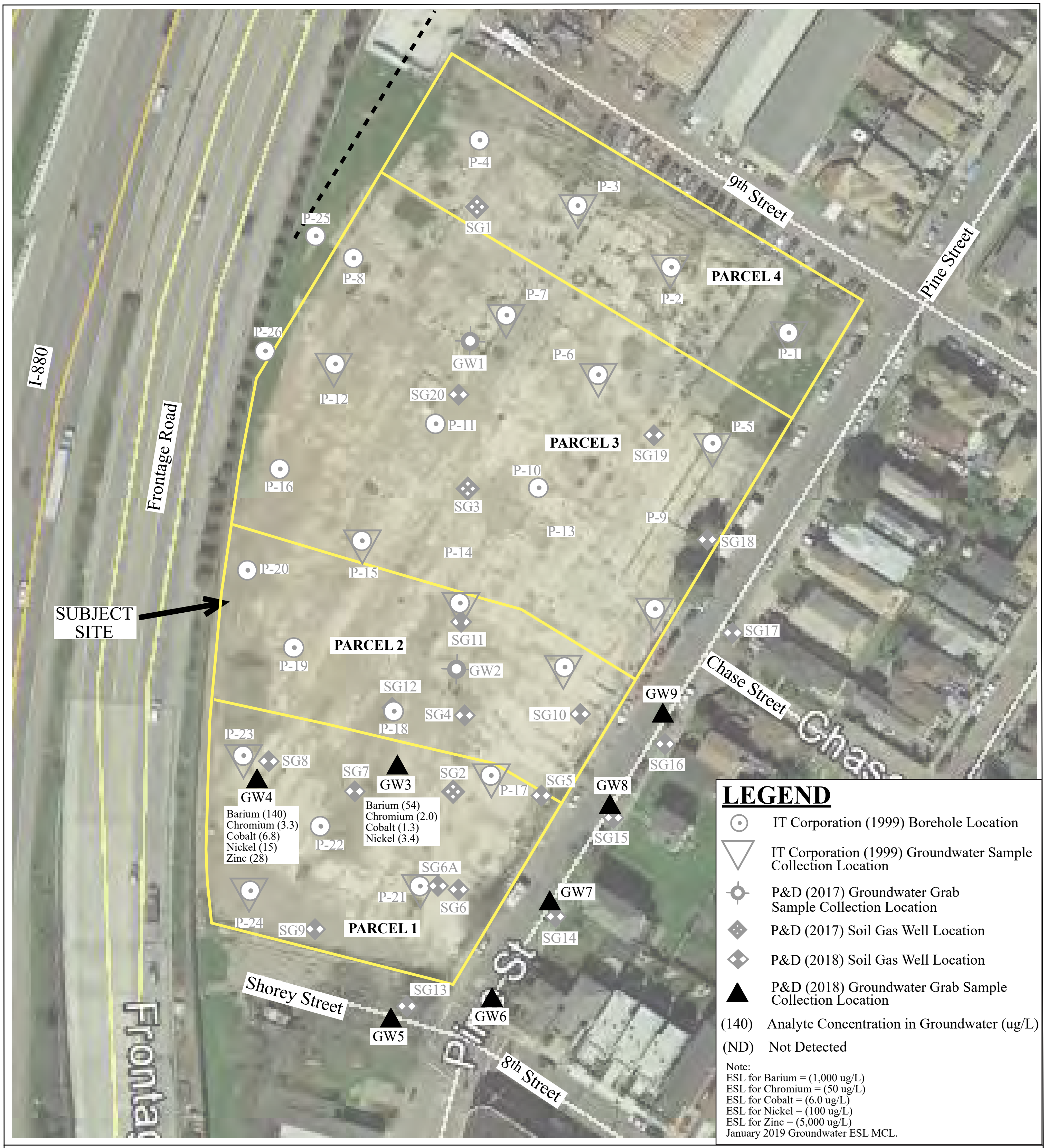


Figure 6
Site Aerial Photograph Showing All Detected Metals Concentrations In Groundwater
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 50 100
Approximate Scale in Feet

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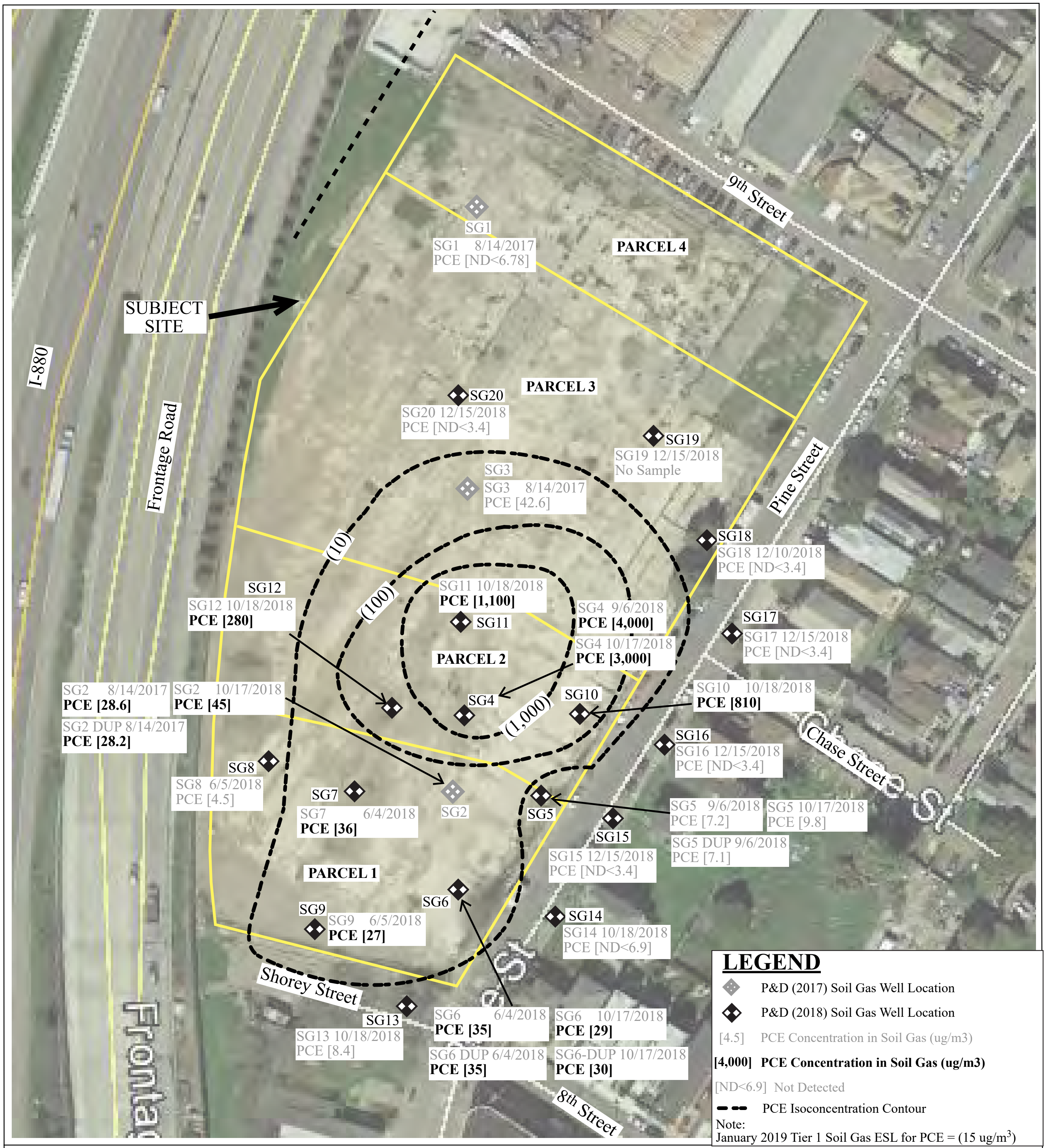

Figure 7
Site Aerial Photograph Showing PCE in Soil Gas
The Phoenix
800 Cedar Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

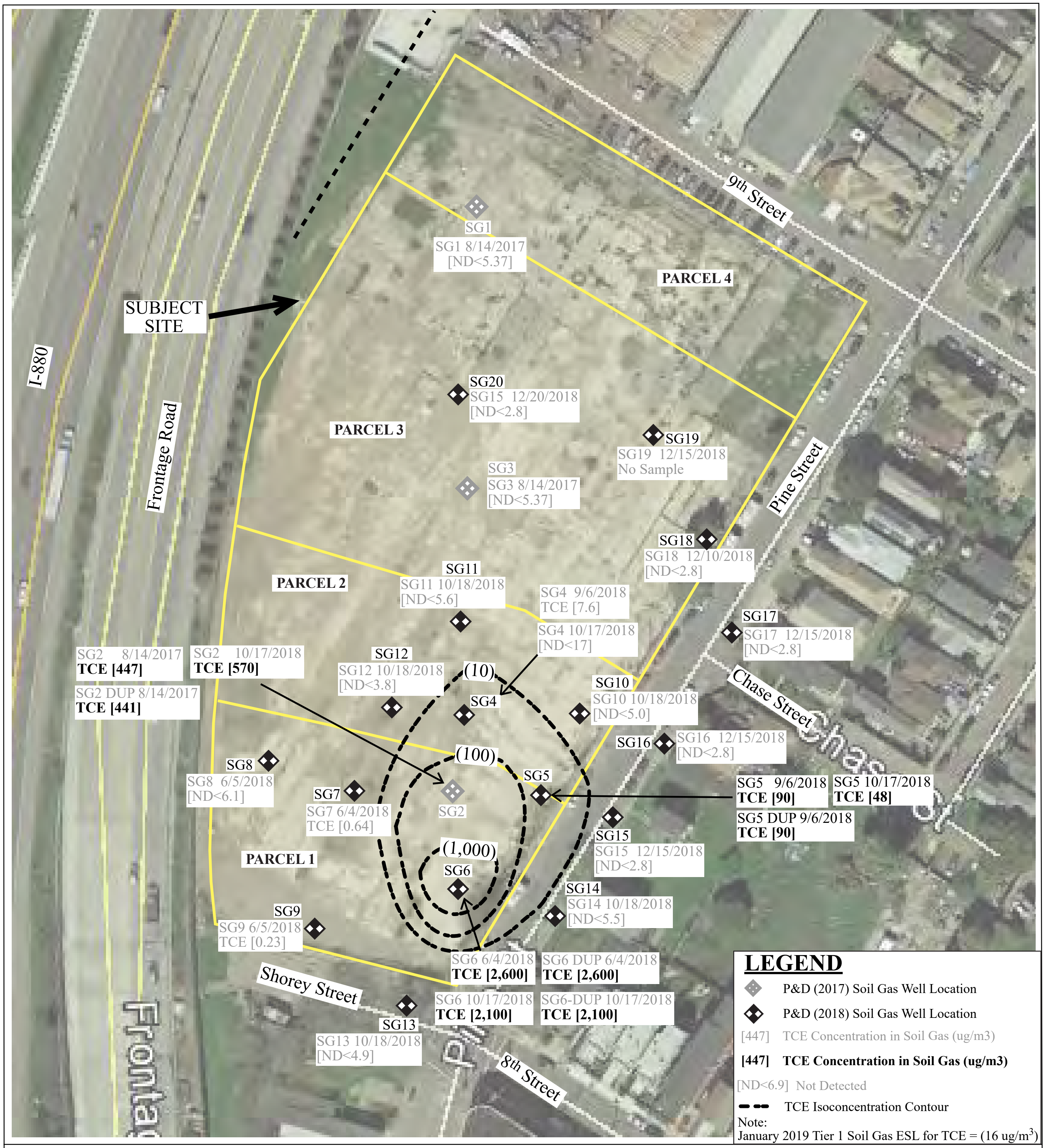

Figure 8
Site Aerial Photograph Showing TCE in Soil Gas
The Phoenix
800 Cedar Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009	P&D Environmental, Inc. 55 Santa Clara Ave., Suite 240 Oakland, CA 94610	0 50 100 Approximate Scale in Feet	N

APPENDIX A

Soil Boring Logs

- S1 Through S9 (9 pp)
- GW3 Through GW11 (7 pp)
- SG4 Through SG6, SG6A, and SG7 Through SG20 (18 pp)

P&D ENVIRONMENTAL, INC.

BORING NO.: S1	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 97 ft. north and 67 ft. west of southeast corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 6/1/18 1016	**DATE & TIME FINISHED:** 6/1/18 1233
DRILLING EQUIPMENT: Geoprobe 7822 DT			
COMPLETION DEPTH: 5.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** 4 Soil		

DEPTH (FT.)	DESCRIPTION		GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.3 ft. (3.5-inches) Concrete (FILL)		FILL		No Well Constructed	0	Concrete cored, then borehole continuously cored from 0.3 to 5.0 ft. using a Geoprobe 7822 DT dual tube sampling system where the smaller 5.0-foot long 1.5-inch O.D. rods were placed inside 5-foot long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-foot long 1.75-inch O.D. transparent PVC tube.
	0.3 to 1.0 ft. Dark brown silty clayey sand (SM); moderately dense, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)	X X X X	SM		S1-0.5 at 0.5 ft. S1-1.0 at 1.0 ft. S1-2.0 at 2.0 ft. S1-3.0 at 3.0 ft.	0 0	
	1.0 to 5.0 ft. Color change to brown, loose, moist.	X X	C1-3.5 C1-4.0			0	
5							The sand catcher was removed from the transparent PVC tube prior to soil sample collection. Water was not encountered during drilling. Borehole terminated at 5.0 ft. and borehole grouted with neat cement grout and a tremie pipe on 6/1/18. Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document grouting of the borehole. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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P&D ENVIRONMENTAL, INC.

BORING NO.: S2	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 74 ft. north and 15 ft. west of southeast corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 6/1/18 1122	**DATE & TIME FINISHED:** 6/1/18 1234
DRILLING EQUIPMENT: Geoprobe 7822 DT			
COMPLETION DEPTH: 5.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** 4 Soil		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.5 ft. (5.5-inches) Concrete (FILL)	FILL		No Well Constructed	0	Concrete cored, then borehole continuously cored from 0.5 to 5.0 ft. using a Geoprobe 7822 DT dual tube sampling system where the smaller 5.0-foot long 1.5-inch O.D. rods were placed inside 5-foot long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-foot long 1.75-inch O.D. transparent PVC tube.
	0.5 to 1.0 ft. Dark brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,40,60) X X X	SM		S2-0.5 at 0.5 ft. S2-1.0 at 1.0 ft. S2-2.0 at 2.0 ft.	0	
	1.0 to 5.0 ft. Color change to brown, moderately dense, moist. No PHC or solvent odors. (0,40,60) X X X	C1-3.5 C1-4.0		S2-3.0 at 3.0 ft.	0 0	
5						The sand catcher was removed from the transparent PVC tube prior to soil sample collection. Water was not encountered during drilling. Borehole terminated at 5.0 ft. and borehole grouted with neat cement grout and a tremie pipe on 6/1/18. Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document grouting of the borehole. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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P&D ENVIRONMENTAL, INC.

BORING NO.: S3	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 12 ft. north and 30 ft. west of southeast corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 6/1/18 1046	**DATE & TIME FINISHED:** 6/1/18 1234
DRILLING EQUIPMENT: Geoprobe 7822 DT			
COMPLETION DEPTH: 5.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** 4 Soil		

DEPTH (FT.)	DESCRIPTION		GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. (5.0-inches) Concrete (FILL)		FILL		No Well Constructed	0	Concrete cored, then borehole continuously cored from 0.4 to 5.0 ft. using a Geoprobe 7822 DT dual tube sampling system where the smaller 5.0-foot long 1.5-inch O.D. rods were placed inside 5-foot long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-foot long 1.75-inch O.D. transparent PVC tube.
	0.4 to 1.0 ft. Brown silty clayey sand (SC); dense, moist, with black mottling. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,5,95)	X X	SC		S3-0.5 at 0.5 ft. S3-1.0 at 1.0 ft.	0	
	1.0 to 5.0 ft. Brown silty sand (SM); moderately dense, moist. No PHC or solvent odors.	X X X X	SM C1-3.5 C1-4.0		S3-2.0 at 2.0 ft. S3-3.0 at 3.0 ft.	0 0	
5 10 15 20 25 30					▼		The sand catcher was removed from the transparent PVC tube prior to soil sample collection. Water was not encountered during drilling. Borehole terminated at 5.0 ft. and borehole grouted with neat cement grout and a tremie pipe on 6/1/18. Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document grouting of the borehole. <u>Drilling Notes:</u> 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.

P&D ENVIRONMENTAL, INC.

BORING NO.: S4	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 37 ft. north and 82 ft. west of southeast corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 6/1/18 1103	**DATE & TIME FINISHED:** 6/1/18 1229
DRILLING EQUIPMENT: Geoprobe 7822 DT			
COMPLETION DEPTH: 5.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** 4 Soil		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. (5.0-inches) Concrete (FILL)	FILL		No Well Constructed	0	Concrete cored, then borehole continuously cored from 0.4 to 5.0 ft. using a Geoprobe 7822 DT dual tube sampling system where the smaller 5.0-foot long 1.5-inch O.D. rods were placed inside 5-foot long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-foot long 1.75-inch O.D. transparent PVC tube.
	0.4 to 1.0 ft. Dark brown silty sand (SM); loose, moist, with 4.0-inch layer of brick. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40) X X X			S4-0.5 at 0.5 ft. S4-1.0 at 1.0 ft. S4-2.0 at 2.0 ft.	0	
	1.0 to 2.0 ft. Moderately dense. (0,40,60) X	SM		S4-3.0 at 3.0 ft.	0	
	2.0 to 5.0 ft. Color change to brown. X X	C1-3.5 C1-4.0			0	
5						The sand catcher was removed from the transparent PVC tube prior to soil sample collection. Water was not encountered during drilling. Borehole terminated at 5.0 ft. and borehole grouted with neat cement grout and a tremie pipe on 6/1/18. Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document grouting of the borehole. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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P&D ENVIRONMENTAL, INC.

BORING NO.: S5	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland			
BORING LOCATION: Approximately 101 ft. north and 125 ft. west of southeast corner of property			**ELEVATION AND DATUM:** None		
DRILLING AGENCY: VTS Drilling LLC		**DRILLER:** Glenn/Joel		**DATE & TIME STARTED:** 6/1/18 1115	**DATE & TIME FINISHED:** 6/1/18 1226
DRILLING EQUIPMENT: Geoprobe 7822 DT					
COMPLETION DEPTH: 5.0 Feet		**BEDROCK DEPTH:** Not Encountered		**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered		**NO. OF SAMPLES:** 4 Soil			

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. (5.0-inches) Concrete (FILL)	FILL		No Well Constructed	0	Concrete cored, then borehole continuously cored from 0.4 to 5.0 ft. using a Geoprobe 7822 DT dual tube sampling system where the smaller 5.0-foot long 1.5-inch O.D. rods were placed inside 5-foot long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-foot long 1.75-inch O.D. transparent PVC tube.
	0.4 to 2.0 ft. Dark brown silty sand (SM); moderately dense, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,40,60) 2.0 to 5.0 ft. Color change to brown.	X X X X X X SM C1-3.5 C1-4.0		S5-0.5 at 0.5 ft. S5-1.0 at 1.0 ft. S5-2.0 at 2.0 ft. S5-3.0 at 3.0 ft.	0 0 0	
5						The sand catcher was removed from the transparent PVC tube prior to soil sample collection. Water was not encountered during drilling. Borehole terminated at 5.0 ft. and borehole grouted with neat cement grout and a tremie pipe on 6/1/18. Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document grouting of the borehole. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: S6	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 5 ft. north and 136 ft. west of southeast corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 6/1/18 1141	**DATE & TIME FINISHED:** 6/1/18 1228
DRILLING EQUIPMENT: Geoprobe 7822 DT			
COMPLETION DEPTH: 5.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** 4 Soil		

DEPTH (FT.)	DESCRIPTION		GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.5 ft. (5.5-inches) Concrete (FILL)		FILL		No Well Constructed	0	Concrete cored, then borehole continuously cored from 0.5 to 5.0 ft. using a Geoprobe 7822 DT dual tube sampling system where the smaller 5.0-foot long 1.5-inch O.D. rods were placed inside 5-foot long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-foot long 1.75-inch O.D. transparent PVC tube.
	0.5 to 2.0 ft. Dark brown silty sand (SM); moderately dense, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,40,60)	X X X	SM		S6-0.5 at 0.5 ft. S6-1.0 at 1.0 ft. S6-2.0 at 2.0 ft	0	
	2.0 to 5.0 ft. Color change to brown, with dark brown mottling.	X X X	C1-3.5 C1-4.0		S6-3.0 at 3.0 ft	0 0	
5							The sand catcher was removed from the transparent PVC tube prior to soil sample collection. Water was not encountered during drilling. Borehole terminated at 5.0 ft. and borehole grouted with neat cement grout and a tremie pipe on 6/1/18.
10							Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document grouting of the borehole. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses.
15							2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: S7	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 100 ft. north and 220 ft. west of southeast corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 6/1/18 1202	**DATE & TIME FINISHED:** 6/1/18 1226
DRILLING EQUIPMENT: Geoprobe 7822 DT			
COMPLETION DEPTH: 5.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** 4 Soil		

DEPTH (FT.)	**DESCRIPTION**	**GRAPHIC COLUMN**	**BLOW COUNT PER 6"**	**WELL CONSTRUCTION LOG**	**PID**	**REMARKS**
	0.0 to 0.6 ft. (7.0-inches) Concrete (FILL) 0.6 to 2.0 ft. Dark brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,40,60) 2.0 to 5.0 ft. Color change to brown, with dark brown mottling, and orange mottling from 2.0 to 3.0 ft. X X X X X X	FILL SM C1-3.5 C1-4.0		No Well Constructed S7-0.5 at 0.5 ft. S7-1.0 at 1.0 ft. S7-2.0 at 2.0 ft. S7-3.0 at 3.0 ft.	0 0 0 0	Concrete cored, then borehole continuously cored from 0.6 to 5.0 ft. using a Geoprobe 7822 DT dual tube sampling system where the smaller 5.0-foot long 1.5-inch O.D. rods were placed inside 5-foot long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-foot long 1.75-inch O.D. transparent PVC tube.
5 10 15 20 25 30				▼		The sand catcher was removed from the transparent PVC tube prior to soil sample collection. Water was not encountered during drilling. Borehole terminated at 5.0 ft. and borehole grouted with neat cement grout and a tremie pipe on 6/1/18. Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document grouting of the borehole. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.

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BORING NO.: S8 **PROJECT NO.:** 0772 **PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland

BORING LOCATION: Approximately 83 ft. north and 187 ft. west of southeast corner of property **ELEVATION AND DATUM:** None

DRILLING AGENCY: VTS Drilling LLC **DRILLER:** Glenn/Joel

DRILLING EQUIPMENT: Geoprobe 7822 DT

DATE & TIME STARTED: 6/1/18 1156

DATE & TIME FINISHED: 6/1/18 1225

COMPLETION DEPTH: 5.0 Feet **BEDROCK DEPTH:** Not Encountered

FIRST WATER DEPTH: Not Encountered **NO. OF SAMPLES:** 4 Soil

LOGGED BY: LKD

CHECKED BY: PMK

DEPTH (FT.)	DESCRIPTION		GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. (5.0-inches) Concrete (FILL)		FILL		No Well Constructed	0	Concrete cored, then borehole continuously cored from 0.4 to 5.0 ft. using a Geoprobe 7822 DT dual tube sampling system where the smaller 5.0-foot long 1.5-inch O.D. rods were placed inside 5-foot long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-foot long 1.75-inch O.D. transparent PVC tube.
	0.4 to 2.0 ft. Dark brown silty sand (SM); moderately dense, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,40,60)	X X X	SM		S8-0.5 at 0.5 ft. S8-1.0 at 1.0 ft. S8-2.0 at 2.0 ft.	0	
	2.0 to 5.0 ft. Color change to brown, with dark brown mottling.	X X X	C1-3.5 C1-4.0		S8-3.0 at 3.0 ft.	0 0	
5							The sand catcher was removed from the transparent PVC tube prior to soil sample collection. Water was not encountered during drilling.
10							Borehole terminated at 5.0 ft. and borehole grouted with neat cement grout and a tremie pipe on 6/1/18. Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document grouting of the borehole.
15							Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: S9	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 38 ft. north and 205 ft. west of southeast corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 6/1/18 1148	**DATE & TIME FINISHED:** 6/1/18 1222
DRILLING EQUIPMENT: Geoprobe 7822 DT			
COMPLETION DEPTH: 5.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** 4 Soil		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.5 ft. (6.0-inches) Concrete (FILL)	FILL		No Well Constructed	0	Concrete cored, then borehole continuously cored from 0.5 to 5.0 ft. using a Geoprobe 7822 DT dual tube sampling system where the smaller 5.0-foot long 1.5-inch O.D. rods were placed inside 5-foot long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-foot long 1.75-inch O.D. transparent PVC tube.
	0.5 to 2.0 ft. Dark brown silty sand (SM); moderately dense, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,40,60)				0	
	2.0 to 5.0 ft. Color change to brown, with dark brown mottling.	SM ☒ C1-3.5 ☒ C1-4.0			0 0	
5						The sand catcher was removed from the transparent PVC tube prior to soil sample collection. Water was not encountered during drilling. Borehole terminated at 5.0 ft. and borehole grouted with neat cement grout and a tremie pipe on 6/1/18. Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document grouting of the borehole. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: GW3	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland			
BORING LOCATION: Approximately 118 ft. north and 110 ft. west of southeast corner of property			**ELEVATION AND DATUM:** None		
DRILLING AGENCY: VTS Drilling		**DRILLER:** Glenn/Joel		**DATE & TIME STARTED:** 5/31/18 1245	**DATE & TIME FINISHED:** 5/31/18 1443
DRILLING EQUIPMENT: 2.75-inch O.D. Hand Auger					
COMPLETION DEPTH: 11.5 Feet		**BEDROCK DEPTH:** Not Encountered		**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: 9.5 Feet		**NO. OF SAMPLES:** 1 Groundwater			

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. (5.0-inches) Concrete (FILL)	FILL		No Well Constructed	0	Borehole hand augered from 0.4 to 11.5 ft. using 2.75-inch O.D. hand auger.
	0.4 to 3.0 ft. Dark brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,35,65)				0	Water encountered during augering at 9.5 ft. at 1255.
	3.0 to 6.0 ft. Brown silty clayey sand (SM); loose, moist, with orange mottling. No PHC or solvent odors. (0,40,60) Wet at 5.0 ft.	X C1-3.5 X C1-4.0 SM			0	Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Water level measured at 7.7 ft. at 1309 and at 6.3 ft. at 1428.
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	6.0 to 9.0 ft. Color change to orangish-brown, moderately dense, moist.			▼	0	Water sample GW3 collected at 1434 using a peristaltic pump and was collected directly from the discharge tubing. No odor or sheen on sample.
	9.0 to 10.0 ft. Color change to brown, with gray and orange mottling, loose, moist.			▽	0	Water level was subsequently measured at 8.0 ft. at 1443.
10	10.0 to 11.5 ft. Brown silty sand (SM); moderately dense, wet to saturated, with gray mottling to 11.0 ft. No PHC or solvent odors. (0,40,60) Saturated 11.0 ft.				0	Borehole grouted on 5/31/18 using neat cement grout and a tremie pipe.
						Mr. Marcelino Vialpando with Alameda County Public Works Agency gave verbal permission to grout the borehole without his presence. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: GW4	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 50 ft. north and 195 ft. west of southeast corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 5/31/18 1309	**DATE & TIME FINISHED:** 5/31/18 1502
DRILLING EQUIPMENT: 2.75-inch O.D. Hand Auger			
COMPLETION DEPTH: 11.5 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: 9.5 Feet	**NO. OF SAMPLES:** 1 Groundwater		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.6 ft. (7.0-inches) Concrete (FILL)	FILL		No Well Constructed	0	Borehole hand augered from 0.6 to 11.5 ft. using 2.75-inch O.D. hand auger.
	0.6 to 4.0 ft. Dark brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,35,65)				0	Water encountered during augering at 9.5 ft. at 1321.
	4.0 to 6.0 ft. Color change to brown, with oxidized nodules at 5.0 ft.	X C1-3.5 X C1-4.0				Temporary 1.0-inch diameter slotted PVC casing placed in borehole.
5		SM			0	Water level measured at 9.7 ft. at 1325 and at 7.0 ft. at 1447.
	6.0 to 9.0 ft. Orange silty clayey sand (SM); moderately dense, moist, with brown mottling. No PHC or solvent odors. (0,40,60) Oxidized nodules from 6.0 to 7.0 ft.			▼	0	Water sample GW4 collected at 1451 using a peristaltic pump and was collected directly from the discharge tubing. No odor or sheen on sample.
				▽	0	Water level was subsequently measured at 8.4 ft. at 1459.
10	9.0 to 11.5 ft. Color change to brown, with orange and gray mottling, wet. Saturated 9.5 ft.				0	Borehole grouted on 5/31/18 using neat cement grout and a tremie pipe.
						Mr. Marcelino Vialpando with Alameda County Public Works Agency gave verbal permission to grout the borehole without his presence.
15						<u>Drilling Notes:</u> 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: GW5 **PROJECT NO.:** 0772 **PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland

BORING LOCATION: In Shorey Street, approximately 37 ft. south and 19 ft. west of southeast corner of property **ELEVATION AND DATUM:** None

DRILLING AGENCY: VTS Drilling **DRILLER:** Glenn/Joel

DRILLING EQUIPMENT: 2.75-inch O.D. Hand Auger

DATE & TIME STARTED: 5/31/18 1402

DATE & TIME FINISHED: 5/31/18 1518

COMPLETION DEPTH: 11.5 Feet **BEDROCK DEPTH:** Not Encountered

FIRST WATER DEPTH: 9.5 Feet **NO. OF SAMPLES:** 1 Groundwater

LOGGED BY: LKD

CHECKED BY: PMK

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.2 ft. (2.0-inches) Concrete (FILL) 0.2 to 0.7 ft. Cobblestones/rocks.	FILL		No Well Constructed	0	Borehole hand augered from 0.7 to 11.5 ft. using 2.75-inch O.D. hand auger.
	0.7 to 5.0 ft. Brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,40,60) 3.0 to 5.0 ft. Orange mottling.	X C1-3.5 X C1-4.0			0	Water encountered during augering at 9.5 ft. at 1413. Temporary 1.0-inch diameter slotted PVC casing placed in borehole.
5	5.0 to 7.0 ft. Orangish-brown silty clayey sand (SM); loose, moist, wet at 5.5 ft. No PHC or solvent odors. (0,40,60) 6.0 to 7.0 ft. Gray mottling.	SM		▼	0 0	Water level measured at 9.2 ft. at 1422 and at 6.7 ft. at 1505. Water sample GW5 collected at 1506 using a peristaltic pump and was collected directly from the discharge tubing. No odor or sheen on sample.
	7.0 to 8.0 ft. Brown silty sand (SM); loose, moist. No PHC or solvent odors. (0,40,60)					
10	8.0 to 11.5 ft. Brown silty clayey sand (SM); moderately dense, saturated. No PHC or solvent odors. (0,40,60)			▽	0 0	Water level was subsequently measured at 7.4 ft. at 1516. Borehole grouted on 5/31/18 using neat cement grout and a tremie pipe.
15						Mr. Marcelino Vialpando with Alameda County Public Works Agency gave verbal permission to grout the borehole without his presence. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: GW6	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland
BORING LOCATION: In Pine Street, approximately 15 ft. north of Shorey St. and 7.5 ft. west of east curb of Pine St.		**ELEVATION AND DATUM:** None

DRILLING AGENCY: VTS Drilling	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 5/31/18 0800	**DATE & TIME FINISHED:** 5/31/18 1053
DRILLING EQUIPMENT: 2.75-inch O.D. Hand Auger			
COMPLETION DEPTH: 11.5 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** PHK	**CHECKED BY:** PHK
FIRST WATER DEPTH: 11.0 Feet	**NO. OF SAMPLES:** 1 Groundwater		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.3 ft. (3.0-inches) Concrete (FILL) 0.3 to 0.6 ft. 4.0-inches Rock..	FILL		No Well Constructed	0	Borehole hand augered from 0.6 to 11.5 ft. using 2.75-inch O.D. hand auger.
	0.6 to 11.5 ft. Brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors.				0	Water encountered during augering at 11.0 ft at 0825.
	X X	C1-3.5 C1-4.0				Temporary 1.0-inch diameter slotted PVC casing placed in borehole.
5	5.0 ft. Wet.	SM			0	Water level measured at 8.2 ft. at 0835, at 7.9 ft. at 0859, and at 6.8 ft. at 0952.
	6.0 to 7.0 ft. Color change to orange. 6.0 to 8.0 ft. Dense. 7.0 to 9.0 ft. Color change to gray.			▼	0	Water sample GW6 collected at 0953 using a peristaltic pump and was collected directly from the discharge tubing. No odor or sheen on sample.
	Loose at 8.0 ft.				0	Water level was subsequently measured at 6.9 ft. at 1052.
10	Saturated at 11.0 ft.			▽	0	Borehole grouted on 5/31/18 using neat cement grout and a tremie pipe.
						Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document grouting of the borehole.
15						<u>Drilling Notes:</u> 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: GW7	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland			
BORING LOCATION: In Pine Street, approximately 100 ft. north of Shorey St. and 7.5 ft. west of east curb of Pine St.			**ELEVATION AND DATUM:** None		
DRILLING AGENCY: VTS Drilling		**DRILLER:** Glenn/Joel		**DATE & TIME STARTED:** 5/31/18 0830	**DATE & TIME FINISHED:** 5/31/18 1118
DRILLING EQUIPMENT: 2.75-inch O.D. Hand Auger					
COMPLETION DEPTH: 11.5 Feet		**BEDROCK DEPTH:** Not Encountered		**LOGGED BY:** PHK	**CHECKED BY:** PHK
FIRST WATER DEPTH: 8.5 Feet		**NO. OF SAMPLES:** 1 Groundwater			

DEPTH (FT.)	**DESCRIPTION**	**GRAPHIC COLUMN**	**BLOW COUNT PER 6"**	**WELL CONSTRUCTION LOG**	**PID**	**REMARKS**
	0.0 to 0.3 ft. (3.0-inches) Concrete (FILL) 0.3 to 0.8 ft. 9.0-inches Rock.	FILL		No Well Constructed	0	Borehole hand augered from 0.8 to 11.5 ft. using 2.75-inch O.D. hand auger.
	0.8 to 11.5 ft. Brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. 3.0 to 5.0 ft. Color change to Gray.				0	Water encountered during augering at 8.5 ft. at 0850.
		X C1-3.5 X C1-4.0				Temporary 1.0-inch diameter slotted PVC casing placed in borehole.
5	5.0 to 11.5 ft. Color change to orange.	SM			0	Water level measured at 7.3 ft. at 0910, at 6.8 ft. at 0922, and at 6.7 ft. at 1049.
	Dense from 6.0 to 8.0 ft.			▼	0	Water sample GW7 collected at 1057 using a peristaltic pump and was collected directly from the discharge tubing. No odor or sheen on sample.
	Loose at 8.0 ft. Wet at 8.5 ft.			▽	0	Water level was subsequently measured at 7.3 ft. at 1107 amd at 6.9 ft. at 1117.
10	10.0 to 11.5 ft. Minor gray mottling.				0	Borehole grouted on 5/31/18 using neat cement grout and a tremie pipe.
						Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document grouting of the borehole.
15						Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: GW8	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland			
BORING LOCATION: In Pine Street, approximately 185 ft. north of Shorey St. and 7.5 ft. west of east curb of Pine St.		**ELEVATION AND DATUM:** None			
DRILLING AGENCY: VTS Drilling		**DRILLER:** Glenn/Joel		**DATE & TIME STARTED:** 5/31/18 0911	**DATE & TIME FINISHED:** 5/31/18 1142
DRILLING EQUIPMENT: 2.75-inch O.D. Hand Auger					
COMPLETION DEPTH: 11.5 Feet		**BEDROCK DEPTH:** Not Encountered		**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: 9.0 Feet		**NO. OF SAMPLES:** 1 Groundwater			

DEPTH (FT.)	DESCRIPTION		GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.3 ft. (3.0-inches) Concrete (FILL) 0.3 to 0.8 ft. 9.0-inches Cobblestone.		FILL		No Well Constructed	0	Borehole hand augered from 0.8 to 11.5 ft. using 2.75-inch O.D. hand auger.
	0.8 to 4.0 ft. Brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,40,60)					0	Water encountered during augering at 9.0 ft. at 0934.
	4.0 to 6.0 ft. Orange mottling.	X X	C1-3.5 C1-4.0				Temporary 1.0-inch diameter slotted PVC casing placed in borehole.
5			SM			0	Water level measured at 7.2 ft. at 0947 and at 6.7 ft. at 1115.
	6.0 to 8.0 ft. Gray and orange mottling. (0,50,50)				▼	0	Water sample GW8 collected at 1117 using a peristaltic pump and was collected directly from the discharge tubing. No odor or sheen on sample.
	8.0 to 11.5 ft. Brown silty sand (SM); dense, moist to saturated at 9.0 ft. No PHC or solvent odors (0,35,65)				▽	0	Water level was subsequently measured at 6.8 ft. at 1138.
10						0	Borehole grouted on 5/31/18 using neat cement grout and a tremie pipe.
							Mr. Marcelino Vialpando with Alameda County Public Works Agency gave verbal permission to grout the borehole without his presence.
15							Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: GW9	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: In Pine Street, approximately 265 ft. north of Shorey St. and 7.5 ft. west of east curb of Pine St.		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 5/31/18 0947	**DATE & TIME FINISHED:** 5/31/18 1205
DRILLING EQUIPMENT: 2.75-inch O.D. Hand Auger			
COMPLETION DEPTH: 11.5 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: 9.0 Feet	**NO. OF SAMPLES:** 1 Groundwater		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.3 ft. (3.0-inches) Concrete (FILL) 0.3 to 0.8 ft. 9.0-inches Cobblestone. X	FILL		No Well Constructed S9-0.5 at 0.5 ft.	0	Borehole hand augered from 0.8 to 11.5 ft. using 2.75-inch O.D. hand auger.
	0.8 to 3.0 ft. Brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,40,60) X			S9-1.0 at 1.0 ft.		
	X			S9-2.0 at 2.0 ft.	0	Water encountered during augering at 9.0 ft. at 1014.
	3.0 to 6.0 ft. Color change to orangish-brown. X			S9-3.0 at 3.0 ft.		Temporary 1.0-inch diameter slotted PVC casing placed in borehole.
	X	C1-3.5				
	Oxidized nodules at 4.0 ft. X	C1-4.0				
5		SM			0	Water level measured at 7.1 ft. at 1032 and at 6.9 ft. at 1141.
	6.0 to 11.5 ft. Color change to brown with orange mottling, dense, moist. No PHC or solvent odors. (0,50,50)			▼	0	Water sample GW9 collected at 1142 using a peristaltic pump and was collected directly from the discharge tubing. No odor or sheen on sample.
	Saturated at 9.0 ft.			▽	0	Water level was subsequently measured at 7.2 ft. at 1155 and at 7.0 ft. at 1201.
10					0	Borehole grouted on 5/31/18 using neat cement grout and a tremie pipe.
						Mr. Marcelino Vialpando with Alameda County Public Works Agency gave verbal permission to grout the borehole without his presence.
15						Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: GW10	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland
BORING LOCATION: Approximately 190 ft. north and 25 ft. east of southeast corner of property		**ELEVATION AND DATUM:** None
DRILLING AGENCY: VTS Drilling	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 10/13/18 0845
DRILLING EQUIPMENT: 2.75-inch O.D. Hand Auger		**DATE & TIME FINISHED:** 10/13/18 1100
COMPLETION DEPTH: 10.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** MLBD
FIRST WATER DEPTH: 9.0 Feet	**NO. OF SAMPLES:** 1 Groundwater	**CHECKED BY:** PMK

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. (5.0-inches) Concrete (FILL)			No Well Constructed		
	0.4 to 2.0 ft. Dark brown silty fine sand (FILL); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40) X X	FILL		S9-0.5 at 0.5 ft. S9-1.0 at 1.0 ft.	0	Borehole hand augered from 0.4 to 10.0 ft. using 2.75-inch O.D. hand auger.
5	2.0 to 6.0 ft. Brown silty fine sand (SM); loose to medium dense, moist. No PHC or solvent odors. (0,60,40) X X X X	C1-3.5 C1-4.0 SM		S9-2.0 at 2.0 ft. S9-3.0 at 3.0 ft.	0 0	Water encountered during augering at 9.0 ft. at 0900. Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Water level measured at 9.6 ft. at 0905 and at 9.0 ft. at 0915.
	6.0 to 8.0 ft. Color change to orange-brown (SM); medium dense, moist, with some clay. No PHC or solvent odors. (0,60,40)				0	Water sample GW10 collected at 1115 using a peristaltic pump and was collected directly from the discharge tubing. No odor or sheen on sample.
10	8.0 to 10.0 ft. Grayish-brown silty fine sand (SM); medium dense, moist to saturated. No PHC or solvent odors. (0,70,30) Saturated at 9.0 ft.			▼ ▽	0	Water level was subsequently measured at 9.4 ft. at 1132.
15 20 25 30				▼		Borehole grouted on 10/13/18 using neat cement grout and a tremie pipe. Mr. James Yoo with Alameda County Public Works Agency gave verbal authorization to pour sanitary seal. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.

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BORING NO.: GW11	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland
BORING LOCATION: Approximately 60 ft. north and 25 ft. east of southeast corner of property		**ELEVATION AND DATUM:** None
DRILLING AGENCY: VTS Drilling	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 10/13/18 0745
DRILLING EQUIPMENT: 2.75-inch O.D. Hand Auger		**DATE & TIME FINISHED:** 10/13/18 0830
COMPLETION DEPTH: 10.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** MLBD
FIRST WATER DEPTH: 9.0 Feet	**NO. OF SAMPLES:** 1 Groundwater	**CHECKED BY:** PMK

DEPTH (FT.)	DESCRIPTION		GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. (5.0-inches) Concrete (FILL)	X	FILL		No Well Constructed S9-0.5 at 0.5 ft.	0	Borehole hand augered from 0.4 to 10.0 ft. using 2.75-inch O.D. hand auger.
	0.4 to 3.0 ft. Dark brown silty fine sand (FILL); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)	X X			S9-1.0 at 1.0 ft. S9-2.0 at 2.0 ft.	0	Water encountered during augering at 9.0 ft. at 0820.
	3.0 to 5.0 ft. Color change to light grayish-brown (SM); loose to medium dense, moist. No PHC or solvent odors. (0,60,40)	X X X	C1-3.5 C1-4.0		S9-3.0 at 3.0 ft.		Temporary 1.0-inch diameter slotted PVC casing placed in borehole.
5	5.0 to 8.0 ft. Color change to orange-brown (SM); medium dense, moist, with orange mottling. No PHC or solvent odors. (0,70,30)		SM			0 0	Water level measured at 9.9 ft. at 0825 and at 9.4 ft. at 0835. Water sample GW11 collected at 1030 using a peristaltic pump and was collected directly from the discharge tubing. No odor or sheen on sample.
	8.0 to 10.0 ft. Grayish-brown silty fine sand (SM); medium dense, moist to saturated. No PHC or solvent odors. (0,70,30) Saturated at 9.0 ft.				▼ ▽	0	Water level was subsequently measured at 9.5 ft. at 1051.
10							Borehole grouted on 10/13/18 using neat cement grout and a tremie pipe. Mr. James Yoo with Alameda County Public Works Agency gave verbal authorization to pour sanitary seal. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: SG4	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 185 ft. north and 93 ft. west of southeast corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 5/24/18 1145	**DATE & TIME FINISHED:** 5/24/18 1408
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 7.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** None		

DEPTH (FT.)	**DESCRIPTION**	**GRAPHIC COLUMN**	**BLOW COUNT PER 6"**	**WELL CONSTRUCTION LOG**	**PID**	**REMARKS**
5	0.0 to 0.4 ft. (5-inches) Concrete (FILL) 0.4 to 7.0 ft. Dark brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40) 1.5 to 5.0 ft. Color change to brown, with black nodules. X X 5.0 to 7.0 ft. Color change to light brown. Oxidized nodules present. 5.0 to 5.5 ft. Saturated.	FILL C1-3.5 SM C1-4.0		Soil Gas Well Constructed; (See Description Below In Remarks Column) ▼	0 0 0 0 0	Concrete cored, then borehole hand augered from 0.4 to 7.0 ft. using 3.5-inch O.D. hand auger. Water was not encountered during hand augering. Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 5/24/18. Water level was measured at 6.1 ft. at 1217 and at 5.5 ft. at 1312.
10 15 20 25 30				▼		Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault. Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document pouring of the sanitary seal. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.

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BORING NO.: SG5	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 153 ft. north and 12 ft. west of southeast corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 5/24/18 0910	**DATE & TIME FINISHED:** 5/24/18 1457
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 7.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** PHK	**CHECKED BY:** PHK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** None		

DEPTH (FT.)	**DESCRIPTION**	**GRAPHIC COLUMN**	**BLOW COUNT PER 6"**	**WELL CONSTRUCTION LOG**	**PID**	**REMARKS**
	0.0 to 0.3 ft. (4-inches) Concrete (FILL)	FILL		Soil Gas Well Constructed; (See Description Below In Remarks Column)	0	Concrete cored, then borehole hand augered from 0.3 to 7.0 ft. using 3.5-inch O.D. hand auger.
	0.3 to 7.0 ft. Dark brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40) 1.0 to 4.0 ft. Color change to light brown.	SM			0	Water was not encountered during hand augering.
	X X	C1-3.5 C1-4.0			0	Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 5/24/18.
5	5.0 ft. Wet, with dark brown to rusty orange mottling.			▼	0	
	7.0 ft. Color change to orangish-brown.				0	Water level was measured at 6.5 ft. at 0940, at 5.4 ft. at 1208, and at 5.4 ft. at 1324.
10						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault.
15						Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document pouring of the sanitary seal.
						<u>Drilling Notes:</u> 1) Field estimates of percent gravel, sand, and fines are shown in parentheses.
20				▼		2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.:	SG6	**PROJECT NO.:**	0772	**PROJECT NAME:**	The Phoenix - 801 Pine Street, Oakland
BORING LOCATION:	Approximately 70 ft. north and 22 ft. west of southeast corner of property			**ELEVATION AND DATUM:**	None
DRILLING AGENCY:	VTS Drilling LLC	**DRILLER:**	Glenn/Joel	**DATE & TIME STARTED:**	5/24/18 1114
DRILLING EQUIPMENT:	3.5-inch O.D. Hand Auger			**DATE & TIME FINISHED:**	5/24/18 1444
COMPLETION DEPTH:	7.0 Feet	**BEDROCK DEPTH:**	Not Encountered	**LOGGED BY:**	LKD
FIRST WATER DEPTH:	6.7 Feet	**NO. OF SAMPLES:**	None	**CHECKED BY:**	PMK

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.5 ft. (6-inches) Concrete (FILL)	FILL		Soil Gas Well Constructed; (See Description Below In Remarks Column)		Concrete cored, then borehole hand augered from 0.5 to 7.0 ft. using 3.5-inch O.D. hand auger.
	0.5 to 7.0 ft. Dark brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40) 3.0 to 5.0 ft. Color change to light brown.	SM			0 0	Water was encountered at 6.7 ft. during hand augering.
	X X	C1-3.5 C1-4.0			0	Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 5/24/18.
5	5.0 to 6.7 ft. Moist to wet, with oxidized nodules. Saturated at 6.7 ft.			▼ ▽	0 0	Water level was measured at 5.9 ft. at 1211 and at 5.9 ft. at 1330.
						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-onch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault.
10						Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document pouring of the sanitary seal.
15						<u>Drilling Notes:</u> 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: SG6A	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 75 ft. north and 40 ft. west of southeast corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 5/24/18 0800	**DATE & TIME FINISHED:** 5/24/18 1450
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 7.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** PHK	**CHECKED BY:** PHK
FIRST WATER DEPTH: 5.0 Feet	**NO. OF SAMPLES:** None		

DEPTH (FT.)	DESCRIPTION		GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. (5-inches) Concrete (FILL)		FILL		No Well Constructed		Concrete cored, then borehole hand augered from 0.4 to 7.0 ft. using 3.5-inch O.D. hand auger.
	0.4 to 7.0 ft. Dark brown silty sand (SM); loose, moist, with brick fragments from 0.4 to 0.5 ft. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40) 1.8 to 4.0 ft. Color change to light brown.					0 0	Water encountered at 5.0 ft. during hand augering at 0810.
		X	C1-3.5 SM			0	Borehole terminated at 7.0 ft. on 5/24/18 and no soil gas well constructed in borehole.
5	4.0 to 7.0 ft. Light brown silty sand (SM); dense, with dark brown to black nodules. No PHC or solvent odors. Saturated at 5.0 ft.	X	C1-4.0		▽ ▼	0 0	Water level was measured at 5.7 ft. at 0943 and at 5.7 ft. at 1447.
							Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document grouting of the borehole.
10							Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: SG7	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 90 ft. north and 127 ft. west of southeast corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 5/24/18 1214	**DATE & TIME FINISHED:** 5/24/18 1415
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 7.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: 6.8 Feet	**NO. OF SAMPLES:** None		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.25 ft. (3-inches) Concrete (FILL)	FILL		Soil Gas Well Constructed; (See Description Below In Remarks Column)	0	Concrete cored, then borehole hand augered from 0.25 to 7.0 ft. using 3.5-inch O.D. hand auger.
	0.5 to 7.0 ft. Dark brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)				0	Water encountered at 6.8 ft. during hand augering.
	3.5 to 6.8 ft. Color change to brown.	X C1-3.5 SM X C1-4.0			0	Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 5/24/18.
5	6.0 ft. Wet, with black nodules.			▼	0	
	6.8 to 7.0 ft. Brown silty clayey sand (SC); loose, saturated, with orange mottling. No PHC or solvent odors. (0,60,40)	SC		▽	0	Water level was measured at 5.7 ft. at 1243 and at 5.6 ft. at 1327.
10						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault.
15						Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document pouring of the sanitary seal.
20				▼		Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: SG8	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 75 ft. north and 195 ft. west of southeast corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 5/24/18 1032	**DATE & TIME FINISHED:** 5/24/18 1422
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 7.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** None		

DEPTH (FT.)	DESCRIPTION		GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.7 ft. (8-inches) Concrete (FILL)		FILL		Soil Gas Well Constructed; (See Description Below In Remarks Column)	0	Concrete cored, then borehole hand augered from 0.7 to 7.0 ft. using 3.5-inch O.D. hand auger.
	0.7 to 7.0 ft. Dark brown silty sand (SM); loose, moist, with brick fragments at 1.5 ft. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,70,30)					0	Water not encountered during hand augering.
	4.0 to 5.5 ft. Color change to brown, with dark brown mottling from 4.0 to 5.0 ft. and soft oxidized concretions at 5.0 ft.	X X	SM C1-3.5 C1-4.0			0	Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 5/24/18.
5						0	
	5.5 to 7.0 ft. Orange mottling, with some clay from 6.8 to 7.0 ft.				▼	0	Water level was measured at 6.4 ft. at 1101, at 6.1 ft. at 1214, and at 6.1 ft. at 1335.
10							Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault.
15							Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document pouring of the sanitary seal.
20							Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: SG9	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 14 ft. south and 100 ft. west of southeast corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 5/24/18 0959	**DATE & TIME FINISHED:** 5/24/18 1428
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 7.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LKD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** None		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 1.1 ft. Concrete (8-inches) and baserock (FILL)	FILL		Soil Gas Well Constructed; (See Description Below In Remarks Column)	0	Concrete cored, then borehole hand augered from 1.1 to 7.0 ft. using 3.5-inch O.D. hand auger.
	1.1 to 2.5 ft. Dark brown silty sand (SM); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)				0	Water not encountered during hand augering.
	2.5 to 5.5 ft. Color change to light brown.	X C1-3.5 SM X C1-4.0			0	Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 5/24/18.
5	5.5 to 7.0 ft. Wet, with rusty orange mottling and soft oxidized concretions.			▼	0 0	Water level was measured at 6.6 ft. at 1020, at 6.2 ft. at 1213, and at 6.1 ft. at 1332.
10 15 20 25 30				▼		Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault. Mr. Marcelino Vialpando with Alameda County Public Works Agency onsite to observe and document pouring of the sanitary seal. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.

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BORING NO.: SG10	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland			
BORING LOCATION: Approximately 220 ft. north and 100 ft. east of southeast corner of property			**ELEVATION AND DATUM:** None		
DRILLING AGENCY: VTS Drilling LLC		**DRILLER:** Glenn/Joel		**DATE & TIME STARTED:** 10/13/18 1045	**DATE & TIME FINISHED:** 10/13/18 1115
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger					
COMPLETION DEPTH: 7.0 Feet		**BEDROCK DEPTH:** Not Encountered		**LOGGED BY:** MLBD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered		**NO. OF SAMPLES:** None			

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. Concrete (5-inches)	FILL		Soil Gas Well Constructed; (See Description Below In Remarks Column)	0	Borehole hand augered from 0.4 to 7.0 ft. using 3.5-inch O.D. hand auger.
	0.4 to 2.0 ft. Dark brown silty fine sand (FILL); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)				0	Water not encountered during hand augering.
	2.0 to 3.0 ft. Color change to grayish-brown (SM); loose, moist. No PHC or solvent odors. (0,60,40)				0	Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 10/13/18.
	3.0 to 5.0 ft. Color change to brown (SM); medium dense, moist. No PHC or solvent odors. (0,70,30)	X C1-3.5 X C1-4.0 SM			0	
5	5.0 to 7.0 ft. Color change to orange-brown (SM); medium dense, moist. No PHC or solvent odors. (0,70,30)				0	
						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault. Mr. James Yoo with Alameda County Public Works Agency gave verbal authorization to pour sanitary seal. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: SG11	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 270 ft. north and 25 ft. east of southeast corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 10/13/18 1005	**DATE & TIME FINISHED:** 10/13/18 1035
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 7.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** MLBD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** None		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. Concrete (5-inches)			Soil Gas Well Constructed; (See Description Below In Remarks Column)		Borehole hand augered from 0.4 to 7.0 ft. using 3.5-inch O.D. hand auger.
	0.4 to 1.0 ft. Dark brown silty fine sand (FILL); loose, moist, with abundant broken glass. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)	FILL			0	
	1.0 to 2.0 ft. Color change to grayish-brown (SM); loose, moist. No PHC or solvent odors. (0,60,40)				0	Water not encountered during hand augering.
	2.0 to 5.0 ft. Color change to brown (SM); medium dense, moist, with some clay. No PHC or solvent odors. (0,70,30)	X C1-3.5 X C1-4.0 SM			0	Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 10/13/18.
5	5.0 to 7.0 ft. Color change to orange-brown (SM); medium dense, moist, with orange mottling. No PHC or solvent odors. (0,70,30)				0 0	
10						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault.
15						Mr. James Yoo with Alameda County Public Works Agency gave verbal authorization to pour sanitary seal. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses.
20						2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: SG12	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland			
BORING LOCATION: Approximately 210 ft. north and 28 ft. west of southeast corner of property			**ELEVATION AND DATUM:** None		
DRILLING AGENCY: VTS Drilling LLC		**DRILLER:** Glenn/Joel		**DATE & TIME STARTED:** 10/13/18 1130	**DATE & TIME FINISHED:** 10/13/18 1200
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger					
COMPLETION DEPTH: 7.0 Feet		**BEDROCK DEPTH:** Not Encountered		**LOGGED BY:** MLBD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered		**NO. OF SAMPLES:** None			

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. Concrete (5-inches) 0.4 to 1.0 ft. Dark brown silty fine sand (FILL); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)	FILL		Soil Gas Well Constructed; (See Description Below In Remarks Column)	0	Borehole hand augered from 0.4 to 7.0 ft. using 3.5-inch O.D. hand auger.
	1.0 to 4.0 ft. Color change to grayish-brown (SM); loose, moist. No PHC or solvent odor. (0,60,40)	SM X C1-3.5 X C1-4.0			0 0	Water not encountered during hand augering. Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 10/13/18.
5	4.0 to 7.0 ft. Color change to orange-brown (SM); medium dense, moist, with orange mottling. No PHC or solvent odor. (0,70,30)				0 0	
10						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault.
15						Mr. James Yoo with Alameda County Public Works Agency gave verbal authorization to pour sanitary seal.
20				▼		Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: SG13	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 22 ft. west of Pine St., in planter on south side of Shorey St.		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 10/13/18 1300	**DATE & TIME FINISHED:** 10/13/18 1340
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 7.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** MLBD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** None		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.4 to 2.0 ft. Dark brown silty fine sand (FILL); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)	FILL		Soil Gas Well Constructed; (See Description Below In Remarks Column)	0	Borehole hand augered from 0.4 to 7.0 ft. using 3.5-inch O.D. hand auger. Water not encountered during hand augering. Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 10/13/18.
	2.0 to 5.0 ft. Light brown silty fine sand (SM); loose, moist. No PHC or solvent odors. (0,60,40)	X C1-3.5 X C1-4.0 SM			0 0	
5	5.0 to 7.0 ft. Orange-brown silty fine sand (SM); medium dense, moist, with orange mottling. No PHC or solvent odors. (0,60,40)				0 0	
10 15 20 25 30				▼		Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault. Mr. James Yoo with Alameda County Public Works Agency gave verbal authorization to pour sanitary seal. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.

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BORING NO.: SG14	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 90 ft. north of 8th St., in planter on east side of Pine St.		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn/Joel	**DATE & TIME STARTED:** 10/13/18 1315	**DATE & TIME FINISHED:** 10/13/18 1400
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 7.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** MLBD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** None		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.4 to 2.0 ft. Dark brown silty fine sand (FILL); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)	FILL		Soil Gas Well Constructed; (See Description Below In Remarks Column)	0	Borehole hand augered from 0.4 to 7.0 ft. using 3.5-inch O.D. hand auger.
	2.0 to 3.0 ft. Light brown silty fine sand (SM); loose, moist. No PHC or solvent odors.				0	Water not encountered during hand augering.
	3.0 to 4.0 ft. Brown silty fine sand (SM); medium dense, moist, with orange and black mottling.No PHC or solvent odors. (0,60,40)	X C1-3.5 X C1-4.0			0	Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 10/13/18.
5	4.0 to 7.0 ft. Orange-brown silty fine sand (SM); medium dense, moist, with orange mottling. No PHC or solvent odors. (0,70,30)	SM			0 0	
10						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault.
15						Mr. James Yoo with Alameda County Public Works Agency gave verbal authorization to pour sanitary seal. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.:	SG15
PROJECT NO.:	0772
PROJECT NAME:	The Phoenix - 801 Pine Street, Oakland
BORING LOCATION:	Approximately 166 ft. north of 8th St., in planter on east side of Pine St.
ELEVATION AND DATUM:	None
DRILLING AGENCY:	VTS Drilling LLC
DRILLER:	Glenn
DATE & TIME STARTED:	11/19/18 1055
DATE & TIME FINISHED:	11/19/18 1120
DRILLING EQUIPMENT:	3.5-inch O.D. Hand Auger
COMPLETION DEPTH:	7.0 Feet
BEDROCK DEPTH:	Not Encountered
LOGGED BY:	MLBD
CHECKED BY:	PMK
FIRST WATER DEPTH:	Not Encountered
NO. OF SAMPLES:	None

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 2.0 ft. Dark brown silty fine sand (FILL); loose, moist. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)	FILL		Soil Gas Well Constructed; (See Description Below In Remarks Column)	0	Borehole hand augered from 0.0 to 7.0 ft. using 3.5-inch O.D. hand auger.
	2.0 to 4.0 ft. Light brown silty fine sand (SM); medium dense, moist. No PHC or solvent odors. (0,60,40)	X C1-3.5 X C1-4.0			0 0	Water not encountered during hand augering. Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 11/19/18.
5	4.0 to 7.0 ft. Orange-brown silty fine sand (SM); medium dense, moist, with orange mottling. No PHC or solvent odors. (0,80,20)	SM			0 0	
10 15 20 25 30				▼		Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault. Inspector Sam Braithwaite with Alameda County Public Works Agency gave verbal authorization to pour sanitary seal. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.

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BORING NO.: SG16	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland			
BORING LOCATION: Approximately 41 ft. south of Chase St., in planter on east side of Pine St.			**ELEVATION AND DATUM:** None		
DRILLING AGENCY: VTS Drilling LLC		**DRILLER:** Glenn		**DATE & TIME STARTED:** 11/19/18 1130	**DATE & TIME FINISHED:** 11/19/18 1150
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger					
COMPLETION DEPTH: 7.0 Feet		**BEDROCK DEPTH:** Not Encountered		**LOGGED BY:** MLBD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered		**NO. OF SAMPLES:** None			

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 2.0 ft. Dark brown silty fine sand (FILL); loose, dry. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)	FILL		Soil Gas Well Constructed; (See Description Below In Remarks Column)	0	Borehole hand augered from 0.0 to 7.0 ft. using 3.5-inch O.D. hand auger.
	2.0 to 4.0 ft. Light brown silty fine sand (SM); medium dense, moist. No PHC or solvent odors.				0	Water not encountered during hand augering.
	X X	C1-3.5 C1-4.0			0	Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 11/19/18.
5	4.0 to 7.0 ft. Orange-brown silty fine sand (SM); medium dense, moist, with orange mottling. No PHC or solvent odors. (0,80,20)	SM			0	
					0	
10						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault.
15						Inspector Tony Xiong with Alameda County Public Works Agency onsite to observe and document pouring of the sanitary seal.
						<u>Drilling Notes:</u>
						1) Field estimates of percent gravel, sand, and fines are shown in parentheses.
20						2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: SG17	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 31 ft. north of Chase St., in planter on east side of Pine St.		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn	**DATE & TIME STARTED:** 11/19/18 1200	**DATE & TIME FINISHED:** 11/19/18 1230
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 7.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** MLBD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** None		

DEPTH (FT.)	**DESCRIPTION**	**GRAPHIC COLUMN**	**BLOW COUNT PER 6"**	**WELL CONSTRUCTION LOG**	**PID**	**REMARKS**
	0.0 to 1.0 ft. Dark brown silty fine sand (FILL); loose, dry. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)	FILL		Soil Gas Well Constructed; (See Description Below In Remarks Column)	0	Borehole hand augered from 0.0 to 7.0 ft. using 3.5-inch O.D. hand auger.
	1.0 to 3.0 ft. Brown silty fine sand (SM); medium dense, moist. No PHC or solvent odors. (0,60,40)				0	Water not encountered during hand augering.
	3.0 to 5.0 ft. Light brown silty fine sand (SM); medium dense, moist, with clay between 4.5 to 5.0 ft. No PHC or solvent odors. (0,60,40)	X C1-3.5 X C1-4.0 SM			0	Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 11/19/18.
5	5.0 to 7.0 ft. Orange-brown silty fine sand (SM); medium dense, moist, with orange mottling. No PHC or solvent odors. (0,80,20)				0 0	
10						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault. Inspector Sam Braithwaite with Alameda County Public Works Agency gave verbal authorization to pour sanitary seal.
15						Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: SG18	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 215 ft. south and 10 ft. west of northeast corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn	**DATE & TIME STARTED:** 11/19/18 0730	**DATE & TIME FINISHED:** 11/19/18 0830
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 7.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** MLBD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** None		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.5 ft. Concrete (6-inches).			Soil Gas Well Constructed; (See Description Below In Remarks Column)		
	0.5 to 2.5 ft. Dark brown silty fine sand (FILL); loose, dry. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)	FILL			0 0	Borehole hand augered from 0.5 to 7.0 ft. using 3.5-inch O.D. hand auger. Water not encountered during hand augering.
	2.5 to 6.0 ft. Light brown silty fine sand (SM); medium dense, moist. No PHC or solvent odors. (0,60,40)	X C1-3.5 X C1-4.0 SM			0	Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 11/19/18.
5	6.0 to 7.0 ft. Orange-brown silty fine sand (SM); medium dense, moist, with orange mottling. No PHC or solvent odors. (0,70,30)				0 0	
10						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault. Inspector Sam Braithwaite with Alameda County Public Works Agency gave verbal authorization to pour sanitary seal.
15						Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: SG19	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 168 ft. south and 87 ft. west of northeast corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn	**DATE & TIME STARTED:** 11/19/18 0840	**DATE & TIME FINISHED:** 11/19/18 0935
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 7.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** MLBD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** None		

DEPTH (FT.)	DESCRIPTION		GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.5 ft. Concrete (5.5-inches).				Soil Gas Well Constructed; (See Description Below In Remarks Column)		
	0.5 to 2.0 ft. Dark brown silty fine sand (FILL); loose, moist, with broken pottery. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)		FILL			0	Borehole hand augered from 0.5 to 7.0 ft. using 3.5-inch O.D. hand auger.
	2.0 to 3.0 ft. Brown silty fine sand (SM); loose, moist. No PHC or solvent odors. (0,60,40)					0	Water not encountered during hand augering.
	3.0 to 6.0 ft. Light brown silty fine sand (SM); medium dense, moist. No PHC or solvent odors. (0,60,40)	X X	C1-3.5 C1-4.0 SM			0	Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 11/19/18.
5						0	
	6.0 to 7.0 ft. Orange-brown silty fine sand (SM); medium dense, moist, with orange mottling. No PHC or solvent odors. (0,80,20)					0	
10							Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault. Inspector Sam Braithwaite with Alameda County Public Works Agency gave verbal authorization to pour sanitary seal.
15							<u>Drilling Notes:</u> 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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BORING NO.: SG20	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 220 ft. south and 230 ft. west of northeast corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: VTS Drilling LLC	**DRILLER:** Glenn	**DATE & TIME STARTED:** 11/19/18 0945	**DATE & TIME FINISHED:** 11/19/18 1030
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 7.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** MLBD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** None		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.4 ft. Asphalt (4.5-inches).			Soil Gas Well Constructed; (See Description Below In Remarks Column)	0	Borehole hand augered from 0.4 to 7.0 ft. using 3.5-inch O.D. hand auger.
	0.4 to 4.0 ft. Dark brown silty fine sand (FILL); loose, moist, with gravel,pottery, brick, and glass to 1.0 ft. No Petroleum Hydrocarbon (PHC) or solvent odors. (0,60,40)	FILL X C1-3.5 X C1-4.0			0 0	Water not encountered during hand augering. Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 11/19/18.
5	4.0 to 6.0 ft. Light brown silty fine sand (SM); medium dense, moist. No PHC or solvent odors. (0,60,40)	SM			0	
	6.0 to 7.0 ft. Orange-brown clayey sand (SC); medium dense, moist. No PHC or solvent odors. (0,85,15)	SC			0	
10						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault.
15						Inspector Sam Braithwaite with Alameda County Public Works Agency gave verbal authorization to pour sanitary seal.
						<u>Drilling Notes:</u> 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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APPENDIX B

Enthalpy Analytical Field Guide For Use of the Helium Shrouds, Standard Operating Procedures: MAI Helium Shroud During Soil Gas Sampling for Quantitative Leak Detection, Purge Volume Calculations, and Soil Gas Sampling Data Sheets

- **Enthalpy Analytical Field Guide For Use of the Helium Shrouds (9 pp)**
- **Standard Operating Procedures: MAI Helium Shroud During Soil Gas Sampling for Quantitative Leak Detection (8 pp)**
- **Soil Gas Purge Volume Calculations (1 p)**
- **June 4 and 5, 2018 Soil Gas Sampling Data Sheets (8 pp)**
- **September 6, 2018 Soil Gas Sampling Data Sheets (2 pp)**
- **October 17 and 18, 2018 Soil Gas Sampling Data Sheets (10 pp)**
- **December 10 and 15, 2018 Soil Gas Sampling Data Sheets (5 pp)**

Enthalpy Analytical Field Guide For Use of the Helium Shrouds

ENTHALPY
ANALYTICAL

Field Guide for Use of the
HELIUM SHROUDS

Table of Contents

Figures & Diagrams

Introduction

Sampling soil gas wells using Helium leak tracer is not inherently difficult using Enthalpy Analytical's equipment, but it is relatively unforgiving of mistakes. The equipment has been field tested and through these tests we've learned that good results necessitate reviewing this document and following the procedures specified here. We strongly encourage our clients to practice set-up, Helium charging the shroud, using the detectors, and breakdown prior to sample collection. We've seen a very strong correlation between a thorough equipment orientation and successful sampling events. User errors related to a lack of orientation and preparation are the primary root cause of sampling errors and equipment failures.

The equipment supplied by Enthalpy Analytical's Berkeley laboratory has been cleaned, assembled, and leak tested using both pressurized Helium and vacuum decay methods. The preparation of all sampling equipment and media has been thoroughly documented.

If you suspect the sampling equipment is damaged or not functional, before using it please inform your laboratory Project Manager by calling the lab at 510-486-0900. Used and returned damaged equipment will be assessed cost for repair and replacement. Please do not disassemble and reassemble sampling trains and shrouds. They have been critically cleaned, assembled and leak checked for your use without further need for alteration. By breaking connections in sampling trains, users invalidate the lab's cleaning and prep effort.

Use of and Care for the EA-Berkeley Helium Detectors

When used properly, these diffusion cell He detectors provide real time measurement of Helium concentration in air from 1% to 99% Helium to accuracies of 0.1%. Prior to delivery, the He detectors are calibrated and performance verified. If, upon initial check, you discover the He gauge is apparently not working properly, call your C&T project manager immediately; repair and replacement costs will be assessed for all sensors returned damaged to the lab.

Figure 1: Diffusion Cell (left) and Flow-Through cell (right) Helium Detectors

Battery Charges last 4 hours: Helium Detectors using rechargeable NiCd batteries are fully charged before leaving the lab and hold a charge for 4 hours of use. Turn detectors on for use and off immediately after use and you'll make it through a day's sampling event without losing charge. The lab does not supply rechargers to users because the Diffusion and Flow-Through types require different voltages; using the wrong charger damages the detectors.

3 position switch: **On** is up, **Off** is neutral and down.

Required use technique for accurate Helium tracer measurements: These He detectors are sufficiently durable for portable field use; however they are precision measurement devices unforgiving of mistreatment or abuse, accordingly:

- Keep the He detector clean at all times, particularly around the white diffusion membrane cell opening. Dirt on, or in, the diffusion cell well will compromise calibration and result in extra fees for cleaning and recalibration.
- The He detectors are shock sensitive. Dropping the gauges onto a hard surface from a height of 2' or more can compromise calibration and may irreversibly damage the sensor and cause replacement or maintenance cost assessments. Please store and transport the gauges in the foam lined box provided.
- Helium detectors are moisture sensitive, don't get them wet

Accepting Enthalpy's Helium detectors binds your firm to the following conditions of use:

- Replacement costs are $900 + applicable shipping costs and sales tax.
- Minimum diagnostic, recalibration, and maintenance charges for damaged sensors are $120.

1. SETTING UP the Equipment

Equipment Supplied by EA-Berkeley

The following equipment should be present in the supply kit provided from the lab:

a. Integral shroud box and sampling train with 3 port valve
b. Helium supply components a) Helium bottle(s) (one bottle supplies enough for 4 wells), b) Braided steel Helium transfer tube with male QT connectors and; 3) Helium supply regulator with female QT connector
c. Helium Detector: Diffusion cell type (4 hours use on one charge)
d. Helium Detector: Flow-Through type (4 hours use on one charge)
e. Male QT ¼" OD Teflon tubing connector for connecting in port on flow through Helium detector to Purge port on Shroud
f. QT Vacuum gauge
g. 1.4 liter Sample canisters, one for each sample to be taken, some users request an extra to cover any aborted sampling events, well relocations etc…
h. Graphite or Ceramic ferules for joining ¼" OD Teflon tubing to well, one provided in each shroud/train inside the nut in the open port of the 3 port valve used to connect the soil gas well to the train.

Equipment NOT supplied by EA-Berkeley:

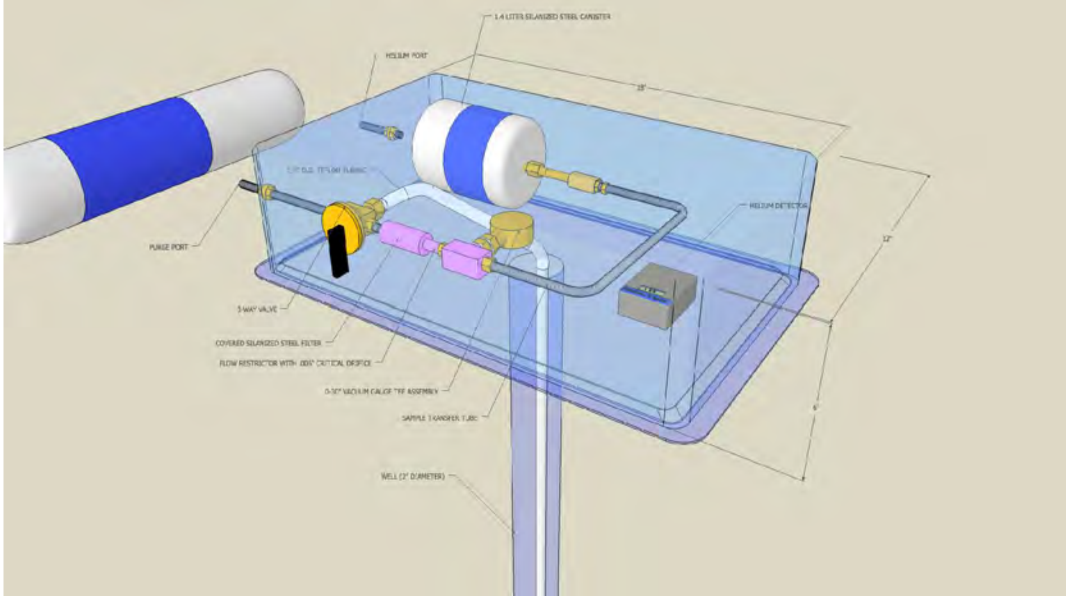
You will need the following items to complete your work; these items are not supplied by C&T unless specially requested:

a. Well purge suction source, alternatives available from the lab are: a) 50 ml disposable syringe with tubing adapters, b) evacuated 6 liter summa canister with 180 ml/min flow restrictor and filter, c) battery powered vacuum pump, d) 110V VAC powered vacuum pump
b. ½" x 9/16" open end combination wrench and one small crescent wrench. These are the tools needed to make compression fitting connections. C&T does not rent wrenches.
c. Extra Graphite or ceramic ferules as needed to insure you make a good well to train connection
d. ¼ OD Teflon tubing…Typically the well drillers have a lot of this stuff, if you need it
e. Knife (for cutting Teflon tubing)

1.1. **Position the shroud lid over the well.** Consistent Helium concentrations arise when the shrouds are used with the wellhead box lids provided. Some user protocols specify no box lid; in these cases, piling dirt around the edges of the box works to keep Helium inside the shroud. On windy days, a plastic windscreen employed either as a cover over the shroud or as an "air dam" has provided good results. We've experimented with using yoga mat material as "gaskets" for subslab sampling with mixed results.

If you're using the lid, and we recommend you do, position the lid over the wellhead with the tubing arising through the hole in the lid. There is an audible snap when the lid is optimally attached.

Figure 2: Helium Tracer Shroud Components



1.2. Once the shroud lid is positioned over the well, check that the 3-way valve is in the ***off*** position and the train pressure gauge showing a vacuum.

This is your indication that the train is leak-free since leaving the lab and all you need do is make a tight connection from the well to the open port on the 3-way valve. If the 3-way valve is not in the ***off*** position as a result of some error in shipment, there may be no vacuum on the gauge. At this point, your sampling protocols will determine whether the train can be used or not.

All trains leave the lab holding vacuum with decay rates less than 5” in 12 hours. Many shroud trains have inconsequentially slow leaks; trains are stored more than 3 days since being shipped from the lab may have no vacuum showing on the gauge. In these cases, you can check the vacuum decay rate by connecting an extra canister to the train and observing the vacuum decay rate.

2. CONNECTING the Well to the Train 3-port Valve

2.1. To connect the soil gas well to the sampling train, you will be joining ¼” Teflon tubing to the 3-port valve. Either a ceramic or graphite ferule has been provided inside the nut on the open port of the 3-port valve for you to make this connection. The most important component in a compression fitting is the ferrule, which is prone to damage. Care should be used when installing it although if ceramic or graphite ferules become defective, it is easy to install a replacement.

A “straight” even tubing end in the ¼” OD Teflon tubing from the well to the 3-port valve is important to making a “tight” connection. Use a knife rather than scissors to cut the tubing at a 90 degree angle to the tube axis. Remove any “burrs” or irregularities in the tubing end before attempting the connection. Slip the nut over the tubing, then the ferule. The ferule should “point” toward the 3-port valve. Usually, it is not possible to install ferules “backwards”.

2.2. Keeping the 3 way valve in the ***off*** position, attach the well tubing to the open 3 way valve port. Avoid excessive force when tightening the nut. Over-tightening is the most common cause of leaks in compression fittings. If the nut is over-tightened, the ceramic or graphite ferrule frequently deforms, improperly causing the joint to fail. A good way to make these connections is to tighten the nut first by hand, until it is too difficult to continue, and then use a 9/16” open end wrench to tighten the nut with a full 360 degree turn; no more than a 1 and 1/4 turn should be needed to create a leak tight connection.

3. ATTACHING the Sample Canister to the Train

3.1. **Check the vacuum** in the sample canister using the QT Vacuum gauge, it should read -30” of Hg (full vacuum) if it reads less, use another sample canister.

3.2. While keeping the 3 way valve in the off position, attach the canister to the female QT fitting at the rear of the sampling train as follows:

  3.2.1. Pull the external sleeve of the female QT connector back to its stop, then
  3.2.2. Insert the male valve stem and allow the sleeve to return to its spring loaded position. When the QT connection is made the canister (male) valve is open to the train.
  3.2.3. Try to pull the canister off the train without retracting the female QT sleeve. A correctly made QT connection cannot be broken without retracting the sleeve on the female valve stem.

A word about Micro QT Fittings: Micro Quick connect valves (QT) offer superior performance and ease of use compared to alternative tubing connections and valves. QT fittings provide highly reliable leak free connections without tools especially for fittings that are made and broken frequently.

Fine sand and/or grit (such as dry bentonite) damages male and female QT valves and connections. Keep both male and female QT valve components scrupulously clean. Please use the orange or red plastic caps provided for the male QT fittings, they protect the valve stem while shipping and protect your sample during return shipment to the lab.

When removing or replacing orange plastic protective caps on the male QT fittings, push them straight on and pull then straight off the valve stem. Twisting the cap counterclockwise while removing or replacing on the valve stem can dissemble the valve stem causing vacuum and/or sample loss.

4. POSITIONING the Shroud over the Well

4.1. Position the diffusion Helium gauge out of the way on a portion of the lid that allows you a good view of the display with the shroud in place. Then invert the shroud assembly over the lid and snap lid into position.

4.2. With the shroud assembled in place, you should be able to view the vacuum gauge well enough to verify that vacuum is holding and you can see the Helium detector display. Our apologies for the opaque portions of the boxes, if you know of hard plastic boxes, with clear panels we'd love to learn about them.

5. CHARGING the Shroud with Helium

Enthalpy provides Aluminum lecture bottles filled with 300 psi Helium; each bottle of Helium contains 48 liters at atmospheric pressure, enough to easily supply 20% Helium atmospheres to 6 single Shrouds and 3 double shrouds. The amount of Helium used depends predominantly on wind and time required to sample the well, with experience, you'll use less Helium. Your protocol will specify the Helium concentration in the shroud. The following guidance is based on sampling under a 20-25% Helium in air atmosphere. Regardless of your target helium concentration, your objective

should be to maintain a steady concentration of Helium during the sampling event at levels above 10% Helium in air.

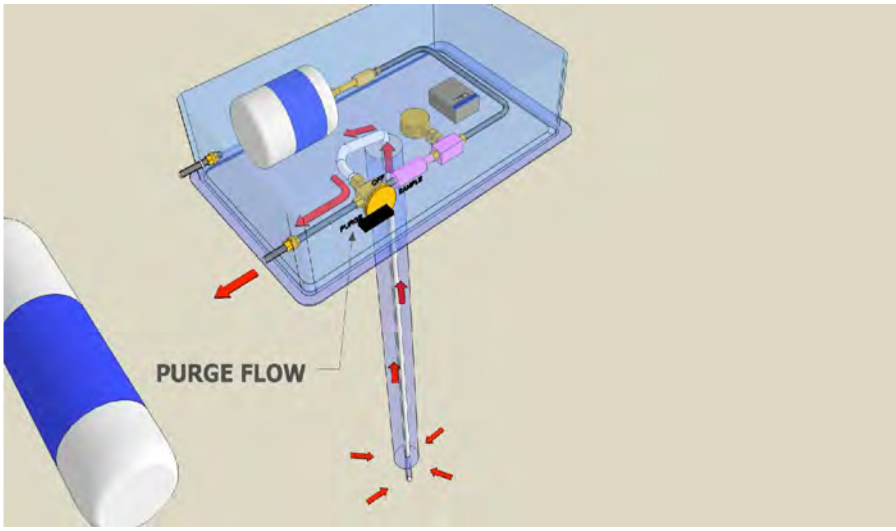
5.1. Locate and assemble the Lecture bottle, Helium transfer line, and the gas supply regulator. Tighten the brass nut attaching the regulator to the bottle one half turn past finger tight with a crescent or 9/16" open end wrench. The regulator is preset to deliver Helium at ideal pressure; ***you need not adjust the regulator***. Add Helium to the shroud by opening and closing the valve at the top of the bottle. Attach the Helium transfer line using the QT fittings at the regulator and at the Helium port on the shroud.

5.2. To provide Helium flow, slowly open the lecture bottle valve by twisting ***counterclockwise*** about ¼ turn.

5.3. Deliver 10 lbs of Helium at a time to the ***single*** shroud and 20 lbs to the ***double***. The diffusion cell Helium detector will respond in about 30 seconds to the new concentration. Unstable Helium detector readings reflect turbulent gas mixing inside the shroud. Plug holes between the shroud and the surface, use plastic sheeting to create an "air dam" or take other measures to air movement around the shroud and thus turbulence inside the shroud.

5.4. Monitor the Helium concentration displayed on the gauge in the shroud for about a minute in single shrouds, 90 seconds or longer in doubles. Under ideal conditions, 40 psi from the bottle will charge a single shroud to 25% helium concentration; double shrouds will require 80 psi. 25% Helium concentrations are maintained in the lab (zero wind) for 6-10 minutes. You may add more helium while purging and sampling. We suggest 10 psi increments for singles and 20 psi for doubles by opening the lecture bottle valve ¼ turn. We suggest users record/document the Helium concentration in the shroud at a minimum of 2 minute intervals during sampling.

Figure 3: Purge Flow Diagram



6. PURGE TESTING the Well under Helium

This test will help you establish the integrity of the well and the train to well connection. If no Helium is detected in the purge gas flow using this technique, one can assume the well is tight to breakthrough, and the train connections are all tight, and thus there will be no Helium detected in the sample that goes to the lab.

6.1. While getting the Helium concentration established, assemble the well purge train. Place the inline Helium detector between the shroud and whatever device (evacuated canister, syringe, or vacuum pump) that you're using to provide purge suction.

6.2. With the Helium atmosphere established in the shroud at 20% or more, and the purge system ready to operate, begin purging by moving the 3 way valve selector position to ***Purge*** and then establishing suction on the purge line.

6.3. Observe the inline Helium detector display while applying suction on the purge line. If you've purged enough vapors from the well to represent the entire volume of the path from the surface (under Helium atmosphere) to the distal end of the sampling tube and back up the tube and through the detector without detecting any Helium, your well shows signs of integrity and you may have a good leak free sample.

CA-DTSC guidance provides the opinion that a 5% ambient air dilution is inconsequential to sample integrity. When sampling under a 20% Helium in air atmosphere, 1% Helium detected in the purge gas represents a 5% ambient air sample dilution.

7. SAMPLING the Well under Helium

After you've completed purging the well, verify the reading on the Vacuum gauge of the train is -30 inches and that you have a steady state concentration of Helium between 20-25%, and then begin sampling by moving the 3 way selector valve to the ***Sample*** position.

Monitor the Helium concentration in the shroud by recording the reading on the diffusion cell detector inside the shroud every other minute or so. Add Helium from the bottle as needed to maintain a steady state concentration of Helium under the shroud.

Figure 4: Sampling Flow Diagram

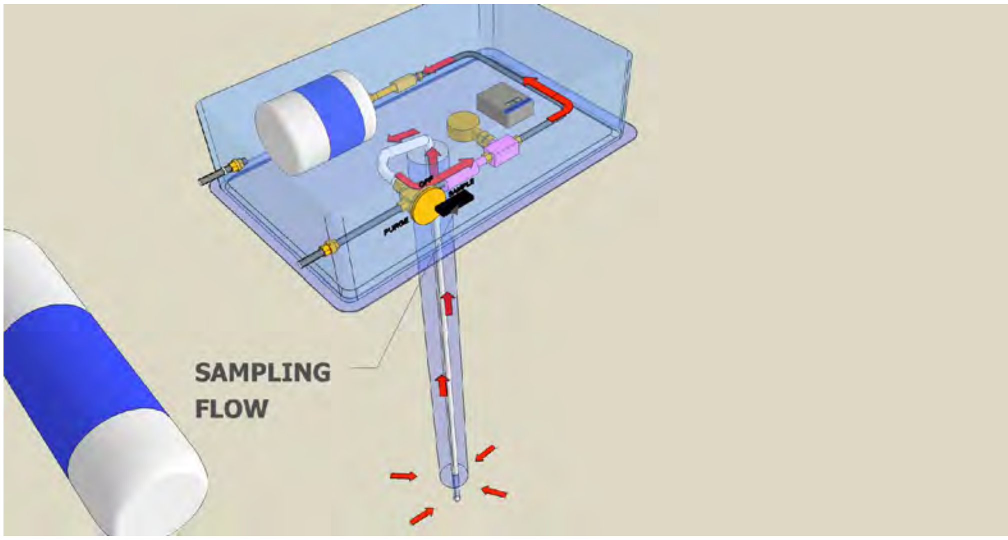
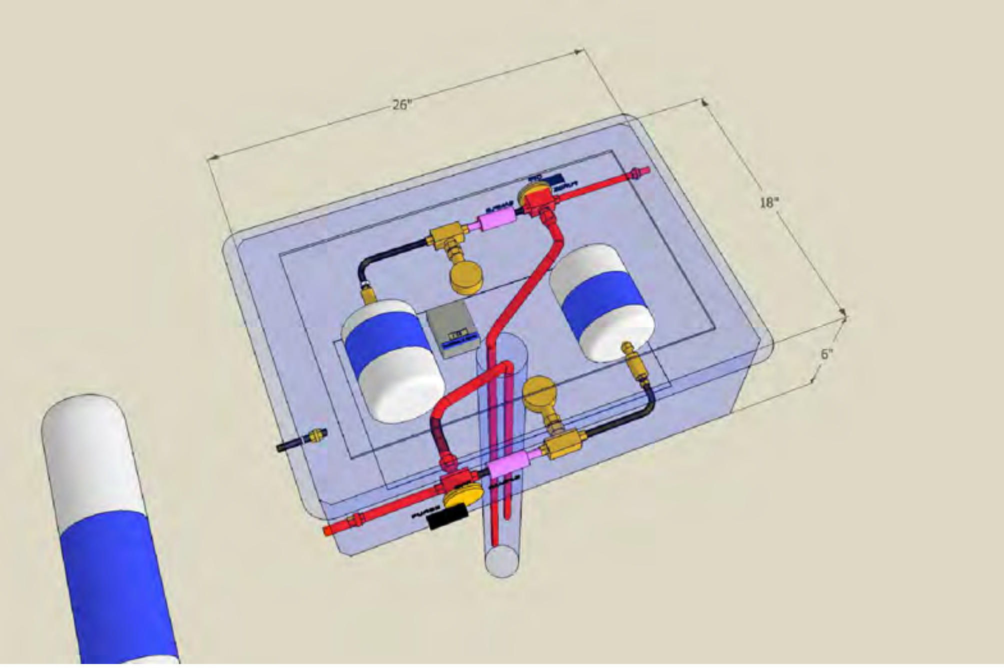


Figure 5: Dual Depth Well Sampling Shroud



Standard Operating Procedures: MAI Helium Shroud During Soil Gas Sampling for Quantitative Leak Detection

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Standard Operating Procedure:

MAI Helium Shroud during Soil Gas Sampling for Quantitative Leak Detection

1. Scope and Application

1.1 The purpose of the Helium shroud technique is to detect leaks during the soil gas sampling procedure.

2. Summary

2.1 The shroud is placed over the borehole to be tested & infused with helium at low pressure. The shroud does NOT need to be gas tight, just rich with Helium vapor. Compared to other liquid leak check compounds such as propanol(s) or Freons, Helium does not interfere with the target compound measurements and hence eliminates the need for sample dilutions, which results in better reporting limits. If there is a leak that comprises less than 5% of the sample, Helium content can be quantitatively analyzed, and the leak dilution factor can be determined during the laboratory analysis after soil gas sampling. A leak of less than 5% is considered an acceptable leak as specified in March 2010 DTSC soil gas sampling guidelines.

2.2 Use of the Helium shroud with an MAI designed soil gas manifold has the following capabilities.

2.2.1 Borehole seal integrity. Surface air intrusion can be checked in real-time, so that sampling can be aborted as wanted.

2.2.2 The Helium shroud can be used with MAI supplied purge can, user-supplied vacuum pump, or a manual syringe.

2.2.3 Allows shut-in-test for verification of leak free manifold.

2.2.4

- Quantitative measurement of Helium content within shroud, which combined with lab analysis of Helium content in sample can, allows quantitative evaluation of leak and assessment of < 5% DTSC criteria.
- Rotameter and vacuum gauges allow assessment of DTSC defined low permeability soils and provide the needed flow/ vacuum measurements required for compliant sampling.
- MAI's specially designed sampling manifolds offer the option for split sampling upon request. Simultaneous duplicate TO15 and sequential TO15 followed by TO17 sorbent tube (ST).
- MAI's special design optionally allows for simultaneous sampling of a borehole at 2 different depths.
- Allows visual monitoring of shroud helium content via helium meter.
- Sample technician friendly: allows flood or trickle/maintenance helium input.

2.3 MAI's helium shroud is covered with a secured flexible plastic sheet that functions as the lid. Handling of the equipment inside the shroud is done through the sheet. Practice before field sampling is encouraged for a successful sampling experience.

3. Equipment & Supplies

3.1 All the necessary devices needed for a complete soil gas sampling process with Helium as leak check compound are provided by MAI. Complete basic kit includes: Helium tank, Helium meter, small pump, purge can with Rota meter attached, cork borehole barriers, sample cans and manifolds. (See figure 1.)

3.2 The following equipment listed below is provided by MAI.

3.2.1. Six-liter plastic shroud box with lid of plastic sheeting. There are five connection ports located on the sidewalls of the shroud. They are labeled respectively as Port #1, Port #2, Port #3, Port #4 and Port #5 (See figure 1).

a. Port #1 is for attaching the Purge can/ a vacuum pump to the sample train.

b. Port #2 is the connection of the air pump to the shroud. The air pump facilitates the stabilization of the Helium concentration at 20%.

c. Port #3 connects the Helium meter to the shroud for monitoring Helium content in the shroud.

d. Port #4 allows a reading of Helium in the borehole, when borehole integrity test is needed, as well as a purged volume determination with a syringe

e. Port #5 connects the Helium shroud to the Helium supply tank.

f. Two inch diameter opening for borehole access.

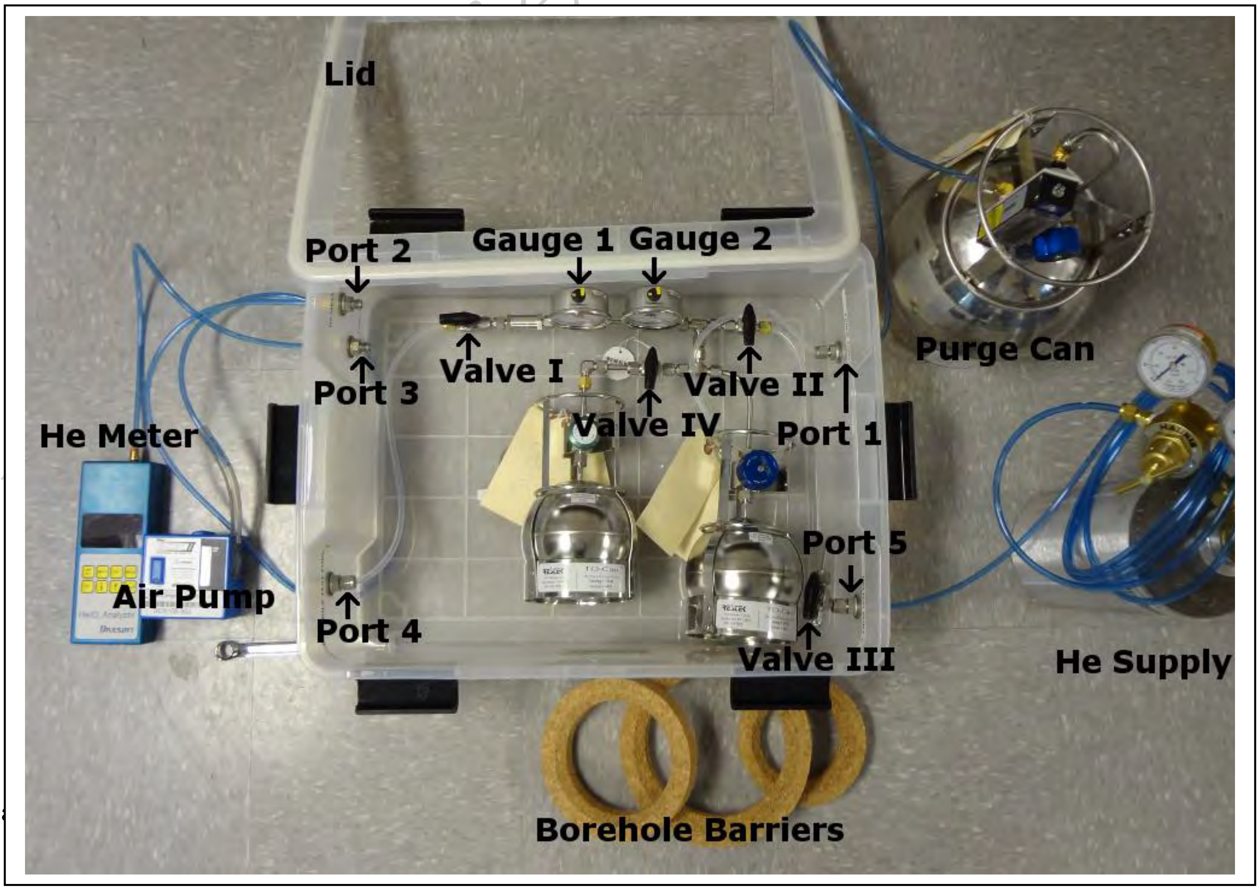

Figure 1. MAI designed Helium Shroud

3.2.2 A 2.24-liter Helium (99.995%) cylinder with a regulator set at 10 psi. Check the pressure gauge on Helium tank prior to sampling. If the pressure gauge reads less than 100 psi, then the Helium tank must be replaced.

3.2.3 A superior Helium meter, which measures Helium/Oxygen concentrations from 0% to 100% with ± 0.1% accuracy. The connection ports on the helium meter have been labeled for your convenience. A fully charged Helium meter should last up to 10 hours. *Note: To obtain an accurate reading on the Helium meter, the sampler must use the 60 mL syringe and give a quick pull on the plunger. (Pulling 60 mL of air through within a second is sufficient.)

3.2.4 The 60mL syringe is used to provide suction and force the airflow through the Helium meter or to quantify the "purged volume"

3.2.5 One Sensidyne pump set at 1250mL/min for maintaining a stable 20 %(±2%) Helium concentration in the shroud.

3.2.6 One 6-liter purge canister with Rota meter attached as suction/evacuation source for leak testing, well purging and a check for low permeability soils.

3.2.7 Cork shroud stabilizers of various sizes are included to level/stabilize the helium shroud.

3.2.8 An additional 1-liter sample canister can be provided for the optional TO17 sampling in order to:

a) to provide vacuum to pull sample through.
b) to allow calculation of the volume pulled through.
c) analyze for Helium as a leak check compound

The helium shroud may be reused for multiple borehole sites. However, due to potential cross contamination between borehole sampling, each borehole tested requires a separate certified 1-liter sample canister and certified sampling manifold. As there is no helium shroud tubing that contacts the sample upstream of the manifold; all Teflon tubing is reused.

4. Sampling Media

4.1 MAI's sampling manifold, which includes the following:

a. 3-way valveI on the borehole side of the manifold. The tapered end of the valve points to its connection direction.
b. A stainless steel 7-micron particle filter.
c. Vacuum gauge #1 reads the borehole side pressure.
d. A stainless steel flow restrictor.
e. Vacuum gauge #2 reads the sampling canister pressure and indicates when to stop sampling
f. Optional split sample attachment.
g. 2-way valve turns on/off the access to the purge can.

4.2 A 1-liter certified sample canister

4.3 An optional thermal desorption tube (sorbent tube) for TO-17 (MAI routinely includes naphthalene in TO15).

4.4 An optional split sample manifold attachment
  a. for simultaneous TO15 duplicate
  b. for serial TO15 and TO17 sorbent tube
  c. Optional second manifold for dual depth simultaneous sampling.

4.5 The soil gas manifold is leak checked in the lab prior to preparation for distribution. DO NOT DISASSEMBLE SOIL GAS MANIFOLD IN ANYWAY. Any damage to the equipment during sampling will incur repair fees.

5. Procedure

5.1 Assemble the shroud

5.1.1 Place cork shroud stabilizer over wellhead (various sizes provided for convenience and shroud stabilization)

5.1.2 Position shroud box so 'borehole access' is over borehole/borehole barrier, ensure well sampling tube rises up through wellhead and gasket into helium shroud box.

5.1.3 Position sampling manifold and sample canister(s) in shroud and make necessary connections.

Note: Optimally, to reduce contamination, cut surface section of well tubing before connecting to Valve I.

5.1.4 Connect the well tubing to 3-way valve I (the port that is perpendicular to the manifold) Tighten the nut over the tubing to make a good seal but do not over tighten as brass ferrules can easily shear Teflon tubing.

5.1.5 Connect the port 4 tubing to the remaining end of Valve I on the manifold. (the port in line with the manifold)

5.1.6 Connect Valve II to the tubing of port1

5.1.7 Connect purge can to Port #1 on the outside of the shroud box

5.1.8 Helium supply line is connected to Port #5.

5.1.9 Helium meter is initially connected to Port #3 for testing Helium concentration in the shroud. Prior to sampling, to conduct well integrity test for helium content, connect helium meter to Port 4.

5.1.10 Connect air pump to Port #2.

5.2 Charge the shroud with Helium

5.2.1 Initial Charge

5.2.1.1 Place plastic sheet loosely over box and secure with lid and lid clamps. Ensure a loose fit for valve manipulation. Ensure there are no gaps between the plastic sheet and lid. It is NOT necessary to adjust regulator pressure for helium supply bottle; it is preset at 10 Psi by MAI to sustain a constant 250mL/min helium flow to shroud and optimized for maintaining a 20% helium concentration. Turn 3-way valve III to 'flood' position (tapered end of the valve points to the nearest shroud wall) for initial Helium charge, which takes less than 5 seconds to is needed to reach a 20% Helium concentration. Briefly kneading the plastic cover post helium "flood" will expedite a 20% Helium equilibrium within the shroud.

5.3 Sampling train volume estimation.

- MAI has estimated sampling train volumes for multiple sampling configurations. Volume estimates are calculated from manifold's Valve I to the source of suction. They are listed here for sampler's convenience:
- Single sample configuration: 18.8 mL
- Duplicate sample configuration: 20.6 mL
- Serial TO15 and TO17 with Helium sample canister: 20 mL
- Serial TO15 and TO17 without Helium canister: 18.8 mL

5.4 Maintaining Helium Concentration in Shroud

5.4.1 After initial "flood" of helium (about 5 sec), turn Valve III to 'low purge' position (tapered end of valve –with arrow– will point toward far shroud wall/Port 1). The helium tank is set at 250 mL/min helium flow, used in conjunction with an air pump at the opposing side of the shroud; pulling 1.25 mL/min out of the shroud will roughly maintain a 20% helium concentration within the shroud.

Note: Initial helium concentration will be much higher than 20%, however it will stabilize in roughly 5 min.

5.4.2 Monitor helium concentration within shroud regularly throughout sampling process to assure it is maintained at 20% helium (±2%). To do this, simply attach the 60mL syringe to the outlet on the meter and quickly pull 60mL, repeat two times (total of three pulls). It is recommended to record the helium concentration within the shroud once every minute (April 2012 DTSC Advisory).

5.4.3 Maintain helium at 20% concentration for five minutes before beginning sampling process.

5.5 Shut In test

5.5.1 The purpose of this test is to detect leaks in the above-ground sampling apparatus.

5.5.2 A six liter evacuated canister is employed as the vacuum source for the Shut-In test and the Leak test. A Rota meter attached to the purge can monitors flow rate, Gauge 1 (left side) on the manifold indicates vacuum level of well in negative inches of mercury (- inHg).

5.5.3 Ensure sampling container(s) and Valve I are closed (Valve I is closed when perpendicular to manifold); open Purge Can valve, then open 2-way Valve II (Valve II open when in line with manifold).

5.5.4 Once vacuum gauges read -30 inHg (or 100 inH20) close Purge Can valve. Verify absence of a significant leak by monitoring vacuum gauges on sampling manifold for a loss of vacuum for AT LEAST ONE MINUTE.

Note: No movement on either gauge for ONE MINUTE is sufficient to proceed (during this time, see "6. Leak Test" below, and perform the Leak test before proceeding here). If there is a noticeable leak *of the sampling train during the Shut-In test, REPLACE the manifold and REPEAT the Shut-In test of the new manifold.*

5.5.5 If no significant leak is detected; Valve I and purge can valve are reopened and soil permeability is noted.

Note: Two criteria MUST be met; sample flow of at least 100mL/min AND borehole vacuum of -7.35 inHg are required to proceed. If these conditions are not met, damage to MAI equipment may occur at the expense of the sampler. Please see the "Sampling" section of this document for sampling procedure when the aforementioned criteria are not met.

5.6 Leak Test

5.6.1 The purpose of this test is to determine if ambient air is introduced into the sample during collection

5.6.2 The MAI Helium Shroud design allows for the Leak test to be performed while the Shut-In test is in progress. The Leak test is performed to verify a gas-tight connection between the borehole tubing and the manifold as well as confirm a good grout "seal" prior to sample collection.

5.6.3 It is used for shallow wells to determine if there is high permeability between the sub-surface sample tubing and the ground surface. This test is useful only if sampling will be aborted if a borehole leak is detected.

5.6.4 While waiting the "one minute" time requirement of the Shut-In test, attach helium meter to end of blue tubing on Port 4.

5.6.5 Using 60mL syringe take a helium reading of the borehole; attach syringe to outlet of meter and give a quick pull on the plunger. (Pulling 60 mL of air through within a second is sufficient.) Repeat 2 times to get an accurate reading.

5.6.6 If shroud is charged to 20% (±2%) helium and meter reads < 1% helium in well, borehole seals pass DTSC< 5% leak criteria.

5.7 Purge Volume Test

5.7.1 *Note: There are several procedures for determining well volume and purging well volume. Please refer to the* April 2012 DTSC Advisory section 4.2.3 – 4.3 *for more information. An accepted method is listed below; however, this method may not be appropriate for all wells and may not always apply.*

5.7.2 Turn 3-way Valve I so it is perpendicular to the manifold (pointing towards Port 4). Attach 60 mL syringe to end of blue tubing attached to outside of shroud box at Port 4.

5.7.3 Using the supplied 60mL syringe, pull suction on borehole sampling tube until plunger resistance is felt, noting final volume evacuated. The default purge volume is three times that of the well tubing volume (April 2012 DTSC Advisory

5.8 Sampling

5.8.1 After Shut-In test, Leak test, and purge volume procedures have been completed and helium concentration is maintained at 20% (±2%); ensure 3-way Valve I is perpendicular to manifold (pointing towards Port 4) and therefore allowing sampling from well.

5.8.2 Conventional TO15 summa sample collection procedures are now used. Generally, sample collection ceases when Gauge 2 (located on the sample canister side) reads approximately -5 inHg. **At 150ml/min a 1L summa will fill in approximately six minutes**. During sampling monitor helium concentration regularly.

5.8.3 DTSC recommends samples not be collected if down hole vacuum (Gauge 1) registers < -7.35 inHg (-100 inches of water), or flow falls below 100ml/min, indicating soil permeability is too low.

5.8.4 If low permeability is observed, close sampling can from sampling train IMMEDIATELY to prevent excessive moisture from entering into sampling canister, as this will invalidate the sample.

5.8.5 If soil is observed as low permeability soil, special sampling procedures are required as outlined in April 2012 DTSC Advisory App D.

5.8.6 If borehole vacuum reaches < -7.35 inHg, sampling should be suspended by closing valve on sampling can. After a few minutes, soil gas will replenish borehole and vacuum will gradually dissipate (refer to Gauge 1 located on borehole side of manifold for vacuum reading during this time). Sampling may resume after soil gas replenishes.

5.8.7 Once vacuum decreases, and sampling resumes, it is imperative that the sampler closely monitors borehole pressure as it may drop below -7.35 inHg again. If this occurs, repeat the 'shut' to 'replenish', then 'sample' cycle until sampling is completed. Length of replenish time depends on permeability of soil.

5.9 Optional Sampling Step

5.9.1 Sequential TO15 and TO17 sampling:

Naphthalene may be required to be sampled using TO17 sorbent tubes and a helium shroud. A modified set up for split sampling can be used, which consists of one TO15 sample can, a sorbent tube (ST), a TO17 purge/sample can, an additional 2-way valveIV and a 75ml/min flow restrictor, the latter two items are both located on the 'split sample attachment'. The TO17 ST is located between the 2-way valveIV/flow restrictor and the purge/sample can. This configuration is ideal for the following:

5.9.1.1 Restricts flow to the prescribed 50-100ml/minute (DTSC stipulation)

5.9.1.2 Allows naphthalene to be collected on the ST

5.9.1.3 Helps determine collected air STP volume that has passed thru the ST by lab measurement of the sample can initial and final pressur

5.9.1.4 Collects sample for helium leak check analysis in that branch's sample can.

5.9.2 Installation of TO17 sorbent tube also requires the sampling flow direction is the same as indicated on the tube body. Naphthalene cannot be desorbed from the tube if collected at the wrong end of the tube. Teflon (TFE) ferrules are used for connections on the ST. Use of metal ferrules are strictly prohibited for connecting TO17 ST as they permanently damage the tube, Such damage will be billed to sampler.

5.9.3 An alternative TO-17 sampling technique, using the above set up but without the helium shroud & without the second pristine purge can, can be performed by using IPA wetted rags as the leak check and a vacuum pump or 'used' purge can suction. IPA needs to be added to analytical the target list.

5.9.4 Duplicate TO15 sampling. Simultaneous duplicate sampling can be achieved by connecting an additional 1-liter canister to the manifold. The designated 'split sample attachment' must be used. Note: When TO17 ST sampling is needed, 2-way valveIV is in 'off' position during the shut in test. The valve is only turned on for sampling TO17 ST. On the contrary, 2-way valveIV is 'on' for the shut in test during simultaneous TO15 sampling.

6.0 Disconnect and move to the next site

6.1 After sample collection; close valve to sample canister, close valve on helium Supply, remove shroud lid, and detach borehole tubing from sample manifold.

6.2 Carefully label and remove sample manifold(s), canister(s) or sorbent tube(s) from shroud and ready the sampling apparatuses for shipment to McCampbell Analytical Inc.

6.3 Place the attached purge can, helium tank, 60 mL syringe, helium meter, air pump and tools into the shroud body, carefully remove the shroud and its contents from the borehole and collect the borehole seals/stabilizers and place them into the shroud box.

6.4 The shroud is now ready for transport to next borehole: the helium shroud, helium supply tank, helium meter, air pump, syringes and purge can are reusable. However, a clean certified manifold and sampling canister are needed for sampling the next well site.

6.5 When the sampling apparatuses are shipped to McCampbell Analytical Inc., TO-15 (or client specific target list) helium should be requested for analysis. Be sure to fill out Chain of Custody (COC) as completely as possible. All serial numbers of the equipment used for the sampling event need to be recorded on the COC.

7.0 References

6.1 Cal/EPA March 2010, Theo Johnson: Department of Toxic Substance Control, Advisory-Active Soil Gas Investigation DRAFT Advisory – Active Soil Gas Investigation CA EPA, March 2010

Soil Gas Purge Volume Calculations

Report 0772.R4
7.0 feet tubing, 12 inch sand interval, 6 inches hydrated bentonite interval above sand

Soil Gas Purge Volume Calculations

One Purge Volume is calculated as the volume of the tubing interior plus the volume of the sand interval of the borehole.

The tubing interior volume is calculated as follows:

V tubing = pi x (r x r) x h, where pi = 3.14, r = 0.187 in/2, and h = 7.0 ft.

V tubing = 3.14 x (0.0935 x 0.0935) x (7 ft. x 12 in./ft) = 2.31 cubic inches.

The sand interval volume is calculated as follows:

V sand interval = pi x (r x r) x h x porosity, where pi = 3.14, r = 3.5 in./2, h = 12 in., and porosity = 0.35

V sand interval = 3.14 x (1.75 x 1.75) x 12 x 0.35 40.39 cubic inches.

The total volume for one purge volume is V tubing + V sand interval, where

V total = 2.31 cubic inches + 40.39 cubic inches = 42.69 cubic inches.

To convert to cubic centimeters:

V total = 42.69 cubic inches x 16.39 cubic centimeters/cubic inches = 699.8 cubic centimeters.

The total volume to be purged is 3 purge volumes.

V purge total = 699.8 cubic centimeters x 3 2099 cubic centimeters.

The flow controller has a nominal flow rate of 150 cubic centimeters per minute.

The purge time is calculated as follows:

T purge = 2099 cubic centimeters/ 150 cubic centimeters per minute = 14.00 minutes.

Converting the purge time to seconds, 14.00 minutes x 60seconds/ minute = 840 seconds.

Notes:

🟨 Yellow hi-lite indicates data entry required.
🟦 Blue hi-lite indicates values are calculated or automatically updated.

Sand interval is 1 ft from 5 to 6 ft bgs, filter is at center of sand pack, 0.5 ft hydrated bentonite above sand, then neat cement to surface.

June 4 and 5, 2018 Soil Gas Sampling Data Sheets

SOIL GAS SAMPLING DATA SHEET

Site Address: The Phoenix - 801 Pine St, Oakland
Job #: 772
Date: 6/4/2018
Drilling Company: None
Laboratory: Enthalpy Analytical
P&D Sampler: LKD

Soil Gas Well Number: SG4

Page 1 of 1

Probe Method (check one)
○ PRT
○ Temp Well
☑ Permanent Well

Summa Canister Number: 398
Duplicate Summa Canister Number:
Shroud Number: 311
Helium Shroud (Y/N): Y
Initial manifold vacuum/ time: -10 10:13

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
10:13	~~Start tr~~	00.3				
10:14	Start tracer gas	18.3				
10:19		4.0				
10:25	Start tracer gas	19.0				
10:30		18.3				
10:48:13	Begin purge	21.7	00.4			
10:49	Pull water					

SOIL GAS SAMPLING DATA SHEET

Site Address	The Phoenix - 801 Pine St, Oakland		Page 1 of 1
Job #	772	Probe Method (check one)	
Date	6/4/2018	○ PRT	
Drilling Company	None	○ Temp Well	
Laboratory	Enthalpy Analytical	☑ Permanent Well	
P&D Sampler	LKD	Summa Canister Number	313
		Duplicate Summa Canister Number	
		Shroud Number	313
Soil Gas Well Number	SG5	Helium Shroud (Y/N)	Y
		Initial manifold vacuum/ time	-30 11:19

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
11:18	Initial He reading	00.2				
11:23	Begin tracer gas	00.4				
11:27		20.1				
11:28		21.4				
11:29:25	Begin purge	17.6	00.6			
11:30	Water pulled - in manifold					

SOIL GAS SAMPLING DATA SHEET						
Site Address	The Phoenix - 801 Pine St, Oakland					Page 1 of 1
Job #	772			Probe Method (check one)		
Date	6/4/2018			○ PRT		
Drilling Company	None			○ Temp Well		
Laboratory	Enthalpy Analytical			☑ Permanent Well		
P&D Sampler	LKD			Summa Canister Number		126
				Duplicate Summa Canister Number		
				Shroud Number		318
Soil Gas Well Number	SG6			Helium Shroud (Y/N)		Y
				Initial manifold vacuum/ time		-30 12:09

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
12:09		00.3				Gages for SG well & summa vacuums pointed in hard to read directions
12:09:43	Start tracer gas	00.3				
12:11:41		19.4				
12:14:43		22.4				
12:16:40	Start purge	23.0	-00.4			
12:17:55		20.8	-00.3			
12:19:55		21.1	-0.6			
12:21:55		19.7	-0.6			
12:23:55		21.8	-0.6			
12:25:55		19.2	-0.6			
12:27:55		20.9	-0.6			
12:28:55		21.4	-0.6			
12:30:40	End purge	22.6	-0.6			
12:31:40	Begin sample	21.0	~~-0.5~~	-27	0.6	
12:33:43		~~19~~ 21.4	~~-0.5~~	-22	~~0.0~~ 0.0	
12:35:08		19.8	~~-0.5~~	0.0	19.0	
12:37:20		21.2	~~+0.5~~	0.0	12.5	
12:39:11		18.1		0.0	8.5	
12:41:01	End sample	24.1		0.0	5.0	

SOIL GAS SAMPLING DATA SHEET

Site Address	The Phoenix - 801 Pine St, Oakland
Job #	772
Date	6/4/2018
Drilling Company	None
Laboratory	Enthalpy Analytical
P&D Sampler	LKD
Soil Gas Well Number	SG6 - REP

Page 1 of 1

Probe Method (check one)
○ PRT
○ Temp Well
✓ Permanent Well

Summa Canister Number	
Duplicate Summa Canister Number	338
Shroud Number	318
Helium Shroud (Y/N)	Y
Initial manifold vacuum/ time	-30 13:25

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
13:22		0.4				
13:23	Start tracer gas	0.4				
13:25		21.6				
13:28		22.3				
13:29:08	Begin purge	21.9	-0.6			
13:30:14		22.2	0.8			
13:31	Shut off pump	20.0	0.7			
13:37		0.3				
13:39:04	Begin purge	21.5	-0.4			
13:40:45		19.5	-0.6			
13:41:20	Begin sample	21.8	-0.7	0.0	-28	
13:44:00		21.5		0.0	-19	
13:46:10		20.3		0.0	-13	
13:48:45		21.2		0.0	-8	
13:50:12	End sample	18.8		0.0	-5	

SOIL GAS SAMPLING DATA SHEET

Site Address	The Phoenix - 801 Pine St, Oakland
Job #	772
Date	6/4/2018
Drilling Company	None
Laboratory	Enthalpy Analytical
P&D Sampler	LKD
Soil Gas Well Number	SG6 - DUP SG6 - DUP / REP

Page 1 of 1

Probe Method (check one)
o PRT
o Temp Well
[✓ Permanent Well]

Summa Canister Number 271
Duplicate Summa Canister Number 420
Shroud Number 318
Helium Shroud (Y/N) Y
Initial manifold vacuum/ time DUP -30 13:56
DUP, REP -29.5 14:16

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
13:56		0.3				
13:56:20	Start tracer gas	0.3				
14:00:10		20.9				
14:02:20		19.1				
14:02:55	Pull on XTM	22.4	-0.6			
14:04:30	Begin sample	24.6	~~-0.6~~	0.0	-30	
14:06:29		20.1	~~-0.6~~		-23	
14:08:10		22.6	~~-0.6~~	0.0	-18	
14:09:40		23.6		0.0	-13	
14:11:29		24.0		0.0	-9	
14:12:44		20.9		0.0	-6	
14:13:25	End sample	19.5		0.0	-5	
	SG6-DUP,REP					
14:16:44	Inject tracer gas	0.4				
14:18:42		22.0				
14:20:15		20.0				
14:21:44		21.8				
14:22:25	~~Purge~~	24.5	-0.7			
14:22:55	Begin purge	25.0	-0.7			
14:23:55		23.2	-0.7			
14:24:15	Begin sample	21.8		0.0		
14:25:46		16.1		0.0	-23.	
14:27:30		23.1		0.0	-18	
14:29:15		21.4		0.0	-13	
14:30:39		19.4		0.0	-10	
14:32:57		28.0		0.0	-6	
14:33:10	End sample	27.2		0.0	-5	

SOIL GAS SAMPLING DATA SHEET

Site Address	The Phoenix - 801 Pine St, Oakland
Job #	772
Date	6/4/2018
Drilling Company	None
Laboratory	Enthalpy Analytical
P&D Sampler	LKD
Soil Gas Well Number	SG7

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Probe Method (check one)
○ PRT
○ Temp Well
☑ Permanent Well

Summa Canister Number	341
Duplicate Summa Canister Number	142
Shroud Number	270
Helium Shroud (Y/N)	Y
Initial manifold vacuum/ time	-29 14:40:55

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
14:40:55		0.1				
14:41:46	Start tracer gas	0.1				
14:46:46		21.3				
14:50:00	~~Begin purge~~	22.5				
14:51:47	Begin purge	24.9	-0.6			
14:53:24		19.6	-0.6			
14:55:10		19.6	-0.6			
14:57:10		19.8	-0.6			
14:59:10		21.4	-0.6			
15:01:10		21.0	-0.6			
15:03:10		20.5	-0.6			
15:05:47		20.4	-0.6			
15:06:15	Begin sample	20.0		0.0	-28.0	
15:07:53		15.7		0.0	-23	
15:09:44		19.5		0.0	-17	
15:11:22		21.8		0.0	-12	
15:12:44		22.1		0.0	-8	
15:14:18	End sample	21.9		0.0	-5	
	SG7 - REP					
15:19:40	Start tracer gas	0.2				
15:25:11		21.1				
15:25:35		22.1	-0.6			
15:26:05	Begin purge	21.2	-0.6			
15:27:20		20.5	-0.5			
15:28:57	Begin sample	18.5		0.0	-28	
15:31:03		14.3		0.0	-23	
15:33:00		18.1		0.0	-17.5	
15:34:40		19.0		0.0	-12	
15:36:20		22.9		0.0	-7	
15:37:00	End sample	20.1		0.5	-5	

SOIL GAS SAMPLING DATA SHEET

Site Address: The Phoenix - 801 Pine St, Oakland
Job #: 772
Date: 6/5/2018
Drilling Company: None
Laboratory: Enthalpy Analytical
P&D Sampler: LKD

Soil Gas Well Number: SG8
SG-8-REP

Page 1 of 1

Probe Method (check one)
○ PRT
○ Temp Well
☑ Permanent Well
Summa Canister Number: 442
Duplicate Summa Canister Number: 324
Shroud Number: 155
Helium Shroud (Y/N): Y
Initial manifold vacuum/ time: 11:05:53, -29
12:46:37 } -30

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
11:05:53	Starting %	00.2				
11:06:10	Begin tracer gas	00.2				
11:11:10		27.5	-00.4			
11:12:45	Begin purge	26.0	-00.4			
11:14:45		24.7	-00.4			
11:16:45		23.6	-00.4			
11:20:15		21.6	-00.4			
11:22:50	Generator dies	—	—			
12:18:24		00.3	[illegible]			
12:18:47	Inject tracer gas	00.3				
12:23:47		20.6				
12:26:53	Start purge	21.5	-00.5			
12:28:53		23.9	-00.4			
12:30:53	End purge	22.1	-00.4			
12:32:30	Begin sample	20.24		0.0	-29	
12:33:50		20.1		0.0	-24	
12:35:32		22.0		0.0	-19	
12:37:04		20.5		0.0	-14	
12:38:45		21.5		0.0	-9	
12:40:25	End sample	20.1		0.0	-5	
	SG8-REP	[illegible]				
12:47:10	Inject tracer gas	00.5				
12:52:10		21.7				
12:52:30	Start sample	22.0		0.0	-29	
12:55:14		21.7		0.0	-24	
12:58:00		20.8		0.0	-19	
13:01:00		21.8		0.0	-14	
13:03:58		21.7		0.0	-9	
13:06:58	End sample	20.6		0.0	-5	

SOIL GAS SAMPLING DATA SHEET

Site Address: The Phoenix - 801 Pine St, Oakland
Job #: 772
Date: 6/5/2018
Drilling Company: None
Laboratory: Enthalpy Analytical
P&D Sampler: LKD
Soil Gas Well Number: SG9
SG9-REP

Page 1 of 1
Probe Method (check one)
○ PRT
○ Temp Well
☑ Permanent Well
Summa Canister Number: 434
Duplicate Summa Canister Number: ~~317~~ 117
Shroud Number: 149
Helium Shroud (Y/N): Y
Initial manifold vacuum/ time: -30 13:22:55
-30 14:19:37

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
13:28:00	Inject tracer gas	00.6				
13:33:00		22.3				
13:35:18	Begin purge	21.1	-00.5			
13:38:13		22.6	-00.5			
13:40:26		20.2	-00.5			
13:42:28		21.7	-00.5			
13:45:03		21.4	-00.5			
13:47:53		21.3	-00.5			
13:49:18	End purge	21.0	-00.5			
13:56:00	Begin sample	22.5		0.0	-30	
13:57:20		21.2		0.0	-24	
13:58:26	Change He cylinders	19.7		0.0	-19	
14:00:00		13.3			-13	
14:01:40		21.6		0.0	-8	
14:02:27	End sample	19.8		0.0	-4.5	
	SG9-REP					
14:14:37	Inject tracer gas	00.1		~~0.0~~	~~-30~~	
14:16:46		22.4				
14:19:37		22.5				
14:20:45	Start sample	21.3		0.0	-30	
14:21:54		21.1		0.0	-25	
14:23:00		21.3		0.0	-20	
14:24:04		22.6		0.0	-15	
14:25:35		20.8		0.0	-10	
14:26:50	End sample	22.1		0.0	-5	

September 6, 2018 Soil Gas Sampling Data Sheets

SOIL GAS SAMPLING DATA SHEET

Site Address	The Phoenix - 801 Pine Street, Oakland		Page 1 of 1
Job #	0772	Probe Method (check one)	
Date	9/6/2018	o PRT	
Drilling Company	None	o Temp Well	
Laboratory	Enthalpy Analytical	☑ Permanent Well	
P&D Sampler	LKD	Summa Canister Number	113
		Duplicate Summa Canister Number	
		Shroud Number	243
Soil Gas Well Number	SG4	Helium Shroud (Y/N)	Y
		Initial manifold vacuum/ time	

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
14:41:53		00.4				
14:42:17	Start tracer gas	23.7				
14:49:30	Add He	19.4				
14:52:17		25.2				
14:53:56	Begin purge	22.4	-00.2	0		
14:55:47	Add He	20.5	-00.3	0		
15:00:32	Add He	19.3	-00.3	0		
15:03:11		23.8	-00.3	0		
15:05:33	Add He	20.6	-00.3	0		
15:07:56	End purge	20.9	-00.3	0		
15:09:12	Add He	18.7		0		
15:10:12	Begin sample	24.9		0	-30	
15:11:50		23.6		0	-25	
15:13:33		21.1		0	-20	
15:14:38	Add He	20.3		0	-16	
15:15:14		21.4		0	-15	
15:17:05		22.2		0	-10	
15:19:01	End sample	19.8		0	-5	
15:23:55	Attach PID					
15:25:19						PID= 41.2 PPM
15:25:41						49.7 PPM

SOIL GAS SAMPLING DATA SHEET

Site Address	The Phoenix - 801 Pine Street, Oakland	Page 1 of 1
Job #	0772	
Date	9/6/2018	
Drilling Company	None	
Laboratory	Enthalpy Analytical	
P&D Sampler	LKD	
Soil Gas Well Number	SG5	

Probe Method (check one)
○ PRT
○ Temp Well
☑ Permanent Well

Summa Canister Number 306
Duplicate Summa Canister Number 412
Shroud Number 037
Helium Shroud (Y/N) Y
Initial manifold vacuum/ time

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
16:14:00		00.4				
16:14:48	Start tracer gas	4.8				
16:16:24	Add He	16.2				
16:18:00		23.1				
16:20:05	Add He	19.6				
16:21:37	Add He	20.9				
16:24:48	End shut in test	22.8				
16:25:47	Begin purge	20.5	00.3	-2.5		
16:27:10	Add He	16.1	00.3	-2.5		
16:28:43		22.3	00.3	-2.5		
16:30:44	Add He	18.1	00.3	-2.5		
16:32:12		22.7	00.3	-2.5		
16:33:55		18.7	00.3	-2.5		
16:36:37	Add He	21.5	00.3	-2.5		
16:39:47		19.4	00.3	-2.5		
16:40:58	Add He	17.3				
16:41:52	Begin sample	22.2		-2.5	-30	
16:44:38	Add He	14.8		-2.5	-29	
16:46:50	Add He	18.9		-2.5	-26	
16:48:20		27.0		-2.5	-25	
16:50:30	Add He	19.8		-2.5	-23	
16:52:37		23.0		-2.5	-20	
16:55:00	Add He	18.7		-2.5	-16	
16:57:50	Add He	17.0		-2.5	-15	
17:02:52	Add He	14.9		-2.5	-10	
17:06:56	Add He	19.4		-2.5	-7	
17:09:00	End sample	23.2		-2.5	-5	
17:17:40	Connect PID					PID = 1.6 PPM

October 17 and 18, 2018 Soil Gas Sampling Data Sheets

SOIL GAS SAMPLING DATA SHEET

Site Address	The Phoenix - 801 Pine St., Oakland		Page 1 of 1
Job #	0772	Probe Method (check one)	
Date	10/17/18 ~~and 10/18/18~~ MLBD	o PRT	
Drilling Company	VTS	o Temp Well	
Laboratory	Enthalpy Analytical	o Permanent Well	
P&D Sampler	MLBD	Summa Canister Number	92
		Duplicate Summa Canister Number	
		Shroud Number	293
Soil Gas Well Number	SG2	Helium Shroud (Y/N)	Y
		Initial manifold vacuum/ time	-30/ 110412

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
110503						
114612	START TRACER GAS	4.6				
115029		15.3				
115200		20.7				
115312	ADD He	20.2				
115442		21.1				
115532		20.6				
115652	ADD He	20.5				
1158.36		21.3				
115906	BEGIN PURGE	20.7	-0.02	0		
120256	ADD He	21.4	-0.03	0		
120504	ADD He	21.2	-0.03	0		
120810		21.1	-0.03	0		
121034	ADD He	23.5	-0.03	0		
121510		22.8	-0.03	0		
121724	ADD He	23.8	-0.03	0		
122024		23.2	-0.03	0		
122714		22.5	-0.04	0		
122725	ADD He	23.5	-0.04	0		
123200	START SAMPLE	23.2	-0.04	0	-30	
123502		22.8	-	0	-25	
123652		22.1		0	-20	
123902	ADD HE	24.5		0	-15	
124126		21.5		0	-10	
124242	ADD HE	21.1		0		
124327	END SAMPLE	20.8		0	-5	
124612						PID: 51 PPM

SOIL GAS SAMPLING DATA SHEET

Site Address	The Phoenix - 801 Pine St., Oakland		Page 1 of 1
Job #	0772	Probe Method (check one)	
Date	10/17/18 ~~and 10/18/18~~ MLBD	○ PRT	
Drilling Company	VTS	○ Temp Well	
Laboratory	Enthalpy Analytical	● Permanent Well	
P&D Sampler	MLBD	Summa Canister Number	284
		Duplicate Summa Canister Number	
		Shroud Number	150
Soil Gas Well Number	SG4	Helium Shroud (Y/N)	Y
		Initial manifold vacuum/ time	-30/134128

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
134247	START TRACER GAS	12.4				
134336		46.2				
134410		29.8				
134506		31.2				
134728		28.9				
134820	START PURGE	25.6	-00.7	0		
135008	ADD He	22.1	-00.7	0		
135537		22.6	-00.7	0		
135800	ADD He	23.4	-00.7	0		
140042		232	-00.7	0		
140325		22.0	-00.7	0		
140437	ADD He	23.4	-00.7	0		
140602	ADD He	20.2	-00.7	0		
140715		21.3	-00.7	0		
140903	ADD He	20.3	-00.7	0		
141109		21.6	-00.7	0		
141303		20.3	-00.7	0		
141426	ADD He	21.4	-00.7	0		
141514	END PURGE					
141540	START SAMPLE	21.2	0	~~-30~~	-30	
141705	ADD He	20.5	0	~~-25~~	-25	
141810	ADD He	20.1	0	~~-20~~	-20	
141923	ADD He	22.4	0	~~-15~~	-15	
142051		24.2	0	~~-10~~	-10	
142105	END Sample	23.0	0	~~-5~~	-5	
142412				MLBD		PID: 3 PPM

SOIL GAS SAMPLING DATA SHEET

Site Address	The Phoenix - 801 Pine St., Oakland
Job #	0772
Date	10/17/18 ~~and 10/18/18~~ MLBD
Drilling Company	VTS
Laboratory	Enthalpy Analytical
P&D Sampler	MLBD
Soil Gas Well Number	SG-5

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Probe Method (check one)
○ PRT
○ Temp Well
● Permanent Well

Summa Canister Number	166
Duplicate Summa Canister Number	
Shroud Number	297
Helium Shroud (Y/N)	Y
Initial manifold vacuum/ time	-30/ 145408

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
145512	START TRACE GAS	4.8				
145645		26.1				
145822		36.7				
150012		34.0				
150014	START PURGE	31.2	-00.0	0		
150304		24.7	-00.1	0		
150508		20.5	-00.1	0		
150812	ADD He	23.6	-00.1	0		
150912		20.1	-00.1	0		
151204	ADD He	21.6	-00.1	0		
151500		21.4	-00.1	0		
151520	ADD He	22.9	-00.1	0		
151800		20.2	-00.1	0		
151831	ADD He	23.4	-00.1	0		
152031		21.0	-00.1	0		
152526	ADD He	22.0	-00.1	0		
152714	END PURGE	21.2	-00.1	0		
152732	ADD He	23.4	-00.1	0		
152900	START SAMPLE	22.8		0 ~~-30~~	-30	
153030		21.8		0 ~~-25~~	-25	
153148	ADD He	20.6		0 ~~-20~~	-20	
153324		22.6		0 ~~-15~~	-15	
153504		21.6		0 ~~-10~~	-10	
153715	END SAMPLE	20.8		0 ~~-5~~	-5	
154012				MLBD		PID: 9 PPM

SOIL GAS SAMPLING DATA SHEET

Site Address: The Phoenix - 801 Pine St., Oakland
Job #: 0772
Date: 10/17/18 ~~and 10/18/18~~ MLBD
Drilling Company: VTS
Laboratory: Enthalpy Analytical
P&D Sampler: MLBD

Soil Gas Well Number: SG6

Page 1 of 1
Probe Method (check one)
o PRT
o Temp Well
[✓ Permanent Well]
Summa Canister Number: 180
Duplicate Summa Canister Number
Shroud Number: 157
Helium Shroud (Y/N): Y
Initial manifold vacuum/ time: -30/ ~~[illegible]~~ 160900 MLBD

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
160930	START TRACER GAS	41,7				
161105		37.9				
161514	START PURGE	30.3				
161630	ADD TRACER GAS	28.3	-00.3			
161800		21.4	-00.3			
161936		21.0	-00.2			
162052	ADD TRACER GAS	21.7	-00.2			
162312		22.8	-00.2			
162411	ADD TRACER GAS	23.4	-00.2			
162721		20.5	-00.3			
162853	ADD TRACER GAS	23.1	-00.3			
163046		20.8	-00.3			
163450	ADD TRACER GAS	22.6	-00,2			
163509		20.8	-00.2			
163714	ADD He	21.9	-00.2			
164014		22.8	-00.2			
163830	START SAMPLE	22.1		0	-30	
164036	ADD He	21.0		0	-30	
164532		22.6		0	-25	
164734	ADD He	20.3		0	-23	
164912		23.2		0	-20	
165051		20.8		0	-19	
165246	ADD He	23.4		0	-17	
165442		21.6		0	-15	
170026		20.4		0	-10	
170255	ADD He	21.8		0	-7	
170732	END SAMPLE	20.6		0	-5	
171012						PID: 1 PPM

SOIL GAS SAMPLING DATA SHEET

Site Address	The Phoenix - 801 Pine St., Oakland	Page 1 of 1
Job #	0772	
Date	10/17/18 and 10/18/18	
Drilling Company	VTS	
Laboratory	Enthalpy Analytical	
P&D Sampler	MLBD	
Soil Gas Well Number	SG6-DUP	

Probe Method (check one)
○ PRT
○ Temp Well
[✓ Permanent Well]

Summa Canister Number	304
Duplicate Summa Canister Number	
Shroud Number	157
Helium Shroud (Y/N)	Y
Initial manifold vacuum/ time	-30/160900

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
160930	START TRACER GAS	41.7				
161105		37.9				
161514	START PURGE	30,3				
161630	ADD TRACER GAS	28.3	-00.3			
161800		21.4	-00.3			
161936		21.0	-00.2			
162052	ADD TRACER GAS	21.7	-00.2			
162312		22.8	-00.2			
162411	ADD TRACER GAS	23.4	-00.2			
162721		20.5	-00.3			
162853	ADD TRACER GAS	23.1	-00.3			
163046		20.8	-00.3			
163450	ADD TRACER GAS	22,6	-00.2			
163509		20.8	-00.2			
163714	ADD TRACER GAS	21.9	-00.2			
164014		22.8	-00.2			
163830	START SAMPLE	22.1	~~-00.~~ MLBD	0	-30	
164036	ADD He	21.0		0	-30	
164532		22.6		0	-25	
164734	ADD TRACER GAS	20.3		0	-23	
164912		23.2		0	-20	
165051		20.8		0	-19	
165246	ADD TRACER GAS	23.4		0	-17	
165442		21.6		0	-15	
170026		20.4		0	-10	
170255	ADD TRACER GAS	21.8		0	-7	
170732	END SAMPLE	20.6		0	-5	
171012						PID: 1 PPM

SOIL GAS SAMPLING DATA SHEET

Site Address	The Phoenix - 801 Pine St., Oakland	Page 1 of 1
Job #	0772	Probe Method (check one)
Date	10/18/18	○ PRT
Drilling Company	VTS	○ Temp Well
Laboratory	Enthalpy Analytical	☑ Permanent Well
P&D Sampler	MLBD	Summa Canister Number 507
		Duplicate Summa Canister Number
		Shroud Number 264
Soil Gas Well Number	SG-10	Helium Shroud (Y/N) Y
		Initial manifold vacuum/ time -30 / 084700

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
084730	START TRACER GAS	2.9				
084820		15.6				
084828		26.4				
085300	START PURGE	27.1	-00.3			
085405		25.1	-00.1			
085524		21.2	-00.2			
085637	ADD He	22.4	-00.2			
090026		22.3	-00.2			
090512		20.7	-00.2			
090738	ADD He	21.1	-00.3			
090908		20.6	-00.3			
091117	ADD He	21.5	-00.3			
091321		20.6	-00.3			
091510	ADD He	21.7	-00.3			
091714	END PURGE	21.6	-00.3			
091910	START SAMPLE	20.8		0	-30	
092040	ADD He	21.8		0	-25	
092247		22.8		0	-20	
092432		21.7		0	-15	
092604		20.6			-10	
092707	ADD He	21.5		0	-7	
092825	END SAMPLE	21.2		0	-5	
092915						PID: 0PPM

SOIL GAS SAMPLING DATA SHEET

Site Address: The Phoenix - 801 Pine St., Oakland
Job #: 0772
Date: 10/18/18
Drilling Company: VTS
Laboratory: Enthalpy Analytical
P&D Sampler: MLBD

Soil Gas Well Number: SG-11

Page 1 of 1

Probe Method (check one)
o PRT
o Temp Well
[✓ Permanent Well]
Summa Canister Number: 519
Duplicate Summa Canister Number:
Shroud Number: 219
Helium Shroud (Y/N): Y
Initial manifold vacuum/ time: -30/ 101014

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
101050	START TRACER GAS	0.03				
101124		2.4				
101215		20.4				
101232		28.8				
101500	START PURGE	30.8	-00.5			
101821		29.2	-00.5			
102056		23.7	-00.5			
102312		22.3	-00.5			
102408	ADD He	20.8	-00.5			
102729		22.5	-00.5			
102836		23.5	-00.5			
103000		21.3	-00.5			
103114	ADD He.	20.2	-00.5			
103500		22.5	-00.5			
103844	ADD He	20.5	-00.5			
104017	END PURGE	22.1	-00.5			
104020	START SAMPLE	24.3		0	-30	
104251		23.0		0	-25	
104416		20.6		0	-20	
104508	ADD He	22.5		0	-17	
104606		24.7		0	-15	
104740		21.6		0	-10	
104834	ADD He	20.7		0	-8	
105010	END SAMPLE	22.1		0	-5	
105512						PID: 4 PPM

SOIL GAS SAMPLING DATA SHEET

Site Address	The Phoenix - 801 Pine St., Oakland		Page 1 of 1
Job #	0772	Probe Method (check one)	
Date	10/18/18	o PRT	
Drilling Company	VTS	o Temp Well	
Laboratory	Enthalpy Analytical	● Permanent Well	
P&D Sampler	MLBD	Summa Canister Number	279
		Duplicate Summa Canister Number	
		Shroud Number	313
Soil Gas Well Number	SG-12	Helium Shroud (Y/N)	Y
		Initial manifold vacuum/ time	-30/ 112214

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
112300	START TRACER GAS	00.8				
112401		22.4				
112551		27.2				
112614		26.8				
112800	START PURGE	23.8	-00.5			
113012		21.4	-00.5			
113438		20.6	-00.5			
113704	ADD He	24.2	-00.5			
114250		22.3	-00.5			
114528		21.3	-00.5			
114827	ADD He	20.8	-00.5			
115200		22.7	-00.5			
115514	END PURGE	20.6	-00.5			
115525	ADD He	23.2	-00.5			
115600	START SAMPLE	21.8	-	0	-30	
115731	ADD He	20.6		0	-25	
115822		22.4		0	-23	
115950		21.6		0	-20	
120152	ADD He	20.9		0	-15	
120334		23.8		0	-13	
120410		22.4		0	-10	
120737	END SAMPLE	20.2		0	-5	
120912						PID: 8 PPM

SOIL GAS SAMPLING DATA SHEET

Site Address: The Phoenix - 801 Pine St., Oakland

Page 1 of 1

Job #: 0772

Date: 10/18/18

Drilling Company: VTS

Laboratory: Enthalpy Analytical

P&D Sampler: MLBD

Soil Gas Well Number: SG-13

Probe Method (check one)
○ PRT
○ Temp Well
● Permanent Well

Summa Canister Number: 509

Duplicate Summa Canister Number:

Shroud Number: 152

Helium Shroud (Y/N): Y

Initial manifold vacuum/ time: -30 / 143803

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
143912	START TRACER GAS	0.04				
143951		6.5				
144019		23.6				
144124		28.2				
144308		26.2				
144412		23.7				
144500	START PURGE	20.9	-00.5			
144719	ADD He	22.4	-00.5			
145000		23.9	-00.5			
145140	ADD He	20.9	-00.5			
145317		23.5	-00.5			
145500	ADD He	20.9	-00.5			
145612		24.3	-00.5			
145904	ADD He	20.6	-00.5			
150124		23.1	-00.5			
150329		21.6	-00.5			
150509	ADD He	20.4	-00.5			
150631		23.2	-00.5			
151012		21.4	-00.5			
151214	END PURGE	20.6	-00.5			
151302	START SAMPLE	20.2	-	0	-30	
151540	ADD He	22.8		0	-27	
151655		22.2		0	-25	
151904		21.5		0	-20	
152134		20.4		0	-15	
152312	ADD He	23.2		0	-12	
152406		22.7		0	-10	
152731	END SAMPLE	20.4		0	-5	
						PID: 13 PPM

SOIL GAS SAMPLING DATA SHEET

Site Address: The Phoenix - 801 Pine St., Oakland

Page 1 of 1

Job #: 0772

Date: 10/18/18

Drilling Company: VTS

Laboratory: Enthalpy Analytical

P&D Sampler: MLBD

Soil Gas Well Number: SG-14

Probe Method (check one)

☐ PRT

☐ Temp Well

☑ Permanent Well

Summa Canister Number: 340

Duplicate Summa Canister Number:

Shroud Number: 126

Helium Shroud (Y/N): Y

Initial manifold vacuum/ time: -30/ 130455

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
130900	START TRACER GAS	1.6				
131033		11.2				
131108		28.4				
131312		27.6				
131418		26.7				
131500	START PURGE	26.3	-00.4	0		
132146		22.1	-00.7	0		
132542		21.8	-00.7	0		
132810		21.4	-00.7	0		
133002	ADD He	20.6	-00.7	0		
133250		23.1	-00.7	0		
133432	ADD He	20.6	-00.8	0		
133622		23.8	-00.8	0		
134047		22.4	-00.7	0		
134214	END PURGE	21.9	-00.7	0		
134412	START SAMPLE	21.3		0	-30	
134608	ADD He	20.8		0	-25	
134752		23.1		0	-20	
134932		22.1		0	-15	
135037	ADD He	20.9		0	-12	
135158		23.2		0	-10	
135455	END SAMPLE	21.8		0	-5	
135802						PID: 13 PPM

December 10 and 15, 2018 Soil Gas Sampling Data Sheets

SOIL GAS SAMPLING DATA SHEET

Site Address 801 Pine St, Oakland
Job # 772
Date 12/15/18 ~~12/10/2018~~
Drilling Company None
Laboratory McCampbell Analytical
P&D Sampler PHK

Soil Gas Well Installation Date and Time

Soil Gas Well Number SG15

Page 1 of 1

Probe Method (check one)
○ PRT
○ Temporary Well
☒ Permanent Well
○ Vapor Pin
Summa Canister Number 2044 - 2668
Duplicate Summa Canister Number
Shroud Number
Helium Shroud ([✓ Y]/N)
Initial Summa vacuum/ time
Manifold # 316T - 1309

TIME	Activity	Start Shut in Test (Vac)	End Shut in Test (Vac)	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
	12/10/18 Start Shut in	29.5						
20:10:00	12/15/18 End Shut in		5					
20:10:47	Put He in shroud			23.4				
20:14:48				23.2				
20:15:48				22.7				
20:16:16	Start purge			22.7		0	24	
20:18:16				22.1	0	0	24	
20:20:35				20.9		0	24.5	
20:23:07					0	0	24.5	
20:25:14				24.7		0	24.5	
20:28:03					0	0	24.5	
20:30:12				24.6		0	24.5	
20:33:01					0	0	24.5	
20:35:10				23.1		0	24.5	
20:38:08					0	0	24.5	
20:40:08				21.6		0	24.5	
20:43:30	End purge			20.5		0	24.5	
20:44:30	Begin Sampling							
20:45:55				22.5		0	22	
20:47:20				22.0		0	15	
20:48:30				21.7		0	10	
20:49:45	End Sampling			21.3		0	5	
	PID = 4 ppm							

PID = 4

SOIL GAS SAMPLING DATA SHEET

Site Address	801 Pine St, Oakland		Page 1 of 1
Job #	772	Probe Method (check one)	
Date	12/15/18 ~~12/10/2018~~	○ PRT	
Drilling Company	None	○ Temporary Well	
Laboratory	McCampbell Analytical	☒ Permanent Well	
P&D Sampler	PHK	○ Vapor Pin	
		Summa Canister Number	1998-2625
Soil Gas Well Installation Date and Time		Duplicate Summa Canister Number	
		Shroud Number	
Soil Gas Well Number	SG16	Helium Shroud ([✓ Y]/N)	
		Initial Summa vacuum/ time	
		Manifold #	316T-992

TIME	Activity	Start Shut in Test (Vac)	End Shut in Test (Vac)	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
	12/10/18 Start Shut in	29.5						
21:28	12/15/18 ~~21:2~~		5					
21:28:55	Add He to shroud			21.6				
21:30:35				22.2				
21:32:00				21.7				
21:33:00				21.0				
21:34:00				20.4				
21:34:40	Begin purge			19.9		0	26	
21:38:40					0	0	26	
21:39:40				21.7		0	26	
21:43:40				20.8		0	26	
21:45:44					0	0	26	
21:47:09				19.1		0	26	
21:49:10					0	0	26	
21:51:35				20.2		0	26	
21:52:30					0	0	26	
21:56:02				24.1		0	26	
21:57:13					0	0	26	
22:01:02				21.2		0	26	
22:01:54	End purge			20.6		0	26	
22:03:00	Begin sampling			18.6		0	25	
22:04:43				23.6		0	17	
22:05:25				24.5		0	15	
22:06:31				24.4			10	
22:07:49	End Sampling			23.8		0	5	
	PID = 7 ppm							

SOIL GAS SAMPLING DATA SHEET

Page 1 of 1

Site Address	801 Pine St, Oakland
Job #	772
Date	12/15/18 ~~12/10/2018~~
Drilling Company	None
Laboratory	McCampbell Analytical
P&D Sampler	PHK
Soil Gas Well Installation Date and Time	
Soil Gas Well Number	SG37

Probe Method (check one)
○ PRT
○ Temporary Well
☒ Permanent Well
○ Vapor Pin
Summa Canister Number 2031-2655
Duplicate Summa Canister Number
Shroud Number
Helium Shroud ([✓ Y]/N)
Initial Summa vacuum/ time
Manifold # 316-1223

TIME	Activity 12/10/18	Start Shut in Test (Vac)	End Shut in Test (Vac)	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
	~~12/10/18~~ Start Shut in	29,5						
	12/15/18 End Shut in	~~28~~	28					
22:46:25	Add He to shroud			20.4				
22:48:43				21.2				
22:49:25				21.1				
22:50:25				20.7				
22:51:25				20.1				
22:51:51	Start purge							
22:54:09				23.4		0	26	
22:55:48					0	0	26	
22:56:48				22.3		0.5	26	
23:00:48					0	0	26	
23:02:18				21.1		0	26	
23:05:48					0	0	26	
23:06:48				20.0		0	26	
23:10:48					0	0	26	
23:11:56				24.6		0	26	
23:15:40					0	0	26	
23:16:35				23.1		0	26	
23:19:03	Stop purge			22.6		0	26	
23:19:43	Start sampling			22.4		0	28	
23:20:40				22.2		0	25	
23:21:45				22.0		0	20	
23:22:42				21.7		0	~~20~~ 15	
23:23:50				21.5		0	10	
23:25:25	End sampling			21.1		0	5	
	PID = 4 ppm							

SOIL GAS SAMPLING DATA SHEET

Site Address: 801 Pine St, Oakland
Job #: 772
Date: 12/10/2018
Drilling Company: None
Laboratory: McCampbell Analytical
P&D Sampler: MLBD

Soil Gas Well Installation Date and Time

Soil Gas Well Number: SG18

Page 1 of 1

Probe Method (check one)
○ PRT
○ Temporary Well
☒ Permanent Well
○ Vapor Pin

Summa Canister Number: 2001-2628
Duplicate Summa Canister Number
Shroud Number
Helium Shroud (Y/N): Y
Initial Summa vacuum/ time: 29.5 15:08
MANIFOLD #: 316-1217

TIME	Activity	Start Shut in Test (Vac)	End Shut in Test (Vac)	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
0855	START SHUT IN TEST	-29						
0905	END		-29					
142000	ADD He			22.9				
142312				22.7				
142529				23.6				
142804				23.9				
143000	START PURGE			22.4	0			
143804				23.2				
144121				22.6				
144507				21.2				
144731				20.8				
144800	ADD He			21.7				
144912				23.2				
145046				23.1				
145228				22.9				
145533				22.6				
145714				22.5				
150200	START SAMPLE			22.3	0		-30	
150324				22.1	0		-18	
150528				21.9	0		-16	
150818				21.7	0		-8	
150848	END SAMPLE			21.5	0		-5	
151012								PID= 113 ppm

SOIL GAS SAMPLING DATA SHEET

Page 1 of 1

Site Address: 801 Pine St, Oakland
Job #: 772
Date: 12/15/18 ~~12/10/2018~~
Drilling Company: None
Laboratory: McCampbell Analytical
P&D Sampler: PHK
Soil Gas Well Installation Date and Time:
Soil Gas Well Number: SG20

Probe Method (check one)
○ PRT
○ Temporary Well
☒ Permanent Well
○ Vapor Pin

Summa Canister Number: 1958-2589
Duplicate Summa Canister Number: 1988-2615
Shroud Number:
Helium Shroud ([✓ Y]/N)
Initial Summa vacuum/ time
Manifold # 316T-997

TIME	Activity	Start Shut in Test (Vac)	End Shut in Test (Vac)	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
	12/10/18 Begin Shut in	29.5						12/10/18 DUP Begin Shut in 29.5
	12/15/18 End Shut in		22					12/15/18 DUP End Shut in 29.5
18:17:40	He into Shroud			24.1				
18:19:42				23.2				
18:20:45				22.2				
18:21:38				21.3				
18:22:40				20.9				
18:25:51	Begin Purge			23.7				
18:30:11				22.1		0	26	
18:32:52				19.6		0	26	
18:37:45				23.9		0	26	
18:38:30					0	0	26	
18:40:37				22.2		0	26	
18:42:28				21.1		0	26	
18:43:35					0	0	26	
18:44:40				19.9		0	26	
18:46:45					0	0	26	
18:47:50				23.8		0	26	
18:49:41				23.2		0	26	
18:50:11					0	0	26	
18:51:25				21.9		0	26	
18:52:03					0	0	26	
18:52:33				21.0		0	26	
18:53:05	End purging							
18:45:33	Begin Sampling			23.1		30	0	
18:49:40				24.0		20		
18:53:00				25.1		15		
18:55:50				23.0		10		
18:57:30				21.6		6		
18:58:46				20.7		5		
18:59:20	End sampling PID = 3							

APPENDIX C

Weather Information

- June 4-5, 2018 Sampling Event
- September 6, 2018 Sampling Event
- October 17-18, 2018 Sampling Event
- December 10, 15, 2018 Sampling Event

https://www.wunderground.com/personal-weather-station/dashboard?ID=KCAOAKLA34#history/tdata/s20180521/e20180620/mcustom

About This Weather Station

Weather Station ID: KCAOAKLA34

Station Name: Triple Point

Latitude / Longitude: N 37 ° 50 ' 51 '', W 122 ° 17 ' 10 ''

Elevation: 36

City: Oakland

State: CA

Hardware: other

Software: Cumulus v3.0.0

Weather History Table
May 21, 2018 - June 20, 2018

2018	Temperature			Dew Point			Humidity			Speed			Pressure			Precip. Accum.
May	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Gust	High	Avg	Low	Sum
21	65.7 °F	59.1 °F	52.5 °F	52.6 °F	50.5 °F	49.1 °F	89 %	77 %	60 %	10 mph	6 mph	20 mph	29.61 in	29.55 in	29.48 in	0 in
22	59.9 °F	56.3 °F	52.7 °F	53.6 °F	51.7 °F	50.1 °F	95 %	88 %	77 %	12 mph	7 mph	19 mph	29.58 in	29.55 in	29.52 in	0 in
23	60.6 °F	57.3 °F	54.1 °F	53.3 °F	51.8 °F	49.1 °F	95 %	87 %	68 %	11 mph	5 mph	17 mph	29.6 in	29.53 in	29.47 in	0 in
24	61 °F	57.1 °F	53.4 °F	51.6 °F	49.7 °F	48.2 °F	86 %	79 %	66 %	11 mph	6 mph	18 mph	29.67 in	29.61 in	29.56 in	0 in
25	61.9 °F	58.4 °F	54.9 °F	53.3 °F	51.7 °F	49.8 °F	90 %	84 %	71 %	10 mph	6 mph	14 mph	29.73 in	29.66 in	29.59 in	0 in
26	65.3 °F	60.2 °F	55 °F	53.1 °F	52 °F	50.2 °F	90 %	80 %	61 %	11 mph	4 mph	17 mph	29.72 in	29.65 in	29.59 in	0 in
27	68.2 °F	59.9 °F	51.6 °F	56.5 °F	53 °F	49.5 °F	94 %	80 %	64 %	8 mph	3 mph	14 mph	29.73 in	29.53 in	29.34 in	0 in
28	77.4 °F	65.7 °F	54.3 °F	62.1 °F	55 °F	51 °F	95 %	74 %	42 %	6 mph	3 mph	13 mph	29.73 in	29.65 in	29.58 in	0 in
29	71.2 °F	63.1 °F	55 °F	56.1 °F	54 °F	49.5 °F	92 %	81 %	52 %	10 mph	2 mph	15 mph	29.66 in	29.6 in	29.55 in	0 in
30	61.3 °F	56.8 °F	52.3 °F	50 °F	48.3 °F	-2.8 °F	88 %	77 %	10 %	45 mph	9 mph	45 mph	29.59 in	29.51 in	29.43 in	0 in
31	62.8 °F	57.8 °F	52.9 °F	50.2 °F	48.1 °F	45.9 °F	84 %	71 %	59 %	14 mph	6 mph	23 mph	29.7 in	29.62 in	29.53 in	0 in

2018	Temperature			Dew Point			Humidity			Speed			Pressure			Precip. Accum.
Jun	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Gust	High	Avg	Low	Sum
1	73.4 °F	62.1 °F	50.7 °F	53.3 °F	49.4 °F	45 °F	89 %	66 %	38 %	12 mph	4 mph	19 mph	29.7 in	29.66 in	29.62 in	0 in
2	74.3 °F	64.7 °F	55 °F	60.7 °F	53.9 °F	50.7 °F	89 %	70 %	48 %	7 mph	3 mph	36 mph	29.76 in	29.69 in	29.62 in	0 in
3	68.2 °F	61.7 °F	55.2 °F	56 °F	53.5 °F	50.7 °F	89 %	76 %	64 %	10 mph	4 mph	14 mph	29.68 in	29.6 in	29.51 in	0 in
4	70 °F	62.5 °F	54.9 °F	53.2 °F	50.9 °F	49 °F	86 %	68 %	49 %	9 mph	5 mph	14 mph	29.68 in	29.64 in	29.59 in	0 in
5	69.3 °F	60.7 °F	52 °F	50.5 °F	49.1 °F	47.1 °F	90 %	75 %	47 %	9 mph	6 mph	14 mph	29.66 in	29.61 in	29.57 in	0 in
6	65.3 °F	59 °F	52.7 °F	54.2 °F	51 °F	48.6 °F	88 %	79 %	61 %	14 mph	7 mph	23 mph	29.67 in	29.6 in	29.54 in	0 in
7	68.7 °F	62 °F	55.4 °F	53.4 °F	51.3 °F	50 °F	84 %	74 %	55 %	11 mph	6 mph	54 mph	29.76 in	29.67 in	29.59 in	0 in
8	70.7 °F	63.2 °F	55.8 °F	56.4 °F	54.2 °F	50.2 °F	87 %	65 %	54 %	11 mph	7 mph	17 mph	29.75 in	29.7 in	29.66 in	0 in
9	69.4 °F	62.6 °F	55.8 °F	58.5 °F	51.2 °F	44.2 °F	96 %	70 %	41 %	12 mph	7 mph	21 mph	29.85 in	29.76 in	29.67 in	0 in
10	69.3 °F	34.7 °F	0 °F	51.5 °F	37.2 °F	0 °F	63 %	41 %	43 %	13 mph	6 mph	17 mph	29.89 in	29.76 in	29.62 in	0 in
11	73.8 °F	64.7 °F	55.6 °F	55.5 °F	51.5 °F	48.5 °F	82 %	60 %	48 %	11 mph	4 mph	17 mph	29.7 in	29.64 in	29.58 in	0 in
12	73 °F	73 °F	73 °F	52.7 °F	52.7 °F	52.7 °F	49 %	49 %	49 %	4 mph	4 mph	13 mph	29.63 in	29.58 in	29.53 in	0 in
13	73 °F	73 °F	73 °F	52.7 °F	52.7 °F	52.7 °F	49 %	49 %	49 %	4 mph	4 mph	13 mph	29.66 in	29.58 in	29.49 in	0 in
14	73 °F	64.8 °F	56.5 °F	53.6 °F	52.5 °F	51.1 °F	84 %	58 %	49 %	10 mph	5 mph	14 mph	29.63 in	29.56 in	29.5 in	0 in
15	61.2 °F	58.1 °F	55 °F	53.7 °F	51.9 °F	51 °F	89 %	78 %	70 %	13 mph	7 mph	20 mph	29.58 in	29.52 in	29.46 in	0 in
16	64.2 °F	32.1 °F	0 °F	55.5 °F	47.3 °F	0 °F	83 %	72 %	68 %	14 mph	8 mph	29 mph	29.54 in	29.46 in	29.38 in	0 in
17	66 °F	60.7 °F	55.8 °F	56 °F	53 °F	50.5 °F	92 %	77 %	61 %	13 mph	7 mph	21 mph	29.71 in	29.61 in	29.51 in	0 in
18	62.2 °F	59.5 °F	56.7 °F	55.1 °F	54.2 °F	53.3 °F	92 %	67 %	10 %	12 mph	6 mph	15 mph	29.75 in	29.7 in	29.66 in	0 in
19	62.4 °F	58.2 °F	54.1 °F	55.1 °F	53.7 °F	52 °F	96 %	82 %	75 %	12 mph	7 mph	17 mph	29.73 in	29.67 in	29.62 in	0 in
20	65.5 °F	59.3 °F	53.2 °F	54.2 °F	52.1 °F	50.6 °F	95 %	81 %	65 %	13 mph	6 mph	17 mph	29.7 in	29.62 in	29.54 in	0 in

https://www.wunderground.com/personal-weather-station/dashboard?ID=KCAOAKLA34#history/s20180823/e20180920/mcustom

About This Weather Station

Weather Station ID: KCAOAKLA34

Station Name: Triple Point

Latitude / Longitude: N 37 ° 50 ' 51 '', W 122 ° 17 ' 10 ''

Elevation: 36

City: Oakland

State: CA

Hardware: other

Software: Cumulus v3.0.0

Weather History Table
August 23, 2018 - September 20, 2018

2018	Temperature			Dew Point			Humidity			Speed			Pressure			Precip. Accum.
Aug	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Gust	High	Avg	Low	Sum
23	68.4 °F	63.9 °F	59.4 °F	56.8 °F	54.6 °F	53.4 °F	91 %	69 %	10 %	12 mph	6 mph	18 mph	29.83 in	29.44 in	29.04 in	0 in
24	65.8 °F	61.5 °F	57.4 °F	57.5 °F	55.6 °F	54.1 °F	91 %	83 %	72 %	11 mph	6 mph	18 mph	29.79 in	28.24 in	26.69 in	0 in
25	65.5 °F	60.8 °F	56.1 °F	56.9 °F	54.7 °F	0 °F	94 %	87 %	72 %	9 mph	4 mph	17 mph	29.94 in	29.81 in	29.68 in	0 in
26	64.8 °F	60.4 °F	56.3 °F	56.1 °F	54.4 °F	52.8 °F	92 %	83 %	71 %	11 mph	5 mph	20 mph	29.99 in	29.94 in	29.89 in	0 in
27	68.5 °F	62.7 °F	56.8 °F	58.2 °F	55.6 °F	54 °F	91 %	83 %	67 %	11 mph	6 mph	19 mph	29.93 in	29.88 in	29.83 in	0 in
28	68.5 °F	63.4 °F	58.3 °F	58.7 °F	56.9 °F	55 °F	92 %	83 %	67 %	8 mph	4 mph	14 mph	29.95 in	29.91 in	29.86 in	0 in
29	72 °F	63.8 °F	55.6 °F	60.7 °F	56.9 °F	52.5 °F	94 %	80 %	51 %	8 mph	4 mph	16 mph	29.97 in	29.93 in	29.89 in	0 in
30	69.3 °F	64.8 °F	60.4 °F	58.9 °F	56.5 °F	51.3 °F	88 %	76 %	58 %	10 mph	5 mph	18 mph	30.03 in	29.99 in	29.94 in	0 in
31	72.9 °F	65.3 °F	57.9 °F	57.8 °F	56.1 °F	54.9 °F	91 %	80 %	57 %	10 mph	5 mph	17 mph	30.02 in	29.93 in	29.84 in	0 in

2018	Temperature			Dew Point			Humidity			Speed			Pressure			Precip. Accum.
Sep	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Gust	High	Avg	Low	Sum
1	66.6 °F	61.9 °F	57.2 °F	56.4 °F	54.5 °F	53.2 °F	89 %	79 %	65 %	9 mph	5 mph	16 mph	29.88 in	29.81 in	29.75 in	0 in
2	65.3 °F	32.7 °F	0 °F	57.9 °F	54.8 °F	0 °F	91 %	83 %	72 %	9 mph	4 mph	17 mph	29.83 in	29.79 in	29.75 in	0 in
3	64.9 °F	61.4 °F	57.9 °F	56.8 °F	55 °F	53.7 °F	88 %	82 %	71 %	10 mph	5 mph	19 mph	29.88 in	29.83 in	29.79 in	0 in
4	65.3 °F	61.6 °F	57.9 °F	57.4 °F	55.8 °F	54.3 °F	91 %	85 %	74 %	10 mph	5 mph	19 mph	29.87 in	29.83 in	29.78 in	0 in
5	63.7 °F	60.3 °F	57.2 °F	56.2 °F	54.8 °F	52.6 °F	92 %	85 %	71 %	9 mph	5 mph	15 mph	29.99 in	29.9 in	29.81 in	0 in
6	65.1 °F	60.3 °F	55.8 °F	56.5 °F	54.4 °F	52.9 °F	91 %	84 %	72 %	8 mph	4 mph	14 mph	30.06 in	30.01 in	29.96 in	0 in
7	68 °F	60.5 °F	53.2 °F	57.6 °F	54.8 °F	51 °F	94 %	82 %	66 %	10 mph	3 mph	15 mph	30.01 in	29.96 in	29.91 in	0 in
8	78.1 °F	66.8 °F	55.4 °F	57.3 °F	54.9 °F	52.2 °F	93 %	73 %	46 %	7 mph	4 mph	12 mph	29.95 in	29.89 in	29.83 in	0 in
9	77.7 °F	66.3 °F	54.9 °F	58.2 °F	55.1 °F	52.3 °F	93 %	76 %	44 %	9 mph	4 mph	16 mph	29.88 in	29.83 in	29.78 in	0 in
10	81.5 °F	69.1 °F	56.7 °F	57.3 °F	55.4 °F	53.8 °F	91 %	73 %	40 %	7 mph	4 mph	13 mph	29.88 in	29.81 in	29.75 in	0 in
11	77.7 °F	66.9 °F	56.1 °F	55 °F	52.8 °F	47.9 °F	93 %	68 %	37 %	8 mph	4 mph	15 mph	29.86 in	29.81 in	29.75 in	0 in
12	70.9 °F	62.2 °F	53.4 °F	55.6 °F	53.4 °F	49.4 °F	88 %	76 %	52 %	11 mph	4 mph	19 mph	29.91 in	29.86 in	29.82 in	0 in
13	69.1 °F	63 °F	57 °F	57.7 °F	54.7 °F	51.2 °F	93 %	78 %	56 %	12 mph	5 mph	20 mph	29.97 in	29.91 in	29.85 in	0 in
14	65.5 °F	60.7 °F	55.9 °F	56.6 °F	54.2 °F	52.3 °F	92 %	80 %	69 %	8 mph	4 mph	13 mph	29.93 in	29.86 in	29.8 in	0 in
15	64.6 °F	59.7 °F	55 °F	57.2 °F	54.1 °F	51.6 °F	94 %	84 %	72 %	14 mph	6 mph	22 mph	29.93 in	29.86 in	29.8 in	0 in
16	69.3 °F	61.4 °F	53.4 °F	58.3 °F	54.9 °F	50.5 °F	97 %	82 %	54 %	12 mph	4 mph	20 mph	29.98 in	29.93 in	29.89 in	0.01 in
17	67.6 °F	62.2 °F	56.8 °F	56.8 °F	54.9 °F	53.6 °F	94 %	84 %	65 %	12 mph	6 mph	20 mph	29.96 in	29.92 in	29.88 in	0 in
18	64.4 °F	60 °F	55.6 °F	55.5 °F	53.5 °F	52.4 °F	90 %	82 %	68 %	10 mph	5 mph	19 mph	29.94 in	29.89 in	29.83 in	0 in
19	77.5 °F	65.8 °F	54 °F	56.2 °F	53.5 °F	50.6 °F	92 %	75 %	42 %	8 mph	3 mph	13 mph	29.89 in	29.83 in	29.76 in	0 in
20	78.3 °F	65.6 °F	52.9 °F	58 °F	53.1 °F	48 °F	88 %	67 %	36 %	6 mph	2 mph	11 mph	29.84 in	29.8 in	29.75 in	0 in

https://www.wunderground.com/personal-weather-station/dashboard?ID=KCAOAKLA34#history/s20181003/e20181101/mcustom

About This Weather Station

Weather Station ID: KCAOAKLA34

Station Name: Triple Point

Latitude / Longitude: N 37 ° 50 ' 51 '', W 122 ° 17 ' 10 ''

Elevation: 36

City: Oakland

State: CA

Hardware: other

Software: Cumulus v3.0.0

Weather History Table
October 3, 2018 - November 1, 2018

2018	Temperature			Dew Point			Humidity			Speed			Pressure			Precip. Accum.
Oct	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Gust	High	Avg	Low	Sum
3	73.4 °F	67.3 °F	61.5 °F	63.4 °F	61.1 °F	58.8 °F	95 %	86 %	63 %	10 mph	4 mph	17 mph	29.89 in	29.84 in	29.79 in	0 in
4	69.8 °F	63.2 °F	56.8 °F	59.6 °F	56.5 °F	52.4 °F	91 %	80 %	62 %	10 mph	5 mph	16 mph	30 in	29.94 in	29.87 in	0 in
5	69.8 °F	61.5 °F	53.2 °F	57.3 °F	53.6 °F	49.4 °F	94 %	76 %	52 %	9 mph	3 mph	15 mph	30.05 in	29.99 in	29.93 in	0 in
6	73.9 °F	64.4 °F	55 °F	59.3 °F	55.2 °F	51.8 °F	90 %	72 %	52 %	10 mph	3 mph	17 mph	29.93 in	29.85 in	29.77 in	0 in
7	86.5 °F	74.2 °F	62.1 °F	55.4 °F	36.2 °F	17.6 °F	72 %	34 %	10 %	12 mph	6 mph	27 mph	29.87 in	29.8 in	29.73 in	0 in
8	87.4 °F	73.8 °F	60.1 °F	58.1 °F	48.6 °F	35.8 °F	89 %	51 %	19 %	9 mph	4 mph	20 mph	29.79 in	29.73 in	29.67 in	0 in
9	64.6 °F	60.4 °F	56.3 °F	58.3 °F	56.4 °F	53.9 °F	97 %	89 %	75 %	11 mph	5 mph	20 mph	29.8 in	29.76 in	29.72 in	0 in
10	63.9 °F	59.1 °F	54.3 °F	55.7 °F	53.7 °F	51.7 °F	93 %	83 %	69 %	12 mph	4 mph	19 mph	29.79 in	29.76 in	29.72 in	0 in
11	67.6 °F	61 °F	54.5 °F	54.5 °F	53.5 °F	51.4 °F	93 %	78 %	57 %	10 mph	3 mph	16 mph	29.85 in	29.81 in	29.76 in	0 in
12	78.6 °F	65.1 °F	51.8 °F	58.8 °F	52 °F	42.3 °F	94 %	71 %	31 %	5 mph	2 mph	9 mph	29.88 in	29.81 in	29.74 in	0 in
13	64.4 °F	58.6 °F	52.7 °F	58.3 °F	52.7 °F	43.2 °F	95 %	82 %	67 %	10 mph	4 mph	14 mph	29.83 in	29.79 in	29.75 in	0 in
14	66.9 °F	60 °F	53.1 °F	57 °F	54.2 °F	50.8 °F	94 %	83 %	64 %	8 mph	3 mph	13 mph	29.97 in	29.9 in	29.82 in	0 in
15	79.7 °F	66.8 °F	54 °F	51 °F	25.9 °F	10.7 °F	89 %	25 %	10 %	13 mph	4 mph	23 mph	30.11 in	30.04 in	29.97 in	0 in
16	72.1 °F	60.4 °F	48.7 °F	57 °F	46.4 °F	32.3 °F	94 %	66 %	30 %	7 mph	2 mph	12 mph	30.07 in	30.02 in	29.98 in	0 in
17	66 °F	58.2 °F	50.7 °F	55.6 °F	53.3 °F	49.6 °F	98 %	86 %	64 %	9 mph	3 mph	15 mph	30.08 in	30.03 in	29.98 in	0 in
18	67.8 °F	60.1 °F	52.3 °F	56.8 °F	53.9 °F	50.5 °F	96 %	85 %	64 %	7 mph	2 mph	14 mph	30.12 in	30.06 in	30 in	0 in
19	72.3 °F	61.2 °F	50 °F	59.5 °F	53.6 °F	47.8 °F	95 %	81 %	52 %	5 mph	2 mph	10 mph	30.11 in	30.04 in	29.97 in	0 in
20	65.7 °F	59.9 °F	54.1 °F	58.5 °F	54.2 °F	52.6 °F	97 %	88 %	67 %	9 mph	3 mph	15 mph	30 in	29.94 in	29.87 in	0 in
21	64 °F	58.6 °F	53.2 °F	54.7 °F	52.8 °F	51.5 °F	96 %	89 %	70 %	8 mph	3 mph	14 mph	29.96 in	29.92 in	29.87 in	0 in
22	62.4 °F	58.6 °F	54.9 °F	53.3 °F	51.8 °F	50.1 °F	92 %	82 %	70 %	9 mph	4 mph	17 mph	29.95 in	29.91 in	29.86 in	0 in
23	65.5 °F	58.1 °F	50.7 °F	55.4 °F	50.8 °F	47.7 °F	92 %	78 %	60 %	8 mph	3 mph	13 mph	30.03 in	29.98 in	29.92 in	0 in
24	69.8 °F	60.4 °F	50.9 °F	58.3 °F	54 °F	48.5 °F	98 %	85 %	63 %	8 mph	2 mph	15 mph	30.03 in	29.99 in	29.95 in	0 in
25	73 °F	64.8 °F	57 °F	60.4 °F	56.3 °F	53.7 °F	96 %	83 %	56 %	6 mph	2 mph	11 mph	30.1 in	30.05 in	29.99 in	0 in
26	72.9 °F	62.8 °F	52.7 °F	59.3 °F	54.9 °F	49.8 °F	94 %	80 %	49 %	8 mph	2 mph	12 mph	30.09 in	30.02 in	29.95 in	0 in
27	73.8 °F	63.8 °F	53.8 °F	64.1 °F	58.1 °F	52.9 °F	99 %	88 %	64 %	6 mph	2 mph	9 mph	30.03 in	29.99 in	29.94 in	0.01 in
28	70.2 °F	64 °F	58.1 °F	62.1 °F	58 °F	49.6 °F	99 %	87 %	64 %	10 mph	3 mph	18 mph	30.11 in	30.06 in	30.01 in	0 in
29	72 °F	62.8 °F	54.1 °F	52.3 °F	47.6 °F	36.8 °F	81 %	62 %	28 %	8 mph	3 mph	13 mph	30.16 in	30.1 in	30.05 in	0 in
30	76.3 °F	64.5 °F	52.7 °F	49.5 °F	45.3 °F	36.4 °F	78 %	58 %	32 %	7 mph	3 mph	14 mph	30.1 in	30.05 in	29.99 in	0 in
31	73.6 °F	61.4 °F	49.3 °F	55.9 °F	48.2 °F	37.8 °F	87 %	66 %	30 %	6 mph	2 mph	11 mph	30.11 in	30.06 in	30.01 in	0 in
2018	Temperature			Dew Point			Humidity			Speed			Pressure			Precip. Accum.
Nov	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Gust	High	Avg	Low	Sum
1	80.4 °F	66.8 °F	53.4 °F	57.1 °F	52.1 °F	46 °F	88 %	68 %	33 %	5 mph	2 mph	8 mph	30.12 in	30.07 in	30.01 in	0 in

https://www.wunderground.com/personal-weather-station/dashboard?ID=KCAOAKLA34#history/s20181201/e20181229/mcustom

About This Weather Station

Weather Station ID: KCAOAKLA34

Station Name: Triple Point

Latitude / Longitude: N 37 ° 50 ' 51 '', W 122 ° 17 ' 10 ''

Elevation: 36

City: Oakland

State: CA

Hardware: other

Software: Cumulus v3.0.0

Weather History Table
December 1, 2018 - December 29, 2018

2018	Temperature			Dew Point			Humidity			Speed			Pressure			Precip. Accum.
Dec	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Gust	High	Avg	Low	Sum
1	60.6 °F	53.6 °F	46.6 °F	53.7 °F	45.9 °F	38.2 °F	98 %	77 %	53 %	12 mph	5 mph	21 mph	30.06 in	29.98 in	29.9 in	0.15 in
2	58.6 °F	49.4 °F	40.5 °F	45.7 °F	38.7 °F	34.6 °F	88 %	66 %	47 %	6 mph	2 mph	13 mph	30.14 in	30.07 in	30 in	0 in
3	63.1 °F	55.4 °F	47.8 °F	40.8 °F	38.7 °F	34.7 °F	72 %	60 %	37 %	4 mph	2 mph	14 mph	30.16 in	30.07 in	29.98 in	0 in
4	55.4 °F	53 °F	50.5 °F	42.7 °F	38.6 °F	35 °F	72 %	59 %	52 %	9 mph	2 mph	29 mph	30.01 in	29.92 in	29.83 in	0.07 in
5	57.2 °F	52.2 °F	47.5 °F	51.4 °F	45.5 °F	41 °F	92 %	78 %	61 %	8 mph	3 mph	20 mph	29.88 in	29.83 in	29.79 in	0.21 in
6	70 °F	59.3 °F	48.7 °F	44.2 °F	39.2 °F	35 °F	75 %	52 %	32 %	5 mph	2 mph	17 mph	29.98 in	29.9 in	29.83 in	0 in
7	63.7 °F	53.3 °F	43 °F	47.2 °F	44 °F	40.5 °F	93 %	75 %	46 %	5 mph	1 mph	9 mph	30.22 in	30.09 in	29.96 in	0 in
8	69.1 °F	55.5 °F	41.9 °F	52.3 °F	44.2 °F	41.4 °F	98 %	75 %	43 %	4 mph	1 mph	10 mph	30.3 in	30.24 in	30.19 in	0 in
9	63.3 °F	52.7 °F	42.3 °F	51.8 °F	45.1 °F	40.9 °F	98 %	86 %	58 %	4 mph	1 mph	8 mph	30.3 in	30.25 in	30.2 in	0 in
10	59.2 °F	51.9 °F	44.6 °F	52.6 °F	47.7 °F	43.8 °F	97 %	89 %	70 %	7 mph	2 mph	11 mph	30.22 in	30.17 in	30.11 in	0.01 in
11	64.2 °F	52 °F	40.3 °F	53.5 °F	44.8 °F	40 °F	99 %	85 %	51 %	4 mph	1 mph	7 mph	30.19 in	30.15 in	30.11 in	0.01 in
12	67.3 °F	58 °F	48.6 °F	52.2 °F	46.5 °F	40.5 °F	97 %	75 %	40 %	7 mph	2 mph	16 mph	30.26 in	30.2 in	30.15 in	0 in
13	70.7 °F	56.4 °F	42.3 °F	47.4 °F	39.9 °F	22 °F	94 %	65 %	22 %	5 mph	2 mph	15 mph	30.25 in	30.15 in	30.05 in	0 in
14	64 °F	55 °F	46 °F	55.1 °F	49.6 °F	42.9 °F	93 %	84 %	69 %	14 mph	3 mph	24 mph	30.09 in	30.02 in	29.96 in	0.01 in
15	63.1 °F	57.8 °F	52.5 °F	53.1 °F	50.6 °F	48.5 °F	93 %	78 %	61 %	6 mph	2 mph	11 mph	30.08 in	30.02 in	29.97 in	0 in
16	60.8 °F	57.5 °F	54.3 °F	58 °F	52.6 °F	47.1 °F	99 %	84 %	69 %	11 mph	5 mph	21 mph	30.05 in	29.93 in	29.82 in	0.73 in
17	62.6 °F	56.1 °F	49.8 °F	58 °F	52.3 °F	46.8 °F	99 %	89 %	60 %	4 mph	2 mph	8 mph	30.24 in	30.12 in	30 in	0.01 in
18	66.4 °F	56.5 °F	47.1 °F	53.8 °F	50.1 °F	46.9 °F	99 %	86 %	59 %	5 mph	1 mph	10 mph	30.32 in	30.27 in	30.23 in	0.01 in
19	68.9 °F	61.6 °F	54.5 °F	56.9 °F	52.9 °F	50.1 °F	96 %	84 %	56 %	3 mph	1 mph	8 mph	30.3 in	30.2 in	30.1 in	0 in
20	54.5 °F	54.5 °F	54.5 °F	51.3 °F	51.3 °F	51.3 °F	89 %	89 %	89 %	6 mph	2 mph	11 mph	30.15 in	30.09 in	30.03 in	0 in
21	54.5 °F	54.5 °F	54.5 °F	51.3 °F	51.3 °F	51.3 °F	89 %	89 %	89 %	6 mph	2 mph	11 mph	30.07 in	30.04 in	30.01 in	0.09 in
22	54.5 °F	54.5 °F	54.5 °F	51.3 °F	51.3 °F	51.3 °F	89 %	89 %	89 %	5 mph	2 mph	10 mph	30.16 in	30.11 in	30.06 in	0 in
23	54.5 °F	54.5 °F	54.5 °F	51.3 °F	51.3 °F	51.3 °F	89 %	89 %	89 %	5 mph	1 mph	11 mph	30.25 in	30.2 in	30.15 in	0 in
24	54.5 °F	54.5 °F	54.5 °F	51.3 °F	51.3 °F	51.3 °F	89 %	89 %	89 %	9 mph	3 mph	21 mph	30.19 in	29.98 in	29.76 in	0.3 in
25	54.5 °F	54.5 °F	54.5 °F	51.3 °F	51.3 °F	51.3 °F	89 %	89 %	89 %	10 mph	4 mph	18 mph	30.03 in	29.89 in	29.75 in	0 in
26	54.5 °F	54.5 °F	54.5 °F	51.3 °F	51.3 °F	51.3 °F	89 %	89 %	89 %	6 mph	2 mph	14 mph	30.14 in	30.08 in	30.01 in	0 in
27	54.5 °F	54.5 °F	54.5 °F	51.3 °F	51.3 °F	51.3 °F	89 %	89 %	89 %	14 mph	5 mph	26 mph	30.16 in	30.11 in	30.07 in	0 in
28	54.5 °F	54.5 °F	54.5 °F	51.3 °F	51.3 °F	51.3 °F	89 %	89 %	89 %	8 mph	4 mph	19 mph	30.25 in	30.19 in	30.13 in	0 in
29	54.5 °F	54.5 °F	54.5 °F	51.3 °F	51.3 °F	51.3 °F	89 %	89 %	89 %	4 mph	1 mph	8 mph	30.35 in	30.29 in	30.23 in	0 in

APPENDIX D

Laboratory Analytical Reports and Chain of Custody Documentation

- **McCampbell Workorder #1806040 - Shallow Soil Samples from Locations S1 Through S9 Lead Results**
- **McCampbell Workorder #1806063 - Borehole Groundwater Samples GW3 Through GW9 Results**
- **McCampbell Workorder #1810751 - Borehole Groundwater Samples GW10 and GW11 Results**
- **Enthalpy Analytical Workorder #300421 - Soil Gas Samples SG6, SG6-DUP, and SG7 Through SG9 Results**
- **Enthalpy Analytical Workorder #302994 - Soil Gas Samples SG4, SG5, and SG5-DUP Results**
- **Enthalpy Analytical Workorder #304310 - Soil Gas Samples SG2, SG4, SG5, SG6, SG6-DUP, and SG10 Through SG14 Results**
- **McCampbell Workorder #1812906 - Soil Gas Samples SG15 Through SG17, SG20, and SG 20 DUP Results**
- **McCampbell Workorder #1812907 - Soil Gas Sample SG18 Results**

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1806040

Report Created for: P & D Environmental

55 Santa Clara Ave, Ste.240
Oakland, CA 94610

Project Contact: Lindsey Deschenes
Project P.O.:
Project: 0772; The Phoenix

Project Received: 06/01/2018

Analytical Report reviewed & approved for release on 06/08/2018 by:

Yen Cao

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: 0772; The Phoenix
WorkOrder: 1806040

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 μm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Quality Control Qualifiers

F10	MS/MSD outside control limits. Physical or chemical interferences exist due to sample matrix.

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806040
Date Received:	6/1/18 16:15	**Extraction Method:**	SW3050B
Date Prepared:	6/1/18	**Analytical Method:**	SW6020
Project:	0772; The Phoenix	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S1- 0.5	**1806040-001A**	**Soil**	**06/01/2018 10:55**	**ICP-MS2 089SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**1300**	5.0	10	06/04/2018 17:22

Surrogates	REC (%)	Limits		
Terbium	93	70-130		06/04/2018 17:22

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S1- 1.0	**1806040-002A**	**Soil**	**06/01/2018 10:53**	**ICP-MS2 072SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**34**	0.50	1	06/04/2018 15:36

Surrogates	REC (%)	Limits		
Terbium	93	70-130		06/04/2018 15:36

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S1- 2.0	**1806040-003A**	**Soil**	**06/01/2018 10:50**	**ICP-MS2 054SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**2.6**	0.50	1	06/04/2018 13:45

Surrogates	REC (%)	Limits		
Terbium	100	70-130		06/04/2018 13:45

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S1- 3.0	**1806040-004A**	**Soil**	**06/01/2018 10:46**	**ICP-MS2 055SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**2.2**	0.50	1	06/04/2018 13:52

Surrogates	REC (%)	Limits		
Terbium	101	70-130		06/04/2018 13:52

Analyst(s): ND

(Cont.)

Analytical Report

Client: P & D Environmental
Date Received: 6/1/18 16:15
Date Prepared: 6/1/18
Project: 0772; The Phoenix

WorkOrder: 1806040
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S2- 0.5	**1806040-005A**	**Soil**	**06/01/2018 11:35**	**ICP-MS2 056SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**70**	0.50	1	06/04/2018 13:58

Surrogates	REC (%)	Limits		
Terbium	98	70-130		06/04/2018 13:58

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S2- 1.0	**1806040-006A**	**Soil**	**06/01/2018 11:53**	**ICP-MS2 057SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**37**	0.50	1	06/04/2018 14:04

Surrogates	REC (%)	Limits		
Terbium	99	70-130		06/04/2018 14:04

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S2- 2.0	**1806040-007A**	**Soil**	**06/01/2018 11:27**	**ICP-MS2 058SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**9.1**	0.50	1	06/04/2018 14:10

Surrogates	REC (%)	Limits		
Terbium	92	70-130		06/04/2018 14:10

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S2- 3.0	**1806040-008A**	**Soil**	**06/01/2018 11:25**	**ICP-MS2 059SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**4.9**	0.50	1	06/04/2018 14:16

Surrogates	REC (%)	Limits		
Terbium	98	70-130		06/04/2018 14:16

Analyst(s): ND

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806040
Date Received:	6/1/18 16:15	**Extraction Method:**	SW3050B
Date Prepared:	6/1/18	**Analytical Method:**	SW6020
Project:	0772; The Phoenix	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S3- 0.5	**1806040-009A**	**Soil**	**06/01/2018 11:05**	**ICP-MS2 090SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**2400**	5.0	10	06/04/2018 17:28

Surrogates	REC (%)	Limits	
Terbium	95	70-130	06/04/2018 17:28

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S3- 1.0	**1806040-010A**	**Soil**	**06/01/2018 11:09**	**ICP-MS2 073SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**14**	0.50	1	06/04/2018 15:43

Surrogates	REC (%)	Limits	
Terbium	97	70-130	06/04/2018 15:43

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S3- 2.0	**1806040-011A**	**Soil**	**06/01/2018 11:02**	**ICP-MS2 062SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**3.5**	0.50	1	06/04/2018 14:35

Surrogates	REC (%)	Limits	
Terbium	97	70-130	06/04/2018 14:35

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S3- 3.0	**1806040-012A**	**Soil**	**06/01/2018 10:57**	**ICP-MS2 063SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**2.3**	0.50	1	06/04/2018 14:41

Surrogates	REC (%)	Limits	
Terbium	104	70-130	06/04/2018 14:41

Analyst(s): ND

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806040
Date Received:	6/1/18 16:15	**Extraction Method:**	SW3050B
Date Prepared:	6/1/18	**Analytical Method:**	SW6020
Project:	0772; The Phoenix	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S4- 0.5	1806040-013A	Soil	06/01/2018 11:22	ICP-MS2 067SMPL.D	159229

Analytes	Result	RL	DF	Date Analyzed
Lead	**310**	0.50	1	06/04/2018 15:06

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	93	70-130	06/04/2018 15:06

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S4- 1.0	1806040-014A	Soil	06/01/2018 11:20	ICP-MS2 068SMPL.D	159229

Analytes	Result	RL	DF	Date Analyzed
Lead	**7.9**	0.50	1	06/04/2018 15:12

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	102	70-130	06/04/2018 15:12

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S4- 2.0	1806040-015A	Soil	06/01/2018 11:18	ICP-MS2 069SMPL.D	159229

Analytes	Result	RL	DF	Date Analyzed
Lead	**2.1**	0.50	1	06/04/2018 15:18

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	99	70-130	06/04/2018 15:18

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S4- 3.0	1806040-016A	Soil	06/01/2018 11:15	ICP-MS2 070SMPL.D	159229

Analytes	Result	RL	DF	Date Analyzed
Lead	**2.0**	0.50	1	06/04/2018 15:24

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	96	70-130	06/04/2018 15:24

Analyst(s): JC

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806040
Date Received:	6/1/18 16:15	**Extraction Method:**	SW3050B
Date Prepared:	6/1/18	**Analytical Method:**	SW6020
Project:	0772; The Phoenix	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S5- 0.5	**1806040-017A**	**Soil**	**06/01/2018 11:45**	**ICP-MS2 071SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**6.0**	0.50	1	06/04/2018 15:30

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	94	70-130	06/04/2018 15:30

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S5- 1.0	**1806040-018A**	**Soil**	**06/01/2018 11:44**	**ICP-MS2 074SMPL.D**	**159229**

Analytes	Result	RL	DF	Date Analyzed
Lead	**2.3**	0.50	1	06/04/2018 15:49

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	97	70-130	06/04/2018 15:49

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S5- 2.0	**1806040-019A**	**Soil**	**06/01/2018 11:40**	**ICP-MS2 035SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**2.4**	0.50	1	06/04/2018 11:49

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	101	70-130	06/04/2018 11:49

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S5- 3.0	**1806040-020A**	**Soil**	**06/01/2018 11:38**	**ICP-MS2 075SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**1.9**	0.50	1	06/04/2018 15:55

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	102	70-130	06/04/2018 15:55

Analyst(s): JC

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806040
Date Received:	6/1/18 16:15	**Extraction Method:**	SW3050B
Date Prepared:	6/1/18	**Analytical Method:**	SW6020
Project:	0772; The Phoenix	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S6- 0.5	**1806040-021A**	**Soil**	**06/01/2018 11:56**	**ICP-MS2 091SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**75**	0.50	1	06/04/2018 17:35

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	98	70-130	06/04/2018 17:35

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S6- 1.0	**1806040-022A**	**Soil**	**06/01/2018 11:54**	**ICP-MS2 092SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**10**	0.50	1	06/04/2018 17:41

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	98	70-130	06/04/2018 17:41

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S6- 2.0	**1806040-023A**	**Soil**	**06/01/2018 11:50**	**ICP-MS2 093SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**5.5**	0.50	1	06/04/2018 17:47

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	97	70-130	06/04/2018 17:47

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S6- 3.0	**1806040-024A**	**Soil**	**06/01/2018 11:48**	**ICP-MS2 094SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**3.9**	0.50	1	06/04/2018 17:53

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	97	70-130	06/04/2018 17:53

Analyst(s): ND

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806040
Date Received:	6/1/18 16:15	**Extraction Method:**	SW3050B
Date Prepared:	6/1/18	**Analytical Method:**	SW6020
Project:	0772; The Phoenix	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S7 - 0.5	**1806040-025A**	**Soil**	**06/01/2018 12:23**	**ICP-MS2 095SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**70**	0.50	1	06/04/2018 17:59

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	97	70-130	06/04/2018 17:59

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S7- 1.0	**1806040-026A**	**Soil**	**06/01/2018 12:20**	**ICP-MS2 048SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**14**	0.50	1	06/05/2018 12:57

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	89	70-130	06/05/2018 12:57

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S7- 2.0	**1806040-027A**	**Soil**	**06/01/2018 12:18**	**ICP-MS2 049SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**39**	0.50	1	06/05/2018 13:04

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	88	70-130	06/05/2018 13:04

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S7- 3.0	**1806040-028A**	**Soil**	**06/01/2018 12:17**	**ICP-MS2 050SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**3.3**	0.50	1	06/05/2018 13:10

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	88	70-130	06/05/2018 13:10

Analyst(s): JC

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806040
Date Received:	6/1/18 16:15	**Extraction Method:**	SW3050B
Date Prepared:	6/1/18	**Analytical Method:**	SW6020
Project:	0772; The Phoenix	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S8- 0.5	**1806040-029A**	**Soil**	**06/01/2018 12:15**	**ICP-MS2 051SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**410**	0.50	1	06/05/2018 13:16

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	90	70-130	06/05/2018 13:16

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S8- 1.0	**1806040-030A**	**Soil**	**06/01/2018 12:13**	**ICP-MS2 055SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**2.2**	0.50	1	06/05/2018 13:41

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	95	70-130	06/05/2018 13:41

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S8- 2.0	**1806040-031A**	**Soil**	**06/01/2018 12:11**	**ICP-MS2 056SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**2.4**	0.50	1	06/05/2018 13:47

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	92	70-130	06/05/2018 13:47

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S8- 3.0	**1806040-032A**	**Soil**	**06/01/2018 12:09**	**ICP-MS2 057SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**2.1**	0.50	1	06/05/2018 13:53

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	90	70-130	06/05/2018 13:53

Analyst(s): ND

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806040
Date Received:	6/1/18 16:15	**Extraction Method:**	SW3050B
Date Prepared:	6/1/18	**Analytical Method:**	SW6020
Project:	0772; The Phoenix	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S9- 0.5	**1806040-033A**	**Soil**	**06/01/2018 12:04**	**ICP-MS2 058SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**64**	0.50	1	06/05/2018 13:59

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	94	70-130	06/05/2018 13:59

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S9- 1.0	**1806040-034A**	**Soil**	**06/01/2018 12:01**	**ICP-MS2 059SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**2.8**	0.50	1	06/05/2018 14:05

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	94	70-130	06/05/2018 14:05

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S9- 2.0	**1806040-035A**	**Soil**	**06/01/2018 11:59**	**ICP-MS2 060SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**2.4**	0.50	1	06/05/2018 14:11

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	90	70-130	06/05/2018 14:11

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S9- 3.0	**1806040-036A**	**Soil**	**06/01/2018 11:57**	**ICP-MS2 061SMPL.D**	**159238**

Analytes	Result	RL	DF	Date Analyzed
Lead	**1.9**	0.50	1	06/05/2018 14:17

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	93	70-130	06/05/2018 14:17

Analyst(s): ND

Quality Control Report

Client: P & D Environmental
Date Prepared: 6/1/18
Date Analyzed: 6/4/18
Instrument: ICP-MS2, ICP-MS3
Matrix: Soil
Project: 0772; The Phoenix

WorkOrder: 1806040
BatchID: 159229
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg
Sample ID: MB/LCS-159229
1806037-001AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	49.4	0.50	50	-	99	75-125
Surrogate Recovery							
Terbium	500	485		500	100	97	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	152	148	50	77.69	149,F10	140,F10	75-125	2.80	20
Surrogate Recovery									
Terbium	480	485	500		96	97	70-130	1.14	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Lead	74.6	77.69	3.98	20

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806040
Date Prepared:	6/1/18	**BatchID:**	159238
Date Analyzed:	6/4/18	**Extraction Method:**	SW3050B
Instrument:	ICP-MS2	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS-159238 1806040-019AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	50.5	0.50	50	-	101	75-125
Surrogate Recovery							
Terbium	473	496		500	95	99	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	49.9	54.5	50	2.363	95	104	75-125	8.81	20
Surrogate Recovery									
Terbium	478	517	500		96	103	70-130	7.88	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Lead	2.58	2.363	9.18	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

McCampbell Analytical, Inc.
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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1806040 **ClientCode: PDEO**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ▣ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
▣ Detection Summary ▣ Dry-Weight

Report to:
Lindsey Deschenes
P & D Environmental
55 Santa Clara Ave, Ste.240
Oakland, CA 94610
(510) 387-1700 FAX: 510-834-0152

Email: lab@pdenviro.com; Paul.King@pdenviro.c
cc/3rd Party:
PO:
Project: 0772; The Phoenix

Bill to:
Accounts Payable
P & D Environmental
55 Santa Clara ave, Ste.240
Oakland, CA 94610

Requested TAT: **5 days;**

Date Received: **06/01/2018**
Date Logged: **06/01/2018**

					Requested Tests (See legend below)											
Lab ID	**Client ID**	**Matrix**	**Collection Date**	**Hold**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
1806040-001	S1- 0.5	Soil	6/1/2018 10:55	☐	A											
1806040-002	S1- 1.0	Soil	6/1/2018 10:53	☐	A											
1806040-003	S1- 2.0	Soil	6/1/2018 10:50	☐	A											
1806040-004	S1- 3.0	Soil	6/1/2018 10:46	☐	A											
1806040-005	S2- 0.5	Soil	6/1/2018 11:35	☐	A											
1806040-006	S2- 1.0	Soil	6/1/2018 11:53	☐	A											
1806040-007	S2- 2.0	Soil	6/1/2018 11:27	☐	A											
1806040-008	S2- 3.0	Soil	6/1/2018 11:25	☐	A											
1806040-009	S3- 0.5	Soil	6/1/2018 11:05	☐	A											
1806040-010	S3- 1.0	Soil	6/1/2018 11:09	☐	A											
1806040-011	S3- 2.0	Soil	6/1/2018 11:02	☐	A											
1806040-012	S3- 3.0	Soil	6/1/2018 10:57	☐	A											
1806040-013	S4- 0.5	Soil	6/1/2018 11:22	☐	A											
1806040-014	S4- 1.0	Soil	6/1/2018 11:20	☐	A											
1806040-015	S4- 2.0	Soil	6/1/2018 11:18	☐	A											

Test Legend:

1	**PBMS_TTLC_S**	**2**		**3**		**4**	
5		**6**		**7**		**8**	
9		**10**		**11**		**12**	

Prepared by: Lilly Ortiz

Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1806040 **ClientCode: PDEO**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ▨ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
▨ Detection Summary ▨ Dry-Weight

Report to:
Lindsey Deschenes
P & D Environmental
55 Santa Clara Ave, Ste.240
Oakland, CA 94610
(510) 387-1700 FAX: 510-834-0152

Email: lab@pdenviro.com; Paul.King@pdenviro.c
cc/3rd Party:
PO:
Project: 0772; The Phoenix

Bill to:
Accounts Payable
P & D Environmental
55 Santa Clara ave, Ste.240
Oakland, CA 94610

Requested TAT: **5 days;**

Date Received: **06/01/2018**
Date Logged: **06/01/2018**

					Requested Tests (See legend below)											
Lab ID	**Client ID**	**Matrix**	**Collection Date**	**Hold**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
1806040-016	S4- 3.0	Soil	6/1/2018 11:15	☐	A											
1806040-017	S5- 0.5	Soil	6/1/2018 11:45	☐	A											
1806040-018	S5- 1.0	Soil	6/1/2018 11:44	☐	A											
1806040-019	S5- 2.0	Soil	6/1/2018 11:40	☐	A											
1806040-020	S5- 3.0	Soil	6/1/2018 11:38	☐	A											
1806040-021	S6- 0.5	Soil	6/1/2018 11:56	☐	A											
1806040-022	S6- 1.0	Soil	6/1/2018 11:54	☐	A											
1806040-023	S6- 2.0	Soil	6/1/2018 11:50	☐	A											
1806040-024	S6- 3.0	Soil	6/1/2018 11:48	☐	A											
1806040-025	S7 - 0.5	Soil	6/1/2018 12:23	☐	A											
1806040-026	S7- 1.0	Soil	6/1/2018 12:20	☐	A											
1806040-027	S7- 2.0	Soil	6/1/2018 12:18	☐	A											
1806040-028	S7- 3.0	Soil	6/1/2018 12:17	☐	A											
1806040-029	S8- 0.5	Soil	6/1/2018 12:15	☐	A											
1806040-030	S8- 1.0	Soil	6/1/2018 12:13	☐	A											

Test Legend:

1	**PBMS_TTLC_S**	**2**		**3**		**4**	
5		**6**		**7**		**8**	
9		**10**		**11**		**12**	

Prepared by: Lilly Ortiz

Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 3 of 3

WorkOrder: 1806040 **ClientCode: PDEO**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ▨ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

▨ Detection Summary ▨ Dry-Weight

Report to:
Lindsey Deschenes
P & D Environmental
55 Santa Clara Ave, Ste.240
Oakland, CA 94610
(510) 387-1700 FAX: 510-834-0152

Email: lab@pdenviro.com; Paul.King@pdenviro.c
cc/3rd Party:
PO:
Project: 0772; The Phoenix

Bill to:
Accounts Payable
P & D Environmental
55 Santa Clara ave, Ste.240
Oakland, CA 94610

Requested TAT: **5 days;**

Date Received: **06/01/2018**
Date Logged: **06/01/2018**

					Requested Tests (See legend below)											
Lab ID	**Client ID**	**Matrix**	**Collection Date**	**Hold**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
1806040-031	S8- 2.0	Soil	6/1/2018 12:11	☐	A											
1806040-032	S8- 3.0	Soil	6/1/2018 12:09	☐	A											
1806040-033	S9- 0.5	Soil	6/1/2018 12:04	☐	A											
1806040-034	S9- 1.0	Soil	6/1/2018 12:01	☐	A											
1806040-035	S9- 2.0	Soil	6/1/2018 11:59	☐	A											
1806040-036	S9- 3.0	Soil	6/1/2018 11:57	☐	A											

Test Legend:

1	**PBMS_TTLC_S**	**2**		**3**		**4**	
5		**6**		**7**		**8**	
9		**10**		**11**		**12**	

Prepared by: Lilly Ortiz

Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL
Project: 0772; The Phoenix
Work Order: 1806040
Client Contact: Lindsey Deschenes
QC Level: LEVEL 2
Contact's Email: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Date Logged: 6/1/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1806040-001A	S1- 0.5	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 10:55	5 days		☐	
1806040-002A	S1- 1.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 10:53	5 days		☐	
1806040-003A	S1- 2.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 10:50	5 days		☐	
1806040-004A	S1- 3.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 10:46	5 days		☐	
1806040-005A	S2- 0.5	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:35	5 days		☐	
1806040-006A	S2- 1.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:53	5 days		☐	
1806040-007A	S2- 2.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:27	5 days		☐	
1806040-008A	S2- 3.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:25	5 days		☐	
1806040-009A	S3- 0.5	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:05	5 days		☐	
1806040-010A	S3- 1.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:09	5 days		☐	
1806040-011A	S3- 2.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:02	5 days		☐	
1806040-012A	S3- 3.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 10:57	5 days		☐	
1806040-013A	S4- 0.5	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:22	5 days		☐	
1806040-014A	S4- 1.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:20	5 days		☐	
1806040-015A	S4- 2.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:18	5 days		☐	
1806040-016A	S4- 3.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:15	5 days		☐	

NOTES:

- **STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**
- **MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.**

WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL
Project: 0772; The Phoenix
Work Order: 1806040
Client Contact: Lindsey Deschenes
QC Level: LEVEL 2
Contact's Email: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Date Logged: 6/1/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1806040-017A	S5- 0.5	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:45	5 days		☐	
1806040-018A	S5- 1.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:44	5 days		☐	
1806040-019A	S5- 2.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:40	5 days		☐	
1806040-020A	S5- 3.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:38	5 days		☐	
1806040-021A	S6- 0.5	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:56	5 days		☐	
1806040-022A	S6- 1.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:54	5 days		☐	
1806040-023A	S6- 2.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:50	5 days		☐	
1806040-024A	S6- 3.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:48	5 days		☐	
1806040-025A	S7 - 0.5	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 12:23	5 days		☐	
1806040-026A	S7- 1.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 12:20	5 days		☐	
1806040-027A	S7- 2.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 12:18	5 days		☐	
1806040-028A	S7- 3.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 12:17	5 days		☐	
1806040-029A	S8- 0.5	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 12:15	5 days		☐	
1806040-030A	S8- 1.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 12:13	5 days		☐	
1806040-031A	S8- 2.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 12:11	5 days		☐	
1806040-032A	S8- 3.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 12:09	5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL
Project: 0772; The Phoenix
Work Order: 1806040
Client Contact: Lindsey Deschenes
QC Level: LEVEL 2
Contact's Email: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Date Logged: 6/1/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1806040-033A	S9- 0.5	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 12:04	5 days		☐	
1806040-034A	S9- 1.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 12:01	5 days		☐	
1806040-035A	S9- 2.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:59	5 days		☐	
1806040-036A	S9- 3.0	Soil	SW6020 (Lead)	1	Acetate Liner	☐	6/1/2018 11:57	5 days		☐	

NOTES:
- **STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**
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CHAIN OF CUSTODY RECORD

1806040 PAGE 1 OF 3

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME: The Phoenix

SAMPLED BY: (PRINTED & SIGNATURE) Lindsey Deschenes

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): Total Lead	PRESERVATIVE	REMARKS
S1-0.5	6/1/18	10:55	Soil		1	X	None	Normal TAT
S1-1.0	"	10:53	"		1	X	"	" "
S1-2.0	"	10:50	"		1	X	"	" "
S1-3.0	"	10:46	"		1	X	"	" "
S2-0.5	"	11:35	"		1	X	"	" "
S2-1.0	"	11:33	"		1	X	"	" "
S2-2.0	"	11:27	"		1	X	"	" "
S2-3.0	"	11:25	"		1	X	"	" "
S3-0.5	"	11:05	"		1	X	"	" "
S3-1.0	"	11:04	"		1	X	"	" "
S3-2.0	"	11:02	"		1	X	"	" "
S3-3.0	"	10:57	"		1	X	"	" "

RELINQUISHED BY: (SIGNATURE) — DATE 6·1·18 TIME 1300 — RECEIVED BY: (SIGNATURE) LAP 6·1·18 1300

RELINQUISHED BY: (SIGNATURE) LAP — DATE 6·1·18 TIME 1615 — RECEIVED BY: (SIGNATURE) 6/1/18 1615

RELINQUISHED BY: (SIGNATURE) — DATE — TIME — RECEIVED FOR LABORATORY BY: (SIGNATURE)

Total No. of Samples (This Shipment): 36

Total No. of Containers (This Shipment): 36

LABORATORY: McCampbell Analytical

LABORATORY CONTACT: Angela Rydelius

LABORATORY PHONE NUMBER: (925) 252-9262

SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES [✓ NO]

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS:

CHAIN OF CUSTODY RECORD

1800040 PAGE 3 OF 3

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME: The Phoenix

SAMPLED BY: (PRINTED & SIGNATURE) Lindsey Deschenes

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): Total Lead								PRESERVATIVE	REMARKS
S4 - 0.5	6/1/18	11:22	Soil		1	X								None	Normal TAT
S4 - 1.0	"	11:20	"		1	X								"	" "
S4 - 2.0	"	11:18	"		1	X								"	" "
S4 - 3.0	"	11:15	"		1	X								"	" "
S5 - 0.5	"	11:45	"		1	X								"	" "
S5 - 1.0	"	11:44	"		1	X								"	" "
S5 - 2.0	"	11:40	"		1	X								"	" "
S5 - 3.0	"	11:38	"		1	X								"	" "
S6 - 0.5	"	11:56	"		1	X								"	" "
S6 - 1.0	"	11:54	"		1	X								"	" "
S6 - 2.0	"	11:50	"		1	X								"	" "
S6 - 3.0	"	11:48	"		1	X								"	" "

RELINQUISHED BY: (SIGNATURE)	DATE 6-1-18	TIME 1300	RECEIVED BY: (SIGNATURE) LAP 6-1-18 1300	Total No. of Samples (This Shipment) 36 Total No. of Containers (This Shipment) 36	LABORATORY: McCampbell Analytical
RELINQUISHED BY: (SIGNATURE) LAP	DATE 6-1-18	TIME 1615	RECEIVED BY: (SIGNATURE) Lilly Ortiz 6/1/18 1615	LABORATORY CONTACT: Angela Rydelius	LABORATORY PHONE NUMBER: (925) 252-9262
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES (X) NO	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS:

CHAIN OF CUSTODY RECORD

1806048 PAGE 3 OF 3

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME: The Phoenix

SAMPLED BY: (PRINTED & SIGNATURE) Lindsey Deschenes

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): Total Lead	PRESERVATIVE	REMARKS
S7 - 0.5	6/1/18	1223	Soil		1	X	None	Normal TAT
S7 - 1.0	"	1220	"		1	X	"	" "
S7 - 2.0	"	1218	"		1	X	"	" "
S7 - 3.0	"	1217	"		1	X	"	" "
S8 - 0.5	"	12:15	"		1	X	"	" "
S8 - 1.0	"	12:13	"		1	X	"	" "
S8 - 2.0	"	12:11	"		1	X	"	" "
S8 - 3.0	"	12:09	"		1	X	"	" "
S9 - 0.5	"	12:04	"		1	X	"	" "
S9 - 1.0	"	12:01	"		1	X	"	" "
S9 - 2.0	"	11:59	"		1	X	"	" "
S9 - 3.0	"	11:57	"		1	X	"	" "

RELINQUISHED BY: (SIGNATURE)	DATE 6·1·18	TIME 1300	RECEIVED BY: (SIGNATURE) LAP 6·1·18 1300	Total No. of Samples (This Shipment) 36 Total No. of Containers (This Shipment) 36	LABORATORY: McCampbell Analytical
RELINQUISHED BY: (SIGNATURE) LAP	DATE 6·1·18	TIME 1615	RECEIVED BY: (SIGNATURE) 6/1/18 1615	LABORATORY CONTACT: Angela Rydelius	LABORATORY PHONE NUMBER: (925) 252-9262
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES (X) NO	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS:

Sample Receipt Checklist

Client Name:	**P & D Environmental**		Date and Time Received:	**6/1/2018 16:15**
Project:	**0772; The Phoenix**		Date Logged:	**6/1/2018**
			Received by:	Lilly Ortiz
WorkOrder №:	**1806040**	Matrix: Soil	Logged by:	Lilly Ortiz
Carrier:	Lorenzo Perez (MAI Courier)			

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Sample IDs noted by Client on COC?	Yes ☑	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐	
Sampler's name noted on COC?	Yes ☑	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	NA ☐
Samples Received on Ice?	Yes ☐	No ☑	
Sample/Temp Blank temperature	Temp:		NA ☑
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
UCMR Samples:			
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes ☐	No ☐	NA ☑

Comments:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1806063

Report Created for: P & D Environmental

55 Santa Clara Ave, Ste.240
Oakland, CA 94610

Project Contact: Lindsey Deschenes
Project P.O.:
Project: 0772; The Phoenix 801 Pine Street Oakland, CA

Project Received: 06/01/2018

Analytical Report reviewed & approved for release on 06/11/2018 by:

Jennifer Lagerbom
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
CA ELAP 1644 ♦ NELAP 4033 ORELAP

Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: 0772; The Phoenix 801 Pine Street Oakland, CA
WorkOrder: 1806063

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 μm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

F	Sample was filtered upon arrival to the lab

Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: 0772; The Phoenix 801 Pine Street Oakland, CA
WorkOrder: 1806063

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW3	**1806063-001B**	**Water**	**05/31/2018 14:34**	**GC10 06081814.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	06/08/2018 16:33
tert-Amyl methyl ether (TAME)	ND	0.50	1	06/08/2018 16:33
Benzene	ND	0.50	1	06/08/2018 16:33
Bromobenzene	ND	0.50	1	06/08/2018 16:33
Bromochloromethane	ND	0.50	1	06/08/2018 16:33
Bromodichloromethane	ND	0.50	1	06/08/2018 16:33
Bromoform	ND	0.50	1	06/08/2018 16:33
Bromomethane	ND	0.50	1	06/08/2018 16:33
2-Butanone (MEK)	ND	2.0	1	06/08/2018 16:33
t-Butyl alcohol (TBA)	ND	2.0	1	06/08/2018 16:33
n-Butyl benzene	ND	0.50	1	06/08/2018 16:33
sec-Butyl benzene	ND	0.50	1	06/08/2018 16:33
tert-Butyl benzene	ND	0.50	1	06/08/2018 16:33
Carbon Disulfide	ND	0.50	1	06/08/2018 16:33
Carbon Tetrachloride	ND	0.50	1	06/08/2018 16:33
Chlorobenzene	ND	0.50	1	06/08/2018 16:33
Chloroethane	ND	0.50	1	06/08/2018 16:33
Chloroform	ND	0.50	1	06/08/2018 16:33
Chloromethane	ND	0.50	1	06/08/2018 16:33
2-Chlorotoluene	ND	0.50	1	06/08/2018 16:33
4-Chlorotoluene	ND	0.50	1	06/08/2018 16:33
Dibromochloromethane	ND	0.50	1	06/08/2018 16:33
1,2-Dibromo-3-chloropropane	ND	0.20	1	06/08/2018 16:33
1,2-Dibromoethane (EDB)	ND	0.50	1	06/08/2018 16:33
Dibromomethane	ND	0.50	1	06/08/2018 16:33
1,2-Dichlorobenzene	ND	0.50	1	06/08/2018 16:33
1,3-Dichlorobenzene	ND	0.50	1	06/08/2018 16:33
1,4-Dichlorobenzene	ND	0.50	1	06/08/2018 16:33
Dichlorodifluoromethane	ND	0.50	1	06/08/2018 16:33
1,1-Dichloroethane	ND	0.50	1	06/08/2018 16:33
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	06/08/2018 16:33
1,1-Dichloroethene	ND	0.50	1	06/08/2018 16:33
cis-1,2-Dichloroethene	ND	0.50	1	06/08/2018 16:33
trans-1,2-Dichloroethene	ND	0.50	1	06/08/2018 16:33
1,2-Dichloropropane	ND	0.50	1	06/08/2018 16:33
1,3-Dichloropropane	ND	0.50	1	06/08/2018 16:33
2,2-Dichloropropane	ND	0.50	1	06/08/2018 16:33

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW3	1806063-001B	Water	05/31/2018 14:34	GC10 06081814.D	159686

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	06/08/2018 16:33
cis-1,3-Dichloropropene	ND	0.50	1	06/08/2018 16:33
trans-1,3-Dichloropropene	ND	0.50	1	06/08/2018 16:33
Diisopropyl ether (DIPE)	ND	0.50	1	06/08/2018 16:33
Ethylbenzene	ND	0.50	1	06/08/2018 16:33
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	06/08/2018 16:33
Freon 113	ND	0.50	1	06/08/2018 16:33
Hexachlorobutadiene	ND	0.50	1	06/08/2018 16:33
Hexachloroethane	ND	0.50	1	06/08/2018 16:33
2-Hexanone	ND	0.50	1	06/08/2018 16:33
Isopropylbenzene	ND	0.50	1	06/08/2018 16:33
4-Isopropyl toluene	ND	0.50	1	06/08/2018 16:33
Methyl-t-butyl ether (MTBE)	ND	0.50	1	06/08/2018 16:33
Methylene chloride	ND	0.50	1	06/08/2018 16:33
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	06/08/2018 16:33
Naphthalene	ND	0.50	1	06/08/2018 16:33
n-Propyl benzene	ND	0.50	1	06/08/2018 16:33
Styrene	ND	0.50	1	06/08/2018 16:33
1,1,1,2-Tetrachloroethane	ND	0.50	1	06/08/2018 16:33
1,1,2,2-Tetrachloroethane	ND	0.50	1	06/08/2018 16:33
Tetrachloroethene	ND	0.50	1	06/08/2018 16:33
Toluene	ND	0.50	1	06/08/2018 16:33
1,2,3-Trichlorobenzene	ND	0.50	1	06/08/2018 16:33
1,2,4-Trichlorobenzene	ND	0.50	1	06/08/2018 16:33
1,1,1-Trichloroethane	ND	0.50	1	06/08/2018 16:33
1,1,2-Trichloroethane	ND	0.50	1	06/08/2018 16:33
Trichloroethene	ND	0.50	1	06/08/2018 16:33
Trichlorofluoromethane	ND	0.50	1	06/08/2018 16:33
1,2,3-Trichloropropane	ND	0.50	1	06/08/2018 16:33
1,2,4-Trimethylbenzene	ND	0.50	1	06/08/2018 16:33
1,3,5-Trimethylbenzene	ND	0.50	1	06/08/2018 16:33
Vinyl Chloride	ND	0.50	1	06/08/2018 16:33
Xylenes, Total	ND	0.50	1	06/08/2018 16:33

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW3	**1806063-001B**	**Water**	**05/31/2018 14:34**	**GC10 06081814.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	133	78-134		06/08/2018 16:33
Toluene-d8	107	82-120		06/08/2018 16:33
4-BFB	117	69-131		06/08/2018 16:33

Analyst(s): TK

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW4	**1806063-002B**	**Water**	**05/31/2018 14:51**	**GC10 06081829.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	06/09/2018 02:35
tert-Amyl methyl ether (TAME)	ND	0.50	1	06/09/2018 02:35
Benzene	ND	0.50	1	06/09/2018 02:35
Bromobenzene	ND	0.50	1	06/09/2018 02:35
Bromochloromethane	ND	0.50	1	06/09/2018 02:35
Bromodichloromethane	ND	0.50	1	06/09/2018 02:35
Bromoform	ND	0.50	1	06/09/2018 02:35
Bromomethane	ND	0.50	1	06/09/2018 02:35
2-Butanone (MEK)	ND	2.0	1	06/09/2018 02:35
t-Butyl alcohol (TBA)	ND	2.0	1	06/09/2018 02:35
n-Butyl benzene	ND	0.50	1	06/09/2018 02:35
sec-Butyl benzene	ND	0.50	1	06/09/2018 02:35
tert-Butyl benzene	ND	0.50	1	06/09/2018 02:35
Carbon Disulfide	ND	0.50	1	06/09/2018 02:35
Carbon Tetrachloride	ND	0.50	1	06/09/2018 02:35
Chlorobenzene	ND	0.50	1	06/09/2018 02:35
Chloroethane	ND	0.50	1	06/09/2018 02:35
Chloroform	ND	0.50	1	06/09/2018 02:35
Chloromethane	ND	0.50	1	06/09/2018 02:35
2-Chlorotoluene	ND	0.50	1	06/09/2018 02:35
4-Chlorotoluene	ND	0.50	1	06/09/2018 02:35
Dibromochloromethane	ND	0.50	1	06/09/2018 02:35
1,2-Dibromo-3-chloropropane	ND	0.20	1	06/09/2018 02:35
1,2-Dibromoethane (EDB)	ND	0.50	1	06/09/2018 02:35
Dibromomethane	ND	0.50	1	06/09/2018 02:35
1,2-Dichlorobenzene	ND	0.50	1	06/09/2018 02:35
1,3-Dichlorobenzene	ND	0.50	1	06/09/2018 02:35
1,4-Dichlorobenzene	ND	0.50	1	06/09/2018 02:35
Dichlorodifluoromethane	ND	0.50	1	06/09/2018 02:35
1,1-Dichloroethane	ND	0.50	1	06/09/2018 02:35
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	06/09/2018 02:35
1,1-Dichloroethene	ND	0.50	1	06/09/2018 02:35
cis-1,2-Dichloroethene	ND	0.50	1	06/09/2018 02:35
trans-1,2-Dichloroethene	ND	0.50	1	06/09/2018 02:35
1,2-Dichloropropane	ND	0.50	1	06/09/2018 02:35
1,3-Dichloropropane	ND	0.50	1	06/09/2018 02:35
2,2-Dichloropropane	ND	0.50	1	06/09/2018 02:35

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW4	**1806063-002B**	**Water**	**05/31/2018 14:51**	**GC10 06081829.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	06/09/2018 02:35
cis-1,3-Dichloropropene	ND	0.50	1	06/09/2018 02:35
trans-1,3-Dichloropropene	ND	0.50	1	06/09/2018 02:35
Diisopropyl ether (DIPE)	ND	0.50	1	06/09/2018 02:35
Ethylbenzene	ND	0.50	1	06/09/2018 02:35
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	06/09/2018 02:35
Freon 113	ND	0.50	1	06/09/2018 02:35
Hexachlorobutadiene	ND	0.50	1	06/09/2018 02:35
Hexachloroethane	ND	0.50	1	06/09/2018 02:35
2-Hexanone	ND	0.50	1	06/09/2018 02:35
Isopropylbenzene	ND	0.50	1	06/09/2018 02:35
4-Isopropyl toluene	ND	0.50	1	06/09/2018 02:35
Methyl-t-butyl ether (MTBE)	ND	0.50	1	06/09/2018 02:35
Methylene chloride	ND	0.50	1	06/09/2018 02:35
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	06/09/2018 02:35
Naphthalene	ND	0.50	1	06/09/2018 02:35
n-Propyl benzene	ND	0.50	1	06/09/2018 02:35
Styrene	ND	0.50	1	06/09/2018 02:35
1,1,1,2-Tetrachloroethane	ND	0.50	1	06/09/2018 02:35
1,1,2,2-Tetrachloroethane	ND	0.50	1	06/09/2018 02:35
Tetrachloroethene	ND	0.50	1	06/09/2018 02:35
Toluene	ND	0.50	1	06/09/2018 02:35
1,2,3-Trichlorobenzene	ND	0.50	1	06/09/2018 02:35
1,2,4-Trichlorobenzene	ND	0.50	1	06/09/2018 02:35
1,1,1-Trichloroethane	ND	0.50	1	06/09/2018 02:35
1,1,2-Trichloroethane	ND	0.50	1	06/09/2018 02:35
Trichloroethene	ND	0.50	1	06/09/2018 02:35
Trichlorofluoromethane	ND	0.50	1	06/09/2018 02:35
1,2,3-Trichloropropane	ND	0.50	1	06/09/2018 02:35
1,2,4-Trimethylbenzene	ND	0.50	1	06/09/2018 02:35
1,3,5-Trimethylbenzene	ND	0.50	1	06/09/2018 02:35
Vinyl Chloride	ND	0.50	1	06/09/2018 02:35
Xylenes, Total	ND	0.50	1	06/09/2018 02:35

(Cont.)

Analytical Report

Client: P & D Environmental
Date Received: 6/1/18 16:15
Date Prepared: 6/8/18-6/9/18
Project: 0772; The Phoenix 801 Pine Street Oakland, CA

WorkOrder: 1806063
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW4	**1806063-002B**	**Water**	**05/31/2018 14:51**	**GC10 06081829.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	126	78-134		06/09/2018 02:35
Toluene-d8	107	82-120		06/09/2018 02:35
4-BFB	118	69-131		06/09/2018 02:35

Analyst(s): TK

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW5	**1806063-003B**	**Water**	**05/31/2018 15:06**	**GC10 06081830.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	06/09/2018 03:14
tert-Amyl methyl ether (TAME)	ND	0.50	1	06/09/2018 03:14
Benzene	ND	0.50	1	06/09/2018 03:14
Bromobenzene	ND	0.50	1	06/09/2018 03:14
Bromochloromethane	ND	0.50	1	06/09/2018 03:14
Bromodichloromethane	ND	0.50	1	06/09/2018 03:14
Bromoform	ND	0.50	1	06/09/2018 03:14
Bromomethane	ND	0.50	1	06/09/2018 03:14
2-Butanone (MEK)	ND	2.0	1	06/09/2018 03:14
t-Butyl alcohol (TBA)	ND	2.0	1	06/09/2018 03:14
n-Butyl benzene	ND	0.50	1	06/09/2018 03:14
sec-Butyl benzene	ND	0.50	1	06/09/2018 03:14
tert-Butyl benzene	ND	0.50	1	06/09/2018 03:14
Carbon Disulfide	ND	0.50	1	06/09/2018 03:14
Carbon Tetrachloride	ND	0.50	1	06/09/2018 03:14
Chlorobenzene	ND	0.50	1	06/09/2018 03:14
Chloroethane	ND	0.50	1	06/09/2018 03:14
Chloroform	ND	0.50	1	06/09/2018 03:14
Chloromethane	ND	0.50	1	06/09/2018 03:14
2-Chlorotoluene	ND	0.50	1	06/09/2018 03:14
4-Chlorotoluene	ND	0.50	1	06/09/2018 03:14
Dibromochloromethane	ND	0.50	1	06/09/2018 03:14
1,2-Dibromo-3-chloropropane	ND	0.20	1	06/09/2018 03:14
1,2-Dibromoethane (EDB)	ND	0.50	1	06/09/2018 03:14
Dibromomethane	ND	0.50	1	06/09/2018 03:14
1,2-Dichlorobenzene	ND	0.50	1	06/09/2018 03:14
1,3-Dichlorobenzene	ND	0.50	1	06/09/2018 03:14
1,4-Dichlorobenzene	ND	0.50	1	06/09/2018 03:14
Dichlorodifluoromethane	ND	0.50	1	06/09/2018 03:14
1,1-Dichloroethane	ND	0.50	1	06/09/2018 03:14
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	06/09/2018 03:14
1,1-Dichloroethene	ND	0.50	1	06/09/2018 03:14
cis-1,2-Dichloroethene	ND	0.50	1	06/09/2018 03:14
trans-1,2-Dichloroethene	ND	0.50	1	06/09/2018 03:14
1,2-Dichloropropane	ND	0.50	1	06/09/2018 03:14
1,3-Dichloropropane	ND	0.50	1	06/09/2018 03:14
2,2-Dichloropropane	ND	0.50	1	06/09/2018 03:14

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW5	**1806063-003B**	**Water**	**05/31/2018 15:06**	**GC10 06081830.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	06/09/2018 03:14
cis-1,3-Dichloropropene	ND	0.50	1	06/09/2018 03:14
trans-1,3-Dichloropropene	ND	0.50	1	06/09/2018 03:14
Diisopropyl ether (DIPE)	ND	0.50	1	06/09/2018 03:14
Ethylbenzene	ND	0.50	1	06/09/2018 03:14
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	06/09/2018 03:14
Freon 113	ND	0.50	1	06/09/2018 03:14
Hexachlorobutadiene	ND	0.50	1	06/09/2018 03:14
Hexachloroethane	ND	0.50	1	06/09/2018 03:14
2-Hexanone	ND	0.50	1	06/09/2018 03:14
Isopropylbenzene	ND	0.50	1	06/09/2018 03:14
4-Isopropyl toluene	ND	0.50	1	06/09/2018 03:14
Methyl-t-butyl ether (MTBE)	ND	0.50	1	06/09/2018 03:14
Methylene chloride	ND	0.50	1	06/09/2018 03:14
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	06/09/2018 03:14
Naphthalene	ND	0.50	1	06/09/2018 03:14
n-Propyl benzene	ND	0.50	1	06/09/2018 03:14
Styrene	ND	0.50	1	06/09/2018 03:14
1,1,1,2-Tetrachloroethane	ND	0.50	1	06/09/2018 03:14
1,1,2,2-Tetrachloroethane	ND	0.50	1	06/09/2018 03:14
Tetrachloroethene	ND	0.50	1	06/09/2018 03:14
Toluene	ND	0.50	1	06/09/2018 03:14
1,2,3-Trichlorobenzene	ND	0.50	1	06/09/2018 03:14
1,2,4-Trichlorobenzene	ND	0.50	1	06/09/2018 03:14
1,1,1-Trichloroethane	ND	0.50	1	06/09/2018 03:14
1,1,2-Trichloroethane	ND	0.50	1	06/09/2018 03:14
Trichloroethene	**3.4**	0.50	1	06/09/2018 03:14
Trichlorofluoromethane	ND	0.50	1	06/09/2018 03:14
1,2,3-Trichloropropane	ND	0.50	1	06/09/2018 03:14
1,2,4-Trimethylbenzene	ND	0.50	1	06/09/2018 03:14
1,3,5-Trimethylbenzene	ND	0.50	1	06/09/2018 03:14
Vinyl Chloride	ND	0.50	1	06/09/2018 03:14
Xylenes, Total	ND	0.50	1	06/09/2018 03:14

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW5	**1806063-003B**	**Water**	**05/31/2018 15:06**	**GC10 06081830.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	125	78-134		06/09/2018 03:14
Toluene-d8	108	82-120		06/09/2018 03:14
4-BFB	108	69-131		06/09/2018 03:14

Analyst(s): TK

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW6	1806063-004B	Water	05/31/2018 09:53	GC10 06081831.D	159686

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	06/09/2018 03:54
tert-Amyl methyl ether (TAME)	ND	0.50	1	06/09/2018 03:54
Benzene	ND	0.50	1	06/09/2018 03:54
Bromobenzene	ND	0.50	1	06/09/2018 03:54
Bromochloromethane	ND	0.50	1	06/09/2018 03:54
Bromodichloromethane	ND	0.50	1	06/09/2018 03:54
Bromoform	ND	0.50	1	06/09/2018 03:54
Bromomethane	ND	0.50	1	06/09/2018 03:54
2-Butanone (MEK)	ND	2.0	1	06/09/2018 03:54
t-Butyl alcohol (TBA)	ND	2.0	1	06/09/2018 03:54
n-Butyl benzene	ND	0.50	1	06/09/2018 03:54
sec-Butyl benzene	ND	0.50	1	06/09/2018 03:54
tert-Butyl benzene	ND	0.50	1	06/09/2018 03:54
Carbon Disulfide	ND	0.50	1	06/09/2018 03:54
Carbon Tetrachloride	ND	0.50	1	06/09/2018 03:54
Chlorobenzene	ND	0.50	1	06/09/2018 03:54
Chloroethane	ND	0.50	1	06/09/2018 03:54
Chloroform	ND	0.50	1	06/09/2018 03:54
Chloromethane	ND	0.50	1	06/09/2018 03:54
2-Chlorotoluene	ND	0.50	1	06/09/2018 03:54
4-Chlorotoluene	ND	0.50	1	06/09/2018 03:54
Dibromochloromethane	ND	0.50	1	06/09/2018 03:54
1,2-Dibromo-3-chloropropane	ND	0.20	1	06/09/2018 03:54
1,2-Dibromoethane (EDB)	ND	0.50	1	06/09/2018 03:54
Dibromomethane	ND	0.50	1	06/09/2018 03:54
1,2-Dichlorobenzene	ND	0.50	1	06/09/2018 03:54
1,3-Dichlorobenzene	ND	0.50	1	06/09/2018 03:54
1,4-Dichlorobenzene	ND	0.50	1	06/09/2018 03:54
Dichlorodifluoromethane	ND	0.50	1	06/09/2018 03:54
1,1-Dichloroethane	ND	0.50	1	06/09/2018 03:54
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	06/09/2018 03:54
1,1-Dichloroethene	ND	0.50	1	06/09/2018 03:54
cis-1,2-Dichloroethene	ND	0.50	1	06/09/2018 03:54
trans-1,2-Dichloroethene	ND	0.50	1	06/09/2018 03:54
1,2-Dichloropropane	ND	0.50	1	06/09/2018 03:54
1,3-Dichloropropane	ND	0.50	1	06/09/2018 03:54
2,2-Dichloropropane	ND	0.50	1	06/09/2018 03:54

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW6	1806063-004B	Water	05/31/2018 09:53	GC10 06081831.D	159686

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	06/09/2018 03:54
cis-1,3-Dichloropropene	ND	0.50	1	06/09/2018 03:54
trans-1,3-Dichloropropene	ND	0.50	1	06/09/2018 03:54
Diisopropyl ether (DIPE)	ND	0.50	1	06/09/2018 03:54
Ethylbenzene	ND	0.50	1	06/09/2018 03:54
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	06/09/2018 03:54
Freon 113	ND	0.50	1	06/09/2018 03:54
Hexachlorobutadiene	ND	0.50	1	06/09/2018 03:54
Hexachloroethane	ND	0.50	1	06/09/2018 03:54
2-Hexanone	ND	0.50	1	06/09/2018 03:54
Isopropylbenzene	ND	0.50	1	06/09/2018 03:54
4-Isopropyl toluene	ND	0.50	1	06/09/2018 03:54
Methyl-t-butyl ether (MTBE)	ND	0.50	1	06/09/2018 03:54
Methylene chloride	ND	0.50	1	06/09/2018 03:54
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	06/09/2018 03:54
Naphthalene	ND	0.50	1	06/09/2018 03:54
n-Propyl benzene	ND	0.50	1	06/09/2018 03:54
Styrene	ND	0.50	1	06/09/2018 03:54
1,1,1,2-Tetrachloroethane	ND	0.50	1	06/09/2018 03:54
1,1,2,2-Tetrachloroethane	ND	0.50	1	06/09/2018 03:54
Tetrachloroethene	ND	0.50	1	06/09/2018 03:54
Toluene	ND	0.50	1	06/09/2018 03:54
1,2,3-Trichlorobenzene	ND	0.50	1	06/09/2018 03:54
1,2,4-Trichlorobenzene	ND	0.50	1	06/09/2018 03:54
1,1,1-Trichloroethane	ND	0.50	1	06/09/2018 03:54
1,1,2-Trichloroethane	ND	0.50	1	06/09/2018 03:54
Trichloroethene	ND	0.50	1	06/09/2018 03:54
Trichlorofluoromethane	ND	0.50	1	06/09/2018 03:54
1,2,3-Trichloropropane	ND	0.50	1	06/09/2018 03:54
1,2,4-Trimethylbenzene	ND	0.50	1	06/09/2018 03:54
1,3,5-Trimethylbenzene	ND	0.50	1	06/09/2018 03:54
Vinyl Chloride	ND	0.50	1	06/09/2018 03:54
Xylenes, Total	ND	0.50	1	06/09/2018 03:54

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW6	**1806063-004B**	**Water**	**05/31/2018 09:53**	**GC10 06081831.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	126	78-134		06/09/2018 03:54
Toluene-d8	106	82-120		06/09/2018 03:54
4-BFB	118	69-131		06/09/2018 03:54

Analyst(s): TK

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW7	**1806063-005B**	**Water**	**05/31/2018 10:57**	**GC10 06081832.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	06/09/2018 04:34
tert-Amyl methyl ether (TAME)	ND	0.50	1	06/09/2018 04:34
Benzene	ND	0.50	1	06/09/2018 04:34
Bromobenzene	ND	0.50	1	06/09/2018 04:34
Bromochloromethane	ND	0.50	1	06/09/2018 04:34
Bromodichloromethane	ND	0.50	1	06/09/2018 04:34
Bromoform	ND	0.50	1	06/09/2018 04:34
Bromomethane	ND	0.50	1	06/09/2018 04:34
2-Butanone (MEK)	ND	2.0	1	06/09/2018 04:34
t-Butyl alcohol (TBA)	ND	2.0	1	06/09/2018 04:34
n-Butyl benzene	ND	0.50	1	06/09/2018 04:34
sec-Butyl benzene	ND	0.50	1	06/09/2018 04:34
tert-Butyl benzene	ND	0.50	1	06/09/2018 04:34
Carbon Disulfide	ND	0.50	1	06/09/2018 04:34
Carbon Tetrachloride	ND	0.50	1	06/09/2018 04:34
Chlorobenzene	ND	0.50	1	06/09/2018 04:34
Chloroethane	ND	0.50	1	06/09/2018 04:34
Chloroform	ND	0.50	1	06/09/2018 04:34
Chloromethane	ND	0.50	1	06/09/2018 04:34
2-Chlorotoluene	ND	0.50	1	06/09/2018 04:34
4-Chlorotoluene	ND	0.50	1	06/09/2018 04:34
Dibromochloromethane	ND	0.50	1	06/09/2018 04:34
1,2-Dibromo-3-chloropropane	ND	0.20	1	06/09/2018 04:34
1,2-Dibromoethane (EDB)	ND	0.50	1	06/09/2018 04:34
Dibromomethane	ND	0.50	1	06/09/2018 04:34
1,2-Dichlorobenzene	ND	0.50	1	06/09/2018 04:34
1,3-Dichlorobenzene	ND	0.50	1	06/09/2018 04:34
1,4-Dichlorobenzene	ND	0.50	1	06/09/2018 04:34
Dichlorodifluoromethane	ND	0.50	1	06/09/2018 04:34
1,1-Dichloroethane	ND	0.50	1	06/09/2018 04:34
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	06/09/2018 04:34
1,1-Dichloroethene	ND	0.50	1	06/09/2018 04:34
cis-1,2-Dichloroethene	ND	0.50	1	06/09/2018 04:34
trans-1,2-Dichloroethene	ND	0.50	1	06/09/2018 04:34
1,2-Dichloropropane	ND	0.50	1	06/09/2018 04:34
1,3-Dichloropropane	ND	0.50	1	06/09/2018 04:34
2,2-Dichloropropane	ND	0.50	1	06/09/2018 04:34

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW7	1806063-005B	Water	05/31/2018 10:57	GC10 06081832.D	159686

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	06/09/2018 04:34
cis-1,3-Dichloropropene	ND	0.50	1	06/09/2018 04:34
trans-1,3-Dichloropropene	ND	0.50	1	06/09/2018 04:34
Diisopropyl ether (DIPE)	ND	0.50	1	06/09/2018 04:34
Ethylbenzene	ND	0.50	1	06/09/2018 04:34
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	06/09/2018 04:34
Freon 113	ND	0.50	1	06/09/2018 04:34
Hexachlorobutadiene	ND	0.50	1	06/09/2018 04:34
Hexachloroethane	ND	0.50	1	06/09/2018 04:34
2-Hexanone	ND	0.50	1	06/09/2018 04:34
Isopropylbenzene	ND	0.50	1	06/09/2018 04:34
4-Isopropyl toluene	ND	0.50	1	06/09/2018 04:34
Methyl-t-butyl ether (MTBE)	**3.9**	0.50	1	06/09/2018 04:34
Methylene chloride	ND	0.50	1	06/09/2018 04:34
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	06/09/2018 04:34
Naphthalene	ND	0.50	1	06/09/2018 04:34
n-Propyl benzene	ND	0.50	1	06/09/2018 04:34
Styrene	ND	0.50	1	06/09/2018 04:34
1,1,1,2-Tetrachloroethane	ND	0.50	1	06/09/2018 04:34
1,1,2,2-Tetrachloroethane	ND	0.50	1	06/09/2018 04:34
Tetrachloroethene	ND	0.50	1	06/09/2018 04:34
Toluene	ND	0.50	1	06/09/2018 04:34
1,2,3-Trichlorobenzene	ND	0.50	1	06/09/2018 04:34
1,2,4-Trichlorobenzene	ND	0.50	1	06/09/2018 04:34
1,1,1-Trichloroethane	ND	0.50	1	06/09/2018 04:34
1,1,2-Trichloroethane	ND	0.50	1	06/09/2018 04:34
Trichloroethene	ND	0.50	1	06/09/2018 04:34
Trichlorofluoromethane	ND	0.50	1	06/09/2018 04:34
1,2,3-Trichloropropane	ND	0.50	1	06/09/2018 04:34
1,2,4-Trimethylbenzene	ND	0.50	1	06/09/2018 04:34
1,3,5-Trimethylbenzene	ND	0.50	1	06/09/2018 04:34
Vinyl Chloride	ND	0.50	1	06/09/2018 04:34
Xylenes, Total	ND	0.50	1	06/09/2018 04:34

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW7	**1806063-005B**	**Water**	**05/31/2018 10:57**	**GC10 06081832.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	128	78-134		06/09/2018 04:34
Toluene-d8	105	82-120		06/09/2018 04:34
4-BFB	109	69-131		06/09/2018 04:34

Analyst(s): TK

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW8	1806063-006B	Water	05/31/2018 11:17	GC10 06081833.D	159686

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	06/09/2018 05:13
tert-Amyl methyl ether (TAME)	ND	0.50	1	06/09/2018 05:13
Benzene	ND	0.50	1	06/09/2018 05:13
Bromobenzene	ND	0.50	1	06/09/2018 05:13
Bromochloromethane	ND	0.50	1	06/09/2018 05:13
Bromodichloromethane	ND	0.50	1	06/09/2018 05:13
Bromoform	ND	0.50	1	06/09/2018 05:13
Bromomethane	ND	0.50	1	06/09/2018 05:13
2-Butanone (MEK)	ND	2.0	1	06/09/2018 05:13
t-Butyl alcohol (TBA)	ND	2.0	1	06/09/2018 05:13
n-Butyl benzene	ND	0.50	1	06/09/2018 05:13
sec-Butyl benzene	ND	0.50	1	06/09/2018 05:13
tert-Butyl benzene	ND	0.50	1	06/09/2018 05:13
Carbon Disulfide	ND	0.50	1	06/09/2018 05:13
Carbon Tetrachloride	ND	0.50	1	06/09/2018 05:13
Chlorobenzene	ND	0.50	1	06/09/2018 05:13
Chloroethane	ND	0.50	1	06/09/2018 05:13
Chloroform	ND	0.50	1	06/09/2018 05:13
Chloromethane	ND	0.50	1	06/09/2018 05:13
2-Chlorotoluene	ND	0.50	1	06/09/2018 05:13
4-Chlorotoluene	ND	0.50	1	06/09/2018 05:13
Dibromochloromethane	ND	0.50	1	06/09/2018 05:13
1,2-Dibromo-3-chloropropane	ND	0.20	1	06/09/2018 05:13
1,2-Dibromoethane (EDB)	ND	0.50	1	06/09/2018 05:13
Dibromomethane	ND	0.50	1	06/09/2018 05:13
1,2-Dichlorobenzene	ND	0.50	1	06/09/2018 05:13
1,3-Dichlorobenzene	ND	0.50	1	06/09/2018 05:13
1,4-Dichlorobenzene	ND	0.50	1	06/09/2018 05:13
Dichlorodifluoromethane	ND	0.50	1	06/09/2018 05:13
1,1-Dichloroethane	ND	0.50	1	06/09/2018 05:13
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	06/09/2018 05:13
1,1-Dichloroethene	ND	0.50	1	06/09/2018 05:13
cis-1,2-Dichloroethene	ND	0.50	1	06/09/2018 05:13
trans-1,2-Dichloroethene	ND	0.50	1	06/09/2018 05:13
1,2-Dichloropropane	ND	0.50	1	06/09/2018 05:13
1,3-Dichloropropane	ND	0.50	1	06/09/2018 05:13
2,2-Dichloropropane	ND	0.50	1	06/09/2018 05:13

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW8	1806063-006B	Water	05/31/2018 11:17	GC10 06081833.D	159686

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	06/09/2018 05:13
cis-1,3-Dichloropropene	ND	0.50	1	06/09/2018 05:13
trans-1,3-Dichloropropene	ND	0.50	1	06/09/2018 05:13
Diisopropyl ether (DIPE)	ND	0.50	1	06/09/2018 05:13
Ethylbenzene	ND	0.50	1	06/09/2018 05:13
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	06/09/2018 05:13
Freon 113	ND	0.50	1	06/09/2018 05:13
Hexachlorobutadiene	ND	0.50	1	06/09/2018 05:13
Hexachloroethane	ND	0.50	1	06/09/2018 05:13
2-Hexanone	ND	0.50	1	06/09/2018 05:13
Isopropylbenzene	ND	0.50	1	06/09/2018 05:13
4-Isopropyl toluene	ND	0.50	1	06/09/2018 05:13
Methyl-t-butyl ether (MTBE)	ND	0.50	1	06/09/2018 05:13
Methylene chloride	ND	0.50	1	06/09/2018 05:13
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	06/09/2018 05:13
Naphthalene	ND	0.50	1	06/09/2018 05:13
n-Propyl benzene	ND	0.50	1	06/09/2018 05:13
Styrene	ND	0.50	1	06/09/2018 05:13
1,1,1,2-Tetrachloroethane	ND	0.50	1	06/09/2018 05:13
1,1,2,2-Tetrachloroethane	ND	0.50	1	06/09/2018 05:13
Tetrachloroethene	ND	0.50	1	06/09/2018 05:13
Toluene	ND	0.50	1	06/09/2018 05:13
1,2,3-Trichlorobenzene	ND	0.50	1	06/09/2018 05:13
1,2,4-Trichlorobenzene	ND	0.50	1	06/09/2018 05:13
1,1,1-Trichloroethane	ND	0.50	1	06/09/2018 05:13
1,1,2-Trichloroethane	ND	0.50	1	06/09/2018 05:13
Trichloroethene	ND	0.50	1	06/09/2018 05:13
Trichlorofluoromethane	ND	0.50	1	06/09/2018 05:13
1,2,3-Trichloropropane	ND	0.50	1	06/09/2018 05:13
1,2,4-Trimethylbenzene	ND	0.50	1	06/09/2018 05:13
1,3,5-Trimethylbenzene	ND	0.50	1	06/09/2018 05:13
Vinyl Chloride	ND	0.50	1	06/09/2018 05:13
Xylenes, Total	ND	0.50	1	06/09/2018 05:13

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW8	**1806063-006B**	**Water**	**05/31/2018 11:17**	**GC10 06081833.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	123	78-134		06/09/2018 05:13
Toluene-d8	105	82-120		06/09/2018 05:13
4-BFB	119	69-131		06/09/2018 05:13

Analyst(s): TK

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW9	1806063-007B	Water	05/31/2018 11:42	GC10 06081834.D	159686

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	06/09/2018 05:53
tert-Amyl methyl ether (TAME)	ND	0.50	1	06/09/2018 05:53
Benzene	ND	0.50	1	06/09/2018 05:53
Bromobenzene	ND	0.50	1	06/09/2018 05:53
Bromochloromethane	ND	0.50	1	06/09/2018 05:53
Bromodichloromethane	ND	0.50	1	06/09/2018 05:53
Bromoform	ND	0.50	1	06/09/2018 05:53
Bromomethane	ND	0.50	1	06/09/2018 05:53
2-Butanone (MEK)	ND	2.0	1	06/09/2018 05:53
t-Butyl alcohol (TBA)	ND	2.0	1	06/09/2018 05:53
n-Butyl benzene	ND	0.50	1	06/09/2018 05:53
sec-Butyl benzene	ND	0.50	1	06/09/2018 05:53
tert-Butyl benzene	ND	0.50	1	06/09/2018 05:53
Carbon Disulfide	ND	0.50	1	06/09/2018 05:53
Carbon Tetrachloride	ND	0.50	1	06/09/2018 05:53
Chlorobenzene	ND	0.50	1	06/09/2018 05:53
Chloroethane	ND	0.50	1	06/09/2018 05:53
Chloroform	ND	0.50	1	06/09/2018 05:53
Chloromethane	ND	0.50	1	06/09/2018 05:53
2-Chlorotoluene	ND	0.50	1	06/09/2018 05:53
4-Chlorotoluene	ND	0.50	1	06/09/2018 05:53
Dibromochloromethane	ND	0.50	1	06/09/2018 05:53
1,2-Dibromo-3-chloropropane	ND	0.20	1	06/09/2018 05:53
1,2-Dibromoethane (EDB)	ND	0.50	1	06/09/2018 05:53
Dibromomethane	ND	0.50	1	06/09/2018 05:53
1,2-Dichlorobenzene	ND	0.50	1	06/09/2018 05:53
1,3-Dichlorobenzene	ND	0.50	1	06/09/2018 05:53
1,4-Dichlorobenzene	ND	0.50	1	06/09/2018 05:53
Dichlorodifluoromethane	ND	0.50	1	06/09/2018 05:53
1,1-Dichloroethane	ND	0.50	1	06/09/2018 05:53
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	06/09/2018 05:53
1,1-Dichloroethene	ND	0.50	1	06/09/2018 05:53
cis-1,2-Dichloroethene	ND	0.50	1	06/09/2018 05:53
trans-1,2-Dichloroethene	ND	0.50	1	06/09/2018 05:53
1,2-Dichloropropane	ND	0.50	1	06/09/2018 05:53
1,3-Dichloropropane	ND	0.50	1	06/09/2018 05:53
2,2-Dichloropropane	ND	0.50	1	06/09/2018 05:53

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW9	1806063-007B	Water	05/31/2018 11:42	GC10 06081834.D	159686

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	06/09/2018 05:53
cis-1,3-Dichloropropene	ND	0.50	1	06/09/2018 05:53
trans-1,3-Dichloropropene	ND	0.50	1	06/09/2018 05:53
Diisopropyl ether (DIPE)	ND	0.50	1	06/09/2018 05:53
Ethylbenzene	ND	0.50	1	06/09/2018 05:53
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	06/09/2018 05:53
Freon 113	ND	0.50	1	06/09/2018 05:53
Hexachlorobutadiene	ND	0.50	1	06/09/2018 05:53
Hexachloroethane	ND	0.50	1	06/09/2018 05:53
2-Hexanone	ND	0.50	1	06/09/2018 05:53
Isopropylbenzene	ND	0.50	1	06/09/2018 05:53
4-Isopropyl toluene	ND	0.50	1	06/09/2018 05:53
Methyl-t-butyl ether (MTBE)	ND	0.50	1	06/09/2018 05:53
Methylene chloride	ND	0.50	1	06/09/2018 05:53
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	06/09/2018 05:53
Naphthalene	ND	0.50	1	06/09/2018 05:53
n-Propyl benzene	ND	0.50	1	06/09/2018 05:53
Styrene	ND	0.50	1	06/09/2018 05:53
1,1,1,2-Tetrachloroethane	ND	0.50	1	06/09/2018 05:53
1,1,2,2-Tetrachloroethane	ND	0.50	1	06/09/2018 05:53
Tetrachloroethene	ND	0.50	1	06/09/2018 05:53
Toluene	ND	0.50	1	06/09/2018 05:53
1,2,3-Trichlorobenzene	ND	0.50	1	06/09/2018 05:53
1,2,4-Trichlorobenzene	ND	0.50	1	06/09/2018 05:53
1,1,1-Trichloroethane	ND	0.50	1	06/09/2018 05:53
1,1,2-Trichloroethane	ND	0.50	1	06/09/2018 05:53
Trichloroethene	ND	0.50	1	06/09/2018 05:53
Trichlorofluoromethane	ND	0.50	1	06/09/2018 05:53
1,2,3-Trichloropropane	ND	0.50	1	06/09/2018 05:53
1,2,4-Trimethylbenzene	ND	0.50	1	06/09/2018 05:53
1,3,5-Trimethylbenzene	ND	0.50	1	06/09/2018 05:53
Vinyl Chloride	ND	0.50	1	06/09/2018 05:53
Xylenes, Total	ND	0.50	1	06/09/2018 05:53

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/8/18-6/9/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW9	**1806063-007B**	**Water**	**05/31/2018 11:42**	**GC10 06081834.D**	**159686**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	125	78-134		06/09/2018 05:53
Toluene-d8	108	82-120		06/09/2018 05:53
4-BFB	111	69-131		06/09/2018 05:53

Analyst(s): TK

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	E200.8
Date Prepared:	6/1/18	**Analytical Method:**	E200.8
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Dissolved CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW3	**1806063-001C**	**Water**	**05/31/2018 14:34**	**ICP-MS2 096SMPL.D**	**159228**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Antimony	ND	F	0.50	1	06/06/2018 17:47
Arsenic	ND	F	0.50	1	06/06/2018 17:47
Barium	**54**	F	5.0	1	06/06/2018 17:47
Beryllium	ND	F	0.50	1	06/06/2018 17:47
Cadmium	ND	F	0.25	1	06/06/2018 17:47
Chromium	**2.0**	F	0.50	1	06/06/2018 17:47
Cobalt	**1.3**	F	0.50	1	06/06/2018 17:47
Copper	ND	F	2.0	1	06/06/2018 17:47
Lead	ND	F	0.50	1	06/06/2018 17:47
Mercury	ND	F	0.050	1	06/06/2018 17:47
Molybdenum	ND	F	0.50	1	06/06/2018 17:47
Nickel	**3.4**	F	0.50	1	06/06/2018 17:47
Selenium	ND	F	0.50	1	06/06/2018 17:47
Silver	ND	F	0.19	1	06/06/2018 17:47
Thallium	ND	F	0.50	1	06/06/2018 17:47
Vanadium	ND	F	0.50	1	06/06/2018 17:47
Zinc	ND	F	15	1	06/06/2018 17:47

Analyst(s): ND

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	E200.8
Date Prepared:	6/1/18	**Analytical Method:**	E200.8
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Dissolved CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW4	1806063-002C	Water	05/31/2018 14:51	ICP-MS2 100SMPL.D	159228

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Antimony	ND	F	0.50	1	06/06/2018 18:12
Arsenic	ND	F	0.50	1	06/06/2018 18:12
Barium	**140**	F	5.0	1	06/06/2018 18:12
Beryllium	ND	F	0.50	1	06/06/2018 18:12
Cadmium	ND	F	0.25	1	06/06/2018 18:12
Chromium	**3.3**	F	0.50	1	06/06/2018 18:12
Cobalt	**6.8**	F	0.50	1	06/06/2018 18:12
Copper	ND	F	2.0	1	06/06/2018 18:12
Lead	ND	F	0.50	1	06/06/2018 18:12
Mercury	ND	F	0.050	1	06/06/2018 18:12
Molybdenum	ND	F	0.50	1	06/06/2018 18:12
Nickel	**15**	F	0.50	1	06/06/2018 18:12
Selenium	ND	F	0.50	1	06/06/2018 18:12
Silver	ND	F	0.19	1	06/06/2018 18:12
Thallium	ND	F	0.50	1	06/06/2018 18:12
Vanadium	ND	F	0.50	1	06/06/2018 18:12
Zinc	**28**	F	15	1	06/06/2018 18:12

Analyst(s): ND

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/5/18-6/8/18	**Analytical Method:**	SW8021B/8015Bm
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW3	**1806063-001A**	**Water**	**05/31/2018 14:34**	**GC3 06071829.D**	**159511**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	06/08/2018 03:07
MTBE	---	5.0	1	06/08/2018 03:07
Benzene	---	0.50	1	06/08/2018 03:07
Toluene	---	0.50	1	06/08/2018 03:07
Ethylbenzene	---	0.50	1	06/08/2018 03:07
Xylenes	---	0.50	1	06/08/2018 03:07

Surrogates	REC (%)	Limits	
aaa-TFT	94	90-117	06/08/2018 03:07

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW4	**1806063-002A**	**Water**	**05/31/2018 14:51**	**GC3 06071831.D**	**159511**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	06/08/2018 04:09
MTBE	---	5.0	1	06/08/2018 04:09
Benzene	---	0.50	1	06/08/2018 04:09
Toluene	---	0.50	1	06/08/2018 04:09
Ethylbenzene	---	0.50	1	06/08/2018 04:09
Xylenes	---	0.50	1	06/08/2018 04:09

Surrogates	REC (%)	Limits	
aaa-TFT	95	90-117	06/08/2018 04:09

Analyst(s): IA

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/5/18-6/8/18	**Analytical Method:**	SW8021B/8015Bm
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW5	**1806063-003A**	**Water**	**05/31/2018 15:06**	**GC3 06071832.D**	**159511**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	06/08/2018 04:39
MTBE	---	5.0	1	06/08/2018 04:39
Benzene	---	0.50	1	06/08/2018 04:39
Toluene	---	0.50	1	06/08/2018 04:39
Ethylbenzene	---	0.50	1	06/08/2018 04:39
Xylenes	---	0.50	1	06/08/2018 04:39

Surrogates	REC (%)	Limits	
aaa-TFT	115	90-117	06/08/2018 04:39

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW6	**1806063-004A**	**Water**	**05/31/2018 09:53**	**GC3 06041824.D**	**159341**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	06/05/2018 01:24
MTBE	---	5.0	1	06/05/2018 01:24
Benzene	---	0.50	1	06/05/2018 01:24
Toluene	---	0.50	1	06/05/2018 01:24
Ethylbenzene	---	0.50	1	06/05/2018 01:24
Xylenes	---	0.50	1	06/05/2018 01:24

Surrogates	REC (%)	Limits	
aaa-TFT	96	90-117	06/05/2018 01:24

Analyst(s): IA

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/5/18-6/8/18	**Analytical Method:**	SW8021B/8015Bm
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW7	**1806063-005A**	**Water**	**05/31/2018 10:57**	**GC12 06071827.D**	**159512**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	06/08/2018 01:17
MTBE	---	5.0	1	06/08/2018 01:17
Benzene	---	0.50	1	06/08/2018 01:17
Toluene	---	0.50	1	06/08/2018 01:17
Ethylbenzene	---	0.50	1	06/08/2018 01:17
Xylenes	---	0.50	1	06/08/2018 01:17

Surrogates	REC (%)	Limits	
aaa-TFT	104	90-117	06/08/2018 01:17

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW8	**1806063-006A**	**Water**	**05/31/2018 11:17**	**GC12 06071828.D**	**159512**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	06/08/2018 01:50
MTBE	---	5.0	1	06/08/2018 01:50
Benzene	---	0.50	1	06/08/2018 01:50
Toluene	---	0.50	1	06/08/2018 01:50
Ethylbenzene	---	0.50	1	06/08/2018 01:50
Xylenes	---	0.50	1	06/08/2018 01:50

Surrogates	REC (%)	Limits	
aaa-TFT	105	90-117	06/08/2018 01:50

Analyst(s): IA

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW5030B
Date Prepared:	6/5/18-6/8/18	**Analytical Method:**	SW8021B/8015Bm
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW9	**1806063-007A**	**Water**	**05/31/2018 11:42**	**GC12 06071829.D**	**159512**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	06/08/2018 02:23
MTBE	---	5.0	1	06/08/2018 02:23
Benzene	---	0.50	1	06/08/2018 02:23
Toluene	---	0.50	1	06/08/2018 02:23
Ethylbenzene	---	0.50	1	06/08/2018 02:23
Xylenes	---	0.50	1	06/08/2018 02:23

Surrogates	REC (%)	Limits	Date Analyzed
aaa-TFT	104	90-117	06/08/2018 02:23

Analyst(s): IA

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW3510C
Date Prepared:	6/5/18	**Analytical Method:**	SW8015B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW3	1806063-001A	Water	05/31/2018 14:34	GC6B 06051821.D	159354

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	06/05/2018 16:19
TPH-Motor Oil (C18-C36)	ND	250	1	06/05/2018 16:19
TPH-Bunker Oil (C10-C36)	ND	250	1	06/05/2018 16:19

Surrogates	REC (%)	Limits	
C9	89	61-139	06/05/2018 16:19

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW4	1806063-002A	Water	05/31/2018 14:51	GC6B 06051823.D	159354

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	06/05/2018 16:58
TPH-Motor Oil (C18-C36)	ND	250	1	06/05/2018 16:58
TPH-Bunker Oil (C10-C36)	ND	250	1	06/05/2018 16:58

Surrogates	REC (%)	Limits	
C9	89	61-139	06/05/2018 16:58

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW5	1806063-003A	Water	05/31/2018 15:06	GC6B 06051825.D	159354

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	06/05/2018 17:36
TPH-Motor Oil (C18-C36)	ND	250	1	06/05/2018 17:36
TPH-Bunker Oil (C10-C36)	ND	250	1	06/05/2018 17:36

Surrogates	REC (%)	Limits	
C9	89	61-139	06/05/2018 17:36

Analyst(s): JIS

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW3510C
Date Prepared:	6/5/18	**Analytical Method:**	SW8015B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW6	**1806063-004A**	**Water**	**05/31/2018 09:53**	**GC6B 06051827.D**	**159354**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	06/05/2018 18:15
TPH-Motor Oil (C18-C36)	ND	250	1	06/05/2018 18:15
TPH-Bunker Oil (C10-C36)	ND	250	1	06/05/2018 18:15

Surrogates	REC (%)	Limits	
C9	89	61-139	06/05/2018 18:15

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW7	**1806063-005A**	**Water**	**05/31/2018 10:57**	**GC6B 06051829.D**	**159354**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	06/05/2018 18:54
TPH-Motor Oil (C18-C36)	ND	250	1	06/05/2018 18:54
TPH-Bunker Oil (C10-C36)	ND	250	1	06/05/2018 18:54

Surrogates	REC (%)	Limits	
C9	88	61-139	06/05/2018 18:54

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW8	**1806063-006A**	**Water**	**05/31/2018 11:17**	**GC6B 06051831.D**	**159354**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	06/05/2018 19:33
TPH-Motor Oil (C18-C36)	ND	250	1	06/05/2018 19:33
TPH-Bunker Oil (C10-C36)	ND	250	1	06/05/2018 19:33

Surrogates	REC (%)	Limits	
C9	88	61-139	06/05/2018 19:33

Analyst(s): JIS

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Received:	6/1/18 16:15	**Extraction Method:**	SW3510C
Date Prepared:	6/5/18	**Analytical Method:**	SW8015B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW9	**1806063-007A**	**Water**	**05/31/2018 11:42**	**GC6B 06051833.D**	**159354**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	06/05/2018 20:12
TPH-Motor Oil (C18-C36)	ND	250	1	06/05/2018 20:12
TPH-Bunker Oil (C10-C36)	ND	250	1	06/05/2018 20:12

Surrogates	REC (%)	Limits	Date Analyzed
C9	89	61-139	06/05/2018 20:12

Analyst(s): JIS

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Prepared:	6/8/18	**BatchID:**	159686
Date Analyzed:	6/8/18	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS-159686 1806063-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	160	10	200	-	80	47-122
tert-Amyl methyl ether (TAME)	ND	9.40	0.50	10	-	94	62-121
Benzene	ND	9.39	0.50	10	-	94	74-121
Bromobenzene	ND	9.76	0.50	10	-	98	63-127
Bromochloromethane	ND	9.55	0.50	10	-	95	70-126
Bromodichloromethane	ND	9.98	0.50	10	-	100	66-127
Bromoform	ND	8.93	0.50	10	-	89	60-119
Bromomethane	ND	9.04	0.50	10	-	90	32-155
2-Butanone (MEK)	ND	30.7	2.0	40	-	77	51-117
t-Butyl alcohol (TBA)	ND	31.6	2.0	40	-	79	41-122
n-Butyl benzene	ND	9.65	0.50	10	-	97	73-137
sec-Butyl benzene	ND	9.99	0.50	10	-	100	71-137
tert-Butyl benzene	ND	10.1	0.50	10	-	101	61-136
Carbon Disulfide	ND	9.86	0.50	10	-	99	61-139
Carbon Tetrachloride	ND	10.1	0.50	10	-	101	69-137
Chlorobenzene	ND	9.88	0.50	10	-	99	71-122
Chloroethane	ND	8.86	0.50	10	-	89	54-132
Chloroform	ND	9.66	0.50	10	-	97	73-122
Chloromethane	ND	8.80	0.50	10	-	88	48-136
2-Chlorotoluene	ND	10.4	0.50	10	-	104	65-134
4-Chlorotoluene	ND	10.0	0.50	10	-	100	65-130
Dibromochloromethane	ND	9.71	0.50	10	-	97	65-121
1,2-Dibromo-3-chloropropane	ND	3.26	0.20	4	-	81	41-132
1,2-Dibromoethane (EDB)	ND	9.62	0.50	10	-	96	67-125
Dibromomethane	ND	9.36	0.50	10	-	94	68-121
1,2-Dichlorobenzene	ND	9.75	0.50	10	-	97	69-128
1,3-Dichlorobenzene	ND	10.2	0.50	10	-	102	71-131
1,4-Dichlorobenzene	ND	9.77	0.50	10	-	98	70-128
Dichlorodifluoromethane	ND	8.85	0.50	10	-	88	21-158
1,1-Dichloroethane	ND	9.38	0.50	10	-	94	73-123
1,2-Dichloroethane (1,2-DCA)	ND	9.13	0.50	10	-	91	61-127
1,1-Dichloroethene	ND	9.68	0.50	10	-	97	68-130
cis-1,2-Dichloroethene	ND	9.76	0.50	10	-	98	72-123
trans-1,2-Dichloroethene	ND	9.78	0.50	10	-	98	64-138
1,2-Dichloropropane	ND	9.27	0.50	10	-	93	71-121
1,3-Dichloropropane	ND	9.23	0.50	10	-	92	69-120
2,2-Dichloropropane	ND	9.91	0.50	10	-	99	64-142

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Prepared:	6/8/18	**BatchID:**	159686
Date Analyzed:	6/8/18	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS-159686 1806063-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	9.64	0.50	10	-	96	70-130
cis-1,3-Dichloropropene	ND	10.1	0.50	10	-	101	58-136
trans-1,3-Dichloropropene	ND	9.84	0.50	10	-	98	66-119
Diisopropyl ether (DIPE)	ND	8.99	0.50	10	-	90	66-123
Ethylbenzene	ND	9.79	0.50	10	-	98	71-125
Ethyl tert-butyl ether (ETBE)	ND	9.11	0.50	10	-	91	67-122
Freon 113	ND	9.20	0.50	10	-	92	68-132
Hexachlorobutadiene	ND	10.0	0.50	10	-	100	56-155
Hexachloroethane	ND	8.88	0.50	10	-	89	61-129
2-Hexanone	ND	8.31	0.50	10	-	83	51-115
Isopropylbenzene	ND	10.0	0.50	10	-	101	66-134
4-Isopropyl toluene	ND	9.99	0.50	10	-	100	70-136
Methyl-t-butyl ether (MTBE)	ND	8.87	0.50	10	-	89	64-118
Methylene chloride	ND	10.6	0.50	10	-	107	62-121
4-Methyl-2-pentanone (MIBK)	ND	8.16	0.50	10	-	82	51-115
Naphthalene	ND	9.13	0.50	10	-	91	55-137
n-Propyl benzene	ND	10.4	0.50	10	-	104	63-140
Styrene	ND	10.0	0.50	10	-	100	62-133
1,1,1,2-Tetrachloroethane	ND	10.4	0.50	10	-	104	69-128
1,1,2,2-Tetrachloroethane	ND	8.95	0.50	10	-	89	60-118
Tetrachloroethene	ND	10.1	0.50	10	-	101	63-136
Toluene	ND	9.73	0.50	10	-	97	67-124
1,2,3-Trichlorobenzene	ND	9.39	0.50	10	-	94	57-145
1,2,4-Trichlorobenzene	ND	9.68	0.50	10	-	97	60-144
1,1,1-Trichloroethane	ND	9.83	0.50	10	-	98	70-133
1,1,2-Trichloroethane	ND	9.50	0.50	10	-	95	65-125
Trichloroethene	ND	10.1	0.50	10	-	101	67-133
Trichlorofluoromethane	ND	9.51	0.50	10	-	95	59-145
1,2,3-Trichloropropane	ND	8.58	0.50	10	-	86	65-115
1,2,4-Trimethylbenzene	ND	9.84	0.50	10	-	98	67-136
1,3,5-Trimethylbenzene	ND	9.94	0.50	10	-	99	68-135
Vinyl Chloride	ND	8.79	0.50	10	-	88	53-146
Xylenes, Total	ND	29.1	0.50	30	-	97	68-128

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Prepared:	6/8/18	**BatchID:**	159686
Date Analyzed:	6/8/18	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS-159686 1806063-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	30.2	29.7		25	121	119	91-133
Toluene-d8	27.9	28.2		25	111	113	87-127
4-BFB	2.74	2.84		2.5	109	114	66-140

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Prepared:	6/8/18	**BatchID:**	159686
Date Analyzed:	6/8/18	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS-159686 1806063-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acetone	178	181	200	ND	88	89	56-141	1.52	20
tert-Amyl methyl ether (TAME)	9.88	10.8	10	ND	99	108	78-120	9.34	20
Benzene	8.99	9.60	10	ND	90	96	81-118	6.58	20
Bromobenzene	9.35	10.0	10	ND	93	100	71-119	7.01	20
Bromochloromethane	9.50	9.91	10	ND	95	99	80-124	4.25	20
Bromodichloromethane	10.2	10.8	10	ND	102	109	78-124	6.12	20
Bromoform	10.2	10.5	10	ND	102	105	65-127	3.09	20
Bromomethane	3.58	3.70	10	ND	36	37	22-175	3.51	20
2-Butanone (MEK)	34.0	34.3	40	ND	85	86	50-152	0.802	20
t-Butyl alcohol (TBA)	38.1	37.4	40	ND	95	93	49-141	1.87	20
n-Butyl benzene	8.40	8.98	10	ND	84	90	77-127	6.64	20
sec-Butyl benzene	8.89	9.60	10	ND	89	96	74-123	7.67	20
tert-Butyl benzene	8.32	9.14	10	ND	83	91	68-122	9.47	20
Carbon Disulfide	9.21	9.73	10	ND	92	97	74-123	5.50	20
Carbon Tetrachloride	9.37	10.1	10	ND	94	101	78-124	7.34	20
Chlorobenzene	9.51	10.2	10	ND	95	102	79-116	6.75	20
Chloroethane	7.01	7.54	10	ND	70	75	56-134	7.23	20
Chloroform	9.49	10.0	10	ND	95	100	82-119	5.70	20
Chloromethane	10.7	11.5	10	ND	105	114	39-147	7.72	20
2-Chlorotoluene	9.56	10.5	10	ND	96	105	69-124	9.24	20
4-Chlorotoluene	9.26	10.1	10	ND	93	101	71-121	8.94	20
Dibromochloromethane	10.4	10.9	10	ND	104	109	76-119	3.96	20
1,2-Dibromo-3-chloropropane	3.84	3.83	4	ND	96	96	48-138	0	20
1,2-Dibromoethane (EDB)	9.93	10.3	10	ND	99	103	81-122	3.97	20
Dibromomethane	9.87	10.2	10	ND	99	102	83-121	3.25	20
1,2-Dichlorobenzene	9.31	9.80	10	ND	93	98	77-122	5.12	20
1,3-Dichlorobenzene	9.55	10.4	10	ND	95	104	76-125	8.72	20
1,4-Dichlorobenzene	9.23	9.85	10	ND	92	98	78-120	6.46	20
Dichlorodifluoromethane	8.01	8.64	10	ND	80	86	38-135	7.48	20
1,1-Dichloroethane	8.94	9.53	10	ND	89	95	80-120	6.35	20
1,2-Dichloroethane (1,2-DCA)	9.34	9.70	10	ND	93	97	78-122	3.85	20
1,1-Dichloroethene	9.22	9.88	10	ND	92	99	77-120	6.91	20
cis-1,2-Dichloroethene	9.68	10.1	10	ND	97	101	79-123	3.93	20
trans-1,2-Dichloroethene	9.43	10.0	10	ND	94	100	77-125	5.98	20
1,2-Dichloropropane	9.12	9.70	10	ND	91	97	80-121	6.15	20
1,3-Dichloropropane	9.45	9.79	10	ND	95	98	80-120	3.54	20
2,2-Dichloropropane	8.86	9.35	10	ND	89	94	70-132	5.38	20

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Prepared:	6/8/18	**BatchID:**	159686
Date Analyzed:	6/8/18	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS-159686 1806063-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloropropene	8.92	9.54	10	ND	89	95	78-122	6.83	20
cis-1,3-Dichloropropene	10.1	10.6	10	ND	101	107	73-121	5.20	20
trans-1,3-Dichloropropene	10.1	10.5	10	ND	101	105	77-116	3.85	20
Diisopropyl ether (DIPE)	9.16	9.72	10	ND	92	97	77-125	5.93	20
Ethylbenzene	9.16	9.82	10	ND	92	98	77-119	6.97	20
Ethyl tert-butyl ether (ETBE)	9.62	10.2	10	ND	96	102	81-122	5.74	20
Freon 113	8.63	9.25	10	ND	86	92	77-120	6.86	20
Hexachlorobutadiene	9.15	9.77	10	ND	91	98	57-141	6.58	20
Hexachloroethane	8.29	8.86	10	ND	83	89	26-168	6.62	20
2-Hexanone	9.85	9.94	10	ND	99	99	58-135	0	20
Isopropylbenzene	9.37	10.2	10	ND	94	102	74-120	8.39	20
4-Isopropyl toluene	8.84	9.50	10	ND	88	95	75-124	7.18	20
Methyl-t-butyl ether (MTBE)	9.98	10.3	10	ND	100	103	74-128	3.02	20
Methylene chloride	9.64	10.2	10	ND	96	102	55-130	5.62	20
4-Methyl-2-pentanone (MIBK)	9.48	9.69	10	ND	95	97	59-131	2.16	20
Naphthalene	7.93	7.83	10	ND	79	78	65-136	1.31	20
n-Propyl benzene	9.50	10.4	10	ND	95	104	67-128	8.55	20
Styrene	10.0	10.8	10	ND	100	108	64-133	7.63	20
1,1,1,2-Tetrachloroethane	10.5	11.2	10	ND	105	112	78-122	6.18	20
1,1,2,2-Tetrachloroethane	9.07	9.36	10	ND	91	94	72-123	3.17	20
Tetrachloroethene	9.34	10.1	10	ND	93	101	72-123	7.56	20
Toluene	9.24	9.92	10	ND	92	99	74-117	7.03	20
1,2,3-Trichlorobenzene	9.12	9.10	10	ND	91	91	61-141	0	20
1,2,4-Trichlorobenzene	9.49	9.50	10	ND	95	95	69-136	0	20
1,1,1-Trichloroethane	9.26	9.93	10	ND	92	99	78-122	6.98	20
1,1,2-Trichloroethane	9.80	10.1	10	ND	98	101	79-120	3.12	20
Trichloroethene	9.70	10.3	10	ND	96	103	76-122	6.23	20
Trichlorofluoromethane	8.88	9.52	10	ND	89	95	72-125	7.02	20
1,2,3-Trichloropropane	8.71	9.05	10	ND	87	90	72-123	3.76	20
1,2,4-Trimethylbenzene	8.78	9.40	10	ND	88	94	74-123	6.85	20
1,3,5-Trimethylbenzene	8.78	9.51	10	ND	88	95	73-123	8.02	20
Vinyl Chloride	6.25	6.79	10	ND	63	68	57-134	8.28	20
Xylenes, Total	28.1	30.8	30	ND	94	103	76-119	9.14	20

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Prepared:	6/8/18	**BatchID:**	159686
Date Analyzed:	6/8/18	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS-159686 1806063-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Surrogate Recovery									
Dibromofluoromethane	32.0	31.1	25		128	125	78-134	2.65	20
Toluene-d8	27.3	27.3	25		109	109	82-120	0	20
4-BFB	2.89	2.92	2.5		116	117	69-131	0.999	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Prepared:	6/1/18	**BatchID:**	159228
Date Analyzed:	6/5/18 - 6/6/18	**Extraction Method:**	E200.8
Instrument:	ICP-MS2, ICP-MS3	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS-159228 1806034-001CMS/MSD

QC Summary Report for Dissolved Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Antimony	ND	50.5	0.50	50	-	101	85-115
Arsenic	ND	48.1	0.50	50	-	96	85-115
Barium	ND	471	5.0	500	-	94	85-115
Beryllium	ND	47.5	0.50	50	-	95	85-115
Cadmium	ND	48.7	0.25	50	-	97	85-115
Chromium	ND	49.1	0.50	50	-	98	85-115
Cobalt	ND	49.2	0.50	50	-	98	85-115
Copper	ND	48.1	2.0	50	-	96	85-115
Lead	ND	48.6	0.50	50	-	97	85-115
Mercury	ND	1.22	0.050	1.25	-	98	85-115
Molybdenum	ND	48.8	0.50	50	-	98	85-115
Nickel	ND	49.4	0.50	50	-	99	85-115
Selenium	ND	50.9	0.50	50	-	102	85-115
Silver	ND	49.1	0.19	50	-	98	85-115
Thallium	ND	46.1	0.50	50	-	92	85-115
Vanadium	ND	48.9	0.50	50	-	98	85-115
Zinc	ND	503	15	500	-	101	85-115

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Prepared:	6/1/18	**BatchID:**	159228
Date Analyzed:	6/5/18 - 6/6/18	**Extraction Method:**	E200.8
Instrument:	ICP-MS2, ICP-MS3	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS-159228 1806034-001CMS/MSD

QC Summary Report for Dissolved Metals

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Antimony	52.2	52.4	50	ND<5.0	104	105	70-130	0.421	20
Arsenic	53.1	53.1	50	ND<5.0	101	101	70-130	0	20
Barium	627	693	500	150	96	109	70-130	9.91	20
Beryllium	48.2	48.5	50	ND<5.0	96	97	70-130	0.600	20
Cadmium	50.4	51.5	50	ND<2.5	101	103	70-130	2.26	20
Chromium	47.2	51.4	50	ND<5.0	94	103	70-130	8.50	20
Cobalt	81.4	88.6	50	35	92	107	70-130	8.43	20
Copper	48.1	52.8	50	ND<20	94	103	70-130	9.40	20
Lead	50.8	52.8	50	ND<5.0	102	106	70-130	3.82	20
Mercury	1.19	1.59	1.25	ND<0.50	95	127	70-130	28.7,F1	20
Molybdenum	50.6	56.2	50	ND<5.0	101	112	70-130	10.5	20
Nickel	104	111	50	55	98	110	70-130	5.96	20
Selenium	51.9	54.5	50	ND<5.0	104	109	70-130	4.85	20
Silver	48.8	49.6	50	ND<1.9	98	99	70-130	1.52	20
Thallium	49.2	49.7	50	ND<5.0	98	99	70-130	1.05	20
Vanadium	48.2	52.9	50	ND<5.0	96	106	70-130	9.24	20
Zinc	493	501	500	ND<150	99	100	70-130	1.61	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Prepared:	6/4/18 - 6/5/18	**BatchID:**	159341
Date Analyzed:	6/4/18 - 6/5/18	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS-159341 1806063-004AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	50	-	-	-
MTBE	ND	5.0	-	-	-
Benzene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Xylenes	ND	0.50	-	-	-
Surrogate Recovery					
aaa-TFT	9.83		10	98	89-116

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	66.8	-	60	111	-	78-116	-	-
MTBE	11.4	-	10	114	-	72-122	-	-
Benzene	11.2	-	10	112	-	81-123	-	-
Toluene	11.8	-	10	118	-	83-129	-	-
Ethylbenzene	11.8	-	10	118	-	88-126	-	-
Xylenes	35.3	-	30	118	-	87-131	-	-
Surrogate Recovery								
aaa-TFT	9.43	-	10	94	-	89-116	-	-

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	57.7	62.7	60	ND	96	104	63-133	8.22	20
MTBE	10.0	9.88	10	ND	90	89	69-122	1.33	20
Benzene	10.2	10.6	10	ND	102	105	84-125	3.54	20
Toluene	10.6	11.2	10	ND	106	112	87-131	5.56	20
Ethylbenzene	10.7	11.1	10	ND	107	111	92-126	3.46	20
Xylenes	32.6	33.0	30	ND	108	109	88-132	1.00	20
Surrogate Recovery									
aaa-TFT	9.48	9.46	10		95	95	90-117	0	20

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Prepared:	6/7/18	**BatchID:**	159511
Date Analyzed:	6/7/18	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-159511

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	50	-	-	-
MTBE	ND	5.0	-	-	-
Benzene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Xylenes	ND	0.50	-	-	-
Surrogate Recovery					
aaa-TFT	9.62		10	96	89-116

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	59.6	56.8	60	99	95	78-116	4.86	20
MTBE	9.72	8.86	10	97	89	72-122	9.30	20
Benzene	9.64	9.16	10	96	92	81-123	5.14	20
Toluene	10.2	9.58	10	102	96	83-129	6.65	20
Ethylbenzene	10.3	9.74	10	103	97	88-126	5.59	20
Xylenes	31.2	29.2	30	104	97	87-131	6.61	20
Surrogate Recovery								
aaa-TFT	9.16	9.37	10	92	94	89-116	2.25	20

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Prepared:	6/7/18	**BatchID:**	159512
Date Analyzed:	6/7/18	**Extraction Method:**	SW5030B
Instrument:	GC12	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-159512

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	50	-	-	-
MTBE	ND	5.0	-	-	-
Benzene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Xylenes	ND	0.50	-	-	-
Surrogate Recovery					
aaa-TFT	10.4		10	104	89-116

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	57.3	57.2	60	95	95	78-116	0	20
MTBE	11.0	10.5	10	110	105	72-122	4.21	20
Benzene	9.80	9.76	10	98	98	81-123	0	20
Toluene	10.1	10.0	10	101	100	83-129	0.967	20
Ethylbenzene	9.74	9.78	10	97	98	88-126	0.390	20
Xylenes	29.1	29.2	30	97	97	87-131	0	20
Surrogate Recovery								
aaa-TFT	10.2	10.3	10	102	103	89-116	0.284	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1806063
Date Prepared:	6/5/18	**BatchID:**	159354
Date Analyzed:	6/5/18 - 6/6/18	**Extraction Method:**	SW3510C
Instrument:	GC9a	**Analytical Method:**	SW8015B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-159354

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	50	-	-	-
TPH-Motor Oil (C18-C36)	ND	250	-	-	-
Surrogate Recovery					
C9	543		625	87	68-127

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	1120	1060	1000	112	106	86-142	5.97	30
Surrogate Recovery								
C9	536	512	625	86	82	68-127	4.52	30

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1806063 **ClientCode: PDEO**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ▨ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
▨ Detection Summary ▨ Dry-Weight

Report to:
Lindsey Deschenes
P & D Environmental
55 Santa Clara Ave, Ste.240
Oakland, CA 94610
(510) 387-1700 FAX: 510-834-0152

Email: lab@pdenviro.com; Paul.King@pdenviro.c
cc/3rd Party:
PO:
Project: 0772; The Phoenix 801 Pine Street Oakland, CA

Bill to:
Accounts Payable
P & D Environmental
55 Santa Clara ave, Ste.240
Oakland, CA 94610

Requested TAT: **5 days;**

Date Received: **06/01/2018**
Date Logged: **06/01/2018**

					Requested Tests (See legend below)											
Lab ID	**Client ID**	**Matrix**	**Collection Date**	**Hold**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
1806063-001	GW3	Water	5/31/2018 14:34	☐	B	C	A	C	A							
1806063-002	GW4	Water	5/31/2018 14:51	☐	B	C	A	C	A							
1806063-003	GW5	Water	5/31/2018 15:06	☐	B		A		A							
1806063-004	GW6	Water	5/31/2018 09:53	☐	B		A		A							
1806063-005	GW7	Water	5/31/2018 10:57	☐	B		A		A							
1806063-006	GW8	Water	5/31/2018 11:17	☐	B		A		A							
1806063-007	GW9	Water	5/31/2018 11:42	☐	B		A		A							

Test Legend:

1	**8260B_W**	**2**	**CAM17MS_DISS**	**3**	**G-MBTEX_W**	**4**	**PRDISSOLVED**
5	**TPH_W**	**6**		**7**		**8**	
9		**10**		**11**		**12**	

Prepared by: Lilly Ortiz

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A contain testgroup Multi Range_W.

Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL
Project: 0772; The Phoenix 801 Pine Street Oakland, CA
Work Order: 1806063
Client Contact: Lindsey Deschenes
QC Level: LEVEL 2
Contact's Email: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Date Logged: 6/1/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1806063-001A	GW3	Water	Multi-Range TPH(g,d,mo)	4	VOA w/ HCl	☐	5/31/2018 14:34	5 days	Present	☐	
				2	1LA, Unpres	☐			Present	☐	
1806063-001B	GW3	Water	SW8260B (VOCs)	1	VOA w/ HCl	☐	5/31/2018 14:34	5 days	Present	☐	
1806063-001C	GW3	Water	E200.8 (CAM 17) (Dissolved-Lab Filtered)	2	500mL HDPE, unprsv.	☐	5/31/2018 14:34	5 days	Present	☐	
1806063-002A	GW4	Water	Multi-Range TPH(g,d,mo)	4	VOA w/ HCl	☐	5/31/2018 14:51	5 days	Present	☐	
				2	1LA, Unpres	☐			Present	☐	
1806063-002B	GW4	Water	SW8260B (VOCs)	1	VOA w/ HCl	☐	5/31/2018 14:51	5 days	Present	☐	
1806063-002C	GW4	Water	E200.8 (CAM 17) (Dissolved-Lab Filtered)	2	500mL HDPE, unprsv.	☐	5/31/2018 14:51	5 days	Present	☐	
1806063-003A	GW5	Water	Multi-Range TPH(g,d,mo)	4	VOA w/ HCl	☐	5/31/2018 15:06	5 days	Present	☐	
				2	1LA, Unpres	☐			Present	☐	
1806063-003B	GW5	Water	SW8260B (VOCs)	1	VOA w/ HCl	☐	5/31/2018 15:06	5 days	Present	☐	
1806063-004A	GW6	Water	Multi-Range TPH(g,d,mo)	4	VOA w/ HCl	☐	5/31/2018 9:53	5 days	Present	☐	
				2	1LA, Unpres	☐			Present	☐	
1806063-004B	GW6	Water	SW8260B (VOCs)	1	VOA w/ HCl	☐	5/31/2018 9:53	5 days	Present	☐	
1806063-005A	GW7	Water	Multi-Range TPH(g,d,mo)	4	VOA w/ HCl	☐	5/31/2018 10:57	5 days	Present	☐	
				2	1LA, Unpres	☐			Present	☐	

NOTES:
- **STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**
- **MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.**

WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL
Project: 0772; The Phoenix 801 Pine Street Oakland, CA
Work Order: 1806063
Client Contact: Lindsey Deschenes
QC Level: LEVEL 2
Contact's Email: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Date Logged: 6/1/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1806063-005B	GW7	Water	SW8260B (VOCs)	1	VOA w/ HCl	☐	5/31/2018 10:57	5 days	Present	☐	
1806063-006A	GW8	Water	Multi-Range TPH(g,d,mo)	4	VOA w/ HCl	☐	5/31/2018 11:17	5 days	Present	☐	
				2	1LA, Unpres	☐			Present	☐	
1806063-006B	GW8	Water	SW8260B (VOCs)	1	VOA w/ HCl	☐	5/31/2018 11:17	5 days	Present	☐	
1806063-007A	GW9	Water	Multi-Range TPH(g,d,mo)	4	VOA w/ HCl	☐	5/31/2018 11:42	5 days	Present	☐	
				2	1LA, Unpres	☐			Present	☐	
1806063-007B	GW9	Water	SW8260B (VOCs)	1	VOA w/ HCl	☐	5/31/2018 11:42	5 days	Present	☐	

NOTES:
- **STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**
- **MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.**

1806063

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME:
The Phoenix
801 Pine Street
Oakland, CA

SAMPLED BY: (PRINTED & SIGNATURE) Lindsey Deschenes

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): TPH-Multirange (G/D/MO/BO)	VOCs by 8260	Dissolved CAM17 *						PRESERVATIVE	REMARKS
GW3	5/31/18	14:34	H_2O	* Please filter & {	9	X	X	X						ICE	Normal Turnaround Time
GW4	"	14:51	"	preserve polys {	9	X	X	X						↓	↓
GW5	"	15:06	"	upon receipt.	7	X	X								
GW6	"	9:53	"		7	X	X								
GW7	"	10:57	"		7	X	X								
GW8	"	11:17	"		7	X	X								
GW9	"	11:42	"		7	X	X								

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)		
	6/1/18	1300	LAP 6/1/18 1300	Total No. of Samples (This Shipment) 7	LABORATORY: McCampbell Analytical
LAP	6.1.18	1615	Lilly Ortiz 6/1/18 1615	Total No. of Containers (This Shipment) 53	
				LABORATORY CONTACT: Angela Rydelius	LABORATORY PHONE NUMBER: (925) 252-9262

RELINQUISHED BY: (SIGNATURE) DATE TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)

SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES (✓) NO

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: * Please filter + preserve Polys upon receipt at Laboratory

0.7° wet

Sample Receipt Checklist

Client Name:	**P & D Environmental**	Date and Time Received:	**6/1/2018 16:15**
Project:	**0772; The Phoenix 801 Pine Street Oakland, CA**	Date Logged:	**6/1/2018**
		Received by:	Lilly Ortiz
WorkOrder №:	**1806063** Matrix: Water	Logged by:	Lilly Ortiz
Carrier:	Lorenzo Perez (MAI Courier)		

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Sample IDs noted by Client on COC?	Yes ☑	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐	
Sampler's name noted on COC?	Yes ☑	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	NA ☐
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		
Sample/Temp Blank temperature	Temp: 0.7°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	NA ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
UCMR Samples:			
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes ☐	No ☐	NA ☑

Comments:

McCampbell Analytical, Inc.
"When Quality Counts"

Analytical Report

WorkOrder: 1810751

Report Created for: P & D Environmental

55 Santa Clara Ave, Ste.240
Oakland, CA 94610

Project Contact: Michael Deschenes
Project P.O.:
Project: 0772; The Phoenix 801 Pine St. Oakland, CA

Project Received: 10/15/2018

Analytical Report reviewed & approved for release on 10/22/2018 by:

Jennifer Lagerbom
Project Manager

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
CA ELAP 1644 ♦ NELAP 4033 ORELAP

Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: 0772; The Phoenix 801 Pine St. Oakland, CA
WorkOrder: 1810751

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 μm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: 0772; The Phoenix 801 Pine St. Oakland, CA
WorkOrder: 1810751

Analytical Qualifiers

S	Surrogate spike recovery outside accepted recovery limits
c4	Surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
c12	Surrogate recovery outside of the control limits
e2	Diesel range compounds are significant; no recognizable pattern

Quality Control Qualifiers

F2	LCS/LCSD recovery and/or RPD is out of acceptance criteria.

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Received:	10/15/18 16:00	**Extraction Method:**	SW5030B
Date Prepared:	10/19/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW10	**1810751-001B**	**Water**	**10/13/2018 11:15**	**GC38 10181827.D**	**166928**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	10/19/2018 01:36
tert-Amyl methyl ether (TAME)	ND	0.50	1	10/19/2018 01:36
Benzene	ND	0.50	1	10/19/2018 01:36
Bromobenzene	ND	0.50	1	10/19/2018 01:36
Bromochloromethane	ND	0.50	1	10/19/2018 01:36
Bromodichloromethane	ND	0.50	1	10/19/2018 01:36
Bromoform	ND	0.50	1	10/19/2018 01:36
Bromomethane	ND	0.50	1	10/19/2018 01:36
2-Butanone (MEK)	ND	2.0	1	10/19/2018 01:36
t-Butyl alcohol (TBA)	ND	2.0	1	10/19/2018 01:36
n-Butyl benzene	ND	0.50	1	10/19/2018 01:36
sec-Butyl benzene	ND	0.50	1	10/19/2018 01:36
tert-Butyl benzene	ND	0.50	1	10/19/2018 01:36
Carbon Disulfide	ND	0.50	1	10/19/2018 01:36
Carbon Tetrachloride	ND	0.50	1	10/19/2018 01:36
Chlorobenzene	ND	0.50	1	10/19/2018 01:36
Chloroethane	ND	0.50	1	10/19/2018 01:36
Chloroform	ND	0.50	1	10/19/2018 01:36
Chloromethane	ND	0.50	1	10/19/2018 01:36
2-Chlorotoluene	ND	0.50	1	10/19/2018 01:36
4-Chlorotoluene	ND	0.50	1	10/19/2018 01:36
Dibromochloromethane	ND	0.50	1	10/19/2018 01:36
1,2-Dibromo-3-chloropropane	ND	0.20	1	10/19/2018 01:36
1,2-Dibromoethane (EDB)	ND	0.50	1	10/19/2018 01:36
Dibromomethane	ND	0.50	1	10/19/2018 01:36
1,2-Dichlorobenzene	ND	0.50	1	10/19/2018 01:36
1,3-Dichlorobenzene	ND	0.50	1	10/19/2018 01:36
1,4-Dichlorobenzene	ND	0.50	1	10/19/2018 01:36
Dichlorodifluoromethane	ND	0.50	1	10/19/2018 01:36
1,1-Dichloroethane	ND	0.50	1	10/19/2018 01:36
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	10/19/2018 01:36
1,1-Dichloroethene	ND	0.50	1	10/19/2018 01:36
cis-1,2-Dichloroethene	ND	0.50	1	10/19/2018 01:36
trans-1,2-Dichloroethene	ND	0.50	1	10/19/2018 01:36
1,2-Dichloropropane	ND	0.50	1	10/19/2018 01:36
1,3-Dichloropropane	ND	0.50	1	10/19/2018 01:36
2,2-Dichloropropane	ND	0.50	1	10/19/2018 01:36

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Received:	10/15/18 16:00	**Extraction Method:**	SW5030B
Date Prepared:	10/19/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW10	**1810751-001B**	**Water**	**10/13/2018 11:15**	**GC38 10181827.D**	**166928**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	10/19/2018 01:36
cis-1,3-Dichloropropene	ND	0.50	1	10/19/2018 01:36
trans-1,3-Dichloropropene	ND	0.50	1	10/19/2018 01:36
Diisopropyl ether (DIPE)	ND	0.50	1	10/19/2018 01:36
Ethylbenzene	ND	0.50	1	10/19/2018 01:36
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	10/19/2018 01:36
Freon 113	ND	0.50	1	10/19/2018 01:36
Hexachlorobutadiene	ND	0.50	1	10/19/2018 01:36
Hexachloroethane	ND	0.50	1	10/19/2018 01:36
2-Hexanone	ND	0.50	1	10/19/2018 01:36
Isopropylbenzene	ND	0.50	1	10/19/2018 01:36
4-Isopropyl toluene	ND	0.50	1	10/19/2018 01:36
Methyl-t-butyl ether (MTBE)	ND	0.50	1	10/19/2018 01:36
Methylene chloride	ND	2.0	1	10/19/2018 01:36
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	10/19/2018 01:36
Naphthalene	ND	0.50	1	10/19/2018 01:36
n-Propyl benzene	ND	0.50	1	10/19/2018 01:36
Styrene	ND	0.50	1	10/19/2018 01:36
1,1,1,2-Tetrachloroethane	ND	0.50	1	10/19/2018 01:36
1,1,2,2-Tetrachloroethane	ND	0.50	1	10/19/2018 01:36
Tetrachloroethene	**5.1**	0.50	1	10/19/2018 01:36
Toluene	ND	0.50	1	10/19/2018 01:36
1,2,3-Trichlorobenzene	ND	0.50	1	10/19/2018 01:36
1,2,4-Trichlorobenzene	ND	0.50	1	10/19/2018 01:36
1,1,1-Trichloroethane	ND	0.50	1	10/19/2018 01:36
1,1,2-Trichloroethane	ND	0.50	1	10/19/2018 01:36
Trichloroethene	ND	0.50	1	10/19/2018 01:36
Trichlorofluoromethane	ND	0.50	1	10/19/2018 01:36
1,2,3-Trichloropropane	ND	0.50	1	10/19/2018 01:36
1,2,4-Trimethylbenzene	ND	0.50	1	10/19/2018 01:36
1,3,5-Trimethylbenzene	ND	0.50	1	10/19/2018 01:36
Vinyl Chloride	ND	0.50	1	10/19/2018 01:36
m,p-Xylene	ND	0.50	1	10/19/2018 01:36
o-Xylene	ND	0.50	1	10/19/2018 01:36
Xylenes, Total	ND	0.50	1	10/19/2018 01:36

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Received:	10/15/18 16:00	**Extraction Method:**	SW5030B
Date Prepared:	10/19/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW10	**1810751-001B**	**Water**	**10/13/2018 11:15**	**GC38 10181827.D**	**166928**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	117	78-134		10/19/2018 01:36
Toluene-d8	116	82-120		10/19/2018 01:36
4-BFB	118	69-131		10/19/2018 01:36

Analyst(s): TK

(Cont.)

Analytical Report

Client: P & D Environmental
Date Received: 10/15/18 16:00
Date Prepared: 10/19/18
Project: 0772; The Phoenix 801 Pine St. Oakland, CA

WorkOrder: 1810751
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW11	**1810751-002B**	**Water**	**10/13/2018 10:30**	**GC38 10191814.D**	**166928**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	10/19/2018 16:50
tert-Amyl methyl ether (TAME)	ND	0.50	1	10/19/2018 16:50
Benzene	ND	0.50	1	10/19/2018 16:50
Bromobenzene	ND	0.50	1	10/19/2018 16:50
Bromochloromethane	ND	0.50	1	10/19/2018 16:50
Bromodichloromethane	ND	0.50	1	10/19/2018 16:50
Bromoform	ND	0.50	1	10/19/2018 16:50
Bromomethane	ND	0.50	1	10/19/2018 16:50
2-Butanone (MEK)	ND	2.0	1	10/19/2018 16:50
t-Butyl alcohol (TBA)	ND	2.0	1	10/19/2018 16:50
n-Butyl benzene	ND	0.50	1	10/19/2018 16:50
sec-Butyl benzene	ND	0.50	1	10/19/2018 16:50
tert-Butyl benzene	ND	0.50	1	10/19/2018 16:50
Carbon Disulfide	ND	0.50	1	10/19/2018 16:50
Carbon Tetrachloride	ND	0.50	1	10/19/2018 16:50
Chlorobenzene	ND	0.50	1	10/19/2018 16:50
Chloroethane	ND	0.50	1	10/19/2018 16:50
Chloroform	ND	0.50	1	10/19/2018 16:50
Chloromethane	ND	0.50	1	10/19/2018 16:50
2-Chlorotoluene	ND	0.50	1	10/19/2018 16:50
4-Chlorotoluene	ND	0.50	1	10/19/2018 16:50
Dibromochloromethane	ND	0.50	1	10/19/2018 16:50
1,2-Dibromo-3-chloropropane	ND	0.20	1	10/19/2018 16:50
1,2-Dibromoethane (EDB)	ND	0.50	1	10/19/2018 16:50
Dibromomethane	ND	0.50	1	10/19/2018 16:50
1,2-Dichlorobenzene	ND	0.50	1	10/19/2018 16:50
1,3-Dichlorobenzene	ND	0.50	1	10/19/2018 16:50
1,4-Dichlorobenzene	ND	0.50	1	10/19/2018 16:50
Dichlorodifluoromethane	ND	0.50	1	10/19/2018 16:50
1,1-Dichloroethane	ND	0.50	1	10/19/2018 16:50
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	10/19/2018 16:50
1,1-Dichloroethene	ND	0.50	1	10/19/2018 16:50
cis-1,2-Dichloroethene	ND	0.50	1	10/19/2018 16:50
trans-1,2-Dichloroethene	ND	0.50	1	10/19/2018 16:50
1,2-Dichloropropane	ND	0.50	1	10/19/2018 16:50
1,3-Dichloropropane	ND	0.50	1	10/19/2018 16:50
2,2-Dichloropropane	ND	0.50	1	10/19/2018 16:50

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Received:	10/15/18 16:00	**Extraction Method:**	SW5030B
Date Prepared:	10/19/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW11	**1810751-002B**	**Water**	**10/13/2018 10:30**	**GC38 10191814.D**	**166928**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	10/19/2018 16:50
cis-1,3-Dichloropropene	ND	0.50	1	10/19/2018 16:50
trans-1,3-Dichloropropene	ND	0.50	1	10/19/2018 16:50
Diisopropyl ether (DIPE)	ND	0.50	1	10/19/2018 16:50
Ethylbenzene	ND	0.50	1	10/19/2018 16:50
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	10/19/2018 16:50
Freon 113	ND	0.50	1	10/19/2018 16:50
Hexachlorobutadiene	ND	0.50	1	10/19/2018 16:50
Hexachloroethane	ND	0.50	1	10/19/2018 16:50
2-Hexanone	ND	0.50	1	10/19/2018 16:50
Isopropylbenzene	ND	0.50	1	10/19/2018 16:50
4-Isopropyl toluene	ND	0.50	1	10/19/2018 16:50
Methyl-t-butyl ether (MTBE)	ND	0.50	1	10/19/2018 16:50
Methylene chloride	ND	2.0	1	10/19/2018 16:50
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	10/19/2018 16:50
Naphthalene	ND	0.50	1	10/19/2018 16:50
n-Propyl benzene	ND	0.50	1	10/19/2018 16:50
Styrene	ND	0.50	1	10/19/2018 16:50
1,1,1,2-Tetrachloroethane	ND	0.50	1	10/19/2018 16:50
1,1,2,2-Tetrachloroethane	ND	0.50	1	10/19/2018 16:50
Tetrachloroethene	ND	0.50	1	10/19/2018 16:50
Toluene	ND	0.50	1	10/19/2018 16:50
1,2,3-Trichlorobenzene	ND	0.50	1	10/19/2018 16:50
1,2,4-Trichlorobenzene	ND	0.50	1	10/19/2018 16:50
1,1,1-Trichloroethane	ND	0.50	1	10/19/2018 16:50
1,1,2-Trichloroethane	ND	0.50	1	10/19/2018 16:50
Trichloroethene	**9.3**	0.50	1	10/19/2018 16:50
Trichlorofluoromethane	ND	0.50	1	10/19/2018 16:50
1,2,3-Trichloropropane	ND	0.50	1	10/19/2018 16:50
1,2,4-Trimethylbenzene	ND	0.50	1	10/19/2018 16:50
1,3,5-Trimethylbenzene	ND	0.50	1	10/19/2018 16:50
Vinyl Chloride	ND	0.50	1	10/19/2018 16:50
m,p-Xylene	ND	0.50	1	10/19/2018 16:50
o-Xylene	ND	0.50	1	10/19/2018 16:50
Xylenes, Total	ND	0.50	1	10/19/2018 16:50

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Received:	10/15/18 16:00	**Extraction Method:**	SW5030B
Date Prepared:	10/19/18	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW11	**1810751-002B**	**Water**	**10/13/2018 10:30**	**GC38 10191814.D**	**166928**

Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)	Qualifiers	Limits		
Dibromofluoromethane	113		78-134		10/19/2018 16:50
Toluene-d8	122	S	82-120		10/19/2018 16:50
4-BFB	123		69-131		10/19/2018 16:50

Analyst(s): TK

Analytical Comments: c12

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Received:	10/15/18 16:00	**Extraction Method:**	SW5030B
Date Prepared:	10/18/18	**Analytical Method:**	SW8021B/8015Bm
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Unit:**	µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW10	**1810751-001A**	**Water**	**10/13/2018 11:15**	**GC3 10171828.D**	**166860**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	10/18/2018 02:10
MTBE	---	5.0	1	10/18/2018 02:10
Benzene	---	0.50	1	10/18/2018 02:10
Toluene	---	0.50	1	10/18/2018 02:10
Ethylbenzene	---	0.50	1	10/18/2018 02:10
m,p-Xylene	---	1.0	1	10/18/2018 02:10
o-Xylene	---	0.50	1	10/18/2018 02:10
Xylenes	---	0.50	1	10/18/2018 02:10

Surrogates	REC (%)	Limits	
aaa-TFT	99	90-117	10/18/2018 02:10

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW11	**1810751-002A**	**Water**	**10/13/2018 10:30**	**GC3 10171835.D**	**166860**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	10/18/2018 05:44
MTBE	---	5.0	1	10/18/2018 05:44
Benzene	---	0.50	1	10/18/2018 05:44
Toluene	---	0.50	1	10/18/2018 05:44
Ethylbenzene	---	0.50	1	10/18/2018 05:44
m,p-Xylene	---	1.0	1	10/18/2018 05:44
o-Xylene	---	0.50	1	10/18/2018 05:44
Xylenes	---	0.50	1	10/18/2018 05:44

Surrogates	REC (%)	Qualifiers	Limits	
aaa-TFT	170	S	90-117	10/18/2018 05:44

Analyst(s): IA

Analytical Comments: c4

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Received:	10/15/18 16:00	**Extraction Method:**	SW3510C
Date Prepared:	10/15/18	**Analytical Method:**	SW8015B
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW10	**1810751-001A**	**Water**	**10/13/2018 11:15**	**GC6B 10171823.D**	**166628**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	10/17/2018 18:43
TPH-Motor Oil (C18-C36)	ND	250	1	10/17/2018 18:43
TPH-Bunker Oil (C10-C36)	ND	250	1	10/17/2018 18:43

Surrogates	REC (%)	Limits	Date Analyzed
C9	94	61-139	10/17/2018 18:43

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
GW11	**1810751-002A**	**Water**	**10/13/2018 10:30**	**GC6B 10171825.D**	**166628**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**76**	50	1	10/17/2018 19:22
TPH-Motor Oil (C18-C36)	ND	250	1	10/17/2018 19:22
TPH-Bunker Oil (C10-C36)	ND	250	1	10/17/2018 19:22

Surrogates	REC (%)	Limits	Date Analyzed
C9	94	61-139	10/17/2018 19:22

Analyst(s): JIS

Analytical Comments: e2

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Prepared:	10/18/18	**BatchID:**	166928
Date Analyzed:	10/18/18	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Sample ID:**	MB/LCS/LCSD-166928

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	10	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.50	-	-	-
Benzene	ND	0.50	-	-	-
Bromobenzene	ND	0.50	-	-	-
Bromochloromethane	ND	0.50	-	-	-
Bromodichloromethane	ND	0.50	-	-	-
Bromoform	ND	0.50	-	-	-
Bromomethane	ND	0.50	-	-	-
2-Butanone (MEK)	ND	2.0	-	-	-
t-Butyl alcohol (TBA)	ND	2.0	-	-	-
n-Butyl benzene	ND	0.50	-	-	-
sec-Butyl benzene	ND	0.50	-	-	-
tert-Butyl benzene	ND	0.50	-	-	-
Carbon Disulfide	ND	0.50	-	-	-
Carbon Tetrachloride	ND	0.50	-	-	-
Chlorobenzene	ND	0.50	-	-	-
Chloroethane	ND	0.50	-	-	-
Chloroform	ND	0.50	-	-	-
Chloromethane	ND	0.50	-	-	-
2-Chlorotoluene	ND	0.50	-	-	-
4-Chlorotoluene	ND	0.50	-	-	-
Dibromochloromethane	ND	0.50	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.20	-	-	-
1,2-Dibromoethane (EDB)	ND	0.50	-	-	-
Dibromomethane	ND	0.50	-	-	-
1,2-Dichlorobenzene	ND	0.50	-	-	-
1,3-Dichlorobenzene	ND	0.50	-	-	-
1,4-Dichlorobenzene	ND	0.50	-	-	-
Dichlorodifluoromethane	ND	0.50	-	-	-
1,1-Dichloroethane	ND	0.50	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.50	-	-	-
1,1-Dichloroethene	ND	0.50	-	-	-
cis-1,2-Dichloroethene	ND	0.50	-	-	-
trans-1,2-Dichloroethene	ND	0.50	-	-	-
1,2-Dichloropropane	ND	0.50	-	-	-
1,3-Dichloropropane	ND	0.50	-	-	-
2,2-Dichloropropane	ND	0.50	-	-	-
1,1-Dichloropropene	ND	0.50	-	-	-

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Prepared:	10/18/18	**BatchID:**	166928
Date Analyzed:	10/18/18	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Sample ID:**	MB/LCS/LCSD-166928

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
cis-1,3-Dichloropropene	ND	0.50	-	-	-
trans-1,3-Dichloropropene	ND	0.50	-	-	-
Diisopropyl ether (DIPE)	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.50	-	-	-
Freon 113	ND	0.50	-	-	-
Hexachlorobutadiene	ND	0.50	-	-	-
Hexachloroethane	ND	0.50	-	-	-
2-Hexanone	ND	0.50	-	-	-
Isopropylbenzene	ND	0.50	-	-	-
4-Isopropyl toluene	ND	0.50	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.50	-	-	-
Methylene chloride	ND	2.0	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.50	-	-	-
Naphthalene	ND	0.50	-	-	-
n-Propyl benzene	ND	0.50	-	-	-
Styrene	ND	0.50	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.50	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.50	-	-	-
Tetrachloroethene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
1,2,3-Trichlorobenzene	ND	0.50	-	-	-
1,2,4-Trichlorobenzene	ND	0.50	-	-	-
1,1,1-Trichloroethane	ND	0.50	-	-	-
1,1,2-Trichloroethane	ND	0.50	-	-	-
Trichloroethene	ND	0.50	-	-	-
Trichlorofluoromethane	ND	0.50	-	-	-
1,2,3-Trichloropropane	ND	0.50	-	-	-
1,2,4-Trimethylbenzene	ND	0.50	-	-	-
1,3,5-Trimethylbenzene	ND	0.50	-	-	-
Vinyl Chloride	ND	0.50	-	-	-
m,p-Xylene	ND	0.50	-	-	-
o-Xylene	ND	0.50	-	-	-
Xylenes, Total	ND	0.50	-	-	-

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Prepared:	10/18/18	**BatchID:**	166928
Date Analyzed:	10/18/18	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Sample ID:**	MB/LCS/LCSD-166928

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery					
Dibromofluoromethane	30		25	119	91-133
Toluene-d8	30		25	119	87-127
4-BFB	2.9		2.5	116	66-140

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Prepared:	10/18/18	**BatchID:**	166928
Date Analyzed:	10/18/18	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Sample ID:**	MB/LCS/LCSD-166928

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	190	190	200	94	97	47-122	2.78	20
tert-Amyl methyl ether (TAME)	9.7	10	10	97	102	62-121	4.86	20
Benzene	12	12	10	116	124, F2	74-121	7.11	20
Bromobenzene	12	12	10	115	116	63-127	0.443	20
Bromochloromethane	12	13	10	119	126	70-126	5.80	20
Bromodichloromethane	10	11	10	101	106	66-127	4.95	20
Bromoform	11	10	10	107	102	60-119	4.79	20
Bromomethane	7.3	7.9	10	73	79	32-155	8.37	20
2-Butanone (MEK)	41	42	40	102	104	51-117	1.98	20
t-Butyl alcohol (TBA)	37	39	40	93	97	41-122	4.02	20
n-Butyl benzene	12	12	10	119	119	73-137	0	20
sec-Butyl benzene	12	12	10	117	120	71-137	2.69	20
tert-Butyl benzene	12	12	10	118	121	61-136	2.75	20
Carbon Disulfide	12	13	10	120	129	61-139	7.71	20
Carbon Tetrachloride	10	11	10	103	109	69-137	5.80	20
Chlorobenzene	11	11	10	114	114	71-122	0	20
Chloroethane	8.4	9.0	10	84	90	54-132	6.86	20
Chloroform	10	11	10	100	107	73-122	6.58	20
Chloromethane	7.2	7.8	10	72	78	48-136	7.37	20
2-Chlorotoluene	11	12	10	113	117	65-134	3.02	20
4-Chlorotoluene	11	12	10	113	115	65-130	2.18	20
Dibromochloromethane	11	10	10	107	105	65-121	2.11	20
1,2-Dibromo-3-chloropropane	4.4	4.2	4	111	105	41-132	5.23	20
1,2-Dibromoethane (EDB)	11	10	10	106	104	67-125	2.17	20
Dibromomethane	11	12	10	114	118	68-121	3.47	20
1,2-Dichlorobenzene	11	11	10	112	113	69-128	0.663	20
1,3-Dichlorobenzene	12	12	10	115	116	71-131	1.07	20
1,4-Dichlorobenzene	11	11	10	110	112	70-128	1.39	20
Dichlorodifluoromethane	2.5	3.5	10	25	35	21-158	31.9,F2	20
1,1-Dichloroethane	11	12	10	113	122	73-123	7.33	20
1,2-Dichloroethane (1,2-DCA)	10	10	10	100	104	61-127	4.05	20
1,1-Dichloroethene	11	12	10	106	115	68-130	8.30	20
cis-1,2-Dichloroethene	12	13	10	121	129, F2	72-123	6.47	20
trans-1,2-Dichloroethene	12	13	10	120	130	64-138	7.71	20
1,2-Dichloropropane	11	12	10	115	122, F2	71-121	6.19	20
1,3-Dichloropropane	11	11	10	115	113	69-120	1.61	20
2,2-Dichloropropane	12	13	10	121	130	64-142	7.00	20
1,1-Dichloropropene	12	13	10	118	128	70-130	7.78	20

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Prepared:	10/18/18	**BatchID:**	166928
Date Analyzed:	10/18/18	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Sample ID:**	MB/LCS/LCSD-166928

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	11	11	10	110	111	58-136	1.06	20
trans-1,3-Dichloropropene	11	10	10	106	104	66-119	1.91	20
Diisopropyl ether (DIPE)	11	12	10	111	117	66-123	5.16	20
Ethylbenzene	12	12	10	117	118	71-125	0.720	20
Ethyl tert-butyl ether (ETBE)	9.5	10	10	95	100	67-122	5.02	20
Freon 113	10	11	10	104	113	68-132	7.90	20
Hexachlorobutadiene	12	12	10	118	120	56-155	2.07	20
Hexachloroethane	10	10	10	102	103	61-129	0.961	20
2-Hexanone	10	10	10	101	100	51-115	0.400	20
Isopropylbenzene	13	13	10	129	133	66-134	3.05	20
4-Isopropyl toluene	12	12	10	120	122	70-136	1.82	20
Methyl-t-butyl ether (MTBE)	12	12	10	115	121, F2	64-118	4.33	20
Methylene chloride	11	11	10	107	113	62-121	5.41	20
4-Methyl-2-pentanone (MIBK)	10	9.9	10	104	99	51-115	4.49	20
Naphthalene	12	11	10	117	112	55-137	4.74	20
n-Propyl benzene	12	12	10	116	119	63-140	2.05	20
Styrene	11	11	10	115	114	62-133	0.243	20
1,1,1,2-Tetrachloroethane	11	11	10	107	106	69-128	0.669	20
1,1,2,2-Tetrachloroethane	12	12	10	120, F2	118	60-118	1.64	20
Tetrachloroethene	12	12	10	118	121	63-136	2.83	20
Toluene	11	11	10	108	108	67-124	0	20
1,2,3-Trichlorobenzene	12	12	10	120	118	57-145	2.27	20
1,2,4-Trichlorobenzene	12	12	10	123	121	60-144	1.93	20
1,1,1-Trichloroethane	12	12	10	116	124	70-133	6.93	20
1,1,2-Trichloroethane	12	12	10	117	115	65-125	1.66	20
Trichloroethene	12	13	10	118	127	67-133	7.40	20
Trichlorofluoromethane	9.9	10	10	99	105	59-145	5.95	20
1,2,3-Trichloropropane	11	11	10	109	107	65-115	1.82	20
1,2,4-Trimethylbenzene	11	11	10	111	113	67-136	1.76	20
1,3,5-Trimethylbenzene	12	12	10	116	117	68-135	1.02	20
Vinyl Chloride	7.7	8.4	10	77	84	53-146	9.36	20
m,p-Xylene	20	22	20	101	110	66-129	8.94	20
o-Xylene	11	11	10	113	113	71-128	0	20
Xylenes, Total	31	33	30	105	111	68-128	5.93	20

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Prepared:	10/18/18	**BatchID:**	166928
Date Analyzed:	10/18/18	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Sample ID:**	MB/LCS/LCSD-166928

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
Dibromofluoromethane	29	31	25	116	123	91-133	5.92	20
Toluene-d8	29	30	25	117	118	87-127	1.02	20
4-BFB	3.0	3.1	2.5	121	122	66-140	0.868	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Prepared:	10/17/18	**BatchID:**	166860
Date Analyzed:	10/17/18	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Sample ID:**	MB/LCS/LCSD-166860

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	50	-	-	-
MTBE	ND	5.0	-	-	-
Benzene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
m,p-Xylene	ND	1.0	-	-	-
o-Xylene	ND	0.50	-	-	-
Xylenes	ND	0.50	-	-	-
Surrogate Recovery					
aaa-TFT	9.6		10	96	89-116

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	65	65	60	109	109	78-116	0	20
MTBE	9.6	9.7	10	96	97	72-122	0.725	20
Benzene	10	10	10	104	104	81-123	0	20
Toluene	11	11	10	107	107	83-129	0	20
Ethylbenzene	10	10	10	104	105	88-126	1.14	20
m,p-Xylene	21	21	20	104	105	80-120	0.588	20
o-Xylene	10	10	10	101	102	80-120	1.10	20
Xylenes	31	31	30	103	104	87-131	0.755	20
Surrogate Recovery								
aaa-TFT	9.4	9.3	10	94	93	89-116	0.815	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1810751
Date Prepared:	10/15/18	**BatchID:**	166628
Date Analyzed:	10/15/18	**Extraction Method:**	SW3510C
Instrument:	GC6B	**Analytical Method:**	SW8015B
Matrix:	Water	**Unit:**	µg/L
Project:	0772; The Phoenix 801 Pine St. Oakland, CA	**Sample ID:**	MB/LCS/LCSD-166628

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	50	-	-	-
TPH-Motor Oil (C18-C36)	ND	250	-	-	-
Surrogate Recovery					
C9	550		625	88	68-127

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	1100	1100	1000	115	107	86-142	7.06	30
Surrogate Recovery								
C9	540	540	625	86	86	68-127	0	30

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1810751 **ClientCode: PDEO**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ▨ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
▨ Detection Summary ▨ Dry-Weight

Report to:
Michael Deschenes
P & D Environmental
55 Santa Clara Ave, Ste.240
Oakland, CA 94610
(510) 658-6916 FAX: 510-834-0152

Email: lab@pdenviro.com; Paul.King@pdenviro.c
cc/3rd Party:
PO:
Project: 0772; The Phoenix 801 Pine St. Oakland, CA

Bill to:
Accounts Payable
P & D Environmental
55 Santa Clara Ave, Ste.240
Oakland, CA 94610

Requested TAT: **5 days;**

Date Received: **10/15/2018**
Date Logged: **10/15/2018**

					Requested Tests (See legend below)											
Lab ID	**Client ID**	**Matrix**	**Collection Date**	**Hold**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
1810751-001	GW10	Water	10/13/2018 11:15	☐	B	A	A									
1810751-002	GW11	Water	10/13/2018 10:30	☐	B	A	A									

Test Legend:

1	**8260B_W**	**2**	**G-MBTEX_W**	**3**	**TPH_W**	**4**	
5		**6**		**7**		**8**	
9		**10**		**11**		**12**	

Prepared by: Julia Danielsson

The following SampIDs: 001A, 002A contain testgroup Multi Range_W.

Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL
Project: 0772; The Phoenix 801 Pine St. Oakland, CA
Work Order: 1810751
Client Contact: Michael Deschenes
QC Level: LEVEL 2
Contact's Email: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Date Logged: 10/15/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1810751-001A	GW10	Water	Multi-Range TPH(g,d,mo)	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	☐	10/13/2018 11:15	5 days	Present	☐	
1810751-001B	GW10	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	10/13/2018 11:15	5 days	Present	☐	
1810751-002A	GW11	Water	Multi-Range TPH(g,d,mo)	1	2 VOAs w/HCL + 2-aVOAs (multi-range)	☐	10/13/2018 10:30	5 days	Present	☐	
1810751-002B	GW11	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	10/13/2018 10:30	5 days	Present	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

CHAIN OF COUSTODY RECORD 1810751

PAGE 1 OF 1

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME: The Phoenix
801 PINE STREET
OAKLAND, CA

SAMPLED BY: (PRINTED & SIGNATURE) Michael Bass-Deschenes MICHAEL BASS-DESCHENES

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): TPH-MULTIRANGE (G,D,MO,Bo)	VOCs BY 8260							PRESERVATIVE	REMARKS
+ GW10	10/13/18	1115	H2O		7	X	X							ICE	NORMAL TAT
+ GW11	10/13/18	1030	H2O		7	X	X							ICE	〃 〃

RELINQUISHED BY: (SIGNATURE) Michael Bass-Deschenes	DATE 10/15/18	TIME 0930	RECEIVED BY: (SIGNATURE) LAP 10/15/18 0950	Total No. of Samples (This Shipment) 2 Total No. of Containers (This Shipment) 14	LABORATORY: McCAMPBELL ANALYTICAL
RELINQUISHED BY: (SIGNATURE) LAP	DATE 10/15/18	TIME 1600	RECEIVED BY: (SIGNATURE)	LABORATORY CONTACT: ANGELA RYDELIUS	LABORATORY PHONE NUMBER: (925) 252-9292
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES [✓ NO]	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: 4 VOAS WITH HCL
2 VOASAMBER (NON-PRESERVED)
1 LITER AMBER (NON-PRESERVED)

3.3 wet

Sample Receipt Checklist

Client Name:	**P & D Environmental**	Date and Time Received	**10/15/2018 16:00**
Project:	**0772; The Phoenix 801 Pine St. Oakland, CA**	Date Logged:	**10/15/2018**
		Received by:	Julia Danielsson
WorkOrder №:	**1810751** Matrix: Water	Logged by:	Julia Danielsson
Carrier:	Lorenzo Perez (MAI Courier)		

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Sample IDs noted by Client on COC?	Yes ☑	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐	
Sampler's name noted on COC?	Yes ☑	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		
Sample/Temp Blank temperature	Temp: 3.3°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	NA ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
UCMR Samples:			
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes ☐	No ☐	NA ☑

Comments:

ENTHALPY
ANALYTICAL

Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 300421
ANALYTICAL REPORT

P&D Environmental
55 Santa Clara Avenue
Oakland, CA 94610

Project : 0772
Location : 801 Pine Streets Oakland, Ca.
Level : II

Sample ID	Lab ID
SG6	300421-001
SG6-DUP	300421-002
SG7	300421-003
SG8	300421-004
SG9	300421-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: ____________________ Date: 06/14/2018

Lauren Smith
Project Manager
lauren.smith@enthalpy.com

CA ELAP# 2896, NELAP# 4044-001

CASE NARRATIVE

Laboratory number:	**300421**
Client:	**P&D Environmental**
Project:	**0772**
Location:	**801 Pine Streets Oakland, Ca.**
Request Date:	**06/06/18**
Samples Received:	**06/06/18**

This data package contains sample and QC results for five air samples, requested for the above referenced project on 06/06/18. The samples were received cold and intact.

Volatile Organics in Air by MS (EPA TO-15):
No analytical problems were encountered.

Volatile Organics in Air GC (ASTM D1946-90 and EPA TO-3):
Gasoline range organics C6-C12 was detected between the MDL and the RL in the method blank for batch 260467. No other analytical problems were encountered.

CHAIN OF CUSTODY RECORD

300421

PAGE 1 OF 2

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME:
The Phoenix
801 Pine Street
Oakland, CA

SAMPLED BY: (PRINTED & SIGNATURE) Lindsey Deschenes

ANALYSIS(ES): VOCs incl. BTEX, PCE, TCE, cis-1,2 DCE, trans-1,2 DCE, & vinyl chloride; Carbon dioxide, oxygen, nitrogen, & helium by ASTM D-1946

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION Initial Vacuum	Final Vacuum	Summa	NUMBER OF CONTAINERS	VOCs incl. BTEX, PCE, TCE, cis-1,2 DCE, trans-1,2 DCE, & vinyl chloride	Carbon dioxide, oxygen, nitrogen, & helium by ASTM D-1946	PRESERVATIVE	REMARKS
SG6	6/4/18	12:31:40	Soil Gas	-27		126	1	X	X	None	Normal TAT
		12:41:01	" "		-5						
SG6 - REP	6/4/18	13:41:20	" "	-28		338	1	X	X	"	" "
		13:50:12	" "		-5						
SG6 - DUP	6/4/18	14:04:30	" "	-30		271	1	X	X	"	" "
		14:13:25	" "		-5						
SG6-DUP, REP	6/4/18	14:24:15	" "	-23		420	1	X	X	"	" "
		14:33:10	" "		-5						
SG7	6/4/18	15:06:15	" "	-28		341	1	X	X	"	" "
		15:14:18	" "		-5						

RELINQUISHED BY: (SIGNATURE)	DATE 6-5	TIME 16:18	RECEIVED BY: (SIGNATURE)	Total No. of Samples (This Shipment) 10 Total No. of Containers (This Shipment) 10	LABORATORY: Enthalpy Analytical
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	LABORATORY CONTACT: Lauren Smith	LABORATORY PHONE NUMBER: (510) 486-0900
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES [✓ NO]	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS:

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME: The Phoenix
801 Pine Street
Oakland, CA

SAMPLED BY: (PRINTED & SIGNATURE) Lindsey Deschenes

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION Initial Vacuum	Final Vacuum	Summa	NUMBER OF CONTAINERS	ANALYSIS(ES): VOCs incl. BTEX, PCE, TCE, cis-1,2 DCE, trans-1,2 DCE, & vinyl chloride	Carbon dioxide, oxygen, nitrogen & helium by ASTM D-1946				PRESERVATIVE	REMARKS
SG7-REP	6/4/18	15:28:57	Soil Gas	-28		142	1	X	X				None	Normal TAT
		15:37:00	" "		-5									
SG8	6/5/18	12:32:30	" "	-29		442	1	X	X				"	" "
		12:40:25	" "		-5									
SG8-REP	6/5/18	12:52:30	" "	-29		324	1	X	X				"	" "
		13:06:58	" "		-5									
SG9	6/5/18	13:56:00	" "	-30		434	1	X	X				"	" "
		14:02:27	" "		-4.5									
SG9-REP	6/5/18	14:20:45	" "	-30		117	1	X	X				"	" "
		14:26:50	" "		-5									

RELINQUISHED BY: (SIGNATURE)	DATE 6.5	TIME 16:18	RECEIVED BY: (SIGNATURE)	Total No. of Samples (This Shipment) 10 Total No. of Containers (This Shipment) 10	LABORATORY: Enthalpy Analytical
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	LABORATORY CONTACT: Lauren Smith	LABORATORY PHONE NUMBER: (510) 486-0900
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES [✓ NO]	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 300421 Date Received 06/06/18 Number of coolers 0

Client PDE Project 0772

Date Opened 06/06/18 By (print) BNL (sign)

Date Logged in ↓ By (print) ↓ (sign)

Date Labeled ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc)_____ YES [✓ NO]

Shipping info_____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☑ NO

How many _____ Name_____ Date_____

2B. Were custody seals intact upon arrival? _____ YES NO [✓ N/A]

3. Were custody papers dry and intact when received?_____ [✓ YES] NO

4. Were custody papers filled out properly (ink, signed, etc)? _____ [✓ YES] NO

5. Is the project identifiable from custody papers? (If so fill out top of form)_____ [✓ YES] NO

6. Indicate the packing in cooler: (if other, describe)_____

☐ Bubble Wrap ☐ Foam blocks ☐ Bags ☐ None

☐ Cloth material ☑ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☐ Wet ☐ Blue/Gel ☑ None Temp(°C)_____

☐ Temperature blank(s) included? ☐ Thermometer#_____ ☐ IR Gun#_____

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present?_____ YES [✓ NO]

If YES, what time were they transferred to freezer?_____

9. Did all bottles arrive unbroken/unopened?_____ [✓ YES] NO

10. Are there any missing / extra samples? _____ YES [✓ NO]

11. Are samples in the appropriate containers for indicated tests? _____ [✓ YES] NO

12. Are sample labels present, in good condition and complete? _____ [✓ YES] NO

13. Do the sample labels agree with custody papers? _____ [✓ YES] NO

14. Was sufficient amount of sample sent for tests requested? _____ [✓ YES] NO

15. Are the samples appropriately preserved? _____ YES NO [✓ N/A]

16. Did you check preservatives for all bottles for each sample? _____ YES NO [✓ N/A]

17. Did you document your preservative check? (pH strip lot#_____) YES NO [✓ N/A]

18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO [✓ N/A]

19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO [✓ N/A]

20. Are bubbles > 6mm absent in VOA samples? _____ YES NO [✓ N/A]

21. Was the client contacted concerning this sample delivery? _____ YES [✓ NO]

If YES, Who was called?_____ By_____ Date:_____

COMMENTS

Detections Summary for 300421

Results for any subcontracted analyses are not included in this summary.

Client : P&D Environmental
Project : 0772
Location : 801 Pine Streets Oakland, Ca.

Client Sample ID : SG6 Laboratory Sample ID : 300421-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Benzene	0.20	J	3.1	0.052	ppbv	As Recd	6.240	EPA TO-15	METHOD
Trichloroethene	490		3.1	0.055	ppbv	As Recd	6.240	EPA TO-15	METHOD
Toluene	0.85	J	3.1	0.066	ppbv	As Recd	6.240	EPA TO-15	METHOD
Tetrachloroethene	5.2		3.1	0.052	ppbv	As Recd	6.240	EPA TO-15	METHOD
Ethylbenzene	0.28	J	3.1	0.059	ppbv	As Recd	6.240	EPA TO-15	METHOD
m,p-Xylenes	1.1	J	3.1	0.10	ppbv	As Recd	6.240	EPA TO-15	METHOD
o-Xylene	0.66	J	3.1	0.077	ppbv	As Recd	6.240	EPA TO-15	METHOD
Carbon Dioxide	75,000		2,100		ppmv	As Recd	2.080	ASTM D1946-90	METHOD
Oxygen	99,000		2,100		ppmv	As Recd	2.080	ASTM D1946-90	METHOD
Gasoline Range Organics C6-C12	140		100	15	ppbv	As Recd	2.080	EPA TO-3	METHOD

Client Sample ID : SG6-DUP Laboratory Sample ID : 300421-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Benzene	0.17	J	3.5	0.058	ppbv	As Recd	7.020	EPA TO-15	METHOD
Trichloroethene	490		3.5	0.062	ppbv	As Recd	7.020	EPA TO-15	METHOD
Toluene	0.60	J	3.5	0.075	ppbv	As Recd	7.020	EPA TO-15	METHOD
Tetrachloroethene	5.1		3.5	0.058	ppbv	As Recd	7.020	EPA TO-15	METHOD
Ethylbenzene	0.25	J	3.5	0.067	ppbv	As Recd	7.020	EPA TO-15	METHOD
m,p-Xylenes	1.1	J	3.5	0.11	ppbv	As Recd	7.020	EPA TO-15	METHOD
o-Xylene	0.67	J	3.5	0.086	ppbv	As Recd	7.020	EPA TO-15	METHOD
Carbon Dioxide	74,000		2,300		ppmv	As Recd	2.340	ASTM D1946-90	METHOD
Oxygen	97,000		2,300		ppmv	As Recd	2.340	ASTM D1946-90	METHOD
Gasoline Range Organics C6-C12	190		120	17	ppbv	As Recd	2.340	EPA TO-3	METHOD

Client Sample ID : SG7 Laboratory Sample ID : 300421-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Benzene	0.050	J	1.1	0.050	ppbv	As Recd	2.280	EPA TO-15	METHOD
Trichloroethene	0.12	J	1.1	0.033	ppbv	As Recd	2.280	EPA TO-15	METHOD
Toluene	0.11	J	1.1	0.046	ppbv	As Recd	2.280	EPA TO-15	METHOD
Tetrachloroethene	5.4		1.1	0.046	ppbv	As Recd	2.280	EPA TO-15	METHOD
m,p-Xylenes	0.11	J	1.1	0.046	ppbv	As Recd	2.280	EPA TO-15	METHOD
o-Xylene	0.10	J	1.1	0.028	ppbv	As Recd	2.280	EPA TO-15	METHOD
Carbon Dioxide	29,000		2,300		ppmv	As Recd	2.280	ASTM D1946-90	METHOD
Oxygen	140,000		2,300		ppmv	As Recd	2.280	ASTM D1946-90	METHOD
Gasoline Range Organics C6-C12	27	J	110	17	ppbv	As Recd	2.280	EPA TO-3	METHOD

Client Sample ID : SG8 Laboratory Sample ID : 300421-004

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Benzene	0.082	J	1.1	0.050	ppbv	As Recd	2.280	EPA TO-15	METHOD
Toluene	0.37	J	1.1	0.046	ppbv	As Recd	2.280	EPA TO-15	METHOD
Tetrachloroethene	0.66	J	1.1	0.046	ppbv	As Recd	2.280	EPA TO-15	METHOD
Ethylbenzene	0.050	J	1.1	0.033	ppbv	As Recd	2.280	EPA TO-15	METHOD
m,p-Xylenes	0.23	J	1.1	0.046	ppbv	As Recd	2.280	EPA TO-15	METHOD
o-Xylene	0.075	J	1.1	0.028	ppbv	As Recd	2.280	EPA TO-15	METHOD
Carbon Dioxide	33,000		2,300		ppmv	As Recd	2.280	ASTM D1946-90	METHOD
Oxygen	140,000		2,300		ppmv	As Recd	2.280	ASTM D1946-90	METHOD
Gasoline Range Organics C6-C12	49	J	110	17	ppbv	As Recd	2.280	EPA TO-3	METHOD

Client Sample ID : SG9 Laboratory Sample ID : 300421-005

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Trichloroethene	0.043	J	1.1	0.031	ppbv	As Recd	2.140	EPA TO-15	METHOD
Toluene	0.12	J	1.1	0.043	ppbv	As Recd	2.140	EPA TO-15	METHOD
Tetrachloroethene	3.9		1.1	0.043	ppbv	As Recd	2.140	EPA TO-15	METHOD
Ethylbenzene	0.047	J	1.1	0.031	ppbv	As Recd	2.140	EPA TO-15	METHOD
m,p-Xylenes	0.079	J	1.1	0.043	ppbv	As Recd	2.140	EPA TO-15	METHOD
o-Xylene	0.034	J	1.1	0.026	ppbv	As Recd	2.140	EPA TO-15	METHOD
Carbon Dioxide	23,000		2,100		ppmv	As Recd	2.140	ASTM D1946-90	METHOD
Oxygen	150,000		2,100		ppmv	As Recd	2.140	ASTM D1946-90	METHOD

J = Estimated value

Volatile Organics in Air

Lab #: 300421
Client: P&D Environmental
Project#: 0772
Location: 801 Pine Streets Oakland, Ca.
Prep: METHOD
Analysis: EPA TO-15
Matrix: Air
Units (V): ppbv
Units (M): ug/m3
Received: 06/06/18

Field ID: SG6
Type: SAMPLE
Lab ID: 300421-001
Diln Fac: 6.240
Batch#: 260302
Sampled: 06/04/18
Analyzed: 06/08/18

Analyte	Result (V)	RL	MDL	Result (M)	RL	MDL
Vinyl Chloride	ND	3.1	0.062	ND	8.0	0.16
trans-1,2-Dichloroethene	ND	3.1	0.066	ND	12	0.26
cis-1,2-Dichloroethene	ND	3.1	0.052	ND	12	0.21
Benzene	0.20 J	3.1	0.052	0.64 J	10	0.17
Trichloroethene	490	3.1	0.055	2,600	17	0.29
Toluene	0.85 J	3.1	0.066	3.2 J	12	0.25
Tetrachloroethene	5.2	3.1	0.052	35	21	0.35
Ethylbenzene	0.28 J	3.1	0.059	1.2 J	14	0.26
m,p-Xylenes	1.1 J	3.1	0.10	4.9 J	14	0.44
o-Xylene	0.66 J	3.1	0.077	2.9 J	14	0.33

Surrogate	%REC	Limits
Bromofluorobenzene	99	70-130

Field ID: SG6-DUP
Type: SAMPLE
Lab ID: 300421-002
Diln Fac: 7.020
Batch#: 260302
Sampled: 06/04/18
Analyzed: 06/08/18

Analyte	Result (V)	RL	MDL	Result (M)	RL	MDL
Vinyl Chloride	ND	3.5	0.069	ND	9.0	0.18
trans-1,2-Dichloroethene	ND	3.5	0.074	ND	14	0.29
cis-1,2-Dichloroethene	ND	3.5	0.058	ND	14	0.23
Benzene	0.17 J	3.5	0.058	0.54 J	11	0.19
Trichloroethene	490	3.5	0.062	2,600	19	0.33
Toluene	0.60 J	3.5	0.075	2.3 J	13	0.28
Tetrachloroethene	5.1	3.5	0.058	35	24	0.40
Ethylbenzene	0.25 J	3.5	0.067	1.1 J	15	0.29
m,p-Xylenes	1.1 J	3.5	0.11	5.0 J	15	0.49
o-Xylene	0.67 J	3.5	0.086	2.9 J	15	0.37

Surrogate	%REC	Limits
Bromofluorobenzene	101	70-130

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit
Result M= Result in mass units
Result V= Result in volume units

Volatile Organics in Air

Lab #:	300421	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Units (M):	ug/m3
Units (V):	ppbv	Received:	06/06/18

Field ID:	SG7	Batch#:	260252
Type:	SAMPLE	Sampled:	06/04/18
Lab ID:	300421-003	Analyzed:	06/07/18
Diln Fac:	2.280		

Analyte	Result (V)	RL	MDL	Result (M)	RL	MDL
Vinyl Chloride	ND	1.1	0.036	ND	2.9	0.092
trans-1,2-Dichloroethene	ND	1.1	0.066	ND	4.5	0.26
cis-1,2-Dichloroethene	ND	1.1	0.034	ND	4.5	0.14
Benzene	0.050 J	1.1	0.050	0.16 J	3.6	0.16
Trichloroethene	0.12 J	1.1	0.033	0.64 J	6.1	0.18
Toluene	0.11 J	1.1	0.046	0.42 J	4.3	0.17
Tetrachloroethene	5.4	1.1	0.046	36	7.7	0.31
Ethylbenzene	ND	1.1	0.033	ND	5.0	0.14
m,p-Xylenes	0.11 J	1.1	0.046	0.47 J	5.0	0.20
o-Xylene	0.10 J	1.1	0.028	0.45 J	5.0	0.12

Surrogate	%REC	Limits
Bromofluorobenzene	105	70-130

Field ID:	SG8	Batch#:	260252
Type:	SAMPLE	Sampled:	06/05/18
Lab ID:	300421-004	Analyzed:	06/07/18
Diln Fac:	2.280		

Analyte	Result (V)	RL	MDL	Result (M)	RL	MDL
Vinyl Chloride	ND	1.1	0.036	ND	2.9	0.092
trans-1,2-Dichloroethene	ND	1.1	0.066	ND	4.5	0.26
cis-1,2-Dichloroethene	ND	1.1	0.034	ND	4.5	0.14
Benzene	0.082 J	1.1	0.050	0.26 J	3.6	0.16
Trichloroethene	ND	1.1	0.033	ND	6.1	0.18
Toluene	0.37 J	1.1	0.046	1.4 J	4.3	0.17
Tetrachloroethene	0.66 J	1.1	0.046	4.5 J	7.7	0.31
Ethylbenzene	0.050 J	1.1	0.033	0.22 J	5.0	0.14
m,p-Xylenes	0.23 J	1.1	0.046	0.98 J	5.0	0.20
o-Xylene	0.075 J	1.1	0.028	0.33 J	5.0	0.12

Surrogate	%REC	Limits
Bromofluorobenzene	108	70-130

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit
Result M= Result in mass units
Result V= Result in volume units

Volatile Organics in Air

Lab #:	300421	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Units (M):	ug/m3
Units (V):	ppbv	Received:	06/06/18

Field ID:	SG9	Batch#:	260252
Type:	SAMPLE	Sampled:	06/05/18
Lab ID:	300421-005	Analyzed:	06/07/18
Diln Fac:	2.140		

Analyte	Result (V)	RL	MDL	Result (M)	RL	MDL
Vinyl Chloride	ND	1.1	0.034	ND	2.7	0.087
trans-1,2-Dichloroethene	ND	1.1	0.062	ND	4.2	0.24
cis-1,2-Dichloroethene	ND	1.1	0.032	ND	4.2	0.13
Benzene	ND	1.1	0.047	ND	3.4	0.15
Trichloroethene	0.043 J	1.1	0.031	0.23 J	5.7	0.17
Toluene	0.12 J	1.1	0.043	0.45 J	4.0	0.16
Tetrachloroethene	3.9	1.1	0.043	27	7.3	0.29
Ethylbenzene	0.047 J	1.1	0.031	0.20 J	4.6	0.13
m,p-Xylenes	0.079 J	1.1	0.043	0.34 J	4.6	0.19
o-Xylene	0.034 J	1.1	0.026	0.15 J	4.6	0.11

Surrogate	%REC	Limits
Bromofluorobenzene	100	70-130

Type:	BLANK	Batch#:	260252
Lab ID:	QC934888	Analyzed:	06/07/18
Diln Fac:	1.000		

Analyte	Result (V)	RL	MDL	Result (M)	RL	MDL
Vinyl Chloride	ND	0.50	0.016	ND	1.3	0.040
trans-1,2-Dichloroethene	ND	0.50	0.029	ND	2.0	0.11
cis-1,2-Dichloroethene	ND	0.50	0.015	ND	2.0	0.060
Benzene	ND	0.50	0.022	ND	1.6	0.069
Trichloroethene	ND	0.50	0.015	ND	2.7	0.078
Toluene	ND	0.50	0.020	ND	1.9	0.075
Tetrachloroethene	ND	0.50	0.020	ND	3.4	0.14
Ethylbenzene	ND	0.50	0.014	ND	2.2	0.062
m,p-Xylenes	ND	0.50	0.020	ND	2.2	0.087
o-Xylene	ND	0.50	0.012	ND	2.2	0.053

Surrogate	%REC	Limits
Bromofluorobenzene	95	70-130

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit
Result M= Result in mass units
Result V= Result in volume units

Volatile Organics in Air

Lab #:	300421	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Units (M):	ug/m3
Units (V):	ppbv	Received:	06/06/18

Type:	BLANK	Batch#:	260302
Lab ID:	QC935109	Analyzed:	06/08/18
Diln Fac:	1.000		

Analyte	Result (V)	RL	MDL	Result (M)	RL	MDL
Vinyl Chloride	ND	0.50	0.0099	ND	1.3	0.025
trans-1,2-Dichloroethene	ND	0.50	0.011	ND	2.0	0.042
cis-1,2-Dichloroethene	ND	0.50	0.0083	ND	2.0	0.033
Benzene	0.0090 J	0.50	0.0083	0.029 J	1.6	0.027
Trichloroethene	ND	0.50	0.0088	ND	2.7	0.047
Toluene	ND	0.50	0.011	ND	1.9	0.040
Tetrachloroethene	ND	0.50	0.0083	ND	3.4	0.056
Ethylbenzene	ND	0.50	0.0095	ND	2.2	0.041
m,p-Xylenes	ND	0.50	0.016	ND	2.2	0.070
o-Xylene	ND	0.50	0.012	ND	2.2	0.053

Surrogate	%REC	Limits
Bromofluorobenzene	95	70-130

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit
Result M= Result in mass units
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	300421	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	260252
Units (V):	ppbv	Analyzed:	06/07/18
Diln Fac:	1.000		

Type: BS
Lab ID: QC934886

Analyte	Spiked	Result (V)	%REC	Limits
Vinyl Chloride	5.000	5.127	103	70-130
trans-1,2-Dichloroethene	5.000	5.104	102	70-130
cis-1,2-Dichloroethene	5.000	5.523	110	70-130
Benzene	5.000	3.917	78	70-130
Trichloroethene	5.000	4.566	91	70-130
Toluene	5.000	5.563	111	70-130
Tetrachloroethene	5.000	5.020	100	70-130
Ethylbenzene	5.000	5.211	104	70-130
m,p-Xylenes	10.00	9.655	97	70-130
o-Xylene	5.000	4.630	93	70-130

Surrogate	%REC	Limits
Bromofluorobenzene	101	70-130

Type: BSD
Lab ID: QC934887

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Vinyl Chloride	5.000	5.189	104	70-130	1	20
trans-1,2-Dichloroethene	5.000	5.192	104	70-130	2	20
cis-1,2-Dichloroethene	5.000	5.583	112	70-130	1	20
Benzene	5.000	3.791	76	70-130	3	20
Trichloroethene	5.000	4.148	83	70-130	10	20
Toluene	5.000	5.626	113	70-130	1	20
Tetrachloroethene	5.000	5.171	103	70-130	3	20
Ethylbenzene	5.000	5.135	103	70-130	1	20
m,p-Xylenes	10.00	9.570	96	70-130	1	32
o-Xylene	5.000	4.439	89	70-130	4	20

Surrogate	%REC	Limits
Bromofluorobenzene	101	70-130

RPD= Relative Percent Difference
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	300421	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	260302
Units (V):	ppbv	Analyzed:	06/08/18
Diln Fac:	1.000		

Type: BS Lab ID: QC935107

Analyte	Spiked	Result (V)	%REC	Limits
Vinyl Chloride	5.000	5.552	111	70-130
trans-1,2-Dichloroethene	5.000	6.403	128	70-130
cis-1,2-Dichloroethene	5.000	5.438	109	70-130
Benzene	5.000	5.275	106	70-130
Trichloroethene	5.000	5.348	107	70-130
Toluene	5.000	5.527	111	70-130
Tetrachloroethene	5.000	5.713	114	70-130
Ethylbenzene	5.000	5.548	111	70-130
m,p-Xylenes	10.00	11.75	117	70-130
o-Xylene	5.000	5.816	116	70-130

Surrogate	%REC	Limits
Bromofluorobenzene	101	70-130

Type: BSD Lab ID: QC935108

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Vinyl Chloride	5.000	5.507	110	70-130	1	20
trans-1,2-Dichloroethene	5.000	6.322	126	70-130	1	20
cis-1,2-Dichloroethene	5.000	5.412	108	70-130	0	20
Benzene	5.000	5.235	105	70-130	1	20
Trichloroethene	5.000	5.381	108	70-130	1	20
Toluene	5.000	5.534	111	70-130	0	20
Tetrachloroethene	5.000	5.559	111	70-130	3	20
Ethylbenzene	5.000	5.586	112	70-130	1	20
m,p-Xylenes	10.00	11.61	116	70-130	1	32
o-Xylene	5.000	5.765	115	70-130	1	20

Surrogate	%REC	Limits
Bromofluorobenzene	101	70-130

RPD= Relative Percent Difference
Result V= Result in volume units

Fixed Gas Analysis

Lab #:	300421	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Matrix:	Air	Batch#:	260227
Units:	ppmv	Received:	06/06/18
Units (Mol %):	MOL %	Analyzed:	06/06/18

Field ID: SG6
Type: SAMPLE
Lab ID: 300421-001
Diln Fac: 2.080
Sampled: 06/04/18

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,100	ND	0.21
Carbon Dioxide	75,000	2,100	7.5	0.21
Oxygen	99,000	2,100	9.9	0.21
Methane	ND	2,100	ND	0.21

Field ID: SG6-DUP
Type: SAMPLE
Lab ID: 300421-002
Diln Fac: 2.340
Sampled: 06/04/18

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,300	ND	0.23
Carbon Dioxide	74,000	2,300	7.4	0.23
Oxygen	97,000	2,300	9.7	0.23
Methane	ND	2,300	ND	0.23

Field ID: SG7
Type: SAMPLE
Lab ID: 300421-003
Diln Fac: 2.280
Sampled: 06/04/18

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,300	ND	0.23
Carbon Dioxide	29,000	2,300	2.9	0.23
Oxygen	140,000	2,300	14	0.23
Methane	ND	2,300	ND	0.23

ND= Not Detected
RL= Reporting Limit
Result Mol %= Result in Mole Percent

Fixed Gas Analysis

Lab #:	300421	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Matrix:	Air	Batch#:	260227
Units:	ppmv	Received:	06/06/18
Units (Mol %):	MOL %	Analyzed:	06/06/18

Field ID: SG8 Diln Fac: 2.280
Type: SAMPLE Sampled: 06/05/18
Lab ID: 300421-004

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,300	ND	0.23
Carbon Dioxide	33,000	2,300	3.3	0.23
Oxygen	140,000	2,300	14	0.23
Methane	ND	2,300	ND	0.23

Field ID: SG9 Diln Fac: 2.140
Type: SAMPLE Sampled: 06/05/18
Lab ID: 300421-005

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,100	ND	0.21
Carbon Dioxide	23,000	2,100	2.3	0.21
Oxygen	150,000	2,100	15	0.21
Methane	ND	2,100	ND	0.21

Type: BLANK Diln Fac: 1.000
Lab ID: QC934788

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	1,000	ND	0.10
Carbon Dioxide	ND	1,000	ND	0.10
Oxygen	ND	1,000	ND	0.10
Methane	ND	1,000	ND	0.10

ND= Not Detected
RL= Reporting Limit
Result Mol %= Result in Mole Percent

Aromatic / Petroleum Hydrocarbons in Air

Lab #:	300421	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-3
Analyte:	Gasoline Range Organics C6-C12	Batch#:	260467
Matrix:	Air	Received:	06/06/18
Units (V):	ppbv	Analyzed:	06/13/18
Units (M):	ug/m3		

Field ID	Type	Lab ID	Result (V)	RL	MDL	Result (M)	RL	MDL	Diln Fac	Sampled
SG6	SAMPLE	300421-001	140	100	15	580	430	63	2.080	06/04/18
SG6-DUP	SAMPLE	300421-002	190	120	17	770	480	71	2.340	06/04/18
SG7	SAMPLE	300421-003	27 J	110	17	110 J	470	69	2.280	06/04/18
SG8	SAMPLE	300421-004	49 J	110	17	200 J	470	69	2.280	06/05/18
SG9	SAMPLE	300421-005	ND	110	16	ND	440	65	2.140	06/05/18
	BLANK	QC935780	16 J	50	7.4	63 J	200	30	1.000	

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit
Result M= Result in mass units
Result V= Result in volume units

Batch QC Report

Fixed Gas Analysis

Lab #:	300421	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Matrix:	Air	Batch#:	260227
Units:	ppmv	Analyzed:	06/06/18
Diln Fac:	1.000		

Type: BS Lab ID: QC934785

Analyte	Spiked	Result	%REC	Limits
Helium	100,000	73,600	74	70-130
Carbon Dioxide		NA		
Oxygen		NA		
Methane		NA		

Type: BSD Lab ID: QC934786

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Helium	100,000	73,660	74	70-130	0	20
Carbon Dioxide		NA				
Oxygen		NA				
Methane		NA				

NA= Not Analyzed
RPD= Relative Percent Difference

Batch QC Report

Fixed Gas Analysis

Lab #:	300421	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Field ID:	SG6	Units (Mol %):	MOL %
Type:	SDUP	Diln Fac:	2.080
MSS Lab ID:	300421-001	Batch#:	260227
Lab ID:	QC934787	Sampled:	06/04/18
Matrix:	Air	Received:	06/06/18
Units:	ppmv	Analyzed:	06/06/18

Analyte	MSS Result	Result	RL	Result (Mol %)	RL	RPD	Lim
Helium	<2,080	ND	2,080	ND	0.2080	NC	30
Carbon Dioxide	74,560	74,540	2,080	7.454	0.2080	0	30
Oxygen	99,460	99,410	2,080	9.941	0.2080	0	20
Methane	<2,080	ND	2,080	ND	0.2080	NC	30

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit
RPD= Relative Percent Difference
Result Mol %= Result in Mole Percent

Batch QC Report

Fixed Gas Analysis

Lab #:	300421	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC934789	Batch#:	260227
Matrix:	Air	Analyzed:	06/06/18
Units:	ppmv		

Analyte	Spiked	Result	%REC	Limits
Helium		NA		
Carbon Dioxide	2,000	1,784	89	70-130
Oxygen	2,000	1,712	86	70-130
Methane	2,000	1,792	90	70-130

NA= Not Analyzed

Batch QC Report

Aromatic / Petroleum Hydrocarbons in Air

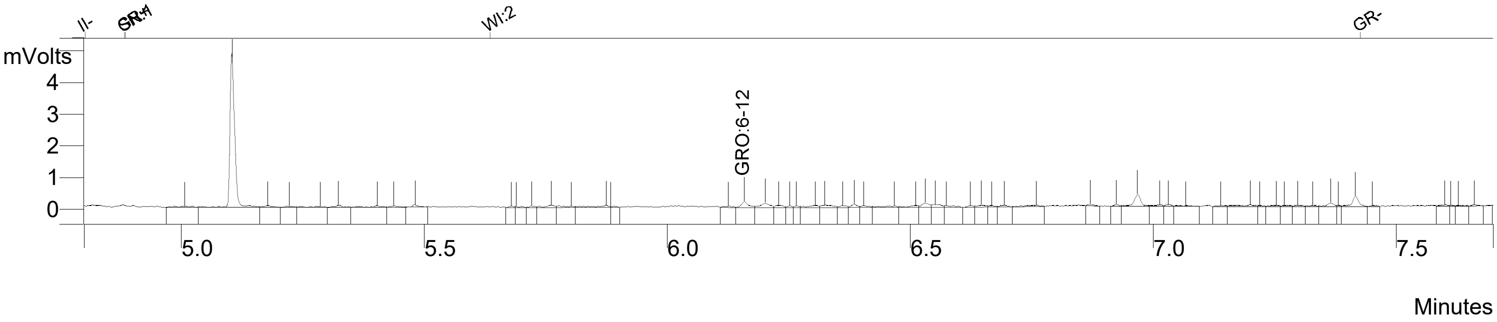
Lab #:	300421	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-3
Analyte:	Gasoline Range Organics C6-C12	Diln Fac:	1.000
Matrix:	Air	Batch#:	260467
Units (V):	ppbv	Analyzed:	06/13/18

Type	Lab ID	Spiked	Result (V)	%REC	Limits	RPD	Lim
BS	QC935778	2,100	1,914	91	70-130		
BSD	QC935779	2,100	1,940	92	70-130	1	25

RPD= Relative Percent Difference
Result V= Result in volume units

GRO by TO-3

Sample ID:	300421-001,260467		
Data File:	c:\varianws\data\061318ical\164_019.run		
Sample List:	c:\varianws\061318.smp		
Method:	c:\varianws\methods\to3_061318.mth		
Acquisition Date:	06/13/2018 17:46:41		
Calculation Date:	06/13/2018 17:56:35		
Instrument ID:	GC32	Operator:	TO-15
Injection Notes:	2.08x,c00126		
Multiplier:	1.000	Divisor:	1.000



Channel: **Front = FID RESULTS**

#	RT (min)	Peak Name	Area	Result (ppbv)
1	6.155	GRO:6-12	7002	68.769
		Totals	**7002**	**68.769**

Integration Parameters

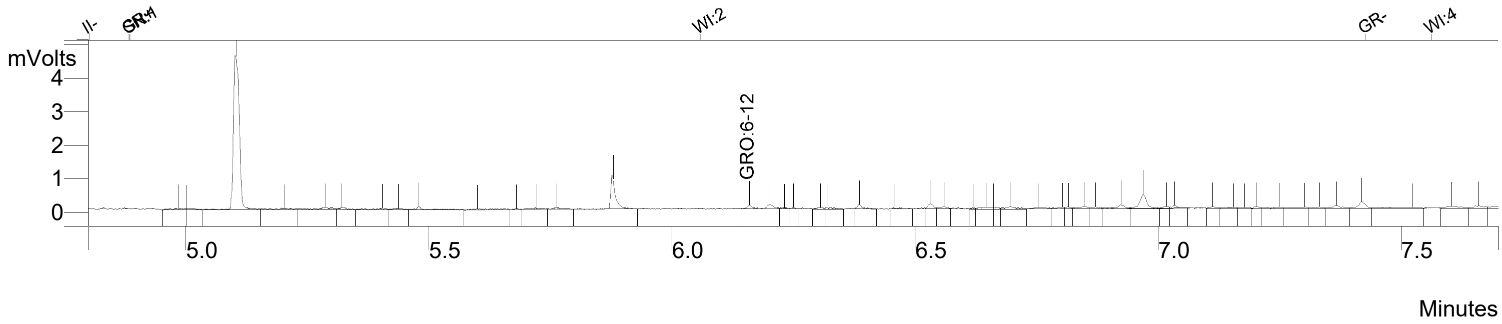
Initial Tangent %:	0
Initial Peak Width (sec):	4
Initial Peak Reject Value:	50.000
Initial S/N Ratio:	5

Data Handling Time Events

```
Time
(min)   Event
------- ---------------
 0.012   II  on
 4.802   II  off
 4.883   GR  on
 4.885   SN  1
 5.635   WI  2.0 sec
 7.426   GR  off
```

GRO by TO-3

Sample ID: 300421-002,260467
Data File: c:\varianws\data\061318ical\164_020.run
Sample List: c:\varianws\061318.smp
Method: c:\varianws\methods\to3_061318.mth
Acquisition Date: 06/13/2018 18:00:25
Calculation Date: 06/13/2018 18:10:18
Instrument ID: GC32 Operator: TO-15
Injection Notes: 2.34x,c00271
Multiplier: 1.000 Divisor: 1.000



Channel: **Front = FID RESULTS**

#	RT (min)	Peak Name	Area	Result (ppbv)
1	6.155	GRO:6-12	8222	80.750
		Totals	**8222**	**80.750**

Integration Parameters

Initial Tangent %:	0
Initial Peak Width (sec):	4
Initial Peak Reject Value:	50.000
Initial S/N Ratio:	5

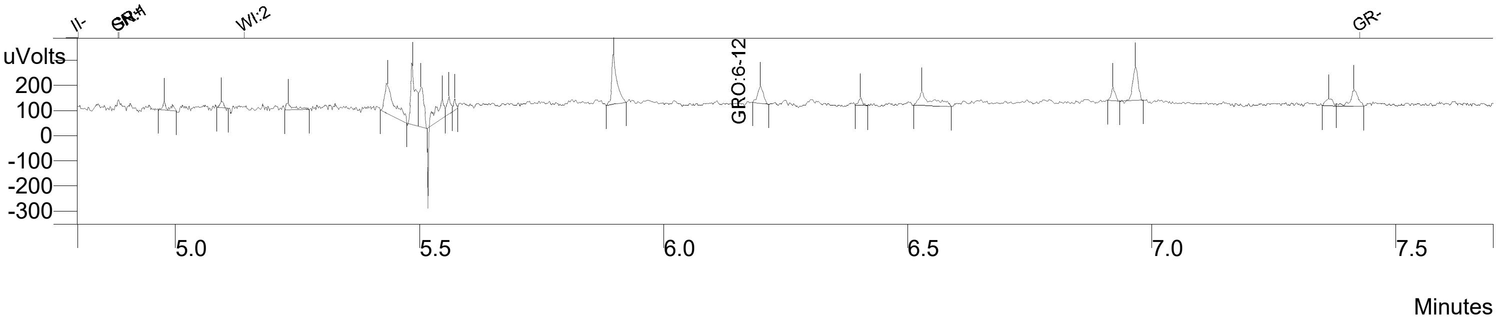
Data Handling Time Events

```
Time
(min)   Event
------- ---------------
 0.012  II  on
 4.802  II  off
 4.883  GR  on
 4.885  SN  1
 6.058  WI  2.0 sec
 7.426  GR  off
 7.563  WI  4.0 sec
 9.385  WI  2.0 sec
```

GRO by TO-3

Page: 1 Of 1

Sample ID:	300421-003,260467		
Data File:	c:\varianws\data\061318ical\164_021.run		
Sample List:	c:\varianws\061318.smp		
Method:	c:\varianws\methods\to3_061318.mth		
Acquisition Date:	06/13/2018 18:14:54		
Calculation Date:	06/13/2018 18:24:49		
Instrument ID:	GC32	Operator:	TO-15
Injection Notes:	2.28x,c00341		
Multiplier:	1.000	Divisor:	1.000



Channel: **Front = FID RESULTS**

#	RT (min)	Peak Name	Area	Result (ppbv)
1	6.155	GRO:6-12	1199	11.773
		Totals	**1199**	**11.773**

Integration Parameters

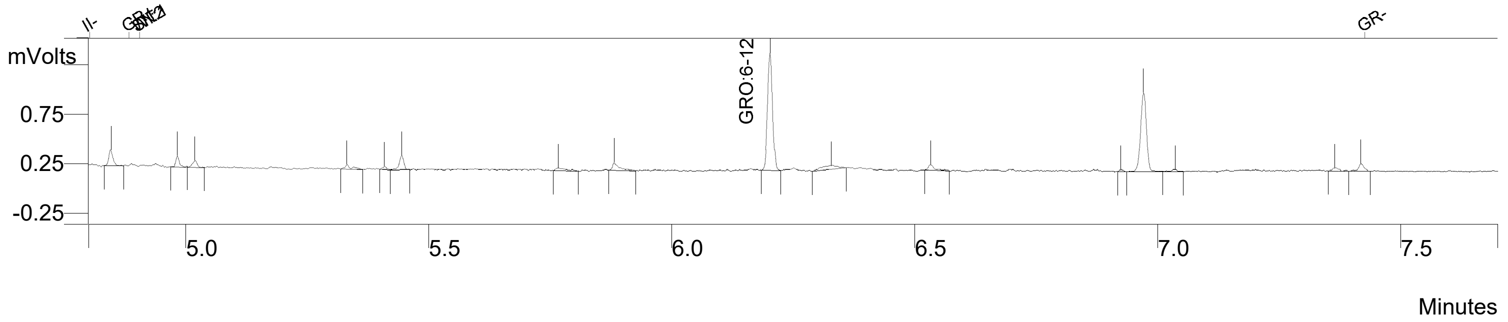
Initial Tangent %:	0
Initial Peak Width (sec):	4
Initial Peak Reject Value:	50.000
Initial S/N Ratio:	5

Data Handling Time Events

```
Time
(min)   Event
------- ---------------
 0.012  II  on
 4.802  II  off
 4.883  GR  on
 4.885  SN  1
 5.142  WI  2.0 sec
 7.426  GR  off
```

GRO by TO-3

Sample ID: 300421-004,260467
Data File: c:\varianws\data\061318ical\164_022.run
Sample List: c:\varianws\061318.smp
Method: c:\varianws\methods\to3_061318.mth
Acquisition Date: 06/13/2018 18:27:51
Calculation Date: 06/13/2018 18:37:44
Instrument ID: GC32 Operator: TO-15
Injection Notes: 2.28x,c00442
Multiplier: 1.000 Divisor: 1.000



Channel: **Front = FID RESULTS**

#	RT (min)	Peak Name	Area	Result (ppbv)
1	6.155	GRO:6-12	2191	21.521
		Totals	**2191**	**21.521**

Integration Parameters

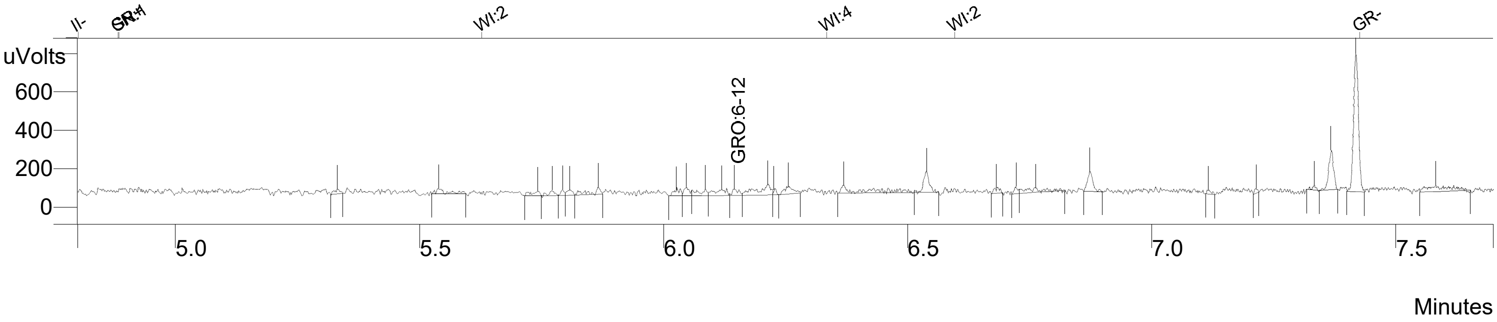
Initial Tangent %:	0
Initial Peak Width (sec):	4
Initial Peak Reject Value:	50.000
Initial S/N Ratio:	5

Data Handling Time Events

```
Time
(min)   Event
------- ---------------
 0.012  II  on
 4.802  II  off
 4.883  GR  on
 4.905  WI  2.0 sec
 4.905  SN  1
 7.426  GR  off
```

GRO by TO-3

Sample ID:	mb,qc935780,260467		
Data File:	c:\varianws\data\061318ical\164_018.run		
Sample List:	c:\varianws\061318.smp		
Method:	c:\varianws\methods\to3_061318.mth		
Acquisition Date:	06/13/2018 17:32:57		
Calculation Date:	06/13/2018 17:42:51		
Instrument ID:	GC32	Operator:	TO-15
Injection Notes:	c00355,1x		
Multiplier:	1.000	Divisor:	1.000



Channel: **Front = FID RESULTS**

#	RT (min)	Peak Name	Area	Result (ppbv)
1	6.155	GRO:6-12	1580	15.513
		Totals	**1580**	**15.513**

Integration Parameters

Initial Tangent %:	0
Initial Peak Width (sec):	4
Initial Peak Reject Value:	50.000
Initial S/N Ratio:	5

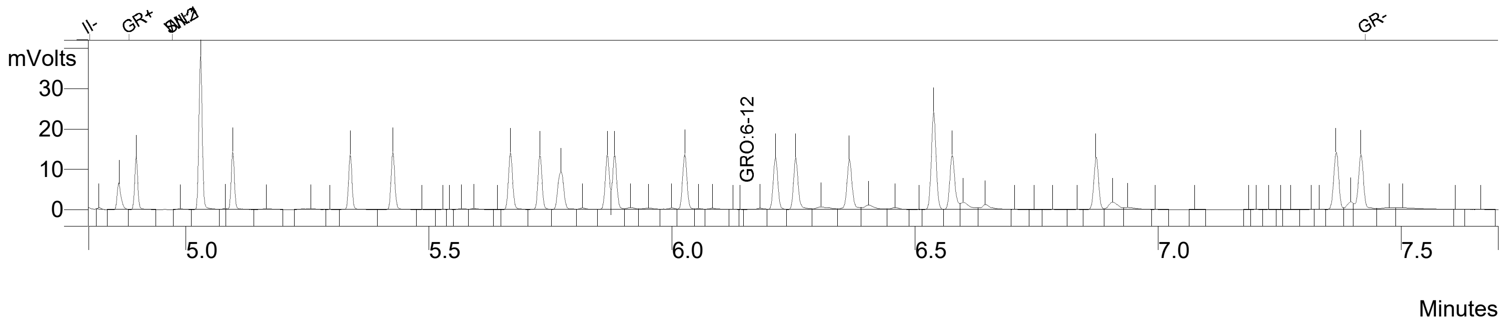
Data Handling Time Events

Time (min)	Event
0.012	II on
4.802	II off
4.883	GR on
4.885	SN 1
5.628	WI 2.0 sec
6.334	WI 4.0 sec
6.597	WI 2.0 sec
7.426	GR off
8.117	WI 4.0 sec
9.863	WI 2.0 sec

GRO by TO-3

Page: 1 Of 1

Sample ID: ccv/bs,qc935778
Data File: c:\varianws\data\061318ical\164_016.run
Sample List: c:\varianws\061318.smp
Method: c:\varianws\methods\to3_061318.mth
Acquisition Date: 06/13/2018 17:06:07
Calculation Date: 06/13/2018 17:17:12
Instrument ID: GC32 Operator: TO-15
Injection Notes: 260467,s37307,1x
Multiplier: 1.000 Divisor: 1.000



Channel: **Front = FID RESULTS**

#	RT (min)	Peak Name	Area	Result (ppbv)
1	6.155	GRO:6-12	194924	1914.335
		Totals	**194924**	**1914.335**

Integration Parameters

Initial Tangent %: 0
Initial Peak Width (sec): 4
Initial Peak Reject Value: 50.000
Initial S/N Ratio: 5

Data Handling Time Events

Time (min)	Event
0.012	II on
4.802	II off
4.883	GR on
4.972	WI 2.0 sec
4.972	SN 1
7.426	GR off

ENTHALPY

ANALYTICAL

Enthalpy Analytical
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 302994
ANALYTICAL REPORT

P&D Environmental	Project : 0772
55 Santa Clara Avenue	Location : 801 Pine Streets Oakland, Ca.
Oakland, CA 94610	Level : II

Sample ID	Lab ID
SG4	302994-001
SG5	302994-002
SG5-DUP	302994-003

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: ______________________ Date: 09/13/2018

Mike Dahlquist
Project Manager
mike.dahlquist@enthalpy.com
(510) 204-2225 Ext 13101

CA ELAP# 2896, NELAP# 4044-001

CASE NARRATIVE

Laboratory number:	**302994**
Client:	**P&D Environmental**
Project:	**0772**
Location:	**801 Pine Streets Oakland, Ca.**
Request Date:	**09/06/18**
Samples Received:	**09/06/18**

This data package contains sample and QC results for three air samples, requested for the above referenced project on 09/06/18. The samples were received cold and intact.

Volatile Organics in Air by MS (EPA TO-15):
High ICAL percent RSD (relative standard deviation) was observed for n-heptane in the calibration analyzed 08/28/18 16:53; affected data was qualified with "b". High responses were observed for acrolein and styrene in the ICV analyzed 08/29/18 12:27; affected data was qualified with "b". Low responses were observed for acrolein and styrene in the ICV analyzed 08/27/18 14:45; affected data was qualified with "b". High response was observed for 2-hexanone; affected data was qualified with "b". High responses were observed for many analytes in the CCV analyzed 09/12/18 21:58; affected data was qualified with "b". Low responses were observed for a number of analytes in the CCV analyzed 09/11/18 12:47; affected data was qualified with "b". Low recoveries were observed for a number of analytes in the BS/BSD for batch 263342; the associated RPDs were within limits, and these low recoveries were not associated with any reported results. High recoveries were also observed for a number of analytes in the BSD for batch 263342; the associated RPDs were within limits, and these analytes were not detected at or above the RL in the associated samples. High recoveries were observed for many analytes in the BS/BSD for batch 263397; the associated RPDs were within limits. High RPD was observed for acrolein; this analyte was not detected at or above the RL in the associated samples. No other analytical problems were encountered.

Volatile Organics in Air GC (ASTM D1946-90):
No analytical problems were encountered.

CHAIN OF CUSTODY RECORD 302994

PAGE 1 OF 1

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME:
The Phoenix
801 Pine Street
Oakland, CA

SAMPLED BY: (PRINTED & SIGNATURE) Lindsey Deschenes

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION Initial Vacuum	Final Vacuum	Summa #	PID (PPM)	NUMBER OF CONTAINERS	ANALYSIS(ES): VOCs incl. BTEX, PCE, TCE, cis-1,2DCE, trans-1,2DCE, & vinyl chloride		Carbon dioxide, oxygen, & helium by ASTM D-1946					PRESERVATIVE	REMARKS
SG4	9/6/18	15:10:12	Soil Gas	-30		113		1	X		X					None	3 day Rush TAT
		15:19:01	" "		-5		49.7										
SG5	9/6/18	16:41:52	" "	-30		306		1	X		X					"	" " " "
		17:09:00			-5		1.6										
SG5-DUP	9/6/18	16:41:52	" "	-30		412		1	X		X					"	" " " "
		17:09:00			-5		1.6										

RELINQUISHED BY: (SIGNATURE)	DATE 09/06/18	TIME 1800	RECEIVED BY: (SIGNATURE)	Total No. of Samples (This Shipment) 3 Total No. of Containers (This Shipment) 3	LABORATORY: Enthalpy Analytical
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	LABORATORY CONTACT: John Goyette	LABORATORY PHONE NUMBER: (510) 486-0900
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES [✓ NO]	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS:

SAMPLE RECEIPT CHECKLIST

ENTHALPY

Section 1: Login # 302994 Client: PDE

Date Received: 09/06/18 Project: 0772

Section 2: Samples received in a cooler? o Yes, how many? ________ [✓ o No (skip Section 3 below)]

If no cooler Sample Temp (°C): ____________ using IR Gun # o A, or o B

o Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened ________ By (print) ____________________ (sign) ____________________

Shipping info (if applicable) ____

Are custody seals present? o No, or o Yes. If yes, where? o on cooler, o on samples, o on package

o Date: __________ How many ________ o Signature, o Initials, o None

Were custody seals intact upon arrival? o Yes o No o N/A

Section 3: Important: Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) Box

o Bubble Wrap, o Foam blocks, o Bags, o None, o Cloth material, [✓ o Cardboard], o Styrofoam, o Paper towels

o Samples received on ice directly from the field. Cooling process had begun

Type of ice used: o Wet, o Blue/Gel, o None Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using o Thermometer ID: ______________, or IR Gun # o A o B

Cooler Temp (°C): #1: ______, #2: ______, #3: ______, #4: ______, #5: ______, #6: ______, #7: ______

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	X		
Were Method 5035 sampling containers present?		X	
If YES, what time were they transferred to freezer? ________			
Did all bottles arrive unbroken/unopened?	X		
Are there any missing / extra samples?	X		
Are samples in the appropriate containers for indicated tests?	X		
Are sample labels present, in good condition and complete?	X		
Does the container count match the COC?	X		
Do the sample labels agree with custody papers?	X		
Was sufficient amount of sample sent for tests requested?	X		
Did you change the hold time in LIMS for unpreserved VOAs?			X
Did you change the hold time in LIMS for preserved terracores?			X
Are bubbles > 6mm absent in VOA samples?			X
Was the client contacted concerning this sample delivery?		X	
If YES, who was called? ____________ By ____________ Date: ________			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# __________, pH strip lot# __________, pH strip lot# __________

Preservative added:

o H2SO4 lot# __________ added to samples ____________________ on/at __________

o HCL lot# __________ added to samples ____________________ on/at __________

o HNO3 lot# __________ added to samples ____________________ on/at __________

o NaOH lot# __________ added to samples ____________________ on/at __________

Section 6:

Explanations/Comments: ____

Date Logged in 09/06/18 By (print) BNL (sign)

Date Labeled ↓ By (print) ↓ (sign)

Detections Summary for 302994

Results for any subcontracted analyses are not included in this summary.

Client : P&D Environmental
Project : 0772
Location : 801 Pine Streets Oakland, Ca.

Client Sample ID : SG4 Laboratory Sample ID : 302994-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
2-Butanone	5.7	b	1.1	ppbv	As Recd	2.100	EPA TO-15	METHOD
Trichloroethene	1.4		1.1	ppbv	As Recd	2.100	EPA TO-15	METHOD
Tetrachloroethene	590		6.3	ppbv	As Recd	12.60	EPA TO-15	METHOD
Carbon Dioxide	35,000		2,100	ppmv	As Recd	2.100	ASTM D1946-90	METHOD
Oxygen	150,000		2,100	ppmv	As Recd	2.100	ASTM D1946-90	METHOD

Client Sample ID : SG5 Laboratory Sample ID : 302994-002

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Trichloroethene	17		0.99	ppbv	As Recd	1.970	EPA TO-15	METHOD
Tetrachloroethene	1.1		0.99	ppbv	As Recd	1.970	EPA TO-15	METHOD
Carbon Dioxide	12,000		2,000	ppmv	As Recd	1.970	ASTM D1946-90	METHOD
Oxygen	170,000		2,000	ppmv	As Recd	1.970	ASTM D1946-90	METHOD

Client Sample ID : SG5-DUP Laboratory Sample ID : 302994-003

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Trichloroethene	17		0.97	ppbv	As Recd	1.940	EPA TO-15	METHOD
Tetrachloroethene	1.0		0.97	ppbv	As Recd	1.940	EPA TO-15	METHOD
Carbon Dioxide	12,000		1,900	ppmv	As Recd	1.940	ASTM D1946-90	METHOD
Oxygen	170,000		1,900	ppmv	As Recd	1.940	ASTM D1946-90	METHOD

b = See narrative

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Field ID:	SG4	Batch#:	263397
Lab ID:	302994-001	Sampled:	09/06/18
Matrix:	Air	Received:	09/06/18
Units (V):	ppbv	Analyzed:	09/13/18
Units (M):	ug/m3		

Analyte	Result (V)	RL	Result (M)	RL	Diln Fac
Freon 12	ND	1.1	ND	5.2	2.100
Freon 114	ND	1.1	ND	7.3	2.100
Chloromethane	ND	1.1	ND	2.2	2.100
Vinyl Chloride	ND	1.1	ND	2.7	2.100
Bromomethane	ND	1.1	ND	4.1	2.100
Chloroethane	ND	1.1	ND	2.8	2.100
Trichlorofluoromethane	ND	1.1	ND	5.9	2.100
Acrolein	ND	4.2	ND	9.6	2.100
1,1-Dichloroethene	ND	1.1	ND	4.2	2.100
Freon 113	ND	1.1	ND	8.0	2.100
Acetone	ND	11	ND	25	2.100
Carbon Disulfide	ND	1.1	ND	3.3	2.100
Isopropanol	ND	11	ND	26	2.100
Methylene Chloride	ND	1.1	ND	3.6	2.100
trans-1,2-Dichloroethene	ND	1.1	ND	4.2	2.100
MTBE	ND	1.1	ND	3.8	2.100
n-Hexane	ND	1.1	ND	3.7	2.100
1,1-Dichloroethane	ND	1.1	ND	4.2	2.100
Vinyl Acetate	ND	1.1	ND	3.7	2.100
cis-1,2-Dichloroethene	ND	1.1	ND	4.2	2.100
2-Butanone	5.7 b	1.1	17	3.1	2.100
Ethyl Acetate	ND	1.1	ND	3.8	2.100
Tetrahydrofuran	ND	1.1	ND	3.1	2.100
Chloroform	ND	1.1	ND	5.1	2.100
1,1,1-Trichloroethane	ND	1.1	ND	5.7	2.100
Cyclohexane	ND	1.1	ND	3.6	2.100
Carbon Tetrachloride	ND	1.1	ND	6.6	2.100
Benzene	ND	1.1	ND	3.4	2.100
1,2-Dichloroethane	ND	1.1	ND	4.2	2.100
n-Heptane	ND	1.1	ND	4.3	2.100
Trichloroethene	1.4	1.1	7.6	5.6	2.100
1,2-Dichloropropane	ND	1.1	ND	4.9	2.100
Bromodichloromethane	ND	1.1	ND	7.0	2.100
cis-1,3-Dichloropropene	ND	1.1	ND	4.8	2.100

b= See narrative
ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Field ID:	SG4	Batch#:	263397
Lab ID:	302994-001	Sampled:	09/06/18
Matrix:	Air	Received:	09/06/18
Units (V):	ppbv	Analyzed:	09/13/18
Units (M):	ug/m3		

Analyte	Result (V)	RL	Result (M)	RL	Diln Fac
4-Methyl-2-Pentanone	ND	1.1	ND	4.3	2.100
Toluene	ND	1.1	ND	4.0	2.100
trans-1,3-Dichloropropene	ND	1.1	ND	4.8	2.100
1,1,2-Trichloroethane	ND	1.1	ND	5.7	2.100
Tetrachloroethene	590	6.3	4,000	43	12.60
2-Hexanone	ND	1.1	ND	4.3	2.100
Dibromochloromethane	ND	1.1	ND	8.9	2.100
1,2-Dibromoethane	ND	1.1	ND	8.1	2.100
Chlorobenzene	ND	1.1	ND	4.8	2.100
Ethylbenzene	ND	1.1	ND	4.6	2.100
m,p-Xylenes	ND	1.1	ND	4.6	2.100
o-Xylene	ND	1.1	ND	4.6	2.100
Styrene	ND	1.1	ND	4.5	2.100
Bromoform	ND	1.1	ND	11	2.100
1,1,2,2-Tetrachloroethane	ND	1.1	ND	7.2	2.100
4-Ethyltoluene	ND	1.1	ND	5.2	2.100
1,3,5-Trimethylbenzene	ND	1.1	ND	5.2	2.100
1,2,4-Trimethylbenzene	ND	1.1	ND	5.2	2.100
1,3-Dichlorobenzene	ND	1.1	ND	6.3	2.100
1,4-Dichlorobenzene	ND	1.1	ND	6.3	2.100
Benzyl chloride	ND	1.1	ND	5.4	2.100
1,2-Dichlorobenzene	ND	1.1	ND	6.3	2.100
1,2,4-Trichlorobenzene	ND	1.1	ND	7.8	2.100
Hexachlorobutadiene	ND	1.1	ND	11	2.100
Naphthalene	ND	4.2	ND	22	2.100

Surrogate	%REC	Limits	Diln Fac
Bromofluorobenzene	113	70-130	2.100

b= See narrative
ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Field ID:	SG5	Units (M):	ug/m3
Lab ID:	302994-002	Diln Fac:	1.970
Matrix:	Air	Sampled:	09/06/18
Units (V):	ppbv	Received:	09/06/18

Analyte	Result (V)	RL	Result (M)	RL	Batch#	Analyzed
Freon 12	ND	0.99	ND	4.9	263342	09/11/18
Freon 114	ND	0.99	ND	6.9	263342	09/11/18
Chloromethane	ND	0.99	ND	2.0	263342	09/11/18
Vinyl Chloride	ND	0.99	ND	2.5	263342	09/11/18
Bromomethane	ND	0.99	ND	3.8	263397	09/13/18
Chloroethane	ND	0.99	ND	2.6	263342	09/11/18
Trichlorofluoromethane	ND	0.99	ND	5.5	263342	09/11/18
Acrolein	ND	3.9	ND	9.0	263397	09/13/18
1,1-Dichloroethene	ND	0.99	ND	3.9	263342	09/11/18
Freon 113	ND	0.99	ND	7.5	263342	09/11/18
Acetone	ND	9.9	ND	23	263342	09/11/18
Carbon Disulfide	ND	0.99	ND	3.1	263342	09/11/18
Isopropanol	ND	9.9	ND	24	263342	09/11/18
Methylene Chloride	ND	0.99	ND	3.4	263342	09/11/18
trans-1,2-Dichloroethene	ND	0.99	ND	3.9	263342	09/11/18
MTBE	ND	0.99	ND	3.6	263342	09/11/18
n-Hexane	ND	0.99	ND	3.5	263397	09/13/18
1,1-Dichloroethane	ND	0.99	ND	4.0	263342	09/11/18
Vinyl Acetate	ND	0.99	ND	3.5	263342	09/11/18
cis-1,2-Dichloroethene	ND	0.99	ND	3.9	263342	09/11/18
2-Butanone	ND	3.3	ND	9.7	263342	09/11/18
Ethyl Acetate	ND	3.3	ND	12	263342	09/11/18
Tetrahydrofuran	ND	0.99	ND	2.9	263342	09/11/18
Chloroform	ND	0.99	ND	4.8	263342	09/11/18
1,1,1-Trichloroethane	ND	0.99	ND	5.4	263342	09/11/18
Cyclohexane	ND	0.99	ND	3.4	263342	09/11/18
Carbon Tetrachloride	ND	0.99	ND	6.2	263342	09/11/18
Benzene	ND	0.99	ND	3.1	263342	09/11/18
1,2-Dichloroethane	ND	0.99	ND	4.0	263342	09/11/18
n-Heptane	ND	0.99	ND	4.0	263342	09/11/18
Trichloroethene	17	0.99	90	5.3	263342	09/11/18
1,2-Dichloropropane	ND	0.99	ND	4.6	263342	09/11/18
Bromodichloromethane	ND	0.99	ND	6.6	263342	09/11/18
cis-1,3-Dichloropropene	ND	0.99	ND	4.5	263342	09/11/18
4-Methyl-2-Pentanone	ND	0.99	ND	4.0	263342	09/11/18
Toluene	ND	0.99	ND	3.7	263342	09/11/18

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Field ID:	SG5	Units (M):	ug/m3
Lab ID:	302994-002	Diln Fac:	1.970
Matrix:	Air	Sampled:	09/06/18
Units (V):	ppbv	Received:	09/06/18

Analyte	Result (V)	RL	Result (M)	RL	Batch#	Analyzed
trans-1,3-Dichloropropene	ND	0.99	ND	4.5	263342	09/11/18
1,1,2-Trichloroethane	ND	0.99	ND	5.4	263342	09/11/18
Tetrachloroethene	1.1	0.99	7.2	6.7	263342	09/11/18
2-Hexanone	ND	0.99	ND	4.0	263342	09/11/18
Dibromochloromethane	ND	0.99	ND	8.4	263342	09/11/18
1,2-Dibromoethane	ND	0.99	ND	7.6	263342	09/11/18
Chlorobenzene	ND	0.99	ND	4.5	263342	09/11/18
Ethylbenzene	ND	0.99	ND	4.3	263342	09/11/18
m,p-Xylenes	ND	0.99	ND	4.3	263342	09/11/18
o-Xylene	ND	0.99	ND	4.3	263342	09/11/18
Styrene	ND	0.99	ND	4.2	263397	09/13/18
Bromoform	ND	0.99	ND	10	263397	09/13/18
1,1,2,2-Tetrachloroethane	ND	0.99	ND	6.8	263342	09/11/18
4-Ethyltoluene	ND	0.99	ND	4.8	263342	09/11/18
1,3,5-Trimethylbenzene	ND	0.99	ND	4.8	263342	09/11/18
1,2,4-Trimethylbenzene	ND	0.99	ND	4.8	263342	09/11/18
1,3-Dichlorobenzene	ND	0.99	ND	5.9	263342	09/11/18
1,4-Dichlorobenzene	ND	0.99	ND	5.9	263342	09/11/18
Benzyl chloride	ND	0.99	ND	5.1	263342	09/11/18
1,2-Dichlorobenzene	ND	0.99	ND	5.9	263342	09/11/18
1,2,4-Trichlorobenzene	ND	0.99	ND	7.3	263342	09/11/18
Hexachlorobutadiene	ND	0.99	ND	11	263342	09/11/18
Naphthalene	ND	3.9	ND	21	263342	09/11/18

Surrogate	%REC	Limits	Batch#	Analyzed
Bromofluorobenzene	106	70-130	263342	09/11/18

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Field ID:	SG5-DUP	Units (M):	ug/m3
Lab ID:	302994-003	Diln Fac:	1.940
Matrix:	Air	Sampled:	09/06/18
Units (V):	ppbv	Received:	09/06/18

Analyte	Result (V)	RL	Result (M)	RL	Batch#	Analyzed
Freon 12	ND	0.97	ND	4.8	263342	09/11/18
Freon 114	ND	0.97	ND	6.8	263342	09/11/18
Chloromethane	ND	0.97	ND	2.0	263342	09/11/18
Vinyl Chloride	ND	0.97	ND	2.5	263342	09/11/18
Bromomethane	ND	0.97	ND	3.8	263397	09/13/18
Chloroethane	ND	0.97	ND	2.6	263342	09/11/18
Trichlorofluoromethane	ND	0.97	ND	5.4	263342	09/11/18
Acrolein	ND	3.9	ND	8.9	263397	09/13/18
1,1-Dichloroethene	ND	0.97	ND	3.8	263342	09/11/18
Freon 113	ND	0.97	ND	7.4	263342	09/11/18
Acetone	ND	9.7	ND	23	263342	09/11/18
Carbon Disulfide	ND	0.97	ND	3.0	263342	09/11/18
Isopropanol	ND	9.7	ND	24	263342	09/11/18
Methylene Chloride	ND	0.97	ND	3.4	263342	09/11/18
trans-1,2-Dichloroethene	ND	0.97	ND	3.8	263342	09/11/18
MTBE	ND	0.97	ND	3.5	263342	09/11/18
n-Hexane	ND	0.97	ND	3.4	263397	09/13/18
1,1-Dichloroethane	ND	0.97	ND	3.9	263342	09/11/18
Vinyl Acetate	ND	0.97	ND	3.4	263342	09/11/18
cis-1,2-Dichloroethene	ND	0.97	ND	3.8	263342	09/11/18
2-Butanone	ND	3.2	ND	9.5	263342	09/11/18
Ethyl Acetate	ND	3.2	ND	12	263342	09/11/18
Tetrahydrofuran	ND	0.97	ND	2.9	263342	09/11/18
Chloroform	ND	0.97	ND	4.7	263342	09/11/18
1,1,1-Trichloroethane	ND	0.97	ND	5.3	263342	09/11/18
Cyclohexane	ND	0.97	ND	3.3	263342	09/11/18
Carbon Tetrachloride	ND	0.97	ND	6.1	263342	09/11/18
Benzene	ND	0.97	ND	3.1	263342	09/11/18
1,2-Dichloroethane	ND	0.97	ND	3.9	263342	09/11/18
n-Heptane	ND	0.97	ND	4.0	263342	09/11/18
Trichloroethene	17	0.97	90	5.2	263342	09/11/18
1,2-Dichloropropane	ND	0.97	ND	4.5	263342	09/11/18
Bromodichloromethane	ND	0.97	ND	6.5	263342	09/11/18
cis-1,3-Dichloropropene	ND	0.97	ND	4.4	263342	09/11/18
4-Methyl-2-Pentanone	ND	0.97	ND	4.0	263342	09/11/18
Toluene	ND	0.97	ND	3.7	263342	09/11/18

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

ENTHALPY ANALYTICAL

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Field ID:	SG5-DUP	Units (M):	ug/m3
Lab ID:	302994-003	Diln Fac:	1.940
Matrix:	Air	Sampled:	09/06/18
Units (V):	ppbv	Received:	09/06/18

Analyte	Result (V)	RL	Result (M)	RL	Batch#	Analyzed
trans-1,3-Dichloropropene	ND	0.97	ND	4.4	263342	09/11/18
1,1,2-Trichloroethane	ND	0.97	ND	5.3	263342	09/11/18
Tetrachloroethene	1.0	0.97	7.1	6.6	263342	09/11/18
2-Hexanone	ND	0.97	ND	4.0	263342	09/11/18
Dibromochloromethane	ND	0.97	ND	8.3	263342	09/11/18
1,2-Dibromoethane	ND	0.97	ND	7.5	263342	09/11/18
Chlorobenzene	ND	0.97	ND	4.5	263342	09/11/18
Ethylbenzene	ND	0.97	ND	4.2	263342	09/11/18
m,p-Xylenes	ND	0.97	ND	4.2	263342	09/11/18
o-Xylene	ND	0.97	ND	4.2	263342	09/11/18
Styrene	ND	0.97	ND	4.1	263397	09/13/18
Bromoform	ND	0.97	ND	10	263397	09/13/18
1,1,2,2-Tetrachloroethane	ND	0.97	ND	6.7	263342	09/11/18
4-Ethyltoluene	ND	0.97	ND	4.8	263342	09/11/18
1,3,5-Trimethylbenzene	ND	0.97	ND	4.8	263342	09/11/18
1,2,4-Trimethylbenzene	ND	0.97	ND	4.8	263342	09/11/18
1,3-Dichlorobenzene	ND	0.97	ND	5.8	263342	09/11/18
1,4-Dichlorobenzene	ND	0.97	ND	5.8	263342	09/11/18
Benzyl chloride	ND	0.97	ND	5.0	263342	09/11/18
1,2-Dichlorobenzene	ND	0.97	ND	5.8	263342	09/11/18
1,2,4-Trichlorobenzene	ND	0.97	ND	7.2	263342	09/11/18
Hexachlorobutadiene	ND	0.97	ND	10	263342	09/11/18
Naphthalene	ND	3.9	ND	20	263342	09/11/18

Surrogate	%REC	Limits	Batch#	Analyzed
Bromofluorobenzene	104	70-130	263342	09/11/18

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	263342
Units (V):	ppbv	Analyzed:	09/11/18
Diln Fac:	1.000		

Type:	BS	Lab ID:	QC947042

Analyte	Spiked	Result (V)	%REC	Limits
Freon 12	5.000	5.204	104	70-130
Freon 114	5.000	5.367	107	70-130
Chloromethane	5.000	4.110	82	70-130
Vinyl Chloride	5.000	4.553	91	70-130
Bromomethane	5.000	3.340 b	67 *	70-130
Chloroethane	5.000	4.336	87	70-130
Trichlorofluoromethane	5.000	5.115	102	70-130
Acrolein	5.000	2.877 b	58 *	70-130
1,1-Dichloroethene	5.000	4.680	94	70-130
Freon 113	5.000	4.991	100	70-130
Acetone	5.000	3.645	73	70-130
Carbon Disulfide	5.000	4.475	90	70-130
Isopropanol	5.000	3.712	74	70-130
Methylene Chloride	5.000	4.398	88	70-130
trans-1,2-Dichloroethene	5.000	5.152	103	70-130
MTBE	5.000	4.806	96	70-130
n-Hexane	5.000	3.424 b	68 *	70-130
1,1-Dichloroethane	5.000	5.026	101	70-130
Vinyl Acetate	5.000	4.064	81	70-130
cis-1,2-Dichloroethene	5.000	5.061	101	70-130
2-Butanone	5.000	3.848	77	70-130
Ethyl Acetate	5.000	3.871	77	70-130
Tetrahydrofuran	5.000	6.501	130	70-130
Chloroform	5.000	4.914	98	70-130
1,1,1-Trichloroethane	5.000	6.337	127	70-130
Cyclohexane	5.000	6.088	122	70-130
Carbon Tetrachloride	5.000	4.858	97	70-130
Benzene	5.000	5.755	115	70-130
1,2-Dichloroethane	5.000	5.667	113	70-130
n-Heptane	5.000	6.519	130	70-130
Trichloroethene	5.000	6.165	123	70-130
1,2-Dichloropropane	5.000	6.323	126	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	263342
Units (V):	ppbv	Analyzed:	09/11/18
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits
Bromodichloromethane	5.000	5.893	118	70-130
cis-1,3-Dichloropropene	5.000	6.294	126	70-130
4-Methyl-2-Pentanone	5.000	5.827	117	70-130
Toluene	5.000	4.789	96	70-130
trans-1,3-Dichloropropene	5.000	5.767	115	70-130
1,1,2-Trichloroethane	5.000	4.682	94	70-130
Tetrachloroethene	5.000	3.973	79	70-130
2-Hexanone	5.000	4.797 b	96	70-130
Dibromochloromethane	5.000	4.800	96	70-130
1,2-Dibromoethane	5.000	4.511	90	70-130
Chlorobenzene	5.000	5.049	101	70-130
Ethylbenzene	5.000	5.358	107	70-130
m,p-Xylenes	10.00	11.43	114	70-130
o-Xylene	5.000	5.582	112	70-130
Styrene	5.000	4.477 b	90	70-130
Bromoform	5.000	3.042 b	61 *	70-130
1,1,2,2-Tetrachloroethane	5.000	4.296	86	70-130
4-Ethyltoluene	5.000	5.445	109	70-130
1,3,5-Trimethylbenzene	5.000	5.520	110	70-130
1,2,4-Trimethylbenzene	5.000	5.469	109	70-130
1,3-Dichlorobenzene	5.000	4.986	100	70-130
1,4-Dichlorobenzene	5.000	5.052	101	70-130
Benzyl chloride	5.000	4.970	99	70-130
1,2-Dichlorobenzene	5.000	4.894	98	70-130
1,2,4-Trichlorobenzene	5.000	4.571	91	70-130
Hexachlorobutadiene	5.000	4.961	99	70-130
Naphthalene	5.000	4.499	90	70-130

Surrogate	%REC	Limits
Bromofluorobenzene	99	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	263342
Units (V):	ppbv	Analyzed:	09/11/18
Diln Fac:	1.000		

Type: BSD Lab ID: QC947043

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Freon 12	5.000	5.143	103	70-130	1	25
Freon 114	5.000	5.188	104	70-130	3	25
Chloromethane	5.000	4.063	81	70-130	1	25
Vinyl Chloride	5.000	4.543	91	70-130	0	25
Bromomethane	5.000	3.365 b	67 *	70-130	1	25
Chloroethane	5.000	4.390	88	70-130	1	25
Trichlorofluoromethane	5.000	5.021	100	70-130	2	25
Acrolein	5.000	3.136 b	63 *	70-130	9	25
1,1-Dichloroethene	5.000	4.505	90	70-130	4	25
Freon 113	5.000	4.873	97	70-130	2	25
Acetone	5.000	3.703	74	70-130	2	25
Carbon Disulfide	5.000	4.429	89	70-130	1	25
Isopropanol	5.000	4.077	82	70-130	9	25
Methylene Chloride	5.000	4.321	86	70-130	2	25
trans-1,2-Dichloroethene	5.000	5.049	101	70-130	2	25
MTBE	5.000	4.913	98	70-130	2	25
n-Hexane	5.000	3.353 b	67 *	70-130	2	25
1,1-Dichloroethane	5.000	4.930	99	70-130	2	25
Vinyl Acetate	5.000	4.139	83	70-130	2	25
cis-1,2-Dichloroethene	5.000	4.932	99	70-130	3	25
2-Butanone	5.000	3.863	77	70-130	0	25
Ethyl Acetate	5.000	3.845	77	70-130	1	25
Tetrahydrofuran	5.000	6.726	135 *	70-130	3	25
Chloroform	5.000	4.822	96	70-130	2	25
1,1,1-Trichloroethane	5.000	6.427	129	70-130	1	25
Cyclohexane	5.000	6.263	125	70-130	3	25
Carbon Tetrachloride	5.000	5.005	100	70-130	3	25
Benzene	5.000	5.674	113	70-130	1	25
1,2-Dichloroethane	5.000	6.000	120	70-130	6	25
n-Heptane	5.000	6.680	134 *	70-130	2	25
Trichloroethene	5.000	6.284	126	70-130	2	25
1,2-Dichloropropane	5.000	6.583	132 *	70-130	4	25

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

ENTHALPY ANALYTICAL

Batch QC Report

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	263342
Units (V):	ppbv	Analyzed:	09/11/18
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Bromodichloromethane	5.000	6.093	122	70-130	3	25
cis-1,3-Dichloropropene	5.000	6.540	131 *	70-130	4	25
4-Methyl-2-Pentanone	5.000	6.097	122	70-130	5	25
Toluene	5.000	4.726	95	70-130	1	25
trans-1,3-Dichloropropene	5.000	6.235	125	70-130	8	25
1,1,2-Trichloroethane	5.000	4.644	93	70-130	1	25
Tetrachloroethene	5.000	3.805	76	70-130	4	25
2-Hexanone	5.000	4.940 b	99	70-130	3	25
Dibromochloromethane	5.000	4.916	98	70-130	2	25
1,2-Dibromoethane	5.000	4.569	91	70-130	1	25
Chlorobenzene	5.000	4.906	98	70-130	3	25
Ethylbenzene	5.000	5.502	110	70-130	3	25
m,p-Xylenes	10.00	11.26	113	70-130	1	25
o-Xylene	5.000	5.635	113	70-130	1	25
Styrene	5.000	4.509 b	90	70-130	1	25
Bromoform	5.000	3.063 b	61 *	70-130	1	25
1,1,2,2-Tetrachloroethane	5.000	4.333	87	70-130	1	25
4-Ethyltoluene	5.000	5.334	107	70-130	2	25
1,3,5-Trimethylbenzene	5.000	5.348	107	70-130	3	25
1,2,4-Trimethylbenzene	5.000	5.349	107	70-130	2	25
1,3-Dichlorobenzene	5.000	5.000	100	70-130	0	25
1,4-Dichlorobenzene	5.000	5.034	101	70-130	0	25
Benzyl chloride	5.000	4.953	99	70-130	0	25
1,2-Dichlorobenzene	5.000	5.002	100	70-130	2	25
1,2,4-Trichlorobenzene	5.000	4.431	89	70-130	3	25
Hexachlorobutadiene	5.000	4.943	99	70-130	0	25
Naphthalene	5.000	4.417	88	70-130	2	25

Surrogate	%REC	Limits
Bromofluorobenzene	96	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC947044	Diln Fac:	1.000
Matrix:	Air	Batch#:	263342
Units (V):	ppbv	Analyzed:	09/11/18

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	0.50	ND	2.5
Freon 114	ND	0.50	ND	3.5
Chloromethane	ND	0.50	ND	1.0
Vinyl Chloride	ND	0.50	ND	1.3
Bromomethane	ND	0.50	ND	1.9
Chloroethane	ND	0.50	ND	1.3
Trichlorofluoromethane	ND	0.50	ND	2.8
Acrolein	ND	2.0	ND	4.6
1,1-Dichloroethene	ND	0.50	ND	2.0
Freon 113	ND	0.50	ND	3.8
Acetone	ND	5.0	ND	12
Carbon Disulfide	ND	0.50	ND	1.6
Isopropanol	ND	5.0	ND	12
Methylene Chloride	ND	0.50	ND	1.7
trans-1,2-Dichloroethene	ND	0.50	ND	2.0
MTBE	ND	0.50	ND	1.8
n-Hexane	ND	0.50	ND	1.8
1,1-Dichloroethane	ND	0.50	ND	2.0
Vinyl Acetate	ND	0.50	ND	1.8
cis-1,2-Dichloroethene	ND	0.50	ND	2.0
2-Butanone	ND	1.7	ND	4.9
Ethyl Acetate	ND	1.7	ND	6.0
Tetrahydrofuran	ND	0.50	ND	1.5
Chloroform	ND	0.50	ND	2.4
1,1,1-Trichloroethane	ND	0.50	ND	2.7
Cyclohexane	ND	0.50	ND	1.7
Carbon Tetrachloride	ND	0.50	ND	3.1
Benzene	ND	0.50	ND	1.6
1,2-Dichloroethane	ND	0.50	ND	2.0
n-Heptane	ND	0.50	ND	2.0
Trichloroethene	ND	0.50	ND	2.7
1,2-Dichloropropane	ND	0.50	ND	2.3
Bromodichloromethane	ND	0.50	ND	3.4
cis-1,3-Dichloropropene	ND	0.50	ND	2.3
4-Methyl-2-Pentanone	ND	0.50	ND	2.0

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC947044	Diln Fac:	1.000
Matrix:	Air	Batch#:	263342
Units (V):	ppbv	Analyzed:	09/11/18

Analyte	Result (V)	RL	Result (M)	RL
Toluene	ND	0.50	ND	1.9
trans-1,3-Dichloropropene	ND	0.50	ND	2.3
1,1,2-Trichloroethane	ND	0.50	ND	2.7
Tetrachloroethene	ND	0.50	ND	3.4
2-Hexanone	ND	0.50	ND	2.0
Dibromochloromethane	ND	0.50	ND	4.3
1,2-Dibromoethane	ND	0.50	ND	3.8
Chlorobenzene	ND	0.50	ND	2.3
Ethylbenzene	ND	0.50	ND	2.2
m,p-Xylenes	ND	0.50	ND	2.2
o-Xylene	ND	0.50	ND	2.2
Styrene	ND	0.50	ND	2.1
Bromoform	ND	0.50	ND	5.2
1,1,2,2-Tetrachloroethane	ND	0.50	ND	3.4
4-Ethyltoluene	ND	0.50	ND	2.5
1,3,5-Trimethylbenzene	ND	0.50	ND	2.5
1,2,4-Trimethylbenzene	ND	0.50	ND	2.5
1,3-Dichlorobenzene	ND	0.50	ND	3.0
1,4-Dichlorobenzene	ND	0.50	ND	3.0
Benzyl chloride	ND	0.50	ND	2.6
1,2-Dichlorobenzene	ND	0.50	ND	3.0
1,2,4-Trichlorobenzene	ND	0.50	ND	3.7
Hexachlorobutadiene	ND	0.50	ND	5.3
Naphthalene	ND	2.0	ND	10

Surrogate	%REC	Limits
Bromofluorobenzene	98	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	263397
Units (V):	ppbv	Analyzed:	09/12/18
Diln Fac:	1.000		

Type: BS Lab ID: QC947271

Analyte	Spiked	Result (V)		%REC		Limits
Freon 12	1.667	1.807		108		70-130
Freon 114	1.667	1.824		109		70-130
Chloromethane	1.667	1.925		116		70-130
Vinyl Chloride	1.667	1.889		113		70-130
Bromomethane	1.667	1.861		112		70-130
Chloroethane	1.667	2.317	b	139	*	70-130
Trichlorofluoromethane	1.667	1.925		116		70-130
Acrolein	1.667	2.118	b	127		70-130
1,1-Dichloroethene	1.667	1.849		111		70-130
Freon 113	1.667	2.507	b	150	*	70-130
Acetone	1.667	2.240	b	134	*	70-130
Carbon Disulfide	1.667	1.830		110		70-130
Isopropanol	1.667	2.374	b	142	*	70-130
Methylene Chloride	1.667	1.639		98		70-130
trans-1,2-Dichloroethene	1.667	2.216	b	133	*	70-130
MTBE	1.667	2.744	b	165	*	70-130
n-Hexane	1.667	2.262	b	136	*	70-130
1,1-Dichloroethane	1.667	2.202	b	132	*	70-130
Vinyl Acetate	1.667	3.238	b	194	*	70-130
cis-1,2-Dichloroethene	1.667	1.916		115		70-130
2-Butanone	1.667	3.196	b	192	*	70-130
Ethyl Acetate	1.667	3.570	b	214	*	70-130
Tetrahydrofuran	1.667	1.903		114		70-130
Chloroform	1.667	2.070		124		70-130
1,1,1-Trichloroethane	1.667	2.110		127		70-130
Cyclohexane	1.667	2.233	b	134	*	70-130
Carbon Tetrachloride	1.667	2.145		129		70-130
Benzene	1.667	2.013		121		70-130
1,2-Dichloroethane	1.667	1.954		117		70-130
n-Heptane	1.667	2.218	b	133	*	70-130
Trichloroethene	1.667	2.040		122		70-130
1,2-Dichloropropane	1.667	2.149		129		70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	263397
Units (V):	ppbv	Analyzed:	09/12/18
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits
Bromodichloromethane	1.667	2.216 b	133 *	70-130
cis-1,3-Dichloropropene	1.667	2.478 b	149 *	70-130
4-Methyl-2-Pentanone	1.667	2.272 b	136 *	70-130
Toluene	1.667	2.394 b	144 *	70-130
trans-1,3-Dichloropropene	1.667	2.265 b	136 *	70-130
1,1,2-Trichloroethane	1.667	2.965 b	178 *	70-130
Tetrachloroethene	1.667	1.950	117	70-130
2-Hexanone	1.667	2.715 b	163 *	70-130
Dibromochloromethane	1.667	2.616 b	157 *	70-130
1,2-Dibromoethane	1.667	2.704 b	162 *	70-130
Chlorobenzene	1.667	1.866	112	70-130
Ethylbenzene	1.667	2.115	127	70-130
m,p-Xylenes	3.333	3.991	120	70-130
o-Xylene	1.667	2.003	120	70-130
Styrene	1.667	2.180 b	131 *	70-130
Bromoform	1.667	2.716 b	163 *	70-130
1,1,2,2-Tetrachloroethane	1.667	2.143	129	70-130
4-Ethyltoluene	1.667	2.269 b	136 *	70-130
1,3,5-Trimethylbenzene	1.667	2.120	127	70-130
1,2,4-Trimethylbenzene	1.667	2.172	130	70-130
1,3-Dichlorobenzene	1.667	2.434 b	146 *	70-130
1,4-Dichlorobenzene	1.667	2.542 b	153 *	70-130
Benzyl chloride	1.667	2.124	127	70-130
1,2-Dichlorobenzene	1.667	2.324 b	139 *	70-130
1,2,4-Trichlorobenzene	1.667	2.435 b	146 *	70-130
Hexachlorobutadiene	1.667	2.256 b	135 *	70-130
Naphthalene	1.667	2.398 b	144 *	70-130

Surrogate	%REC	Limits
Bromofluorobenzene	108	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	263397
Units (V):	ppbv	Analyzed:	09/12/18
Diln Fac:	1.000		

Type: BSD

Lab ID: QC947272

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Freon 12	1.667	1.797	108	70-130	1	25
Freon 114	1.667	1.727	104	70-130	5	25
Chloromethane	1.667	1.809	109	70-130	6	25
Vinyl Chloride	1.667	1.742	105	70-130	8	25
Bromomethane	1.667	1.669	100	70-130	11	25
Chloroethane	1.667	2.109 b	127	70-130	9	25
Trichlorofluoromethane	1.667	1.898	114	70-130	1	25
Acrolein	1.667	1.381 b	83	70-130	42 *	25
1,1-Dichloroethene	1.667	1.757	105	70-130	5	25
Freon 113	1.667	2.331 b	140 *	70-130	7	25
Acetone	1.667	2.144 b	129	70-130	4	25
Carbon Disulfide	1.667	1.732	104	70-130	6	25
Isopropanol	1.667	2.268 b	136 *	70-130	5	25
Methylene Chloride	1.667	1.577	95	70-130	4	25
trans-1,2-Dichloroethene	1.667	1.998 b	120	70-130	10	25
MTBE	1.667	2.699 b	162 *	70-130	2	25
n-Hexane	1.667	2.313 b	139 *	70-130	2	25
1,1-Dichloroethane	1.667	2.061 b	124	70-130	7	25
Vinyl Acetate	1.667	3.128 b	188 *	70-130	3	25
cis-1,2-Dichloroethene	1.667	1.966	118	70-130	3	25
2-Butanone	1.667	3.313 b	199 *	70-130	4	25
Ethyl Acetate	1.667	3.458 b	207 *	70-130	3	25
Tetrahydrofuran	1.667	1.903	114	70-130	0	25
Chloroform	1.667	2.029	122	70-130	2	25
1,1,1-Trichloroethane	1.667	2.204	132 *	70-130	4	25
Cyclohexane	1.667	2.210 b	133 *	70-130	1	25
Carbon Tetrachloride	1.667	2.277	137 *	70-130	6	25
Benzene	1.667	2.148	129	70-130	6	25
1,2-Dichloroethane	1.667	2.036	122	70-130	4	25
n-Heptane	1.667	2.390 b	143 *	70-130	7	25
Trichloroethene	1.667	2.187	131 *	70-130	7	25
1,2-Dichloropropane	1.667	2.239	134 *	70-130	4	25

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	263397
Units (V):	ppbv	Analyzed:	09/12/18
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Bromodichloromethane	1.667	2.392 b	144 *	70-130	8	25
cis-1,3-Dichloropropene	1.667	2.596 b	156 *	70-130	5	25
4-Methyl-2-Pentanone	1.667	2.453 b	147 *	70-130	8	25
Toluene	1.667	2.179 b	131 *	70-130	9	25
trans-1,3-Dichloropropene	1.667	2.628 b	158 *	70-130	15	25
1,1,2-Trichloroethane	1.667	2.627 b	158 *	70-130	12	25
Tetrachloroethene	1.667	2.074	124	70-130	6	25
2-Hexanone	1.667	2.759 b	166 *	70-130	2	25
Dibromochloromethane	1.667	2.282 b	137 *	70-130	14	25
1,2-Dibromoethane	1.667	2.543 b	153 *	70-130	6	25
Chlorobenzene	1.667	1.825	110	70-130	2	25
Ethylbenzene	1.667	2.043	123	70-130	3	25
m,p-Xylenes	3.333	3.823	115	70-130	4	25
o-Xylene	1.667	1.900	114	70-130	5	25
Styrene	1.667	1.826 b	110	70-130	18	25
Bromoform	1.667	2.586 b	155 *	70-130	5	25
1,1,2,2-Tetrachloroethane	1.667	2.222	133 *	70-130	4	25
4-Ethyltoluene	1.667	2.214 b	133 *	70-130	2	25
1,3,5-Trimethylbenzene	1.667	2.069	124	70-130	2	25
1,2,4-Trimethylbenzene	1.667	2.340	140 *	70-130	7	25
1,3-Dichlorobenzene	1.667	2.338 b	140 *	70-130	4	25
1,4-Dichlorobenzene	1.667	2.433 b	146 *	70-130	4	25
Benzyl chloride	1.667	2.208	132 *	70-130	4	25
1,2-Dichlorobenzene	1.667	2.257 b	135 *	70-130	3	25
1,2,4-Trichlorobenzene	1.667	2.671 b	160 *	70-130	9	25
Hexachlorobutadiene	1.667	2.189 b	131 *	70-130	3	25
Naphthalene	1.667	2.597 b	156 *	70-130	8	25

Surrogate	%REC	Limits
Bromofluorobenzene	101	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC947273	Diln Fac:	1.000
Matrix:	Air	Batch#:	263397
Units (V):	ppbv	Analyzed:	09/13/18

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	0.50	ND	2.5
Freon 114	ND	0.50	ND	3.5
Chloromethane	ND	0.50	ND	1.0
Vinyl Chloride	ND	0.50	ND	1.3
Bromomethane	ND	0.50	ND	1.9
Chloroethane	ND	0.50	ND	1.3
Trichlorofluoromethane	ND	0.50	ND	2.8
Acrolein	ND	2.0	ND	4.6
1,1-Dichloroethene	ND	0.50	ND	2.0
Freon 113	ND	0.50	ND	3.8
Acetone	ND	5.0	ND	12
Carbon Disulfide	ND	0.50	ND	1.6
Isopropanol	ND	5.0	ND	12
Methylene Chloride	ND	0.50	ND	1.7
trans-1,2-Dichloroethene	ND	0.50	ND	2.0
MTBE	ND	0.50	ND	1.8
n-Hexane	ND	0.50	ND	1.8
1,1-Dichloroethane	ND	0.50	ND	2.0
Vinyl Acetate	ND	0.50	ND	1.8
cis-1,2-Dichloroethene	ND	0.50	ND	2.0
2-Butanone	ND	0.50	ND	1.5
Ethyl Acetate	ND	0.50	ND	1.8
Tetrahydrofuran	ND	0.50	ND	1.5
Chloroform	ND	0.50	ND	2.4
1,1,1-Trichloroethane	ND	0.50	ND	2.7
Cyclohexane	ND	0.50	ND	1.7
Carbon Tetrachloride	ND	0.50	ND	3.1
Benzene	ND	0.50	ND	1.6
1,2-Dichloroethane	ND	0.50	ND	2.0
n-Heptane	ND	0.50	ND	2.0
Trichloroethene	ND	0.50	ND	2.7
1,2-Dichloropropane	ND	0.50	ND	2.3
Bromodichloromethane	ND	0.50	ND	3.4
cis-1,3-Dichloropropene	ND	0.50	ND	2.3
4-Methyl-2-Pentanone	ND	0.50	ND	2.0

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC947273	Diln Fac:	1.000
Matrix:	Air	Batch#:	263397
Units (V):	ppbv	Analyzed:	09/13/18

Analyte	Result (V)	RL	Result (M)	RL
Toluene	ND	0.50	ND	1.9
trans-1,3-Dichloropropene	ND	0.50	ND	2.3
1,1,2-Trichloroethane	ND	0.50	ND	2.7
Tetrachloroethene	ND	0.50	ND	3.4
2-Hexanone	ND	0.50	ND	2.0
Dibromochloromethane	ND	0.50	ND	4.3
1,2-Dibromoethane	ND	0.50	ND	3.8
Chlorobenzene	ND	0.50	ND	2.3
Ethylbenzene	ND	0.50	ND	2.2
m,p-Xylenes	ND	0.50	ND	2.2
o-Xylene	ND	0.50	ND	2.2
Styrene	ND	0.50	ND	2.1
Bromoform	ND	0.50	ND	5.2
1,1,2,2-Tetrachloroethane	ND	0.50	ND	3.4
4-Ethyltoluene	ND	0.50	ND	2.5
1,3,5-Trimethylbenzene	ND	0.50	ND	2.5
1,2,4-Trimethylbenzene	ND	0.50	ND	2.5
1,3-Dichlorobenzene	ND	0.50	ND	3.0
1,4-Dichlorobenzene	ND	0.50	ND	3.0
Benzyl chloride	ND	0.50	ND	2.6
1,2-Dichlorobenzene	ND	0.50	ND	3.0
1,2,4-Trichlorobenzene	ND	0.50	ND	3.7
Hexachlorobutadiene	ND	0.50	ND	5.3
Naphthalene	ND	2.0	ND	10

Surrogate	%REC	Limits
Bromofluorobenzene	113	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Fixed Gas Analysis

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Matrix:	Air	Sampled:	09/06/18
Units:	ppmv	Received:	09/06/18
Units (Mol %):	MOL %	Analyzed:	09/07/18
Batch#:	263272		

Field ID: SG4
Type: SAMPLE
Lab ID: 302994-001
Diln Fac: 2.100

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,100	ND	0.21
Carbon Dioxide	35,000	2,100	3.5	0.21
Oxygen	150,000	2,100	15	0.21

Field ID: SG5
Type: SAMPLE
Lab ID: 302994-002
Diln Fac: 1.970

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,000	ND	0.20
Carbon Dioxide	12,000	2,000	1.2	0.20
Oxygen	170,000	2,000	17	0.20

Field ID: SG5-DUP
Type: SAMPLE
Lab ID: 302994-003
Diln Fac: 1.940

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	1,900	ND	0.19
Carbon Dioxide	12,000	1,900	1.2	0.19
Oxygen	170,000	1,900	17	0.19

Type: BLANK
Lab ID: QC946785
Diln Fac: 1.000

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	1,000	ND	0.10
Carbon Dioxide	ND	1,000	ND	0.10
Oxygen	ND	1,000	ND	0.10

ND= Not Detected
RL= Reporting Limit
Result Mol %= Result in Mole Percent

Batch QC Report

Fixed Gas Analysis

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Matrix:	Air	Batch#:	263272
Units:	ppmv	Analyzed:	09/07/18
Diln Fac:	1.000		

Type: BS Lab ID: QC946782

Analyte	Spiked	Result	%REC	Limits
Helium	100,000	76,260	76	70-130
Carbon Dioxide		NA		
Oxygen		NA		

Type: BSD Lab ID: QC946783

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Helium	100,000	76,650	77	70-130	1	30
Carbon Dioxide		NA				
Oxygen		NA				

NA= Not Analyzed
RPD= Relative Percent Difference

Batch QC Report

Fixed Gas Analysis

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC946784	Batch#:	263272
Matrix:	Air	Analyzed:	09/07/18
Units:	ppmv		

Analyte	Spiked	Result	%REC	Limits
Helium		NA		
Carbon Dioxide	2,000	1,837	92	70-130
Oxygen	2,000	1,763	88	70-130

NA= Not Analyzed

Batch QC Report

Fixed Gas Analysis

Lab #:	302994	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Field ID:	ZZZZZZZZZZ	Units (Mol %):	MOL %
Type:	SDUP	Diln Fac:	2.020
MSS Lab ID:	303017-001	Batch#:	263272
Lab ID:	QC946786	Sampled:	09/05/18
Matrix:	Air	Received:	09/07/18
Units:	ppmv	Analyzed:	09/07/18

Analyte	MSS Result	Result	RL	Result (Mol %)	RL	RPD	Lim
Helium	<2,020	ND	2,020	ND	0.2020	NC	30
Carbon Dioxide	11,190	11,180	2,020	1.118	0.2020	0	30
Oxygen	166,700	166,000	2,020	16.60	0.2020	0	20

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit
RPD= Relative Percent Difference
Result Mol %= Result in Mole Percent

ENTHALPY
ANALYTICAL

Enthalpy Analytical
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 304310
ANALYTICAL REPORT

P&D Environmental
55 Santa Clara Avenue
Oakland, CA 94610

Project : 0772
Location : 801 Pine Streets Oakland, Ca.
Level : II

Sample ID	Lab ID
SG-2	304310-001
SG-4	304310-002
SG-5	304310-003
SG-6	304310-004
SG-6 DUP	304310-005
SG-10	304310-006
SG-11	304310-007
SG-12	304310-008
SG-13	304310-009
SG-14	304310-010

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Will Rice
Date: 10/26/2018

Will Rice
Project Manager
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(510) 204-2221 Ext 13102

CA ELAP# 2896, NELAP# 4044-001

CASE NARRATIVE

Laboratory number:	**304310**
Client:	**P&D Environmental**
Project:	**0772**
Location:	**801 Pine Streets Oakland, Ca.**
Request Date:	**10/18/18**
Samples Received:	**10/18/18**

This data package contains sample and QC results for ten air samples, requested for the above referenced project on 10/18/18. The samples were received cold and intact.

Volatile Organics in Air by MS (EPA TO-15):
No analytical problems were encountered.

Volatile Organics in Air GC (ASTM D1946-90):
No analytical problems were encountered.

CHAIN OF CUSTODY RECORD 304310

PAGE 1 OF 2

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME:
THE PHOENIX
801 PINE ST.
OAKLAND

SAMPLED BY: (PRINTED & SIGNATURE) MICHAEL BASS-DESCHENES Michael Bass-Deschenes

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION INIT VACUUM	FINAL VACUUM	SUMMA #	NUMBER OF CONTAINERS	ANALYSIS(ES): VOCs incl. BTEX, PCE, TCE, cis-1,2 DCE, trans-1,2 DCE, and vinyl chloride			CARBON DIOXIDE, OXYGEN AND HELIUM BY ASTM D-1946					PRESERVATIVE	REMARKS
SG-2	10/17/18	123200	SOIL GAS	-30		92	1	X			X					NONE	NORMAL TAT
		124327	"		-5												
SG-4	10/17/18	141540	"	-30		284	1	X			X						" "
		142105			-5												
SG-5	10/17/18	152900	"	-30		166	1	X			X						" "
		153715	"		-5												
SG-6	10/17/18	163830	"	-30		180	1	X			X						" "
		170732	"		-5												
SG-6 DUP	10/17/18	163830	"	-30		304	1	X			X						" "
		170732	"		-5												

RELINQUISHED BY: (SIGNATURE) Michael Bass-Deschenes	DATE 10·18	TIME 17:20	RECEIVED BY: (SIGNATURE)	Total No. of Samples (This Shipment): 9 Total No. of Containers (This Shipment): 9	LABORATORY: ENTHALPY ANALYTICAL
RELINQUISHED BY: (SIGNATURE)	DATE 10·18	TIME 1809	RECEIVED BY: (SIGNATURE)	LABORATORY CONTACT: LAUREN SMITH	LABORATORY PHONE NUMBER: (510) 486-0900
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES [✓ NO]	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: PID (PPM)
SG2: 51
SG4: 3
SG5: 9
SG6: 1

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME:
The Phoenix
801 Pine St.
Oakland

SAMPLED BY: (PRINTED & SIGNATURE) Michael Bass-Deschenes Michael Bass-Deschenes

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION INIT VAC	FINAL VAC	SUMMA #	NUMBER OF CONTAINERS	ANALYSIS(ES): VOCs include BTEX, PCE, TCE, cis-1,2DCE, TRANS-1,2DCE, AND VINYL CHLORIDE	CARBON DIOXIDE, OXYGEN, AND HELIUM BY ASTM-D 1946	PRESERVATIVE	REMARKS
SG-10	10/18/18	091910	Soil Gas	-30		507	1	X	X	NONE	NORMAL TAT
		092825	"		-5						
SG-11	10/18/18	104020	"	-30		519	1	X	X	"	" "
		105010	"		-5						
SG-12	10/18/18	115600	"	-30		279	1	X	X	"	" "
		120737	"		-5						
SG-13	10/18/18	151302	"	-30		509	1	X	X	"	" "
		152731	"		-5						
SG-14	10/18/18	134412	"	-30		340		X	X	"	" "
		135455	"		-5						

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)
Michael Bass-Deschenes	10·18	1720	
	10.18	1809	

RELINQUISHED BY: (SIGNATURE)
DATE
TIME
RECEIVED FOR LABORATORY BY: (SIGNATURE)

Total No. of Samples (This Shipment): 9
Total No. of Containers (This Shipment): 9

LABORATORY: ENTHALPY ANALYTICAL
LABORATORY CONTACT: LAUREN SMITH
LABORATORY PHONE NUMBER: (510) 486-0900

SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES (X) NO

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: PID (PPM)
SG-10 0
SG-11 4
SG-12: 8
SG-13: 13
SG-14: 13

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 304310 Date Received 10/18/18 Number of coolers 0
Client PDE Project 0772

Date Opened 10/18/18 By (print) BNL (sign)
Date Logged in ↓ By (print) ↓ (sign)
Date Labeled ↓ By (print) ↓ (sign)

1. Did cooler come with a shipping slip (airbill, etc) YES [✓ NO]
Shipping info

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☑ NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO [✓ N/A]

3. Were custody papers dry and intact when received? [✓ YES] NO

4. Were custody papers filled out properly (ink, signed, etc)? [✓ YES] NO

5. Is the project identifiable from custody papers? (If so fill out top of form) [✓ YES] NO

6. Indicate the packing in cooler: (if other, describe)

☐ Bubble Wrap ☐ Foam blocks ☐ Bags ☐ None
☐ Cloth material ☑ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☐ Wet ☐ Blue/Gel ☑ None Temp(°C)

☐ Temperature blank(s) included? ☐ Thermometer# ☐ IR Gun#

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES [✓ NO]
If YES, what time were they transferred to freezer?

9. Did all bottles arrive unbroken/unopened? [✓ YES] NO

10. Are there any missing / extra samples? YES [✓ NO]

11. Are samples in the appropriate containers for indicated tests? [✓ YES] NO

12. Are sample labels present, in good condition and complete? [✓ YES] NO

13. Do the sample labels agree with custody papers? [✓ YES] NO

14. Was sufficient amount of sample sent for tests requested? [✓ YES] NO

15. Are the samples appropriately preserved? YES NO [✓ N/A]

16. Did you check preservatives for all bottles for each sample? YES NO [✓ N/A]

17. Did you document your preservative check? (pH strip lot#) YES NO [✓ N/A]

18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO [✓ N/A]

19. Did you change the hold time in LIMS for preserved terracores? YES NO [✓ N/A]

20. Are bubbles > 6mm absent in VOA samples? YES NO [✓ N/A]

21. Was the client contacted concerning this sample delivery? YES [✓ NO]
If YES, Who was called? By Date:

COMMENTS

Detections Summary for 304310

Results for any subcontracted analyses are not included in this summary.

Client : P&D Environmental
Project : 0772
Location : 801 Pine Streets Oakland, Ca.

Client Sample ID : SG-2 Laboratory Sample ID : 304310-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Trichloroethene	110		1.0	ppbv	As Recd	2.050	EPA TO-15	METHOD
Tetrachloroethene	6.6		1.0	ppbv	As Recd	2.050	EPA TO-15	METHOD
Carbon Dioxide	19,000		2,100	ppmv	As Recd	2.050	ASTM D1946-90	METHOD
Oxygen	160,000		2,100	ppmv	As Recd	2.050	ASTM D1946-90	METHOD

Client Sample ID : SG-4 Laboratory Sample ID : 304310-002

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Tetrachloroethene	440		3.2	ppbv	As Recd	6.420	EPA TO-15	METHOD
Carbon Dioxide	28,000		2,100	ppmv	As Recd	2.140	ASTM D1946-90	METHOD
Oxygen	150,000		2,100	ppmv	As Recd	2.140	ASTM D1946-90	METHOD

Client Sample ID : SG-5 Laboratory Sample ID : 304310-003

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Trichloroethene	8.9		1.0	ppbv	As Recd	2.050	EPA TO-15	METHOD
Tetrachloroethene	1.4		1.0	ppbv	As Recd	2.050	EPA TO-15	METHOD
Carbon Dioxide	9,800		2,100	ppmv	As Recd	2.050	ASTM D1946-90	METHOD
Oxygen	170,000		2,100	ppmv	As Recd	2.050	ASTM D1946-90	METHOD

Client Sample ID : SG-6 Laboratory Sample ID : 304310-004

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Trichloroethene	400		2.1	ppbv	As Recd	4.180	EPA TO-15	METHOD
Tetrachloroethene	4.3		2.1	ppbv	As Recd	4.180	EPA TO-15	METHOD
Helium	11,000		2,100	ppmv	As Recd	2.090	ASTM D1946-90	METHOD
Carbon Dioxide	81,000		2,100	ppmv	As Recd	2.090	ASTM D1946-90	METHOD
Oxygen	110,000		2,100	ppmv	As Recd	2.090	ASTM D1946-90	METHOD

Client Sample ID : SG-6 DUP Laboratory Sample ID : 304310-005

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Trichloroethene	390		2.0	ppbv	As Recd	4.080	EPA TO-15	METHOD
Tetrachloroethene	4.4		2.0	ppbv	As Recd	4.080	EPA TO-15	METHOD
Helium	11,000		2,000	ppmv	As Recd	2.040	ASTM D1946-90	METHOD
Carbon Dioxide	81,000		2,000	ppmv	As Recd	2.040	ASTM D1946-90	METHOD
Oxygen	110,000		2,000	ppmv	As Recd	2.040	ASTM D1946-90	METHOD

Client Sample ID : SG-10 Laboratory Sample ID : 304310-006

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Tetrachloroethene	120		0.94	ppbv	As Recd	1.870	EPA TO-15	METHOD
m,p-Xylenes	1.5		0.94	ppbv	As Recd	1.870	EPA TO-15	METHOD
o-Xylene	1.1		0.94	ppbv	As Recd	1.870	EPA TO-15	METHOD
Carbon Dioxide	22,000		1,900	ppmv	As Recd	1.870	ASTM D1946-90	METHOD
Oxygen	160,000		1,900	ppmv	As Recd	1.870	ASTM D1946-90	METHOD

Client Sample ID : SG-11 Laboratory Sample ID : 304310-007

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Tetrachloroethene	170		1.0	ppbv	As Recd	2.070	EPA TO-15	METHOD
Carbon Dioxide	26,000		2,100	ppmv	As Recd	2.070	ASTM D1946-90	METHOD
Oxygen	150,000		2,100	ppmv	As Recd	2.070	ASTM D1946-90	METHOD

Client Sample ID : SG-12 Laboratory Sample ID : 304310-008

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Tetrachloroethene	41		1.0	ppbv	As Recd	2.040	EPA TO-15	METHOD
Carbon Dioxide	24,000		2,000	ppmv	As Recd	2.040	ASTM D1946-90	METHOD
Oxygen	150,000		2,000	ppmv	As Recd	2.040	ASTM D1946-90	METHOD

Client Sample ID : SG-13 Laboratory Sample ID : 304310-009

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Tetrachloroethene	1.2		0.91	ppbv	As Recd	1.810	EPA TO-15	METHOD
Carbon Dioxide	17,000		1,800	ppmv	As Recd	1.810	ASTM D1946-90	METHOD
Oxygen	160,000		1,800	ppmv	As Recd	1.810	ASTM D1946-90	METHOD

Client Sample ID : SG-14 Laboratory Sample ID : 304310-010

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Benzene	2.2		1.0	ppbv	As Recd	2.040	EPA TO-15	METHOD
m,p-Xylenes	2.7		1.0	ppbv	As Recd	2.040	EPA TO-15	METHOD
o-Xylene	1.6		1.0	ppbv	As Recd	2.040	EPA TO-15	METHOD
Carbon Dioxide	100,000		2,000	ppmv	As Recd	2.040	ASTM D1946-90	METHOD
Oxygen	28,000		2,000	ppmv	As Recd	2.040	ASTM D1946-90	METHOD
Methane	8,200		2,000	ppmv	As Recd	2.040	ASTM D1946-90	METHOD

Volatile Organics in Air

Lab #:	304310	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	264859
Units (V):	ppbv	Received:	10/18/18
Units (M):	ug/m3		

Field ID:	SG-2	Diln Fac:	2.050
Type:	SAMPLE	Sampled:	10/17/18
Lab ID:	304310-001	Analyzed:	10/25/18

Analyte	Result (V)	RL	Result (M)	RL
Vinyl Chloride	ND	1.0	ND	2.6
trans-1,2-Dichloroethene	ND	1.0	ND	4.1
cis-1,2-Dichloroethene	ND	1.0	ND	4.1
Benzene	ND	1.0	ND	3.3
Trichloroethene	110	1.0	570	5.5
Toluene	ND	1.0	ND	3.9
Tetrachloroethene	6.6	1.0	45	7.0
Ethylbenzene	ND	1.0	ND	4.5
m,p-Xylenes	ND	1.0	ND	4.5
o-Xylene	ND	1.0	ND	4.5

Surrogate	%REC	Limits
Bromofluorobenzene	97	70-130

Field ID:	SG-4	Diln Fac:	6.420
Type:	SAMPLE	Sampled:	10/17/18
Lab ID:	304310-002	Analyzed:	10/26/18

Analyte	Result (V)	RL	Result (M)	RL
Vinyl Chloride	ND	3.2	ND	8.2
trans-1,2-Dichloroethene	ND	3.2	ND	13
cis-1,2-Dichloroethene	ND	3.2	ND	13
Benzene	ND	3.2	ND	10
Trichloroethene	ND	3.2	ND	17
Toluene	ND	3.2	ND	12
Tetrachloroethene	440	3.2	3,000	22
Ethylbenzene	ND	3.2	ND	14
m,p-Xylenes	ND	3.2	ND	14
o-Xylene	ND	3.2	ND	14

Surrogate	%REC	Limits
Bromofluorobenzene	100	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Volatile Organics in Air

Lab #:	304310	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	264859
Units (V):	ppbv	Received:	10/18/18
Units (M):	ug/m3		

Field ID:	SG-5	Diln Fac:	2.050
Type:	SAMPLE	Sampled:	10/17/18
Lab ID:	304310-003	Analyzed:	10/25/18

Analyte	Result (V)	RL	Result (M)	RL
Vinyl Chloride	ND	1.0	ND	2.6
trans-1,2-Dichloroethene	ND	1.0	ND	4.1
cis-1,2-Dichloroethene	ND	1.0	ND	4.1
Benzene	ND	1.0	ND	3.3
Trichloroethene	8.9	1.0	48	5.5
Toluene	ND	1.0	ND	3.9
Tetrachloroethene	1.4	1.0	9.8	7.0
Ethylbenzene	ND	1.0	ND	4.5
m,p-Xylenes	ND	1.0	ND	4.5
o-Xylene	ND	1.0	ND	4.5

Surrogate	%REC	Limits
Bromofluorobenzene	98	70-130

Field ID:	SG-6	Diln Fac:	4.180
Type:	SAMPLE	Sampled:	10/17/18
Lab ID:	304310-004	Analyzed:	10/26/18

Analyte	Result (V)	RL	Result (M)	RL
Vinyl Chloride	ND	2.1	ND	5.3
trans-1,2-Dichloroethene	ND	2.1	ND	8.3
cis-1,2-Dichloroethene	ND	2.1	ND	8.3
Benzene	ND	2.1	ND	6.7
Trichloroethene	400	2.1	2,100	11
Toluene	ND	2.1	ND	7.9
Tetrachloroethene	4.3	2.1	29	14
Ethylbenzene	ND	2.1	ND	9.1
m,p-Xylenes	ND	2.1	ND	9.1
o-Xylene	ND	2.1	ND	9.1

Surrogate	%REC	Limits
Bromofluorobenzene	103	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Volatile Organics in Air

Lab #:	304310	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	264859
Units (V):	ppbv	Received:	10/18/18
Units (M):	ug/m3		

Field ID: SG-6 DUP
Type: SAMPLE
Lab ID: 304310-005
Diln Fac: 4.080
Sampled: 10/17/18
Analyzed: 10/26/18

Analyte	Result (V)	RL	Result (M)	RL
Vinyl Chloride	ND	2.0	ND	5.2
trans-1,2-Dichloroethene	ND	2.0	ND	8.1
cis-1,2-Dichloroethene	ND	2.0	ND	8.1
Benzene	ND	2.0	ND	6.5
Trichloroethene	390	2.0	2,100	11
Toluene	ND	2.0	ND	7.7
Tetrachloroethene	4.4	2.0	30	14
Ethylbenzene	ND	2.0	ND	8.9
m,p-Xylenes	ND	2.0	ND	8.9
o-Xylene	ND	2.0	ND	8.9

Surrogate	%REC	Limits
Bromofluorobenzene	100	70-130

Field ID: SG-10
Type: SAMPLE
Lab ID: 304310-006
Diln Fac: 1.870
Sampled: 10/18/18
Analyzed: 10/25/18

Analyte	Result (V)	RL	Result (M)	RL
Vinyl Chloride	ND	0.94	ND	2.4
trans-1,2-Dichloroethene	ND	0.94	ND	3.7
cis-1,2-Dichloroethene	ND	0.94	ND	3.7
Benzene	ND	0.94	ND	3.0
Trichloroethene	ND	0.94	ND	5.0
Toluene	ND	0.94	ND	3.5
Tetrachloroethene	120	0.94	810	6.3
Ethylbenzene	ND	0.94	ND	4.1
m,p-Xylenes	1.5	0.94	6.4	4.1
o-Xylene	1.1	0.94	4.9	4.1

Surrogate	%REC	Limits
Bromofluorobenzene	101	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Volatile Organics in Air

Lab #:	304310	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	264859
Units (V):	ppbv	Received:	10/18/18
Units (M):	ug/m3		

Field ID: SG-11
Type: SAMPLE
Lab ID: 304310-007
Diln Fac: 2.070
Sampled: 10/18/18
Analyzed: 10/26/18

Analyte	Result (V)	RL	Result (M)	RL
Vinyl Chloride	ND	1.0	ND	2.6
trans-1,2-Dichloroethene	ND	1.0	ND	4.1
cis-1,2-Dichloroethene	ND	1.0	ND	4.1
Benzene	ND	1.0	ND	3.3
Trichloroethene	ND	1.0	ND	5.6
Toluene	ND	1.0	ND	3.9
Tetrachloroethene	170	1.0	1,100	7.0
Ethylbenzene	ND	1.0	ND	4.5
m,p-Xylenes	ND	1.0	ND	4.5
o-Xylene	ND	1.0	ND	4.5

Surrogate	%REC	Limits
Bromofluorobenzene	94	70-130

Field ID: SG-12
Type: SAMPLE
Lab ID: 304310-008
Diln Fac: 2.040
Sampled: 10/18/18
Analyzed: 10/26/18

Analyte	Result (V)	RL	Result (M)	RL
Vinyl Chloride	ND	1.0	ND	2.6
trans-1,2-Dichloroethene	ND	1.0	ND	4.0
cis-1,2-Dichloroethene	ND	1.0	ND	4.0
Benzene	ND	1.0	ND	3.3
Trichloroethene	ND	1.0	ND	5.5
Toluene	ND	1.0	ND	3.8
Tetrachloroethene	41	1.0	280	6.9
Ethylbenzene	ND	1.0	ND	4.4
m,p-Xylenes	ND	1.0	ND	4.4
o-Xylene	ND	1.0	ND	4.4

Surrogate	%REC	Limits
Bromofluorobenzene	100	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Volatile Organics in Air

Lab #:	304310	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	264859
Units (V):	ppbv	Received:	10/18/18
Units (M):	ug/m3		

Field ID: SG-13
Type: SAMPLE
Lab ID: 304310-009
Diln Fac: 1.810
Sampled: 10/18/18
Analyzed: 10/26/18

Analyte	Result (V)	RL	Result (M)	RL
Vinyl Chloride	ND	0.91	ND	2.3
trans-1,2-Dichloroethene	ND	0.91	ND	3.6
cis-1,2-Dichloroethene	ND	0.91	ND	3.6
Benzene	ND	0.91	ND	2.9
Trichloroethene	ND	0.91	ND	4.9
Toluene	ND	0.91	ND	3.4
Tetrachloroethene	1.2	0.91	8.4	6.1
Ethylbenzene	ND	0.91	ND	3.9
m,p-Xylenes	ND	0.91	ND	3.9
o-Xylene	ND	0.91	ND	3.9

Surrogate	%REC	Limits
Bromofluorobenzene	98	70-130

Field ID: SG-14
Type: SAMPLE
Lab ID: 304310-010
Diln Fac: 2.040
Sampled: 10/18/18
Analyzed: 10/26/18

Analyte	Result (V)	RL	Result (M)	RL
Vinyl Chloride	ND	1.0	ND	2.6
trans-1,2-Dichloroethene	ND	1.0	ND	4.0
cis-1,2-Dichloroethene	ND	1.0	ND	4.0
Benzene	2.2	1.0	6.9	3.3
Trichloroethene	ND	1.0	ND	5.5
Toluene	ND	1.0	ND	3.8
Tetrachloroethene	ND	1.0	ND	6.9
Ethylbenzene	ND	1.0	ND	4.4
m,p-Xylenes	2.7	1.0	12	4.4
o-Xylene	1.6	1.0	6.9	4.4

Surrogate	%REC	Limits
Bromofluorobenzene	109	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Volatile Organics in Air

Lab #:	304310	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	264859
Units (V):	ppbv	Received:	10/18/18
Units (M):	ug/m3		

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC953098	Analyzed:	10/25/18

Analyte	Result (V)	RL	Result (M)	RL
Vinyl Chloride	ND	0.50	ND	1.3
trans-1,2-Dichloroethene	ND	0.50	ND	2.0
cis-1,2-Dichloroethene	ND	0.50	ND	2.0
Benzene	ND	0.50	ND	1.6
Trichloroethene	ND	0.50	ND	2.7
Toluene	ND	0.50	ND	1.9
Tetrachloroethene	ND	0.50	ND	3.4
Ethylbenzene	ND	0.50	ND	2.2
m,p-Xylenes	ND	0.50	ND	2.2
o-Xylene	ND	0.50	ND	2.2

Surrogate	%REC	Limits
Bromofluorobenzene	98	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Batch QC Report

Volatile Organics in Air

Lab #:	304310	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	264859
Units (V):	ppbv	Analyzed:	10/25/18
Diln Fac:	1.000		

Type: BS Lab ID: QC953096

Analyte	Spiked	Result (V)	%REC	Limits
Vinyl Chloride	5.000	5.159	103	70-130
trans-1,2-Dichloroethene	5.000	5.762	115	70-130
cis-1,2-Dichloroethene	5.000	5.222	104	70-130
Benzene	5.000	5.042	101	70-130
Trichloroethene	5.000	5.287	106	70-130
Toluene	5.000	5.296	106	70-130
Tetrachloroethene	5.000	5.374	107	70-130
Ethylbenzene	5.000	5.229	105	70-130
m,p-Xylenes	10.00	10.33	103	70-130
o-Xylene	5.000	5.176	104	70-130

Surrogate	%REC	Limits
Bromofluorobenzene	100	70-130

Type: BSD Lab ID: QC953097

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Vinyl Chloride	5.000	5.229	105	70-130	1	20
trans-1,2-Dichloroethene	5.000	5.840	117	70-130	1	20
cis-1,2-Dichloroethene	5.000	5.277	106	70-130	1	20
Benzene	5.000	4.959	99	70-130	2	20
Trichloroethene	5.000	5.196	104	70-130	2	20
Toluene	5.000	5.084	102	70-130	4	20
Tetrachloroethene	5.000	5.179	104	70-130	4	20
Ethylbenzene	5.000	5.095	102	70-130	3	20
m,p-Xylenes	10.00	10.01	100	70-130	3	32
o-Xylene	5.000	5.181	104	70-130	0	20

Surrogate	%REC	Limits
Bromofluorobenzene	100	70-130

RPD= Relative Percent Difference
Result V= Result in volume units

Fixed Gas Analysis

Lab #: 304310
Client: P&D Environmental
Project#: 0772
Location: 801 Pine Streets Oakland, Ca.
Prep: METHOD
Analysis: ASTM D1946-90

Matrix: Air
Units: ppmv
Units (Mol %): MOL %
Batch#: 264678
Received: 10/18/18
Analyzed: 10/19/18

Field ID: SG-2
Type: SAMPLE
Lab ID: 304310-001
Diln Fac: 2.050
Sampled: 10/17/18

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,100	ND	0.21
Carbon Monoxide	ND	2,100	ND	0.21
Carbon Dioxide	19,000	2,100	1.9	0.21
Oxygen	160,000	2,100	16	0.21
Methane	ND	2,100	ND	0.21

Field ID: SG-4
Type: SAMPLE
Lab ID: 304310-002
Diln Fac: 2.140
Sampled: 10/17/18

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,100	ND	0.21
Carbon Monoxide	ND	2,100	ND	0.21
Carbon Dioxide	28,000	2,100	2.8	0.21
Oxygen	150,000	2,100	15	0.21
Methane	ND	2,100	ND	0.21

Field ID: SG-5
Type: SAMPLE
Lab ID: 304310-003
Diln Fac: 2.050
Sampled: 10/17/18

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,100	ND	0.21
Carbon Monoxide	ND	2,100	ND	0.21
Carbon Dioxide	9,800	2,100	0.98	0.21
Oxygen	170,000	2,100	17	0.21
Methane	ND	2,100	ND	0.21

Field ID: SG-6
Type: SAMPLE
Lab ID: 304310-004
Diln Fac: 2.090
Sampled: 10/17/18

Analyte	Result	RL	Result (Mol %)	RL
Helium	11,000	2,100	1.1	0.21
Carbon Monoxide	ND	2,100	ND	0.21
Carbon Dioxide	81,000	2,100	8.1	0.21
Oxygen	110,000	2,100	11	0.21
Methane	ND	2,100	ND	0.21

ND= Not Detected
RL= Reporting Limit
Result Mol %= Result in Mole Percent

Fixed Gas Analysis

Lab #:	304310	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Matrix:	Air	Batch#:	264678
Units:	ppmv	Received:	10/18/18
Units (Mol %):	MOL %	Analyzed:	10/19/18

Field ID: SG-6 DUP
Type: SAMPLE
Lab ID: 304310-005
Diln Fac: 2.040
Sampled: 10/17/18

Analyte	Result	RL	Result (Mol %)	RL
Helium	11,000	2,000	1.1	0.20
Carbon Monoxide	ND	2,000	ND	0.20
Carbon Dioxide	81,000	2,000	8.1	0.20
Oxygen	110,000	2,000	11	0.20
Methane	ND	2,000	ND	0.20

Field ID: SG-10
Type: SAMPLE
Lab ID: 304310-006
Diln Fac: 1.870
Sampled: 10/18/18

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	1,900	ND	0.19
Carbon Monoxide	ND	1,900	ND	0.19
Carbon Dioxide	22,000	1,900	2.2	0.19
Oxygen	160,000	1,900	16	0.19
Methane	ND	1,900	ND	0.19

Field ID: SG-11
Type: SAMPLE
Lab ID: 304310-007
Diln Fac: 2.070
Sampled: 10/18/18

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,100	ND	0.21
Carbon Monoxide	ND	2,100	ND	0.21
Carbon Dioxide	26,000	2,100	2.6	0.21
Oxygen	150,000	2,100	15	0.21
Methane	ND	2,100	ND	0.21

Field ID: SG-12
Type: SAMPLE
Lab ID: 304310-008
Diln Fac: 2.040
Sampled: 10/18/18

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,000	ND	0.20
Carbon Monoxide	ND	2,000	ND	0.20
Carbon Dioxide	24,000	2,000	2.4	0.20
Oxygen	150,000	2,000	15	0.20
Methane	ND	2,000	ND	0.20

ND= Not Detected
RL= Reporting Limit
Result Mol %= Result in Mole Percent

Fixed Gas Analysis

Lab #:	304310	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Matrix:	Air	Batch#:	264678
Units:	ppmv	Received:	10/18/18
Units (Mol %):	MOL %	Analyzed:	10/19/18

Field ID: SG-13
Type: SAMPLE
Lab ID: 304310-009
Diln Fac: 1.810
Sampled: 10/18/18

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	1,800	ND	0.18
Carbon Monoxide	ND	1,800	ND	0.18
Carbon Dioxide	17,000	1,800	1.7	0.18
Oxygen	160,000	1,800	16	0.18
Methane	ND	1,800	ND	0.18

Field ID: SG-14
Type: SAMPLE
Lab ID: 304310-010
Diln Fac: 2.040
Sampled: 10/18/18

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,000	ND	0.20
Carbon Monoxide	ND	2,000	ND	0.20
Carbon Dioxide	100,000	2,000	10	0.20
Oxygen	28,000	2,000	2.8	0.20
Methane	8,200	2,000	0.82	0.20

Type: BLANK
Lab ID: QC952350
Diln Fac: 1.000

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	1,000	ND	0.10
Carbon Monoxide	ND	1,000	ND	0.10
Carbon Dioxide	ND	1,000	ND	0.10
Oxygen	ND	1,000	ND	0.10
Methane	ND	1,000	ND	0.10

ND= Not Detected
RL= Reporting Limit
Result Mol %= Result in Mole Percent

Batch QC Report

Fixed Gas Analysis

Lab #:	304310	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Matrix:	Air	Batch#:	264678
Units:	ppmv	Analyzed:	10/19/18
Diln Fac:	1.000		

Type: BS Lab ID: QC952347

Analyte	Spiked	Result	%REC	Limits
Helium	100,000	82,400	82	70-130
Carbon Monoxide		NA		
Carbon Dioxide		NA		
Oxygen		NA		
Methane		NA		

Type: BSD Lab ID: QC952348

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Helium	100,000	82,450	82	70-130	0	20
Carbon Monoxide		NA				
Carbon Dioxide		NA				
Oxygen		NA				
Methane		NA				

NA= Not Analyzed
RPD= Relative Percent Difference

Batch QC Report

Fixed Gas Analysis

Lab #:	304310	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC952349	Batch#:	264678
Matrix:	Air	Analyzed:	10/19/18
Units:	ppmv		

Analyte	Spiked	Result	%REC	Limits
Helium	NA			
Carbon Monoxide	2,000	1,849	92	70-130
Carbon Dioxide	2,000	1,839	92	70-130
Oxygen	2,000	1,828	91	70-130
Methane	2,000	1,867	93	70-130

NA= Not Analyzed

Batch QC Report

Fixed Gas Analysis

Lab #:	304310	Location:	801 Pine Streets Oakland, Ca.
Client:	P&D Environmental	Prep:	METHOD
Project#:	0772	Analysis:	ASTM D1946-90
Field ID:	SG-14	Units (Mol %):	MOL %
Type:	SDUP	Diln Fac:	2.040
MSS Lab ID:	304310-010	Batch#:	264678
Lab ID:	QC952351	Sampled:	10/18/18
Matrix:	Air	Received:	10/18/18
Units:	ppmv	Analyzed:	10/19/18

Analyte	MSS Result	Result	RL	Result (Mol %)	RL	RPD	Lim
Helium	<2,040	ND	2,040	ND	0.2040	NC	30
Carbon Monoxide	<2,040	ND	2,040	ND	0.2040	NC	30
Carbon Dioxide	103,600	103,700	2,040	10.37	0.2040	0	30
Oxygen	28,030	28,000	2,040	2.800	0.2040	0	20
Methane	8,242	8,267	2,040	0.8267	0.2040	0	30

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit
RPD= Relative Percent Difference
Result Mol %= Result in Mole Percent

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1812906

Report Created for: P & D Environmental

55 Santa Clara Ave, Ste.240
Oakland, CA 94610

Project Contact: Paul King
Project P.O.:
Project: 0772; The Phoenix

Project Received: 12/17/2018

Analytical Report reviewed & approved for release on 12/27/2018 by:

Christine Askari
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: 0772; The Phoenix
WorkOrder: 1812906

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 μm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Glossary of Terms & Qualifier Definitions

Client:	P & D Environmental
Project:	0772; The Phoenix
WorkOrder:	1812906

Analytical Qualifiers

j1	See attached narrative

Quality Control Qualifiers

F2	LCS/LCSD recovery and/or RPD/RSD is out of acceptance criteria.

Case Narrative

Client: P & D Environmental
Project: 0772; The Phoenix

Work Order: 1812906
December 27, 2018

j1:

TO-15 ANALYSIS

All summa canisters are EVACUATED 5 days after the reporting of the results. Please call or email if a longer retention time is required.

Polymer (Tedlar) bags are not recommended for TO15 samples. The disadvantages are listed in Appendix B of the DTSC Active Soil Gas Advisory of July 2015.

Analytical Report

Client: P & D Environmental
Date Received: 12/17/18 16:30
Date Prepared: 12/21/18
Project: 0772; The Phoenix

WorkOrder: 1812906
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: %

Atmospheric Gases

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 15	**1812906-001A**	**SoilGas**	**12/15/2018 20:49**	**GC26 1221180708.D**	**170426**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.63	**25.28**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Oxygen	**15**	0.40	1	12/21/2018 08:40

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 16	**1812906-002A**	**SoilGas**	**12/15/2018 22:07**	**GC26 1221180710.D**	**170426**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.75	**24.48**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Oxygen	**18**	0.40	1	12/21/2018 09:03

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 17	**1812906-003A**	**SoilGas**	**12/15/2018 23:25**	**GC26 1221180712.D**	**170426**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.23	**24.46**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Oxygen	**17**	0.40	1	12/21/2018 09:24

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	ASTM D 1946-90
Date Prepared:	12/21/18	**Analytical Method:**	ASTM D 1946-90
Project:	0772; The Phoenix	**Unit:**	%

Atmospheric Gases

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 20	**1812906-004A**	**SoilGas**	**12/15/2018 18:59**	**GC26 1221180714.D**	**170426**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.72	**29.35**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Oxygen	**18**	0.40	1	12/21/2018 09:47

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 20 DUP	**1812906-005A**	**SoilGas**	**12/15/2018 18:59**	**GC26 1221180716.D**	**170426**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.57	**29.13**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Oxygen	**18**	0.40	1	12/21/2018 10:08

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	ASTM D 1946-90
Date Prepared:	12/20/18	**Analytical Method:**	ASTM D 1946-90
Project:	0772; The Phoenix	**Unit:**	%

Helium

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 15	**1812906-001A**	**SoilGas**	**12/15/2018 20:49**	**GC26 1220180224.D**	**170417**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.63	**25.28**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Helium	ND	0.050	1	12/20/2018 17:42

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 16	**1812906-002A**	**SoilGas**	**12/15/2018 22:07**	**GC26 1220180226.D**	**170417**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.75	**24.48**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Helium	ND	0.050	1	12/20/2018 17:55

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 17	**1812906-003A**	**SoilGas**	**12/15/2018 23:25**	**GC26 1220180228.D**	**170417**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.23	**24.46**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Helium	ND	0.050	1	12/20/2018 18:08

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	ASTM D 1946-90
Date Prepared:	12/20/18	**Analytical Method:**	ASTM D 1946-90
Project:	0772; The Phoenix	**Unit:**	%

Helium

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 20	**1812906-004A**	**SoilGas**	**12/15/2018 18:59**	**GC26 1220180230.D**	**170417**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.72	**29.35**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Helium	ND	0.050	1	12/20/2018 18:20

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 20 DUP	**1812906-005A**	**SoilGas**	**12/15/2018 18:59**	**GC26 1220180232.D**	**170417**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.57	**29.13**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Helium	ND	0.050	1	12/20/2018 18:33

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	ASTM D 1946-90
Date Prepared:	12/21/18	**Analytical Method:**	ASTM D 1946-90
Project:	0772; The Phoenix	**Unit:**	%

Light Gases

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 15	**1812906-001A**	**SoilGas**	**12/15/2018 20:49**	**GC26 1221180106.D**	**170623**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.63	**25.28**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	**5.1**	0.080	20	12/21/2018 14:01

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 16	**1812906-002A**	**SoilGas**	**12/15/2018 22:07**	**GC26 1221180108.D**	**170623**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.75	**24.48**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	**0.82**	0.080	20	12/21/2018 14:24

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 17	**1812906-003A**	**SoilGas**	**12/15/2018 23:25**	**GC26 1221180110.D**	**170623**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.23	**24.46**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	**0.99**	0.080	20	12/21/2018 14:45

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	ASTM D 1946-90
Date Prepared:	12/21/18	**Analytical Method:**	ASTM D 1946-90
Project:	0772; The Phoenix	**Unit:**	%

Light Gases

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 20	**1812906-004A**	**SoilGas**	**12/15/2018 18:59**	**GC26 1221180112.D**	**170623**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.72	**29.35**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	**2.6**	0.080	20	12/21/2018 15:06

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 20 DUP	**1812906-005A**	**SoilGas**	**12/15/2018 18:59**	**GC26 1221180114.D**	**170623**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.57	**29.13**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	**2.5**	0.080	20	12/21/2018 15:27

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 15	**1812906-001A**	**SoilGas**	**12/15/2018 20:49**	**GC24 12211827.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.63	**25.28**	**AK**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	12/22/2018 10:18
Acrolein	ND	5.8	1	12/22/2018 10:18
Acrylonitrile	ND	1.1	1	12/22/2018 10:18
tert-Amyl methyl ether (TAME)	ND	2.1	1	12/22/2018 10:18
Benzene	ND	1.6	1	12/22/2018 10:18
Benzyl chloride	ND	2.6	1	12/22/2018 10:18
Bromodichloromethane	ND	3.5	1	12/22/2018 10:18
Bromoform	ND	5.2	1	12/22/2018 10:18
Bromomethane	ND	2.0	1	12/22/2018 10:18
1,3-Butadiene	ND	1.1	1	12/22/2018 10:18
2-Butanone (MEK)	ND	75	1	12/22/2018 10:18
t-Butyl alcohol (TBA)	ND	31	1	12/22/2018 10:18
Carbon Disulfide	**4.2**	1.6	1	12/22/2018 10:18
Carbon Tetrachloride	ND	3.2	1	12/22/2018 10:18
Chlorobenzene	ND	2.4	1	12/22/2018 10:18
Chloroethane	ND	1.3	1	12/22/2018 10:18
Chloroform	ND	2.4	1	12/22/2018 10:18
Chloromethane	ND	1.0	1	12/22/2018 10:18
Cyclohexane	ND	18	1	12/22/2018 10:18
Dibromochloromethane	ND	4.4	1	12/22/2018 10:18
1,2-Dibromo-3-chloropropane	ND	0.12	1	12/22/2018 10:18
1,2-Dibromoethane (EDB)	ND	3.9	1	12/22/2018 10:18
1,2-Dichlorobenzene	ND	3.0	1	12/22/2018 10:18
1,3-Dichlorobenzene	ND	3.0	1	12/22/2018 10:18
1,4-Dichlorobenzene	ND	3.0	1	12/22/2018 10:18
Dichlorodifluoromethane	ND	2.5	1	12/22/2018 10:18
1,1-Dichloroethane	ND	2.0	1	12/22/2018 10:18
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	12/22/2018 10:18
1,1-Dichloroethene	ND	2.0	1	12/22/2018 10:18
cis-1,2-Dichloroethene	ND	2.0	1	12/22/2018 10:18
trans-1,2-Dichloroethene	ND	2.0	1	12/22/2018 10:18
1,2-Dichloropropane	ND	2.4	1	12/22/2018 10:18
cis-1,3-Dichloropropene	ND	2.3	1	12/22/2018 10:18
trans-1,3-Dichloropropene	ND	2.3	1	12/22/2018 10:18

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 15	**1812906-001A**	**SoilGas**	**12/15/2018 20:49**	**GC24 12211827.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.63	**25.28**	**AK**

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	12/22/2018 10:18
Diisopropyl ether (DIPE)	ND	2.1	1	12/22/2018 10:18
1,4-Dioxane	ND	1.8	1	12/22/2018 10:18
Ethanol	ND	96	1	12/22/2018 10:18
Ethyl acetate	ND	1.8	1	12/22/2018 10:18
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	12/22/2018 10:18
Ethylbenzene	ND	2.2	1	12/22/2018 10:18
4-Ethyltoluene	ND	2.5	1	12/22/2018 10:18
Freon 113	ND	3.9	1	12/22/2018 10:18
Heptane	ND	21	1	12/22/2018 10:18
Hexachlorobutadiene	ND	5.4	1	12/22/2018 10:18
Hexane	ND	18	1	12/22/2018 10:18
2-Hexanone	ND	2.1	1	12/22/2018 10:18
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	12/22/2018 10:18
Methyl-t-butyl ether (MTBE)	ND	1.8	1	12/22/2018 10:18
Methylene chloride	ND	8.8	1	12/22/2018 10:18
Methyl methacrylate	ND	2.1	1	12/22/2018 10:18
Naphthalene	ND	5.3	1	12/22/2018 10:18
Propene	ND	88	1	12/22/2018 10:18
Styrene	ND	2.2	1	12/22/2018 10:18
1,1,1,2-Tetrachloroethane	ND	3.5	1	12/22/2018 10:18
1,1,2,2-Tetrachloroethane	ND	3.5	1	12/22/2018 10:18
Tetrachloroethene	ND	3.4	1	12/22/2018 10:18
Tetrahydrofuran	ND	3.0	1	12/22/2018 10:18
Toluene	ND	1.9	1	12/22/2018 10:18
1,2,4-Trichlorobenzene	ND	3.8	1	12/22/2018 10:18
1,1,1-Trichloroethane	ND	2.8	1	12/22/2018 10:18
1,1,2-Trichloroethane	ND	2.8	1	12/22/2018 10:18
Trichloroethene	ND	2.8	1	12/22/2018 10:18
Trichlorofluoromethane	ND	2.8	1	12/22/2018 10:18
1,2,4-Trimethylbenzene	ND	2.5	1	12/22/2018 10:18
1,3,5-Trimethylbenzene	ND	2.5	1	12/22/2018 10:18
Vinyl Acetate	ND	18	1	12/22/2018 10:18
Vinyl Chloride	ND	1.3	1	12/22/2018 10:18

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 15	**1812906-001A**	**SoilGas**	**12/15/2018 20:49**	**GC24 12211827.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.63	**25.28**	**AK**

Analytes	Result	RL	DF	Date Analyzed
m,p-Xylene	ND	4.4	1	12/22/2018 10:18
o-Xylene	ND	2.2	1	12/22/2018 10:18
Xylenes, Total	ND	2.2	1	12/22/2018 10:18

Surrogates	REC (%)	Limits	
1,2-DCA-d4	89	70-130	12/22/2018 10:18
Toluene-d8	99	70-130	12/22/2018 10:18
4-BFB	99	70-130	12/22/2018 10:18

Analytical Comments: j1

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 16	**1812906-002A**	**SoilGas**	**12/15/2018 22:07**	**GC24 12211828.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.75	**24.48**	**AK**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	12/22/2018 10:59
Acrolein	ND	5.8	1	12/22/2018 10:59
Acrylonitrile	ND	1.1	1	12/22/2018 10:59
tert-Amyl methyl ether (TAME)	ND	2.1	1	12/22/2018 10:59
Benzene	ND	1.6	1	12/22/2018 10:59
Benzyl chloride	ND	2.6	1	12/22/2018 10:59
Bromodichloromethane	ND	3.5	1	12/22/2018 10:59
Bromoform	ND	5.2	1	12/22/2018 10:59
Bromomethane	ND	2.0	1	12/22/2018 10:59
1,3-Butadiene	ND	1.1	1	12/22/2018 10:59
2-Butanone (MEK)	ND	75	1	12/22/2018 10:59
t-Butyl alcohol (TBA)	ND	31	1	12/22/2018 10:59
Carbon Disulfide	ND	1.6	1	12/22/2018 10:59
Carbon Tetrachloride	ND	3.2	1	12/22/2018 10:59
Chlorobenzene	ND	2.4	1	12/22/2018 10:59
Chloroethane	ND	1.3	1	12/22/2018 10:59
Chloroform	ND	2.4	1	12/22/2018 10:59
Chloromethane	ND	1.0	1	12/22/2018 10:59
Cyclohexane	ND	18	1	12/22/2018 10:59
Dibromochloromethane	ND	4.4	1	12/22/2018 10:59
1,2-Dibromo-3-chloropropane	ND	0.12	1	12/22/2018 10:59
1,2-Dibromoethane (EDB)	ND	3.9	1	12/22/2018 10:59
1,2-Dichlorobenzene	ND	3.0	1	12/22/2018 10:59
1,3-Dichlorobenzene	ND	3.0	1	12/22/2018 10:59
1,4-Dichlorobenzene	ND	3.0	1	12/22/2018 10:59
Dichlorodifluoromethane	ND	2.5	1	12/22/2018 10:59
1,1-Dichloroethane	ND	2.0	1	12/22/2018 10:59
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	12/22/2018 10:59
1,1-Dichloroethene	ND	2.0	1	12/22/2018 10:59
cis-1,2-Dichloroethene	ND	2.0	1	12/22/2018 10:59
trans-1,2-Dichloroethene	ND	2.0	1	12/22/2018 10:59
1,2-Dichloropropane	ND	2.4	1	12/22/2018 10:59
cis-1,3-Dichloropropene	ND	2.3	1	12/22/2018 10:59
trans-1,3-Dichloropropene	ND	2.3	1	12/22/2018 10:59

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 16	**1812906-002A**	**SoilGas**	**12/15/2018 22:07**	**GC24 12211828.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.75	**24.48**	**AK**

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	12/22/2018 10:59
Diisopropyl ether (DIPE)	ND	2.1	1	12/22/2018 10:59
1,4-Dioxane	ND	1.8	1	12/22/2018 10:59
Ethanol	ND	96	1	12/22/2018 10:59
Ethyl acetate	ND	1.8	1	12/22/2018 10:59
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	12/22/2018 10:59
Ethylbenzene	ND	2.2	1	12/22/2018 10:59
4-Ethyltoluene	ND	2.5	1	12/22/2018 10:59
Freon 113	ND	3.9	1	12/22/2018 10:59
Heptane	ND	21	1	12/22/2018 10:59
Hexachlorobutadiene	ND	5.4	1	12/22/2018 10:59
Hexane	ND	18	1	12/22/2018 10:59
2-Hexanone	ND	2.1	1	12/22/2018 10:59
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	12/22/2018 10:59
Methyl-t-butyl ether (MTBE)	ND	1.8	1	12/22/2018 10:59
Methylene chloride	ND	8.8	1	12/22/2018 10:59
Methyl methacrylate	ND	2.1	1	12/22/2018 10:59
Naphthalene	ND	5.3	1	12/22/2018 10:59
Propene	ND	88	1	12/22/2018 10:59
Styrene	ND	2.2	1	12/22/2018 10:59
1,1,1,2-Tetrachloroethane	ND	3.5	1	12/22/2018 10:59
1,1,2,2-Tetrachloroethane	ND	3.5	1	12/22/2018 10:59
Tetrachloroethene	ND	3.4	1	12/22/2018 10:59
Tetrahydrofuran	ND	3.0	1	12/22/2018 10:59
Toluene	ND	1.9	1	12/22/2018 10:59
1,2,4-Trichlorobenzene	ND	3.8	1	12/22/2018 10:59
1,1,1-Trichloroethane	ND	2.8	1	12/22/2018 10:59
1,1,2-Trichloroethane	ND	2.8	1	12/22/2018 10:59
Trichloroethene	ND	2.8	1	12/22/2018 10:59
Trichlorofluoromethane	ND	2.8	1	12/22/2018 10:59
1,2,4-Trimethylbenzene	ND	2.5	1	12/22/2018 10:59
1,3,5-Trimethylbenzene	ND	2.5	1	12/22/2018 10:59
Vinyl Acetate	ND	18	1	12/22/2018 10:59
Vinyl Chloride	ND	1.3	1	12/22/2018 10:59

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 16	**1812906-002A**	**SoilGas**	**12/15/2018 22:07**	**GC24 12211828.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.75	**24.48**	**AK**

Analytes	Result	RL	DF	Date Analyzed
m,p-Xylene	ND	4.4	1	12/22/2018 10:59
o-Xylene	ND	2.2	1	12/22/2018 10:59
Xylenes, Total	ND	2.2	1	12/22/2018 10:59

Surrogates	REC (%)	Limits		
1,2-DCA-d4	91	70-130		12/22/2018 10:59
Toluene-d8	100	70-130		12/22/2018 10:59
4-BFB	99	70-130		12/22/2018 10:59

Analytical Comments: j1

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 17	**1812906-003A**	**SoilGas**	**12/15/2018 23:25**	**GC24 12211829.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.23	**24.46**	**AK**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	12/22/2018 11:39
Acrolein	ND	5.8	1	12/22/2018 11:39
Acrylonitrile	ND	1.1	1	12/22/2018 11:39
tert-Amyl methyl ether (TAME)	ND	2.1	1	12/22/2018 11:39
Benzene	ND	1.6	1	12/22/2018 11:39
Benzyl chloride	ND	2.6	1	12/22/2018 11:39
Bromodichloromethane	ND	3.5	1	12/22/2018 11:39
Bromoform	ND	5.2	1	12/22/2018 11:39
Bromomethane	ND	2.0	1	12/22/2018 11:39
1,3-Butadiene	ND	1.1	1	12/22/2018 11:39
2-Butanone (MEK)	ND	75	1	12/22/2018 11:39
t-Butyl alcohol (TBA)	ND	31	1	12/22/2018 11:39
Carbon Disulfide	ND	1.6	1	12/22/2018 11:39
Carbon Tetrachloride	ND	3.2	1	12/22/2018 11:39
Chlorobenzene	ND	2.4	1	12/22/2018 11:39
Chloroethane	ND	1.3	1	12/22/2018 11:39
Chloroform	**20**	2.4	1	12/22/2018 11:39
Chloromethane	ND	1.0	1	12/22/2018 11:39
Cyclohexane	ND	18	1	12/22/2018 11:39
Dibromochloromethane	ND	4.4	1	12/22/2018 11:39
1,2-Dibromo-3-chloropropane	ND	0.12	1	12/22/2018 11:39
1,2-Dibromoethane (EDB)	ND	3.9	1	12/22/2018 11:39
1,2-Dichlorobenzene	ND	3.0	1	12/22/2018 11:39
1,3-Dichlorobenzene	ND	3.0	1	12/22/2018 11:39
1,4-Dichlorobenzene	ND	3.0	1	12/22/2018 11:39
Dichlorodifluoromethane	**2.6**	2.5	1	12/22/2018 11:39
1,1-Dichloroethane	ND	2.0	1	12/22/2018 11:39
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	12/22/2018 11:39
1,1-Dichloroethene	ND	2.0	1	12/22/2018 11:39
cis-1,2-Dichloroethene	ND	2.0	1	12/22/2018 11:39
trans-1,2-Dichloroethene	ND	2.0	1	12/22/2018 11:39
1,2-Dichloropropane	ND	2.4	1	12/22/2018 11:39
cis-1,3-Dichloropropene	ND	2.3	1	12/22/2018 11:39
trans-1,3-Dichloropropene	ND	2.3	1	12/22/2018 11:39

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 17	**1812906-003A**	**SoilGas**	**12/15/2018 23:25**	**GC24 12211829.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.23	**24.46**	**AK**

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	12/22/2018 11:39
Diisopropyl ether (DIPE)	ND	2.1	1	12/22/2018 11:39
1,4-Dioxane	ND	1.8	1	12/22/2018 11:39
Ethanol	ND	96	1	12/22/2018 11:39
Ethyl acetate	ND	1.8	1	12/22/2018 11:39
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	12/22/2018 11:39
Ethylbenzene	ND	2.2	1	12/22/2018 11:39
4-Ethyltoluene	ND	2.5	1	12/22/2018 11:39
Freon 113	ND	3.9	1	12/22/2018 11:39
Heptane	ND	21	1	12/22/2018 11:39
Hexachlorobutadiene	ND	5.4	1	12/22/2018 11:39
Hexane	**60**	18	1	12/22/2018 11:39
2-Hexanone	ND	2.1	1	12/22/2018 11:39
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	12/22/2018 11:39
Methyl-t-butyl ether (MTBE)	ND	1.8	1	12/22/2018 11:39
Methylene chloride	ND	8.8	1	12/22/2018 11:39
Methyl methacrylate	ND	2.1	1	12/22/2018 11:39
Naphthalene	ND	5.3	1	12/22/2018 11:39
Propene	ND	88	1	12/22/2018 11:39
Styrene	ND	2.2	1	12/22/2018 11:39
1,1,1,2-Tetrachloroethane	ND	3.5	1	12/22/2018 11:39
1,1,2,2-Tetrachloroethane	ND	3.5	1	12/22/2018 11:39
Tetrachloroethene	ND	3.4	1	12/22/2018 11:39
Tetrahydrofuran	ND	3.0	1	12/22/2018 11:39
Toluene	ND	1.9	1	12/22/2018 11:39
1,2,4-Trichlorobenzene	ND	3.8	1	12/22/2018 11:39
1,1,1-Trichloroethane	ND	2.8	1	12/22/2018 11:39
1,1,2-Trichloroethane	ND	2.8	1	12/22/2018 11:39
Trichloroethene	ND	2.8	1	12/22/2018 11:39
Trichlorofluoromethane	ND	2.8	1	12/22/2018 11:39
1,2,4-Trimethylbenzene	ND	2.5	1	12/22/2018 11:39
1,3,5-Trimethylbenzene	ND	2.5	1	12/22/2018 11:39
Vinyl Acetate	ND	18	1	12/22/2018 11:39
Vinyl Chloride	ND	1.3	1	12/22/2018 11:39

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 17	**1812906-003A**	**SoilGas**	**12/15/2018 23:25**	**GC24 12211829.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.23	**24.46**	**AK**

Analytes	Result	RL	DF	Date Analyzed
m,p-Xylene	ND	4.4	1	12/22/2018 11:39
o-Xylene	ND	2.2	1	12/22/2018 11:39
Xylenes, Total	ND	2.2	1	12/22/2018 11:39

Surrogates	REC (%)	Limits	Date Analyzed
1,2-DCA-d4	92	70-130	12/22/2018 11:39
Toluene-d8	100	70-130	12/22/2018 11:39
4-BFB	99	70-130	12/22/2018 11:39

Analytical Comments: j1

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 20	**1812906-004A**	**SoilGas**	**12/15/2018 18:59**	**GC24 12211830.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.72	**29.35**	**AK**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	12/22/2018 12:20
Acrolein	ND	5.8	1	12/22/2018 12:20
Acrylonitrile	ND	1.1	1	12/22/2018 12:20
tert-Amyl methyl ether (TAME)	ND	2.1	1	12/22/2018 12:20
Benzene	ND	1.6	1	12/22/2018 12:20
Benzyl chloride	ND	2.6	1	12/22/2018 12:20
Bromodichloromethane	ND	3.5	1	12/22/2018 12:20
Bromoform	ND	5.2	1	12/22/2018 12:20
Bromomethane	ND	2.0	1	12/22/2018 12:20
1,3-Butadiene	ND	1.1	1	12/22/2018 12:20
2-Butanone (MEK)	ND	75	1	12/22/2018 12:20
t-Butyl alcohol (TBA)	ND	31	1	12/22/2018 12:20
Carbon Disulfide	ND	1.6	1	12/22/2018 12:20
Carbon Tetrachloride	ND	3.2	1	12/22/2018 12:20
Chlorobenzene	ND	2.4	1	12/22/2018 12:20
Chloroethane	ND	1.3	1	12/22/2018 12:20
Chloroform	ND	2.4	1	12/22/2018 12:20
Chloromethane	ND	1.0	1	12/22/2018 12:20
Cyclohexane	ND	18	1	12/22/2018 12:20
Dibromochloromethane	ND	4.4	1	12/22/2018 12:20
1,2-Dibromo-3-chloropropane	ND	0.12	1	12/22/2018 12:20
1,2-Dibromoethane (EDB)	ND	3.9	1	12/22/2018 12:20
1,2-Dichlorobenzene	ND	3.0	1	12/22/2018 12:20
1,3-Dichlorobenzene	ND	3.0	1	12/22/2018 12:20
1,4-Dichlorobenzene	ND	3.0	1	12/22/2018 12:20
Dichlorodifluoromethane	ND	2.5	1	12/22/2018 12:20
1,1-Dichloroethane	ND	2.0	1	12/22/2018 12:20
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	12/22/2018 12:20
1,1-Dichloroethene	ND	2.0	1	12/22/2018 12:20
cis-1,2-Dichloroethene	ND	2.0	1	12/22/2018 12:20
trans-1,2-Dichloroethene	ND	2.0	1	12/22/2018 12:20
1,2-Dichloropropane	ND	2.4	1	12/22/2018 12:20
cis-1,3-Dichloropropene	ND	2.3	1	12/22/2018 12:20
trans-1,3-Dichloropropene	ND	2.3	1	12/22/2018 12:20

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 20	**1812906-004A**	**SoilGas**	**12/15/2018 18:59**	**GC24 12211830.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.72	**29.35**	**AK**

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	12/22/2018 12:20
Diisopropyl ether (DIPE)	ND	2.1	1	12/22/2018 12:20
1,4-Dioxane	ND	1.8	1	12/22/2018 12:20
Ethanol	ND	96	1	12/22/2018 12:20
Ethyl acetate	ND	1.8	1	12/22/2018 12:20
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	12/22/2018 12:20
Ethylbenzene	ND	2.2	1	12/22/2018 12:20
4-Ethyltoluene	ND	2.5	1	12/22/2018 12:20
Freon 113	ND	3.9	1	12/22/2018 12:20
Heptane	ND	21	1	12/22/2018 12:20
Hexachlorobutadiene	ND	5.4	1	12/22/2018 12:20
Hexane	ND	18	1	12/22/2018 12:20
2-Hexanone	ND	2.1	1	12/22/2018 12:20
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	12/22/2018 12:20
Methyl-t-butyl ether (MTBE)	ND	1.8	1	12/22/2018 12:20
Methylene chloride	ND	8.8	1	12/22/2018 12:20
Methyl methacrylate	ND	2.1	1	12/22/2018 12:20
Naphthalene	ND	5.3	1	12/22/2018 12:20
Propene	ND	88	1	12/22/2018 12:20
Styrene	ND	2.2	1	12/22/2018 12:20
1,1,1,2-Tetrachloroethane	ND	3.5	1	12/22/2018 12:20
1,1,2,2-Tetrachloroethane	ND	3.5	1	12/22/2018 12:20
Tetrachloroethene	ND	3.4	1	12/22/2018 12:20
Tetrahydrofuran	ND	3.0	1	12/22/2018 12:20
Toluene	ND	1.9	1	12/22/2018 12:20
1,2,4-Trichlorobenzene	ND	3.8	1	12/22/2018 12:20
1,1,1-Trichloroethane	ND	2.8	1	12/22/2018 12:20
1,1,2-Trichloroethane	ND	2.8	1	12/22/2018 12:20
Trichloroethene	ND	2.8	1	12/22/2018 12:20
Trichlorofluoromethane	ND	2.8	1	12/22/2018 12:20
1,2,4-Trimethylbenzene	ND	2.5	1	12/22/2018 12:20
1,3,5-Trimethylbenzene	ND	2.5	1	12/22/2018 12:20
Vinyl Acetate	ND	18	1	12/22/2018 12:20
Vinyl Chloride	ND	1.3	1	12/22/2018 12:20

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 20	**1812906-004A**	**SoilGas**	**12/15/2018 18:59**	**GC24 12211830.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.72	**29.35**	**AK**

Analytes	Result	RL	DF	Date Analyzed
m,p-Xylene	ND	4.4	1	12/22/2018 12:20
o-Xylene	ND	2.2	1	12/22/2018 12:20
Xylenes, Total	ND	2.2	1	12/22/2018 12:20

Surrogates	REC (%)	Limits	Date Analyzed
1,2-DCA-d4	92	70-130	12/22/2018 12:20
Toluene-d8	100	70-130	12/22/2018 12:20
4-BFB	99	70-130	12/22/2018 12:20

Analytical Comments: j1

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 20 DUP	**1812906-005A**	**SoilGas**	**12/15/2018 18:59**	**GC24 12211826.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.57	**29.13**	**AK**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	12/22/2018 09:38
Acrolein	ND	5.8	1	12/22/2018 09:38
Acrylonitrile	ND	1.1	1	12/22/2018 09:38
tert-Amyl methyl ether (TAME)	ND	2.1	1	12/22/2018 09:38
Benzene	ND	1.6	1	12/22/2018 09:38
Benzyl chloride	ND	2.6	1	12/22/2018 09:38
Bromodichloromethane	ND	3.5	1	12/22/2018 09:38
Bromoform	ND	5.2	1	12/22/2018 09:38
Bromomethane	ND	2.0	1	12/22/2018 09:38
1,3-Butadiene	ND	1.1	1	12/22/2018 09:38
2-Butanone (MEK)	ND	75	1	12/22/2018 09:38
t-Butyl alcohol (TBA)	ND	31	1	12/22/2018 09:38
Carbon Disulfide	ND	1.6	1	12/22/2018 09:38
Carbon Tetrachloride	ND	3.2	1	12/22/2018 09:38
Chlorobenzene	ND	2.4	1	12/22/2018 09:38
Chloroethane	ND	1.3	1	12/22/2018 09:38
Chloroform	ND	2.4	1	12/22/2018 09:38
Chloromethane	ND	1.0	1	12/22/2018 09:38
Cyclohexane	ND	18	1	12/22/2018 09:38
Dibromochloromethane	ND	4.4	1	12/22/2018 09:38
1,2-Dibromo-3-chloropropane	ND	0.12	1	12/22/2018 09:38
1,2-Dibromoethane (EDB)	ND	3.9	1	12/22/2018 09:38
1,2-Dichlorobenzene	ND	3.0	1	12/22/2018 09:38
1,3-Dichlorobenzene	ND	3.0	1	12/22/2018 09:38
1,4-Dichlorobenzene	ND	3.0	1	12/22/2018 09:38
Dichlorodifluoromethane	ND	2.5	1	12/22/2018 09:38
1,1-Dichloroethane	ND	2.0	1	12/22/2018 09:38
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	12/22/2018 09:38
1,1-Dichloroethene	ND	2.0	1	12/22/2018 09:38
cis-1,2-Dichloroethene	ND	2.0	1	12/22/2018 09:38
trans-1,2-Dichloroethene	ND	2.0	1	12/22/2018 09:38
1,2-Dichloropropane	ND	2.4	1	12/22/2018 09:38
cis-1,3-Dichloropropene	ND	2.3	1	12/22/2018 09:38
trans-1,3-Dichloropropene	ND	2.3	1	12/22/2018 09:38

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 20 DUP	1812906-005A	SoilGas	12/15/2018 18:59	GC24 12211826.D	170549

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.57	29.13	AK

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	12/22/2018 09:38
Diisopropyl ether (DIPE)	ND	2.1	1	12/22/2018 09:38
1,4-Dioxane	ND	1.8	1	12/22/2018 09:38
Ethanol	ND	96	1	12/22/2018 09:38
Ethyl acetate	ND	1.8	1	12/22/2018 09:38
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	12/22/2018 09:38
Ethylbenzene	ND	2.2	1	12/22/2018 09:38
4-Ethyltoluene	ND	2.5	1	12/22/2018 09:38
Freon 113	ND	3.9	1	12/22/2018 09:38
Heptane	ND	21	1	12/22/2018 09:38
Hexachlorobutadiene	ND	5.4	1	12/22/2018 09:38
Hexane	ND	18	1	12/22/2018 09:38
2-Hexanone	ND	2.1	1	12/22/2018 09:38
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	12/22/2018 09:38
Methyl-t-butyl ether (MTBE)	ND	1.8	1	12/22/2018 09:38
Methylene chloride	ND	8.8	1	12/22/2018 09:38
Methyl methacrylate	ND	2.1	1	12/22/2018 09:38
Naphthalene	ND	5.3	1	12/22/2018 09:38
Propene	ND	88	1	12/22/2018 09:38
Styrene	ND	2.2	1	12/22/2018 09:38
1,1,1,2-Tetrachloroethane	ND	3.5	1	12/22/2018 09:38
1,1,2,2-Tetrachloroethane	ND	3.5	1	12/22/2018 09:38
Tetrachloroethene	ND	3.4	1	12/22/2018 09:38
Tetrahydrofuran	ND	3.0	1	12/22/2018 09:38
Toluene	ND	1.9	1	12/22/2018 09:38
1,2,4-Trichlorobenzene	ND	3.8	1	12/22/2018 09:38
1,1,1-Trichloroethane	ND	2.8	1	12/22/2018 09:38
1,1,2-Trichloroethane	ND	2.8	1	12/22/2018 09:38
Trichloroethene	ND	2.8	1	12/22/2018 09:38
Trichlorofluoromethane	ND	2.8	1	12/22/2018 09:38
1,2,4-Trimethylbenzene	ND	2.5	1	12/22/2018 09:38
1,3,5-Trimethylbenzene	ND	2.5	1	12/22/2018 09:38
Vinyl Acetate	ND	18	1	12/22/2018 09:38
Vinyl Chloride	ND	1.3	1	12/22/2018 09:38

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 20 DUP	**1812906-005A**	**SoilGas**	**12/15/2018 18:59**	**GC24 12211826.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
14.57	**29.13**	**AK**

Analytes	Result	RL	DF	Date Analyzed
m,p-Xylene	ND	4.4	1	12/22/2018 09:38
o-Xylene	ND	2.2	1	12/22/2018 09:38
Xylenes, Total	ND	2.2	1	12/22/2018 09:38

Surrogates	REC (%)	Limits	
1,2-DCA-d4	89	70-130	12/22/2018 09:38
Toluene-d8	100	70-130	12/22/2018 09:38
4-BFB	100	70-130	12/22/2018 09:38

Analytical Comments: j1

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Prepared:	12/21/18	**BatchID:**	170426
Date Analyzed:	12/21/18	**Extraction Method:**	ASTM D 1946-90
Instrument:	GC26	**Analytical Method:**	ASTM D 1946-90
Matrix:	SoilGas	**Unit:**	%
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170426

QC Summary Report for ASTM D1946-90

Analyte	MB Result	RL			
Oxygen	ND	0.20	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Oxygen	1.9	1.9	2.1	89	88	70-130	0.558	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Prepared:	12/20/18	**BatchID:**	170417
Date Analyzed:	12/20/18	**Extraction Method:**	ASTM D 1946-90
Instrument:	GC26	**Analytical Method:**	ASTM D 1946-90
Matrix:	Soilgas	**Unit:**	%
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170417

QC Summary Report for ASTM D1946-90

Analyte	MB Result	RL			
Helium	ND	0.025	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Helium	0.11	0.11	0.10	106	107	60-140	0.466	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Prepared:	12/21/18	**BatchID:**	170623
Date Analyzed:	12/21/18	**Extraction Method:**	ASTM D 1946-90
Instrument:	GC26	**Analytical Method:**	ASTM D 1946-90
Matrix:	SoilGas	**Unit:**	%
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170623

QC Summary Report for ASTM D1946-90

Analyte	MB Result	RL			
Carbon Dioxide	ND	0.0020	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Carbon Dioxide	0.012	0.012	0.010	124	124	70-130	0	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Prepared:	12/21/18 - 12/22/18	**BatchID:**	170549
Date Analyzed:	12/21/18 - 12/22/18	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170549

QC Summary Report for TO15

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	30	-	-	-
Acrolein	ND	2.9	-	-	-
Acrylonitrile	ND	0.55	-	-	-
tert-Amyl methyl ether (TAME)	ND	1.0	-	-	-
Benzene	ND	0.80	-	-	-
Benzyl chloride	ND	1.3	-	-	-
Bromodichloromethane	ND	1.8	-	-	-
Bromoform	ND	2.6	-	-	-
Bromomethane	ND	1.0	-	-	-
1,3-Butadiene	ND	0.55	-	-	-
2-Butanone (MEK)	ND	38	-	-	-
t-Butyl alcohol (TBA)	ND	16	-	-	-
Carbon Disulfide	ND	0.80	-	-	-
Carbon Tetrachloride	ND	1.6	-	-	-
Chlorobenzene	ND	1.2	-	-	-
Chloroethane	ND	0.65	-	-	-
Chloroform	ND	1.2	-	-	-
Chloromethane	ND	0.50	-	-	-
Cyclohexane	ND	9.0	-	-	-
Dibromochloromethane	ND	2.2	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.060	-	-	-
1,2-Dibromoethane (EDB)	ND	2.0	-	-	-
1,2-Dichlorobenzene	ND	1.5	-	-	-
1,3-Dichlorobenzene	ND	1.5	-	-	-
1,4-Dichlorobenzene	ND	1.5	-	-	-
Dichlorodifluoromethane	ND	1.2	-	-	-
1,1-Dichloroethane	ND	1.0	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	1.0	-	-	-
1,1-Dichloroethene	ND	1.0	-	-	-
cis-1,2-Dichloroethene	ND	1.0	-	-	-
trans-1,2-Dichloroethene	ND	1.0	-	-	-
1,2-Dichloropropane	ND	1.2	-	-	-
cis-1,3-Dichloropropene	ND	1.2	-	-	-
trans-1,3-Dichloropropene	ND	1.2	-	-	-
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	1.8	-	-	-
Diisopropyl ether (DIPE)	ND	1.0	-	-	-
1,4-Dioxane	ND	0.90	-	-	-
Ethanol	ND	48	-	-	-

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Prepared:	12/21/18 - 12/22/18	**BatchID:**	170549
Date Analyzed:	12/21/18 - 12/22/18	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170549

QC Summary Report for TO15

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Ethyl acetate	ND	0.90	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	1.0	-	-	-
Ethylbenzene	ND	1.1	-	-	-
4-Ethyltoluene	ND	1.2	-	-	-
Freon 113	ND	2.0	-	-	-
Heptane	ND	10	-	-	-
Hexachlorobutadiene	ND	2.7	-	-	-
Hexane	ND	9.0	-	-	-
2-Hexanone	ND	1.0	-	-	-
Isopropyl Alcohol	ND	25	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	1.0	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.90	-	-	-
Methylene chloride	ND	4.4	-	-	-
Methyl methacrylate	ND	1.0	-	-	-
Naphthalene	ND	2.6	-	-	-
Propene	ND	44	-	-	-
Styrene	ND	1.1	-	-	-
1,1,1,2-Tetrachloroethane	ND	1.8	-	-	-
1,1,2,2-Tetrachloroethane	ND	1.8	-	-	-
Tetrachloroethene	ND	1.7	-	-	-
Tetrahydrofuran	ND	1.5	-	-	-
Toluene	ND	0.95	-	-	-
1,2,4-Trichlorobenzene	ND	1.9	-	-	-
1,1,1-Trichloroethane	ND	1.4	-	-	-
1,1,2-Trichloroethane	ND	1.4	-	-	-
Trichloroethene	ND	1.4	-	-	-
Trichlorofluoromethane	ND	1.4	-	-	-
1,2,4-Trimethylbenzene	ND	1.2	-	-	-
1,3,5-Trimethylbenzene	ND	1.2	-	-	-
Vinyl Acetate	ND	9.0	-	-	-
Vinyl Chloride	ND	0.65	-	-	-
m,p-Xylene	ND	2.2	-	-	-
o-Xylene	ND	1.1	-	-	-
Xylenes, Total	ND	1.1	-	-	-

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Prepared:	12/21/18 - 12/22/18	**BatchID:**	170549
Date Analyzed:	12/21/18 - 12/22/18	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170549

QC Summary Report for TO15

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery					
1,2-DCA-d4	430		500	86	70-130
Toluene-d8	500		500	100	70-130
4-BFB	490		500	99	70-130

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Prepared:	12/21/18 - 12/22/18	**BatchID:**	170549
Date Analyzed:	12/21/18 - 12/22/18	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170549

QC Summary Report for TO15

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	6.2	6.5	6	104	108	60-140	3.66	30
Acrolein	5.6	5.6	5.8	96	97	60-140	0.410	30
Acrylonitrile	5.4	5.1	5.5	98	94	60-140	4.35	30
tert-Amyl methyl ether (TAME)	10	10	10.5	95	97	60-140	1.55	30
Benzene	7.6	7.7	8	95	96	60-140	1.21	30
Benzyl chloride	7.6	7.7	13.3	57, F2	58, F2	60-140	1.75	30
Bromodichloromethane	15	15	17.5	85	88	60-140	3.37	30
Bromoform	22	22	26.3	83	83	60-140	0	30
Bromomethane	8.8	9.3	9.8	90	95	60-140	5.12	30
1,3-Butadiene	4.8	5.5	5.5	88	100	60-140	12.8	30
2-Butanone (MEK)	7.3	7.6	7.5	97	102	60-140	4.24	30
t-Butyl alcohol (TBA)	7.5	7.8	7.8	96	100	60-140	3.42	30
Carbon Disulfide	7.6	7.6	8	95	95	60-140	0	30
Carbon Tetrachloride	13	13	16	83	84	60-140	1.41	30
Chlorobenzene	12	12	11.8	100	101	60-140	0.921	30
Chloroethane	6.9	7.1	6.8	101	105	60-140	3.54	30
Chloroform	12	12	12.3	96	98	60-140	2.05	30
Chloromethane	5.2	5.4	5.3	98	102	60-140	3.73	30
Cyclohexane	8.8	9.0	8.8	100	103	60-140	2.17	30
Dibromochloromethane	19	20	21.8	89	90	60-140	1.59	30
1,2-Dibromo-3-chloropropane	22	22	24.5	88	88	60-140	0	30
1,2-Dibromoethane (EDB)	18	18	19.5	93	93	60-140	0	30
1,2-Dichlorobenzene	15	14	15.3	100	93	60-140	7.34	30
1,3-Dichlorobenzene	14	15	15.3	94	95	60-140	1.38	30
1,4-Dichlorobenzene	14	14	15.3	92	93	60-140	0.887	30
Dichlorodifluoromethane	13	13	12.5	102	103	60-140	1.18	30
1,1-Dichloroethane	9.8	10	10.3	95	98	60-140	3.09	30
1,2-Dichloroethane (1,2-DCA)	9.4	9.6	10.3	91	93	60-140	2.21	30
1,1-Dichloroethene	11	11	10	105	107	60-140	1.79	30
cis-1,2-Dichloroethene	9.8	10	10	98	102	60-140	3.45	30
trans-1,2-Dichloroethene	9.9	10	10	99	101	60-140	1.53	30
1,2-Dichloropropane	11	11	11.8	94	94	60-140	0	30
cis-1,3-Dichloropropene	9.8	10	11.5	86	87	60-140	1.22	30
trans-1,3-Dichloropropene	9.0	9.2	11.5	78	80	60-140	1.67	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane	18	19	17.8	103	106	60-140	2.66	30
Diisopropyl ether (DIPE)	11	12	10.5	108	110	60-140	1.92	30
1,4-Dioxane	8.2	8.3	9.3	89	90	60-140	1.22	30
Ethanol	4.7	5.0	4.8	98	105	60-140	6.62	30

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Prepared:	12/21/18 - 12/22/18	**BatchID:**	170549
Date Analyzed:	12/21/18 - 12/22/18	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170549

QC Summary Report for TO15

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Ethyl acetate	8.7	8.7	9.3	93	94	60-140	0.850	30
Ethyl tert-butyl ether (ETBE)	11	11	10.5	100	103	60-140	2.24	30
Ethylbenzene	10	10	11	94	94	60-140	0	30
4-Ethyltoluene	12	12	12.5	96	97	60-140	0.821	30
Freon 113	20	20	19.5	102	105	60-140	2.56	30
Heptane	10	10	10.5	95	97	60-140	1.77	30
Hexachlorobutadiene	24	25	27	91	92	60-140	1.23	30
Hexane	9.5	9.8	9	105	108	60-140	2.68	30
2-Hexanone	8.4	8.5	10.5	80	81	60-140	0.673	30
Isopropyl Alcohol	5.7	5.8	6.3	90	92	60-140	1.99	30
4-Methyl-2-pentanone (MIBK)	9.4	9.5	10.5	90	91	60-140	1.31	30
Methyl-t-butyl ether (MTBE)	8.9	9.0	9.3	96	97	60-140	1.46	30
Methylene chloride	8.7	8.9	8.8	99	101	60-140	2.28	30
Methyl methacrylate	9.0	9.0	10.4	86	86	60-140	0	30
Naphthalene	23	23	26.5	87	88	60-140	1.60	30
Propene	4.6	4.7	4.3	107	109	60-140	2.20	30
Styrene	9.3	9.5	10.8	86	88	60-140	2.26	30
1,1,1,2-Tetrachloroethane	16	16	17.5	93	94	60-140	0.851	30
1,1,2,2-Tetrachloroethane	16	16	17.5	93	94	60-140	1.30	30
Tetrachloroethene	17	17	17.2	98	99	60-140	0.732	30
Tetrahydrofuran	7.3	7.5	7.5	98	100	60-140	2.02	30
Toluene	9.2	9.3	9.5	97	98	60-140	1.29	30
1,2,4-Trichlorobenzene	16	16	18.8	85	86	60-140	1.04	30
1,1,1-Trichloroethane	12	12	13.8	87	89	60-140	2.01	30
1,1,2-Trichloroethane	13	13	13.8	95	97	60-140	1.71	30
Trichloroethene	13	13	13.8	96	97	60-140	1.55	30
Trichlorofluoromethane	14	14	14.3	98	100	60-140	2.32	30
1,2,4-Trimethylbenzene	12	12	12.5	95	96	60-140	1.36	30
1,3,5-Trimethylbenzene	12	12	12.5	97	99	60-140	2.03	30
Vinyl Acetate	8.4	8.4	9	93	94	60-140	0.111	30
Vinyl Chloride	5.1	5.5	6.5	79	85	60-140	6.74	30
m,p-Xylene	22	23	22	102	105	60-140	2.75	30
o-Xylene	11	11	11	98	98	60-140	0	30
Xylenes, Total	33	34	33	101	103	60-140	2.05	30

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812906
Date Prepared:	12/21/18 - 12/22/18	**BatchID:**	170549
Date Analyzed:	12/21/18 - 12/22/18	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170549

QC Summary Report for TO15

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
1,2-DCA-d4	470	470	500	93	93	70-130	0	30
Toluene-d8	500	510	500	100	102	70-130	1.45	30
4-BFB	500	510	500	100	102	70-130	2.30	30

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1812906 **ClientCode: PDEO**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ▨ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
▨ Detection Summary ▨ Dry-Weight

Report to:
Paul King
P & D Environmental
55 Santa Clara Ave, Ste.240
Oakland, CA 94610
(510) 658-6916 FAX: 510-834-0152

Email: lab@pdenviro.com; Paul.King@pdenviro.c
cc/3rd Party:
PO:
Project: 0772; The Phoenix

Bill to:
Accounts Payable
P & D Environmental
55 Santa Clara Ave, Ste.240
Oakland, CA 94610

Requested TAT: **5 days;**

Date Received: **12/17/2018**
Date Logged: **12/18/2018**

					Requested Tests (See legend below)											
Lab ID	**Client ID**	**Matrix**	**Collection Date**	**Hold**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
1812906-001	SG 15	SoilGas	12/15/2018 20:49	☐	A	A	A	A	A							
1812906-002	SG 16	SoilGas	12/15/2018 22:07	☐	A	A	A	A	A							
1812906-003	SG 17	SoilGas	12/15/2018 23:25	☐	A	A	A	A	A							
1812906-004	SG 20	SoilGas	12/15/2018 18:59	☐	A	A	A	A	A							
1812906-005	SG 20 DUP	SoilGas	12/15/2018 18:59	☐	A	A	A	A	A							

Test Legend:

1	**ATMOSPHERICGAS_SG(%)**	**2**	**HELIUM_LC_SOILGAS(%)**	**3**	**LG_SUMMA_SOILGAS(%)**	**4**	**TO15_Scan-SIM_SOIL(UG/M3) [N]**
5	**TO15-8260_SOIL(UG/M3) [N]**	**6**		**7**		**8**	
9		**10**		**11**		**12**	

Prepared by: Kena Ponce

The following SampIDs: 001A, 002A, 003A, 004A, 005A contain testgroup TO15He_O2_CO2_SG.

Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL

Project: 0772; The Phoenix

Work Order: 1812906

Client Contact: Paul King

QC Level: LEVEL 2

Contact's Email: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

Date Logged: 12/18/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ▨ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1812906-001A	SG 15	SoilGas	TO15 w/ Helium, O2, CO2	1	1L Summa	☐	12/15/2018 20:49	5 days		☐	
1812906-002A	SG 16	SoilGas	TO15 w/ Helium, O2, CO2	1	1L Summa	☐	12/15/2018 22:07	5 days		☐	
1812906-003A	SG 17	SoilGas	TO15 w/ Helium, O2, CO2	1	1L Summa	☐	12/15/2018 23:25	5 days		☐	
1812906-004A	SG 20	SoilGas	TO15 w/ Helium, O2, CO2	1	1L Summa	☐	12/15/2018 18:59	5 days		☐	
1812906-005A	SG 20 DUP	SoilGas	TO15 w/ Helium, O2, CO2	1	1L Summa	☐	12/15/2018 18:59	5 days		☐	

NOTES:
- **STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**
- **MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.**

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME: The Phoenix
801 Pine St
Oakland, CA

SAMPLED BY: (PRINTED & SIGNATURE) Paul H. King Paul H. King

1812906

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION Initial Vac Final Vac Summa# PID	NUMBER OF CONTAINERS	ANALYSIS(ES): VOCs by TO-15	CO2, O2, He by ASTM D-1946							PRESERVATIVE	REMARKS
SG 15	12/15/18	20:49	Soil Gas	-29.5 2004-2668	1	X	X							None	Normal TAT
				-5 4											
SG 16	12/15/18	22:07	"	-29.5 1998-2625	1	X	X							"	" "
				-5 7											
SG 17	12/15/18	23:25	"	-29.5 2031-2655	1	X	X							"	" "
				-5 4											
SG 20	12/15/18	18:59	"	-29.5 1958-2589	1	X	X							"	" "
				-5 3											
SG 20 DUP	12/15/18	18:59	"	-29.5 1988-2615	1	X	X							"	" "
				-5 3											

RELINQUISHED BY: (SIGNATURE) Paul H. King	DATE 12/17/18	TIME 0945	RECEIVED BY: (SIGNATURE) UHP 12/17/18 0945	Total No. of Samples (This Shipment) 5 Total No. of Containers (This Shipment) 5	LABORATORY: McCampbell Analytical
RELINQUISHED BY: (SIGNATURE) UHP	DATE 12/17/18	TIME 1630	RECEIVED BY: (SIGNATURE)	LABORATORY CONTACT: Angela Rydelius	LABORATORY PHONE NUMBER: (925) 252-9262
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES (X) NO	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: PID values are in ppmv after sample collection. PID calibrated with a 100 ppmv isobutylene standard.
Detection Limits to be equal to or less than Feb 2016 SFRWQCB Residential Soil gas ESLs.

Sample Receipt Checklist

Client Name:	**P & D Environmental**	Date and Time Received	**12/17/2018 16:30**
Project:	**0772; The Phoenix**	Date Logged:	**12/18/2018**
		Received by:	Kena Ponce
WorkOrder №:	**1812906** Matrix: SoilGas	Logged by:	Kena Ponce
Carrier:	Lorenzo Perez (MAI Courier)		

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Sample IDs noted by Client on COC?	Yes ☑	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐	
Sampler's name noted on COC?	Yes ☑	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	NA ☐
Samples Received on Ice?	Yes ☐	No ☑	
Sample/Temp Blank temperature	Temp:		NA ☑
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
UCMR Samples:			
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes ☐	No ☐	NA ☑

Comments:

McCampbell Analytical, Inc.
"When Quality Counts"

Analytical Report

WorkOrder: 1812907

Report Created for: P & D Environmental

55 Santa Clara Ave, Ste.240
Oakland, CA 94610

Project Contact: Paul King
Project P.O.:
Project: 0772; The Phoenix

Project Received: 12/17/2018

Analytical Report reviewed & approved for release on 12/27/2018 by:

Christine Askari
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
CA ELAP 1644 ♦ NELAP 4033 ORELAP

Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: 0772; The Phoenix
WorkOrder: 1812907

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 μm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: 0772; The Phoenix
WorkOrder: 1812907

Analytical Qualifiers

j1	See attached narrative

Quality Control Qualifiers

F2	LCS/LCSD recovery and/or RPD/RSD is out of acceptance criteria.

Case Narrative

Client: P & D Environmental
Project: 0772; The Phoenix
Work Order: 1812907
December 27, 2018

j1:

TO-15 ANALYSIS

All summa canisters are EVACUATED 5 days after the reporting of the results. Please call or email if a longer retention time is required.

Polymer (Tedlar) bags are not recommended for TO15 samples. The disadvantages are listed in Appendix B of the DTSC Active Soil Gas Advisory of July 2015.

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Received:	12/17/18 16:30	**Extraction Method:**	ASTM D 1946-90
Date Prepared:	12/21/18	**Analytical Method:**	ASTM D 1946-90
Project:	0772; The Phoenix	**Unit:**	%

Atmospheric Gases

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 18	**1812907-001A**	**SoilGas**	**12/10/2018 15:08**	**GC26 1221180718.D**	**170426**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.38	**24.69**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Oxygen	**14**	0.40	1	12/21/2018 10:33

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Received:	12/17/18 16:30	**Extraction Method:**	ASTM D 1946-90
Date Prepared:	12/20/18	**Analytical Method:**	ASTM D 1946-90
Project:	0772; The Phoenix	**Unit:**	%

Helium

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 18	**1812907-001A**	**SoilGas**	**12/10/2018 15:08**	**GC26 1220180234.D**	**170417**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.38	**24.69**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Helium	ND	0.050	1	12/20/2018 18:46

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Received:	12/17/18 16:30	**Extraction Method:**	ASTM D 1946-90
Date Prepared:	12/21/18	**Analytical Method:**	ASTM D 1946-90
Project:	0772; The Phoenix	**Unit:**	%

Light Gases

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 18	**1812907-001A**	**SoilGas**	**12/10/2018 15:08**	**GC26 1221180116.D**	**170623**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.38	**24.69**	**HK**

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	**8.3**	0.080	20	12/21/2018 15:48

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 18	**1812907-001A**	**SoilGas**	**12/10/2018 15:08**	**GC24 12211817.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.38	**24.69**	**AK**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	12/22/2018 03:43
Acrolein	ND	5.8	1	12/22/2018 03:43
Acrylonitrile	ND	1.1	1	12/22/2018 03:43
tert-Amyl methyl ether (TAME)	ND	2.1	1	12/22/2018 03:43
Benzene	ND	1.6	1	12/22/2018 03:43
Benzyl chloride	ND	2.6	1	12/22/2018 03:43
Bromodichloromethane	ND	3.5	1	12/22/2018 03:43
Bromoform	ND	5.2	1	12/22/2018 03:43
Bromomethane	ND	2.0	1	12/22/2018 03:43
1,3-Butadiene	ND	1.1	1	12/22/2018 03:43
2-Butanone (MEK)	ND	75	1	12/22/2018 03:43
t-Butyl alcohol (TBA)	ND	31	1	12/22/2018 03:43
Carbon Disulfide	ND	1.6	1	12/22/2018 03:43
Carbon Tetrachloride	ND	3.2	1	12/22/2018 03:43
Chlorobenzene	ND	2.4	1	12/22/2018 03:43
Chloroethane	ND	1.3	1	12/22/2018 03:43
Chloroform	ND	2.4	1	12/22/2018 03:43
Chloromethane	ND	1.0	1	12/22/2018 03:43
Cyclohexane	ND	18	1	12/22/2018 03:43
Dibromochloromethane	ND	4.4	1	12/22/2018 03:43
1,2-Dibromo-3-chloropropane	ND	0.12	1	12/22/2018 03:43
1,2-Dibromoethane (EDB)	ND	3.9	1	12/22/2018 03:43
1,2-Dichlorobenzene	ND	3.0	1	12/22/2018 03:43
1,3-Dichlorobenzene	ND	3.0	1	12/22/2018 03:43
1,4-Dichlorobenzene	ND	3.0	1	12/22/2018 03:43
Dichlorodifluoromethane	ND	2.5	1	12/22/2018 03:43
1,1-Dichloroethane	ND	2.0	1	12/22/2018 03:43
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	12/22/2018 03:43
1,1-Dichloroethene	ND	2.0	1	12/22/2018 03:43
cis-1,2-Dichloroethene	ND	2.0	1	12/22/2018 03:43
trans-1,2-Dichloroethene	ND	2.0	1	12/22/2018 03:43
1,2-Dichloropropane	ND	2.4	1	12/22/2018 03:43
cis-1,3-Dichloropropene	ND	2.3	1	12/22/2018 03:43
trans-1,3-Dichloropropene	ND	2.3	1	12/22/2018 03:43

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 18	1812907-001A	SoilGas	12/10/2018 15:08	GC24 12211817.D	170549

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.38	24.69	AK

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	12/22/2018 03:43
Diisopropyl ether (DIPE)	ND	2.1	1	12/22/2018 03:43
1,4-Dioxane	ND	1.8	1	12/22/2018 03:43
Ethanol	ND	96	1	12/22/2018 03:43
Ethyl acetate	ND	1.8	1	12/22/2018 03:43
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	12/22/2018 03:43
Ethylbenzene	ND	2.2	1	12/22/2018 03:43
4-Ethyltoluene	ND	2.5	1	12/22/2018 03:43
Freon 113	ND	3.9	1	12/22/2018 03:43
Heptane	ND	21	1	12/22/2018 03:43
Hexachlorobutadiene	ND	5.4	1	12/22/2018 03:43
Hexane	ND	18	1	12/22/2018 03:43
2-Hexanone	ND	2.1	1	12/22/2018 03:43
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	12/22/2018 03:43
Methyl-t-butyl ether (MTBE)	ND	1.8	1	12/22/2018 03:43
Methylene chloride	ND	8.8	1	12/22/2018 03:43
Methyl methacrylate	ND	2.1	1	12/22/2018 03:43
Naphthalene	ND	5.3	1	12/22/2018 03:43
Propene	ND	88	1	12/22/2018 03:43
Styrene	ND	2.2	1	12/22/2018 03:43
1,1,1,2-Tetrachloroethane	ND	3.5	1	12/22/2018 03:43
1,1,2,2-Tetrachloroethane	ND	3.5	1	12/22/2018 03:43
Tetrachloroethene	ND	3.4	1	12/22/2018 03:43
Tetrahydrofuran	ND	3.0	1	12/22/2018 03:43
Toluene	ND	1.9	1	12/22/2018 03:43
1,2,4-Trichlorobenzene	ND	3.8	1	12/22/2018 03:43
1,1,1-Trichloroethane	ND	2.8	1	12/22/2018 03:43
1,1,2-Trichloroethane	ND	2.8	1	12/22/2018 03:43
Trichloroethene	ND	2.8	1	12/22/2018 03:43
Trichlorofluoromethane	ND	2.8	1	12/22/2018 03:43
1,2,4-Trimethylbenzene	ND	2.5	1	12/22/2018 03:43
1,3,5-Trimethylbenzene	ND	2.5	1	12/22/2018 03:43
Vinyl Acetate	ND	18	1	12/22/2018 03:43
Vinyl Chloride	ND	1.3	1	12/22/2018 03:43

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Received:	12/17/18 16:30	**Extraction Method:**	TO15
Date Prepared:	12/22/18	**Analytical Method:**	TO15
Project:	0772; The Phoenix	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG 18	**1812907-001A**	**SoilGas**	**12/10/2018 15:08**	**GC24 12211817.D**	**170549**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.38	**24.69**	**AK**

Analytes	Result	RL	DF	Date Analyzed
m,p-Xylene	ND	4.4	1	12/22/2018 03:43
o-Xylene	ND	2.2	1	12/22/2018 03:43
Xylenes, Total	ND	2.2	1	12/22/2018 03:43

Surrogates	REC (%)	Limits		
1,2-DCA-d4	92	70-130		12/22/2018 03:43
Toluene-d8	100	70-130		12/22/2018 03:43
4-BFB	99	70-130		12/22/2018 03:43

Analytical Comments: j1

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Prepared:	12/21/18	**BatchID:**	170426
Date Analyzed:	12/21/18	**Extraction Method:**	ASTM D 1946-90
Instrument:	GC26	**Analytical Method:**	ASTM D 1946-90
Matrix:	SoilGas	**Unit:**	%
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170426

QC Summary Report for ASTM D1946-90

Analyte	MB Result	RL			
Oxygen	ND	0.20	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Oxygen	1.9	1.9	2.1	89	88	70-130	0.558	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Prepared:	12/20/18	**BatchID:**	170417
Date Analyzed:	12/20/18	**Extraction Method:**	ASTM D 1946-90
Instrument:	GC26	**Analytical Method:**	ASTM D 1946-90
Matrix:	Soilgas	**Unit:**	%
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170417

QC Summary Report for ASTM D1946-90

Analyte	MB Result	RL			
Helium	ND	0.025	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Helium	0.11	0.11	0.10	106	107	60-140	0.466	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Prepared:	12/21/18	**BatchID:**	170623
Date Analyzed:	12/21/18	**Extraction Method:**	ASTM D 1946-90
Instrument:	GC26	**Analytical Method:**	ASTM D 1946-90
Matrix:	SoilGas	**Unit:**	%
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170623

QC Summary Report for ASTM D1946-90

Analyte	MB Result	RL			
Carbon Dioxide	ND	0.0020	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Carbon Dioxide	0.012	0.012	0.010	124	124	70-130	0	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Prepared:	12/21/18 - 12/22/18	**BatchID:**	170549
Date Analyzed:	12/21/18 - 12/22/18	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170549

QC Summary Report for TO15

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	30	-	-	-
Acrolein	ND	2.9	-	-	-
Acrylonitrile	ND	0.55	-	-	-
tert-Amyl methyl ether (TAME)	ND	1.0	-	-	-
Benzene	ND	0.80	-	-	-
Benzyl chloride	ND	1.3	-	-	-
Bromodichloromethane	ND	1.8	-	-	-
Bromoform	ND	2.6	-	-	-
Bromomethane	ND	1.0	-	-	-
1,3-Butadiene	ND	0.55	-	-	-
2-Butanone (MEK)	ND	38	-	-	-
t-Butyl alcohol (TBA)	ND	16	-	-	-
Carbon Disulfide	ND	0.80	-	-	-
Carbon Tetrachloride	ND	1.6	-	-	-
Chlorobenzene	ND	1.2	-	-	-
Chloroethane	ND	0.65	-	-	-
Chloroform	ND	1.2	-	-	-
Chloromethane	ND	0.50	-	-	-
Cyclohexane	ND	9.0	-	-	-
Dibromochloromethane	ND	2.2	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.060	-	-	-
1,2-Dibromoethane (EDB)	ND	2.0	-	-	-
1,2-Dichlorobenzene	ND	1.5	-	-	-
1,3-Dichlorobenzene	ND	1.5	-	-	-
1,4-Dichlorobenzene	ND	1.5	-	-	-
Dichlorodifluoromethane	ND	1.2	-	-	-
1,1-Dichloroethane	ND	1.0	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	1.0	-	-	-
1,1-Dichloroethene	ND	1.0	-	-	-
cis-1,2-Dichloroethene	ND	1.0	-	-	-
trans-1,2-Dichloroethene	ND	1.0	-	-	-
1,2-Dichloropropane	ND	1.2	-	-	-
cis-1,3-Dichloropropene	ND	1.2	-	-	-
trans-1,3-Dichloropropene	ND	1.2	-	-	-
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	1.8	-	-	-
Diisopropyl ether (DIPE)	ND	1.0	-	-	-
1,4-Dioxane	ND	0.90	-	-	-
Ethanol	ND	48	-	-	-

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Prepared:	12/21/18 - 12/22/18	**BatchID:**	170549
Date Analyzed:	12/21/18 - 12/22/18	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170549

QC Summary Report for TO15

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Ethyl acetate	ND	0.90	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	1.0	-	-	-
Ethylbenzene	ND	1.1	-	-	-
4-Ethyltoluene	ND	1.2	-	-	-
Freon 113	ND	2.0	-	-	-
Heptane	ND	10	-	-	-
Hexachlorobutadiene	ND	2.7	-	-	-
Hexane	ND	9.0	-	-	-
2-Hexanone	ND	1.0	-	-	-
Isopropyl Alcohol	ND	25	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	1.0	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.90	-	-	-
Methylene chloride	ND	4.4	-	-	-
Methyl methacrylate	ND	1.0	-	-	-
Naphthalene	ND	2.6	-	-	-
Propene	ND	44	-	-	-
Styrene	ND	1.1	-	-	-
1,1,1,2-Tetrachloroethane	ND	1.8	-	-	-
1,1,2,2-Tetrachloroethane	ND	1.8	-	-	-
Tetrachloroethene	ND	1.7	-	-	-
Tetrahydrofuran	ND	1.5	-	-	-
Toluene	ND	0.95	-	-	-
1,2,4-Trichlorobenzene	ND	1.9	-	-	-
1,1,1-Trichloroethane	ND	1.4	-	-	-
1,1,2-Trichloroethane	ND	1.4	-	-	-
Trichloroethene	ND	1.4	-	-	-
Trichlorofluoromethane	ND	1.4	-	-	-
1,2,4-Trimethylbenzene	ND	1.2	-	-	-
1,3,5-Trimethylbenzene	ND	1.2	-	-	-
Vinyl Acetate	ND	9.0	-	-	-
Vinyl Chloride	ND	0.65	-	-	-
m,p-Xylene	ND	2.2	-	-	-
o-Xylene	ND	1.1	-	-	-
Xylenes, Total	ND	1.1	-	-	-

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Prepared:	12/21/18 - 12/22/18	**BatchID:**	170549
Date Analyzed:	12/21/18 - 12/22/18	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170549

QC Summary Report for TO15

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery					
1,2-DCA-d4	430		500	86	70-130
Toluene-d8	500		500	100	70-130
4-BFB	490		500	99	70-130

(Cont.)

Quality Control Report

Client: P & D Environmental
Date Prepared: 12/21/18 - 12/22/18
Date Analyzed: 12/21/18 - 12/22/18
Instrument: GC24
Matrix: SoilGas
Project: 0772; The Phoenix

WorkOrder: 1812907
BatchID: 170549
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³
Sample ID: MB/LCS/LCSD-170549

QC Summary Report for TO15

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	6.2	6.5	6	104	108	60-140	3.66	30
Acrolein	5.6	5.6	5.8	96	97	60-140	0.410	30
Acrylonitrile	5.4	5.1	5.5	98	94	60-140	4.35	30
tert-Amyl methyl ether (TAME)	10	10	10.5	95	97	60-140	1.55	30
Benzene	7.6	7.7	8	95	96	60-140	1.21	30
Benzyl chloride	7.6	7.7	13.3	57, F2	58, F2	60-140	1.75	30
Bromodichloromethane	15	15	17.5	85	88	60-140	3.37	30
Bromoform	22	22	26.3	83	83	60-140	0	30
Bromomethane	8.8	9.3	9.8	90	95	60-140	5.12	30
1,3-Butadiene	4.8	5.5	5.5	88	100	60-140	12.8	30
2-Butanone (MEK)	7.3	7.6	7.5	97	102	60-140	4.24	30
t-Butyl alcohol (TBA)	7.5	7.8	7.8	96	100	60-140	3.42	30
Carbon Disulfide	7.6	7.6	8	95	95	60-140	0	30
Carbon Tetrachloride	13	13	16	83	84	60-140	1.41	30
Chlorobenzene	12	12	11.8	100	101	60-140	0.921	30
Chloroethane	6.9	7.1	6.8	101	105	60-140	3.54	30
Chloroform	12	12	12.3	96	98	60-140	2.05	30
Chloromethane	5.2	5.4	5.3	98	102	60-140	3.73	30
Cyclohexane	8.8	9.0	8.8	100	103	60-140	2.17	30
Dibromochloromethane	19	20	21.8	89	90	60-140	1.59	30
1,2-Dibromo-3-chloropropane	22	22	24.5	88	88	60-140	0	30
1,2-Dibromoethane (EDB)	18	18	19.5	93	93	60-140	0	30
1,2-Dichlorobenzene	15	14	15.3	100	93	60-140	7.34	30
1,3-Dichlorobenzene	14	15	15.3	94	95	60-140	1.38	30
1,4-Dichlorobenzene	14	14	15.3	92	93	60-140	0.887	30
Dichlorodifluoromethane	13	13	12.5	102	103	60-140	1.18	30
1,1-Dichloroethane	9.8	10	10.3	95	98	60-140	3.09	30
1,2-Dichloroethane (1,2-DCA)	9.4	9.6	10.3	91	93	60-140	2.21	30
1,1-Dichloroethene	11	11	10	105	107	60-140	1.79	30
cis-1,2-Dichloroethene	9.8	10	10	98	102	60-140	3.45	30
trans-1,2-Dichloroethene	9.9	10	10	99	101	60-140	1.53	30
1,2-Dichloropropane	11	11	11.8	94	94	60-140	0	30
cis-1,3-Dichloropropene	9.8	10	11.5	86	87	60-140	1.22	30
trans-1,3-Dichloropropene	9.0	9.2	11.5	78	80	60-140	1.67	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane	18	19	17.8	103	106	60-140	2.66	30
Diisopropyl ether (DIPE)	11	12	10.5	108	110	60-140	1.92	30
1,4-Dioxane	8.2	8.3	9.3	89	90	60-140	1.22	30
Ethanol	4.7	5.0	4.8	98	105	60-140	6.62	30

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Prepared:	12/21/18 - 12/22/18	**BatchID:**	170549
Date Analyzed:	12/21/18 - 12/22/18	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170549

QC Summary Report for TO15

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Ethyl acetate	8.7	8.7	9.3	93	94	60-140	0.850	30
Ethyl tert-butyl ether (ETBE)	11	11	10.5	100	103	60-140	2.24	30
Ethylbenzene	10	10	11	94	94	60-140	0	30
4-Ethyltoluene	12	12	12.5	96	97	60-140	0.821	30
Freon 113	20	20	19.5	102	105	60-140	2.56	30
Heptane	10	10	10.5	95	97	60-140	1.77	30
Hexachlorobutadiene	24	25	27	91	92	60-140	1.23	30
Hexane	9.5	9.8	9	105	108	60-140	2.68	30
2-Hexanone	8.4	8.5	10.5	80	81	60-140	0.673	30
Isopropyl Alcohol	5.7	5.8	6.3	90	92	60-140	1.99	30
4-Methyl-2-pentanone (MIBK)	9.4	9.5	10.5	90	91	60-140	1.31	30
Methyl-t-butyl ether (MTBE)	8.9	9.0	9.3	96	97	60-140	1.46	30
Methylene chloride	8.7	8.9	8.8	99	101	60-140	2.28	30
Methyl methacrylate	9.0	9.0	10.4	86	86	60-140	0	30
Naphthalene	23	23	26.5	87	88	60-140	1.60	30
Propene	4.6	4.7	4.3	107	109	60-140	2.20	30
Styrene	9.3	9.5	10.8	86	88	60-140	2.26	30
1,1,1,2-Tetrachloroethane	16	16	17.5	93	94	60-140	0.851	30
1,1,2,2-Tetrachloroethane	16	16	17.5	93	94	60-140	1.30	30
Tetrachloroethene	17	17	17.2	98	99	60-140	0.732	30
Tetrahydrofuran	7.3	7.5	7.5	98	100	60-140	2.02	30
Toluene	9.2	9.3	9.5	97	98	60-140	1.29	30
1,2,4-Trichlorobenzene	16	16	18.8	85	86	60-140	1.04	30
1,1,1-Trichloroethane	12	12	13.8	87	89	60-140	2.01	30
1,1,2-Trichloroethane	13	13	13.8	95	97	60-140	1.71	30
Trichloroethene	13	13	13.8	96	97	60-140	1.55	30
Trichlorofluoromethane	14	14	14.3	98	100	60-140	2.32	30
1,2,4-Trimethylbenzene	12	12	12.5	95	96	60-140	1.36	30
1,3,5-Trimethylbenzene	12	12	12.5	97	99	60-140	2.03	30
Vinyl Acetate	8.4	8.4	9	93	94	60-140	0.111	30
Vinyl Chloride	5.1	5.5	6.5	79	85	60-140	6.74	30
m,p-Xylene	22	23	22	102	105	60-140	2.75	30
o-Xylene	11	11	11	98	98	60-140	0	30
Xylenes, Total	33	34	33	101	103	60-140	2.05	30

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1812907
Date Prepared:	12/21/18 - 12/22/18	**BatchID:**	170549
Date Analyzed:	12/21/18 - 12/22/18	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	0772; The Phoenix	**Sample ID:**	MB/LCS/LCSD-170549

QC Summary Report for TO15

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
1,2-DCA-d4	470	470	500	93	93	70-130	0	30
Toluene-d8	500	510	500	100	102	70-130	1.45	30
4-BFB	500	510	500	100	102	70-130	2.30	30

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1812907 **ClientCode: PDEO**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ▨ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ▨ J-flag
▨ Detection Summary ▨ Dry-Weight

Report to:
Paul King
P & D Environmental
55 Santa Clara Ave, Ste.240
Oakland, CA 94610
(510) 658-6916 FAX: 510-834-0152

Email: lab@pdenviro.com; Paul.King@pdenviro.c
cc/3rd Party:
PO:
Project: 0772; The Phoenix

Bill to:
Accounts Payable
P & D Environmental
55 Santa Clara Ave, Ste.240
Oakland, CA 94610

Requested TAT: **5 days;**

Date Received: **12/17/2018**
Date Logged: **12/18/2018**

					Requested Tests (See legend below)											
Lab ID	**Client ID**	**Matrix**	**Collection Date**	**Hold**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
1812907-001	SG 18	SoilGas	12/10/2018 15:08	☐	A	A	A		A	A						
1812907-002	UNUSED SUMMA	SoilGas	<Not Provided>	☐				A			A					
1812907-003	UNUSED SUMMA	SoilGas	<Not Provided>	☐				A			A					
1812907-004	UNUSED SUMMA	SoilGas	<Not Provided>	☐				A			A					

Test Legend:

1	**ATMOSPHERICGAS_SG(%)**	**2**	**HELIUM_LC_SOILGAS(%)**	**3**	**LG_SUMMA_SOILGAS(%)**	**4**	**PRUNUSEDSUMMA**
5	**TO15_Scan-SIM_SOIL(UG/M3) [N]**	**6**	**TO15-8260_SOIL(UG/M3) [N]**	**7**	**UNUSED_SUMMA**	**8**	
9		**10**		**11**		**12**	

Project Manager: Jennifer Lagerbom **Prepared by: Kena Ponce**

The following SampID: 001A contains testgroup TO15He_O2_CO2_SG.

Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL
Project: 0772; The Phoenix
Work Order: 1812907

Client Contact: Paul King
QC Level: LEVEL 2

Contact's Email: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Date Logged: 12/18/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ▨ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ▨ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1812907-001A	SG 18	SoilGas	TO15 w/ Helium, O2, CO2	1	1L Summa	☐	12/10/2018 15:08	5 days		☐	
1812907-002A	UNUSED SUMMA	SoilGas	Unused Summa	1	1L Summa	☐	<Not Provided>	5 days		☐	
1812907-003A	UNUSED SUMMA	SoilGas	Unused Summa	1	1L Summa	☐	<Not Provided>	5 days		☐	
1812907-004A	UNUSED SUMMA	SoilGas	Unused Summa	1	1L Summa	☐	<Not Provided>	5 days		☐	

NOTES:
- **STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**
- **MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.**

CHAIN OF CUSTODY RECORD

1812907 PAGE 1 OF 1

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772.	PROJECT NAME: The Phoenix 801 Pine St Oakland, CA
SAMPLED BY: (PRINTED & SIGNATURE) MICHAEL BASS-AESCHLIMES Michael Bass-Desch	

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION INIT VAC	FINAL VAC	SUMMA #	PID	NUMBER OF CONTAINERS	ANALYSIS(ES): VOCs by TO-15	CO2, O2, He by ASTM D-1946							PRESERVATIVE	REMARKS
SG18	12/10/18	150200	SOIL GAS	-29.5				1	X	X							NONE	NORMAL TAT
		150848	"		-5	2001-2628	113											

RELINQUISHED BY: (SIGNATURE) Michael Bass-Desch	DATE 12/7/18	TIME 0945	RECEIVED BY: (SIGNATURE) LAP 12/7/18 0945	Total No. of Samples (This Shipment)	1	LABORATORY: McCAMPBELL ANALYTICAL, INC.
				Total No. of Containers (This Shipment)	1	
RELINQUISHED BY: (SIGNATURE) LAP	DATE 12/7/18	TIME 1630	RECEIVED BY: (SIGNATURE)	LABORATORY CONTACT: ANGELA RYDELIUS.		LABORATORY PHONE NUMBER: (925) 252-9262
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES [✓ (x) NO]		

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: PID VALUES ARE IN PPMV AFTER SAMPLE COLLECTION. PID CALIBRATED WITH A 100 PPM ISOBUTYLENE STANDARD.
DETECTION LIMITS TO BE EQUAL TO OR LESS THAN FEB 2016 SFRWQCB RESIDENTIAL SOIL GAS ESLs.

Sample Receipt Checklist

Client Name:	**P & D Environmental**	Date and Time Received	**12/17/2018 16:30**
Project:	**0772; The Phoenix**	Date Logged:	**12/18/2018**
		Received by:	Kena Ponce
WorkOrder №:	**1812907** Matrix: SoilGas	Logged by:	Kena Ponce
Carrier:	Lorenzo Perez (MAI Courier)		

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Sample IDs noted by Client on COC?	Yes ☑	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐	
Sampler's name noted on COC?	Yes ☑	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	NA ☐
Samples Received on Ice?	Yes ☐	No ☑	
Sample/Temp Blank temperature	Temp:		NA ☑
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
UCMR Samples:			
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes ☐	No ☐	NA ☑

Comments:

APPENDIX F

ASTM USER QUESTIONNAIRE

ASTM E 1527-13 USER QUESTIONNAIRE

To qualify for the protection offered under the EPA All Appropriate Inquiry (AAI) Standard, the User (entities seeking to use the ASTM E1527-13 Practice to complete an environmental site assessment of the property; i.e. Lenders and/or Borrowers) must provide the following information (if available) to the environmental professional. Failure to provide this information could result in a determination that AAI is not complete. This information should be the collective knowledge of the entities relying on the Phase I. **Please note that you are not being asked to evaluate the property, but rather to provide your knowledge of information on the property.**

Site Name/Address: The Phoenix
Site bounded by 9th Street (north), Pine Street (east), Shorey Street (south), Frontage Road (west)
Property Owner (Name/Title/Company): Caltrans
Phone/Email: (510) 286-5393, renata.frey@dot.ca.gov
Key Site Personnel (Name/Title/Company): Renata Frey, Caltrans
Phone/Email: (510) 286-5393, renata.frey@dot.ca.gov
Past Owner (Name/Title/Company)
Phone/Email:

1. Environmental cleanup liens that are filed or recorded against the property (40 CFR 312.25).
Did a search of recorded land title records (or judicial records where appropriate, see NOTE 1 below) identify any environmental liens filed or recorded against the property under federal, tribal, state or local law?

NOTE 1: In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental liens and AULs.

☒ Yes ☐ No If yes, please include an explanation in the space provided below:

Notice and Memorandum of Environmental Contamination

2. Activity and land use limitations that are in place on the property or that have been filed or recorded against the property (40 CFR 312.26(a)(1)(v) and vi).
Did a search of recorded land title records (or judicial records where appropriate, see NOTE 1 above) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?

Engineering Controls are defined as physical modifications to a site or facility to reduce or eliminate the potential for exposure to hazardous substances or petroleum products in the soil or ground water on the property). Institutional Controls are defined as a legal or administrative restriction on the use of, or access to, a site or facility to 1) reduce or eliminate the potential for exposure to hazardous substances or petroleum products in the soil or ground water on the property, or 2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment.

☐ Yes ☒ No If yes, please include an explanation in the space provided below:

3. Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).
Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

☐ Yes ☒ No If yes, please include an explanation in the space provided below:

4. Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29).
Does the purchase price being paid for this property reasonably reflect the fair market value of the property?

☒ Yes ☐ No

If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

☐ Yes ☐ No

Comments:

5. Commonly known or reasonably ascertainable information about the property (40 CFR 312.30).
Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example:

a. Do you know the past uses of the property?
☒ Yes ☐ No

b. Do you know of specific chemicals that are present or once were present at the property?
☒ Yes ☐ No

c. Do you know of spills or other chemical releases that have taken place at the property?
☒ Yes ☐ No

d. Do you know of any environmental cleanups that have taken place at the property?
☒ Yes ☐ No

If yes for questions above, please include an explanation in the space provided below:

See attached documentation from ACDEH.

6. The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).
Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of releases at the property?

☒ Yes ☐ No If yes, please include an explanation in the space provided below:

See attached documentation from ACDEH.

Person Interviewed:

Name: Jamie Hiteshew

Title/Company/ Affiliation with Property: Urban Designs, LLC - Land Buyer

Signature:

Date: March 19, 2019

Phone/Email: jamie@hollidaydevelopment.com / (510) 588-5147

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
COLLEEN CHAWLA, Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
LOCAL OVERSIGHT PROGRAM (LOP)
FOR HAZARDOUS MATERIALS RELEASES
1131 HARBOR BAY PARKWAY, SUITE 250
ALAMEDA, CA 94502
(510) 567-6700
FAX (510) 337-9335

November 13, 2018

Mr. Kevin Brown
Urban Designs, LLC
1201 Pine Street, #151
Oakland, CA 94612
(Sent via electronic mail to: KB@hollidaydevelopment.com)

Subject: Conditional Approval of Additional Site Investigation Activities for Site Cleanup Program Case No. RO0003269 and GeoTracker Global ID T10000011072, The Phoenix, located at 801 Pine Street, Oakland, CA 94601, APN: 6-47-1.

Dear Mr. Brown:

Alameda County Department of Environmental Health (ACDEH) staff has reviewed the email to ACDEH, dated Friday, November 9, 2018, presenting results of field investigation activities conducted in October 2018 and recommendations for additional subsurface investigation activities at the subject site to evaluate vapor intrusion to onsite receptors as well as offsite receptors (east of Pine Street) and north of existing soil gas wells SG10 and SG11 in the vicinity of proposed Parcel 3. On Wednesday November 7, 2018 ACDEH met with you and your environmental consultants to discuss the results of soil gas and grab groundwater investigations; including the advancement of five soil gas wells (SG10 through SG14), two grab groundwater samples (GW10 and GW11) and sampling of existing soil gas wells SG2, SG4, SG5, and SG6. Results of the October 2018 investigation indicate tetrachloroethylene (PCE) concentrations in soil gas have not been delineated offsite to the east in addition to the north and northeast of proposed Parcels 2 and 3. Trichloroethylene (TCE) concentrations in soil gas have not been delineated offsite east of proposed Parcel 2.

ACDEH understands the scope of work for the additional subsurface investigation activities will include the following:

1. Installation of **soil gas well SG15 to** evaluate potential offsite migration and delineation of TCE concentrations east of existing soil gas wells SG10 and SG14. The soil gas well will be advanced and sampled using previously ACDEH-approved methods outlined in the *Limited Subsurface Investigation Work Plan* (the Work Plan), dated March 23, 2018 and the *Limited Subsurface Investigation Work Plan Addendum* (the Addendum), dated May 15, 2018, submitted by P&D and approved by ACDEH on May 22, 2018.

2. Installation of **soil gas wells SG16 through SG20** to evaluate potential offsite migration east of Parcel 2 and 3 and delineation of soil gas north and northeast of SG10 and SG11. The soil gas well will be advanced and sampled using previously ACDEH-approved methods outlined in the *Limited Subsurface Investigation Work Plan* (the Work Plan), dated March 23, 2018 and the *Limited Subsurface Investigation Work Plan Addendum* (the Addendum), dated May 15, 2018, submitted by P&D and approved by ACDEH on May 22, 2018.

Based on our review, ACDEH conditionally approves the scope of work mentioned above and requests that you perform the proposed work. Please provide 72-hour advance written notification to this office (e-mail preferred to: andrew.york@acgov.org) prior to the start of field activities. In order to facilitate the proposed site redevelopment schedule for Parcel 1 (proposed permanent supportive housing), ACDEH requests that the reporting of all subsurface activities conducted at the site be used to complete the conceptual site model and included in the in Corrective Action Plan for the site.

ACDEH notes that although you are in the process of completing the additional data gap sampling discussed above to provide a complete assessment of the extent of volatile organic compounds (VOCs) in soil vapor, ACDEH agrees that the site can be redeveloped provided corrective actions are implemented at the site that will be protective of environmental risks to future building residents and workers. These measures may include excavation of lead-impacted soil and/or offsite disposal at a permitted landfill or onsite consolidation and capping to prevent direct contact exposure, and installation of vapor mitigation engineering controls underlying the structures and hardscape to reduce the inhalation risk of exposure to VOCs.

ACDEH understands that the project is scheduled to be reviewed and approved by the City of Oakland Planning Commission on December 19, 2018 and Holliday Development will be submitting a funding application to the Alameda County Housing and Community Development agency for Proposition A1 funds. That funding program requires the project to have local approvals and environmental clearances by the end of 2018.

Based on our November 7th meeting with you, ACDEH understands that Holliday anticipates completion of the data gap investigation field activities and submittal of a corrective action plan to ACDEH before the end of 2018. ACDEH is committed to working with you on this important project and will expedite review of submittals to the extent practicable during the upcoming holiday season.

Thank you for your cooperation. ACDEH looks forward to working with you in developing a corrective action plan that will provide long-term protection for potential environmental risk. If you have any questions, please call me at (510) 639-1276 or send me an email message at andrew.york@acgov.org

Sincerely,

Drew J. York
Senior Hazardous Materials Specialist

Dilan Roe, PE, C73703
Chief - Land Water Division

cc: David Schenker, Holliday Development (*Sent via E-mail to: david@hollidaydevelopment.com*)
Jamie Hiteshew, Holliday Development (*Sent via E-mail to: jamie@hollidaydevelopment.com*)
Paul H. King, P&D Environmental, Inc. (*Sent via E-mail to: pdking0000@aol.com*)
Tom Graf, Graf Con (*Sent via E-mail to: tom@grafcon.com*)
Mike Rivera, City of Oakland Bureau of Planning (*Sent via E-mail to: mrivera@oaklandnet.com)*
Tim Lowe, City of Oakland Building Department (*Sent via E-mail to TLow@oaklandnet.com)*
James Yoo, Alameda County Public Works (*Sent via E-mail to jamesy@acpwa.org)*
Dilan Roe, ACDEH, Chief Land, and Water Division (*Sent via E-mail to: dilan.roe@acgov.org*)
Paresh Khatri, ACDEH (*Sent via E-mail to: paresh.khatri@acgov.org*)
Drew York, ACDEH (*Sent via E-mail to: andrew.york@acgov.org*)
Electronic File, GeoTracker

APPENDIX G

QUALIFICATIONS

Erik Brown – Associate Consultant

Education:

BS Environmental Toxicology, University of California at Davis, Davis, CA, 1994

Training/Licenses/Registrations:

Asbestos Hazard Emergency Response Act (AHERA) Building Inspector, 2015

Summary of Professional Experience:

Mr. Brown has over 20 years of experience in the environmental consulting industry and has worked in various disciplines, including environmental due diligence, human health risk assessment, site assessment and remediation, and construction management. He has significant experience in due diligence assessments for a variety of property types and the needs and requirements of various reporting standards, including ASTM International standards, EPA's All Appropriate Inquiry (AAI), and customized client formats. Mr. Brown has completed and reviewed thousands of Phase I Environmental Site Assessments (ESAs) on a variety of properties including multi-family apartment buildings, commercial office buildings, shopping centers, dry cleaners, auto repair shops, and gasoline stations.

Select project experience for Mr. Brown includes:

- Prepared or supervised over 100 Phase I ESAs for a variety of properties including multi-family properties, commercial buildings, industrial facilities, and agricultural land for a national homebuilder and real estate developer. Identified multiple recognized environmental conditions (RECs) requiring further assessment or investigation and consulted with corporate clientele and real estate counsel to determine appropriate courses of action. Managed field personnel and reviewed reports to provide client with a consistent report structure, writing style and quality.
- Performed or supervised over 50 Phase I ESAs for county courthouse facilities being transferred from individual counties to the State of California under the California Trial Court Facilities Act of 2002. Coordinated and managed personnel from various offices within California to complete multiple Phase I ESA reports within a challenging timeframe.
- Managed numerous multi-site Phase I ESA portfolios, including a 55-site fast food restaurant acquisition, which required coordinating and scheduling multiple staff and subcontractors, coordinating senior reviews, and ensuring report delivery within a 3-week timeframe.
- Prepared multiple vapor intrusion human health risk assessments in accordance with U.S. Environmental Protection Agency (EPA) and various state regulatory guidelines. Conducted fate and transport modeling using the Johnson and Ettinger (J&E) vapor intrusion model, developed site-specific indoor air attenuation factors, conducted sensitivity analyses, and documented findings in concise, well-written reports.
- Served as Project Manager for the ongoing technical and financial management of a portfolio of over 30 retail petroleum sites and bulk fuel terminals throughout Northern California. Provided technical support and management of quarterly groundwater monitoring and remediation progress reports, site investigation workplans and reports, corrective action plans, feasibility studies, and risk assessments.
- Performed and managed multiple human health risk assessments at Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and Resource Conservation and Recovery Act (RCRA) sites throughout California. Managed and conducted all aspects of risk assessment including evaluation of analytical data, performing statistical analysis, evaluation of exposure pathways and development of exposure parameters, evaluation of toxicity criteria, and estimating cancer risks and noncancer health hazards from exposure to chemicals in a variety of media.

Richard D. Fehler – National Client Manager

B.S. – Zoology, University of California, Davis

California Registered Environmental Assessor (REA I)

Mr. Fehler has over twenty-five years of environmental management experience gained as an environmental consultant; in the chemical manufacturing industry; in the hazardous waste management industry; and as an environmental regulator. He specializes in all aspects of environmental due diligence, regulatory compliance and negotiations, hazardous waste management, and auditing. Mr. Fehler has also received training in Greenhouse Gas and Sustainability Verification.

Mr. Fehler has served as project principal on hundreds of projects with wide-ranging scopes, including peer reviews and desktop reviews; due diligence on large portfolios (200 sites+), as well as single assets; investigation and management of lead, asbestos, mold, and *Legionella*; investigation, remediation and management of contamination in groundwater, soil and soil vapor; regulatory compliance and auditing; and representing clients with regulators to negotiate site closure/No Further Action and/or to develop effective remediation strategies and budgets.

Project experience for Mr. Fehler includes:

- Multiple Site Due Diligence - Managed and designed projects for many large portfolios (100-plus) of varied properties spread across various states. The scopes of work frequently include Indoor Air Quality/mold issues, lead-based paint, asbestos, and radon testing. The design of appropriate Phase II sampling is frequently required to resolve and close issues.

- Environmental Compliance Reviews – Designed and managed many environmental compliance audits for single or multiple assets. Project activities usually involve inspections, interviews, reviewing environmental permits, past environmental reports, standard operating procedures, material safety data sheets (MSDS), and other information related to regulatory compliance in the areas of hazardous materials, hazardous and non-hazardous waste management, workplace health & safety, air permitting and emission reporting, waste water permitting and monitoring, storm water management, underground storage tanks, and aboveground storage tanks.

- Regulatory Negotiation – Managed many Phase II investigations conducted in response to regulatory requirements or to resolve issues and/or to obtain case closure or No Further Action. Represented clients with regulators to negotiate appropriate scopes of work and move projects to successful completion.

APPENDIX H

LIST OF COMMONLY USED ABBREVIATIONS

UNITS

μg/L	Micrograms per Liter	**pCi/L**	PicoCuries per Liter
mg/kg	Milligrams per Kilogram	**ppb**	Parts per Billion
mg/L	Milligrams per Liter	**ppm**	Parts per Million

ABBREVIATIONS AND ACRONYMS

ACM	Asbestos-Containing Material	**NESHAP**	National Emission Standards for Hazardous Air Pollutants
ADJ	Adjacent site	**NFA**	No Further Action
AEI	AEI Consultants	**NFRAP**	No Further Remedial Action Planned
AHERA	Asbestos Hazard Emergency Response Act	**NLR**	No Longer Reporting
APN	Assessor's Parcel Number	**NOV**	Notice of Violation
AST	Aboveground Storage Tank	**NPL**	National Priorities List
AUL	Activity and Use Limitation	**O&M**	Operations and Maintenance
bgs	Below Ground Surface	**OEC**	Other Environmental Considerations
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes	**OSHA**	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response Compensation and Liability Act	**PCB**	Polychlorinated Biphenyl
CERCLIS	Comprehensive Environmental Response Compensation and Liability Information System	**PCE, PERC**	Perchloroethylene, Tetrachloroethylene, Tetrachloroethene
CESQGs	Conditionally Exempt Small Quantity Generators	**RCRA**	Resource Conservation and Recovery Act
COC	Contaminant of Concern	**REC**	Recognized Environmental Condition
CREC	Controlled Recognized Environmental Condition	**RP**	Responsible Party
EC	Engineering Controls	**SDS**	Safety Data Sheet
EDR	Environmental Data Resources, Inc.	**SEMS**	Superfund Enterprise Management System
EPA	Environmental Protection Agency	**SF**	Square Footage/Square Feet
ERIS	Environmental Risk Information Services	**SP**	Subject Property
ERNS	Emergency Response Notification System	**SQG**	Small Quantity Generator
ESA	Environmental Site Assessment	**SWLF**	Solid Waste Landfill
GPR	Ground-Penetrating Radar	**SVOC**	Semi-Volatile Organic Compound
HREC	Historical Recognized Environmental Condition	**TCE**	Trichloroethylene, Trichloroethene
HVAC	Heating, Ventilation and Air Conditioning	**TPH**	Total Petroleum Hydrocarbons
HWS	Hazardous Waste Site	**TPHd**	Total Petroleum Hydrocarbons (diesel range)
IC	Institutional Controls	**TPHg**	Total Petroleum Hydrocarbons (gasoline range)
LBP	Lead-Based Paint	**TPHo**	Total Petroleum Hydrocarbons (oil range)
LCP	Lead-Containing Paint	**TRPH**	Total Recoverable Petroleum Hydrocarbons
LLP	Landowner Liability Protection	**TSDF**	Treatment, Storage, and Disposal Facility
LQG	Large Quantity Generator	**USDA**	United States Department of Agriculture
LUST	Leaking Underground Storage Tank	**USGS**	United States Geological Survey
MCL	Maximum Contaminant Level	**UST**	Underground Storage Tank
MTBE	Methyl Tertiary Butyl Ether	**VCP**	Voluntary Cleanup Program
ND	None Detected	**VOC**	Volatile Organic Compound

P&D ENVIRONMENTAL, INC.
55 Santa Clara Avenue, Suite 240
Oakland, CA94610
(510) 658-6916

July 13, 2020
Report 0772.R6

Mr. Jamie Hiteshew
Urban Designs, LLC
1201 Pine Street, Suite 151
Oakland, CA94607

SUBJECT: LIMITED SUBSURFACE INVESTIGATION REPORT
(B1 Through B4, SG21 Installation, and Sampling SG1 Through SG21)
RO Number 0003269
The Phoenix
801 Pine Street
Oakland, CA

Dear Mr. Hiteshew:

P&D Environmental, Inc. (P&D) has prepared this report documenting a limited subsurface investigation of soil, soil gas and groundwater performed at 801 Pine Street in Oakland, California (historically known as 800 Cedar Street, however Cedar Street no longer exists). Historical documents have also identified the site address as 800 Pine Street.

The purpose of the investigation was to evaluate soil that was identified for excavation for preparation of an area for onsite consolidation of lead-impacted fill and soil at the site, to evaluate the extent of Volatile Organic Compounds (VOCs) in soil gas to the south of the property, and to evaluate the temporal variability of VOCs in soil gas at the site. The work was performed in accordance with a June 10, 2020 Limited Subsurface Investigation Work Plan (document 0772.W8) prepared by P&D, and an June 16, 2020 Alameda County Department of Environmental Health (ACDEH) email to the Alameda County Public Works Agency (ACPWA) authorizing ACPWA to issue the permits for drilling.

One borehole designated as SG21 was drilled to a depth of 7.0 feet below the ground surface (bgs) and a soil gas well was constructed in the borehole to evaluate the extent of VOCs in soil gas to the south of the subject site. A total of 4 boreholes designated as B1 through B4 were drilled on June 19, 2020 to a depth of 7.0 to 8.0 feet bgs for soil sample collection for characterization of the soil for re-use at the site. In addition, all of the soil gas wells at and near the site (SG1 through SG21) were sampled to evaluate temporal variability of soil gas at and near the site.

A Site Location Map is attached as Figure 1 and a site aerial photograph detail showing the locations of Boreholes B1 through B4 and soil gas well SG21 locations is attached as Figure 2. Tetrachloroethene (PCE) soil gas results are shown on Figure 3, and Trichloroethene (TCE) soil gas results are shown on Figure 4. All work was performed under the direct supervision of a professional geologist.

BACKGROUND

The property is presently a vacant lot that is entirely covered with a concrete slab. The property is presently divided into four parcels (see Figure 2) and is presently scheduled for residential development beginning with development at Parcel 1.

A search of the State Water Resources Control Board's (SWRCB) Geotracker website lists the subject site address as 888 Cedar Street and as an active Leaking Underground Storage Tank (LUST) site. There are no documents associated with the Geotracker case for the subject site, except for a directive letter from the Alameda County Department of Environmental Health (ACDEH) dated July 3, 2008 outlining Geotracker upload requirements for the site.

A search of the ACDEH Local Oversight Program's (LOP) website shows various miscellaneous historical documents and correspondence including the following documents:

- Preliminary Endangerment Assessment (PEA) Volume II for 800 Cedar Street dated November 1993 and prepared by On-Site Technologies (OST),
- Underground Storage Tank Closure Report for Cypress "B" Freeway Reconstruction Project - Phoenix 800 Area "T" dated November 27, 1995 and prepared by OGISO Environmental.

Review of the November 1993 PEA shows that OST reports that the site is located along a portion of the then proposed reconstruction of the I-880 Cypress structure by the California Department of Transportation (Caltrans). The original Cypress structure was demolished following its collapse during the Loma Prieta Earthquake in 1989. Additionally, the PEA identifies the following company names and past site activities:

- The Dunn Cracker Co. from approximately 1889 to 1902,
- California Bedding & Upholstery Co. from approximately 1902 to 1912,
- A soap factory from some period of time between 1912 and 1931,
- California Fireworks from approximately 1923 to 1927,
- Independent Iron Works from 1924 to approximately 1960,
- Pine Iron Works from some unknown time until 1990,
- J&A Machine shop from 1985 through at least the date of the PEA,
- Phoenix Iron Works from approximately 1970 through at least the date of the PEA,
- Michael Bondi Metal Design from 1985 through at least the date of the PEA,
- Cypress Auto Parts from 1970 through at least the date of the PEA, and
- Ivan's Auto Body, Unknown Plastic Bag Co., Vennell Steel, and Terminal Manufacturing were located at the subject site at unknown dates and for unknown durations.

A search of the Department of Toxic Substances Control (DTSC) Envirostor website shows that the site is listed as a Voluntary Cleanup site located at 800 Cedar Street and as an Inactive open case as of September 3, 2010. The Envirostor summary page for the site lists only diesel as a potential contaminant of concern and only soil for a potentially impacted media. The Envirostor summary page also states that the site is part of the Cypress Freeway Reconstruction Project as well as having been historically used as an iron works plant that occupied the entire block bounded by Shorey, 9th, Pine, and Cedar (no longer exists) Streets. When the iron works plant went out of business, the building was subdivided into 5 bays and subsequently leased to commercial tenants including machine shops, iron works, auto parts dismantlers, and other manufacturing. The subject site building is reported to have been demolished in July 1995. The former location of Cedar Street (west side of subject site) is shown on Figure 2.

Envirostor also references the approval of proposed excavation of 104 cubic yards of soil on January 13, 1998 and the last available activity listed is dated February 27, 2012 and states that sampling activities were complete and that results were expected in 60 days. Among the documents on Envirostor were the following:

- Site Investigation Report for Highway 880, Cypress Reconstruction - Area 4 dated August 28, 1992 and prepared by Geo/Resource Consultants, Inc.,
- Sampling and Analysis Plan Phase II Soil Investigation for 800 Cedar Street dated July 14, 2011 and prepared by Northgate Environmental Management, Inc. (Northgate)

Other documents obtained and reviewed by P&D are as follows:

- Site Investigation Report for 800 Cedar Street dated March 8, 2000 and prepared by IT Corporation,
- Phase II Soil Investigation Report for 800 Cedar Street dated November 9, 2011 and prepared by Northgate,
- Soil Stockpile Sampling Report for 800 Cedar Street dated December 31, 2013 and prepared by Geocon Consultants, Inc.

P&D's September 5, 2017 Limited Subsurface Investigation Report (document 0772.R1) documents the installation and sampling of soil gas wells SG1 through SG3 and the collection of two groundwater grab samples designated GW1 and GW2 at the site during August 2017.

Historical investigation sample results were summarized by P&D in a December 1, 2017 Soil and Groundwater Management Plan (SGMP) for the site. Soil, groundwater, and soil gas have been impacted at the Site from historical Site use and potentially from off-site sources. Tabulated results of analytical data with figures showing the sample collection locations are provided in Appendix B of P&D's December 1, 2017 SGMP. Appendix A of the SGMP also contains figures that summarize contaminants historically detected at concentrations exceeding San Francisco Bay Regional Water Quality Control Board (SFRWQCB) February 2016 revision 3 Tier 1 screening levels.

P&D's February 14, 2019 Limited Subsurface Investigation Report (document 0772.R4) documents the drilling of boreholes S1 through S9 for the collection of shallow soil samples to further evaluate for the presence and vertical extent of lead concentrations in soil at the subject site; drilled nine boreholes, designated as GW3 through GW11 for the collection of groundwater grab samples, and the installation of soil gas wells SG4 through SG20 and sampling of soil gas wells as follows:

- June 4 and 5, 2018 soil gas wells SG6 through SG9.
- September 6, 2018 soil gas wells SG4 and SG5. Based on the presence of water in soil gas wells SG4 and SG5 during the June 2018 sampling event, soil gas samples were not collected from these two soil gas wells.
- October 17 and 18, 2018 soil gas wells SG2, SG4, SG5, SG6, and SG10 through SG14
- December 10 and 15, 2018 soil gas wells SG15 through SG18, and SG20. Based on the presence of water in soil gas wells SG10, SG11 and SG19 during the December 2018 sampling event, soil gas samples were not collected from these soil gas wells.

FIELD ACTIVITIES

Prior to performing field activities, drilling permits W2020-0403 and W2020-0404 were obtained from ACPWA, permits were obtained from the City of Oakland for work in the public right-of-way, the drilling locations were marked with white paint, Underground Service Alert was notified for underground utility location, a health and safety plan was prepared, and notification of the drilling dates was provided to the ACDEH, ACPWA, and the City of Oakland.

Continuous Coring and Soil Sample Collection

P&D personnel oversaw drilling at locations B1 through B4 on June 19, 2020 for the collection of shallow soil samples to evaluate soil that was identified for excavation for preparation of an area for onsite consolidation of lead-impacted fill and soil at the site.

All drilling was performed by Cascade Drilling LP of Richmond, California (Cascade) using a 3.5-inch outside diameter hand auger to a depth of 5.0 feet bgs, and then using Geoprobe dual tube direct push methods with a Macrocore barrel sampler lined with transparent PVC sleeves to the total depth explored at each of the boreholes. Boreholes B1 through B4 were each drilled to a total depth of 8.0, 7.0, 7.0, and 7.0 feet bgs, respectively.

The soil from the boreholes was logged in the field in accordance with standard geologic field techniques and the Unified Soil Classification System (USCS), and was evaluated with a Photoionization Detector (PID) equipped with a 10.6 eV bulb that was calibrated with a 100 parts per million (ppm) isobutylene standard. The soil was also evaluated for other evidence of contamination such as odors, staining, and discoloration. No elevated PID values, odors, staining, or discoloration were detected in the boreholes. Copies of the boring logs for boreholes B1 through B4 are attached with this report in Appendix A.

Groundwater was encountered in borehole B1 at a depth of 7.0 feet bgs, and was not encountered during the drilling of boreholes B2 through B4. Soil samples were collected from borehole B1 at depths of 3.0, 4.0, and 5.0 feet bgs and in boreholes B2 through B4 at depths of 2.0 and 4.0 feet bgs using a steel sampler driven by a slide hammer. The sampler was lined with a 6.0-inch long 2.0-inch O.D. stainless steel tube to drive the tube into the relatively undisturbed soil. Additionally, for each soil sample one soil subsample was collected for VOC analysis into a 2-gram EnCore sampler using an EnCore sampler T-handle that was inserted into one end of the soil sample in the stainless steel tube. Following Encore sample collection, the Encore and the stainless steel tube were capped and labeled and placed in a cooler with ice pending delivery to the laboratory. Chain of custody procedures were observed for all sample handling.

All drilling and sampling equipment was cleaned with an Alconox solution followed by a clean water rinse prior to use in each borehole, and all temporary PVC casing and tubing used for sample collection was new and unused. All soil and rinse water generated during subsurface investigation was stored in labeled 55-gallon drums at the site pending characterization and proper disposal.

Soil Gas Well Construction and Soil Gas Sample Collection

One soil gas well, designated as SG21 was constructed at the location shown on Figure 2 on June 19, 2020.

The borehole for soil gas well SG21 was drilled to a depth of 7.0 feet bgs (see Figures 2 through 4) using a 3.5-inch outside diameter hand auger. The soil from the borehole was logged in the field in accordance with standard geologic field techniques and the USCS, and was evaluated with a PID equipped with a 10.6 eV bulb that was calibrated with a 100 ppm isobutylene standard. The soil was also evaluated for other evidence of contamination such as odors, staining, and discoloration. No elevated PID values, odors, staining, or discoloration were detected in the borehole. A copy of the boring log for the soil gas well borehole is attached with this report as Appendix A.

The soil gas well was constructed with a sand filter pack in the bottom of the borehole consisting of #2/12 CEMEX sack sand between the depths of 5.0 and 7.0 feet bgs. A 0.250-inch outside diameter (0.187-inch inside diameter) Teflon tube measuring 7.0 feet in length with a HDPE filter at the bottom of the tube was placed in the center of the borehole during placement of the sand so that the HDPE filter. Based on the shallow depth of groundwater encountered in the soil gas well boreholes the HDPE filter was placed at a depth of 5.5 feet bgs. The annular space above the sand was filled with hydrated bentonite to a height of 0.5 feet above the top of the sand, and the remaining borehole annular space was filled with neat cement to approximately 0.5 feet below the ground surface. The top of the tubing for the soil gas well was enclosed with a Swagelok nut and plug, and the top of each soil gas well was enclosed in a well box with a lid secured with bolts.

Following construction, the soil gas well was not sampled for a minimum of 48 hours. Additionally, not more than 0.5 inches of precipitation occurred during the five days prior to the sampling dates of June 17, 18, and 22, 2020 (see Appendix C).

All of the soil gas wells at or near the site (SG1 – SG21) were sampled on June 17, 18 and 22, 2020 using shrouds with helium tracer gas in accordance with procedures recommended in the following Department of Toxic Substances Control (DTSC) documents:

- July 2015 Advisory - Active Soil Gas Investigations.
- August 2015 - FAQ for the 2012 Active Soil Gas Investigations Advisory.

- July 2015 DTSC Active Soil Gas Investigations Advisory Appendix C Quantitative Leak Testing Using a Tracer Gas.
- September 2017 Enthalpy Analytical Field Guide for Use of the Helium Shrouds (see Appendix B).

Soil gas samples were collected from previously installed soil gas wells SG1 through SG9, SG11 through SG15, SG17 through SG20, and new soil gas well SG21 using a manifold that was enclosed in a shroud provided by the laboratory. Samples could not be collected from soil gas wells SG10 or SG16 due to the presence of water in the well tubing at these two locations.

A helium tracer gas was introduced and maintained at a concentration of approximately 20 percent in the shroud during soil gas well purging and sampling in accordance with procedures identified in Appendix B. A manifold in the shroud connected the soil gas well to a well purging source (vacuum pump) and to a sampling Summa canister. The manifold was isolated with valves from the soil gas well, the purging source, and from the sampling Summa canister. Different valves on the manifold were opened during different operations associated with purging and sampling. A flow restrictor located in the manifold limited air flow from the soil gas well into the manifold at a nominal rate of 150 cubic centimeters (cc) per minute. The calculated purge volume for the soil gas wells is provided in Appendix B. Vacuum gages in the manifold on each of the soil gas side of the flow restrictor and on the sampling Summa canister side of the flow restrictor allowed vacuum to be monitored in the soil gas well and in the manifold during soil gas sample collection.

The soil gas samples were collected in the following manner. A shroud with a new soil gas sampling manifold with a 1-liter Summa sampling canister for each location was assembled in the shroud. At the time that the sampling manifold was assembled, the vacuum for the sample canister was verified with a vacuum gauge and recorded. Duplicate samples were collected at locations SG4 and SG6 in a shroud with a manifold that was constructed for the simultaneous collection of two soil gas samples in the same shroud.

Because the laboratory provided pre-assembled manifolds in shrouds with a vacuum, it was not necessary to perform a shut in test prior to soil gas sampling. Following review of the manifold vacuum gage to verify that no unacceptable leaks were present in the manifold, a helium tracer gas was introduced into the shroud at a concentration of approximately 20 percent beginning a minimum of 5 minutes before purging the soil gas well. A default of three purge volumes of the tubing and filter pack were purged prior to sample collection. The purge time was calculated using a nominal flow rate provided by the manifold flow controller of 150 cc per minute. The shroud tracer gas concentration was monitored with a continuously operating helium detector and maintained at a concentration of approximately 20 percent and recorded during purging.

An in-line helium detector located between the shroud and the vacuum source used for purging was monitored and recorded during purging to determine if the helium tracer gas was detected in the manifold during purging. No elevated helium concentrations were detected during purging, indicating that no leaks were detected during the purging process.

Following the completion of the soil gas well purging, the valve to the purge source was closed and the valve to the 1-liter Summa canister was opened for sample collection. The shroud tracer gas concentration was maintained at a concentration of approximately 20 percent and monitored as described above. Once the vacuum for the sample canister valve had decreased to 5 inches of mercury, the sample canister valve was closed. The pressure gage on the inlet side of the flow controller was monitored during sample collection to ensure that the vacuum applied to the soil gas well did not exceed 100 inches of water column. Vacuum did not exceed 100 inches of water column at any of the locations where soil gas samples were collected.

Following soil gas sample collection, a PID was connected to the soil gas well tubing to obtain a preliminary field value for the sample collection location. The soil gas Summa canister samples were stored in a box and promptly shipped to the laboratory for extraction and analysis. Chain of custody procedures were observed for all sample handling.

Measurements of vacuums, purging and equilibration time intervals, helium shroud concentrations, in-line helium detector readings during purging, and PID readings following soil gas sample collection were recorded on Soil Gas Sampling Data Sheets (see Appendix B).

All hand augering equipment was cleaned with an Alconox solution wash followed by a clean water rinse prior to use at each location. New Teflon tubing and a new filter were used for construction of each soil gas well. Clean, unused vacuum gages and a stainless steel sampling manifold were used at each sample collection location. All soil and rinse water generated during soil gas well construction was stored in 55-gallon drums at the site and labeled pending characterization and proper disposal.

Investigation-Derived Waste

All soil and rinse water generated during subsurface investigation was stored in labeled 55-gallon drums at the site pending characterization and proper disposal.

GEOLOGY AND HYDROGEOLOGY

Review of regional geologic maps from U. S. Geological Survey Professional Paper 943, "Flatland Deposits - Their Geology and Engineering Properties and Their Importance to Comprehensive Planning," by E. J. Helley and K. R. Lajoie, 1979, indicates that the subject site is underlain by Pleistocene beach and dune sand deposits (Merrit Sand) (Qps), which is described as loose well-sorted fine to medium sand. Immediately to the west of the western property boundary the subsurface materials are identified as Bay Mud (Qhbm), which is described as unconsolidated water-saturated dark plastic carbonaceous clay and silty clay.

The subsurface materials encountered in boreholes S1 through S9, GW3 through GW11, and SG4 through SG20 consisted of silty sand and silty clayey sand to the maximum depths explored of 11.5 feet bgs. Geologic cross sections for the site are provided in P&D's March 23, 2018 Limited Subsurface Investigation Work Plan (document 0772.W2).

Site investigation by P&D has identified the depth to groundwater at the site as follows:

P&D's GW-Series boreholes have typically been drilled to depths of 10.0 to 11.5 feet bgs. Groundwater was first encountered during hand augering in boreholes GW3, GW4, GW5, GW6, GW7, GW8, GW9, GW10, and GW11 at depths of 9.5, 9.5, 9.5, 11.0, 8.5, 9.0, 9.0, 9.0, and 9.0 feet bgs, respectively. The shallowest depth at which groundwater was subsequently measured in boreholes GW3, GW4, GW5, GW6, GW7, GW8, GW9, GW10, and GW11 was at depths of 6.3, 7.0, 6.7, 6.9, 6.8, 6.8, 6.9, 9.0, and 9.4 feet bgs, respectively.

P&D's SG-Series boreholes have all been drilled to a depth of 7.0 feet bgs (see attached Figures 3 and 4). Boreholes SG4 through SG9 were drilled on May 24, 2018; SG10 through SG14 were drilled on October 13, 2018; and SG15 through SG20 were drilled on November 19, 2018.

Groundwater was not encountered during hand augering in the SG-Series boreholes with the exception of boreholes SG6, SG6A, and SG7 where groundwater was encountered at depths of 6.7, 5.0, and 6.8 feet bgs, respectively (borehole SG6A was located adjacent to borehole SG6). The shallowest depth at which groundwater was subsequently measured in the SG-Series boreholes was in boreholes SG4, SG5, SG6, SG6A, SG7, SG8 and SG9 at depths of 5.5, 5.4, 5.9, 5.7, 5.6, 6.1 and 6.1 feet bgs, respectively.

Historical boreholes and cross sections prepared by others from 1999 show a depth to water of approximately 10 feet bgs.

Review of Figure 1 shows that the ground surface elevation at the site is approximately 11 feet above sea level. The San Francisco Bay is located approximately 3,800 feet to the north and approximately 5,500 feet to the west of the subject site, and the Oakland Inner Harbor which is connected to the San Francisco Bay is located approximately 5,500 feet to the south of the subject site. Based on site vicinity topography and the proximity of surface water bodies the groundwater flow direction at the site is presumed to be westerly towards the San Francisco Bay.

WEATHER

No precipitation occurred for the 5 days preceding the dates of soil gas sampling (June 17, 18, and 22, 2020 or occurred on the days of soil gas sample collection.

Weather data, including precipitation and barometric pressure for June 1 through June 30, 2020, including the dates of soil gas sample collection, are provided in Appendix C.

The weather station is located south side of 7th Street west of Interstate I-880 in Oakland at an elevation of 3 feet above sea level, approximately 1,865 feet to the west-southwest of the subject site. The subject site is located at an elevation of approximately 11 feet above sea level. An internet link to the weather station information is provided in Appendix C.

LABORATORY ANALYSIS

All of the soil samples were analyzed at McCampbell Analytical, Inc. (McCampbell) in Pittsburg, California for the following analytes::

- Total lead using EPA Method 6020.
- Total Petroleum Hydrocarbons as Gasoline (TPH-G) using EPA Method 5035 in conjunction with EPA Methods 8021B and modified 8015B.
- Total Petroleum Hydrocarbons as Diesel (TPH-D) and Total Petroleum Hydrocarbons as Motor Oil (TPH-MO) using EPA Method 3550B in conjunction with EPA Method 8015B.
- VOCs including the petroleum compounds methyl-tert-butyl ether (MTBE), benzene, toluene, ethylbenzene, and xylenes (MBTEX), and naphthalene, and Halogenated Volatile Organic Compounds (HVOCs) including tetrachloroethene (PCE) and trichloroethene (TCE) using EPA Method 5035 in conjunction with EPA Method 8260B.
- Semi-Volatile Organic Compounds (SVOCs) using EPA Method 3550B in conjunction with EPA Method 8270C.
- Organochlorine Pesticides (OGPs) and Polychlorinated Biphenyls (PCBs) using EPA Method 8081A/8082.
- CAM 17 Metals using EPA Method 6020.
- Percent Moisture using ASTM D2216-05 in conjunction with EPA E8000.

The soil gas samples were shipped from Enthalpy Analytical in Berkeley, California (Enthalpy) to the Enthalpy laboratory in Orange, California to be analyzed for the following analytes:

- VOCs including the petroleum compounds MBTEX and naphthalene, and HVOCs including PCE and TCE using EPA TO-15.
- Oxygen, Carbon Dioxide, and the tracer gas Helium using ASTM D1946-90.

The borehole soil sample laboratory analytical results for TPH, VOCs, SVOCs, OCPs, and PCBs reported on a dry weight basis are summarized in Table 1A, the borehole soil sample laboratory analytical results for TPH, VOCs, SVOCs, OCPs, PCBs, and percent moisture reported on a wet weight basis are summarized in Table 1B, the borehole soil sample analytical results for metals reported on a dry weight basis are summarized in Table 1C, and the borehole soil sample analytical results for metals reported on a wet weight basis are summarized in Table 1D. The soil gas sample HVOC analytical results are summarized in Table 2A, non-halogenated non-petroleum VOC results are summarized in Table 2B, and petroleum VOC results are summarized in Table 2C. Copies of the laboratory analytical reports and chain of custody documentation for all of the samples are attached with this report in Appendix D.

DISCUSSION AND RECOMMENDATIONS

P&D recommends the re-use at the site of the soil characterized by boreholes B1 through B4 for soil that is excavated for onsite consolidation of lead-impacted fill or soil.

Soil gas concentrations generally increased in areas of higher concentration PCE and TCE during this sampling event, but were within normal variations due to seasonal variation. The soil gas concentrations reflect the previously measured underlying groundwater concentrations. Concentrations measured at sampling points SG-13 and SG-21, to the south of the site, confirmed that off-site vapor migration is not significant to the south of the site. Based on the soil gas sample results, P&D recommends that soil gas well SG16 be re-evaluated in 6 months to determine if water is still in the soil gas well, and that soil gas well SG15 be re-sampled in 6 months to evaluate variability of concentrations measured during the first and second sampling events. Additional sampling of soil gas wells outside of the Parcel 1 development will be required for evaluation of future site requirements.

DISTRIBUTION

A copy of this report will be uploaded to GeoTracker.

LIMITATIONS

This report was prepared solely for the use of Urban Designs, LLC. The content and conclusions provided by P&D in this assessment are based on information collected during our investigation, which may include, but not be limited to, visual site inspections; interviews with site owner, regulatory agencies and other pertinent individuals; review of available public documents; subsurface exploration and our professional judgment based on said information at the time of preparation of this document. Any subsurface sample results and observations presented herein are considered to be representative of the area of investigation; however, geological conditions may vary between boreholes and may not necessarily apply to the general site as a whole. If future subsurface or other conditions are revealed which vary from these findings, the newly revealed conditions must be evaluated and may invalidate the findings of this report.

This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information contained herein is brought to the attention of the appropriate regulatory agencies, where required by law. Additionally, it is the sole responsibility of the owner to properly dispose of any hazardous materials or hazardous wastes left onsite, in accordance with existing laws and regulations.

This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. P&D is not responsible for the accuracy or completeness of information provided by other individuals or entities which is used in this report. This report presents our professional judgment based upon data and findings identified in this report and interpretation of such data based upon our experience and background, and no warranty, either express or implied, is made. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur.

Should you have any questions, please do not hesitate to contact us at (510) 658-6916.

Sincerely,

P&D Environmental, Inc.

Paul H. King

PROFESSIONAL GEOLOGIST
PAUL H. KING
No. 5901
STATE OF CALIFORNIA

Paul H. King
Professional Geologist # 5901
Expires: 12/31/21

Attachments:

Table 1A - Summary of Borehole Soil Sample Analytical Results – TPH, VOCs, SVOCs, OCPs, and PCBs – Dry Weight Basis
Table 1B - Summary of Borehole Soil Sample Analytical Results – TPH, VOCs, SVOCs, OCPs, PCBs, and Percent Moisture – Wet Weight Basis
Table 1C - Summary of Borehole Soil Sample Analytical Results – Metals – Dry Weight Basis
Table 1D - Summary of Borehole Soil Sample Analytical Results – Metals – Wet Weight Basis
Table 2A - Summary of Soil Gas Sample Analytical Results – HVOCs
Table 2B - Summary of Soil Gas Sample Analytical Results – Non-Halogenated and Non-Petroleum VOCs
Table 2C - Summary of Soil Gas Sample Analytical Results – Petroleum VOCs

Figure 1 - Site Location Map
Figure 2 – Site Aerial Photograph Detail Showing Boreholes B1 Through B4 and Soil Gas Well SG21 Locations
Figure 3 - Site Aerial Photograph Showing PCE in Soil Gas
Figure 4 - Site Aerial Photograph Showing TCE in Soil Gas

Appendix A - Soil Boring Logs
Appendix B -Enthalpy Analytical Field Guide for Use of the Helium Shrouds, Purge Volume Calculations, and Soil Gas Sampling Data Sheets
Appendix C - Weather Information
Appendix D - Laboratory Analytical Reports and Chain of Custody Documentation

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TABLES

Table 1A
Summary of Borehole Soil Sample Analytical Results - TPH, VOCs, SVOCs, OCPs, and PCBs - Dry Weight Basis

Sample ID	Sample Collection Date	Sample Collection Depth (ft bgs)	TPH-G	TPH-D	TPH-MO	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene by EPA Method 8260B	Naphthalene by EPA Method 8270C	Other VOCs by EPA Method 8260B	SVOCs by EPA Method 8270C	Organochlorine Pesticides and PCBs	Percent Moisture
B1-3.0	6/19/2020	3.0	ND<1.1	2.9, a,b	110, a,b	ND<0.0052	ND<0.0052	ND<0.0052	ND<0.0052	ND<0.0052	ND<0.0052	ND<0.0028	All ND	ND, except Benzo (a) pyrene = 0.0062, Benzo (g,h,i) perylene = 0.0097, Benzo (k) fluoranthene = 0.0040, Chrysene = 0.0059, Fluoranthene = 0.0087, Pyrene = 0.0088	ND, except DDT = 0.00044, Aroclor1254 = 0.0065, Total PCBs = 0.0065	--
B1-5.0	6/19/2020	5.0	ND<1.1	ND<1.1	ND<5.4	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0014	All ND	ND, except Benzo (a) pyrene = 0.0039, Benzo (k) fluoranthene = 0.0018, Fluoranthene = 0.0023, Pyrene = 0.0034	All ND	--
B2-2.0	6/19/2020	2.0	ND<1.1	ND<1.1	ND<5.3	ND<0.0054	ND<0.0054	ND<0.0054	ND<0.0054	ND<0.0054	ND<0.0054	ND<0.0014	All ND	All ND	All ND	--
B2-4.0	6/19/2020	4.0	ND<1.1	ND<1.1	5.3, a	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0014	All ND	ND, except Chrysene = 0.0029, Fluoranthene = 0.0017	All ND	--
B3-2.0	6/19/2020	2.0	ND<1.1	ND<1.1	ND<5.3	ND<0.0052	ND<0.0052	ND<0.0052	ND<0.0052	ND<0.0052	ND<0.0052	ND<0.0014	All ND	All ND	All ND	--
B3-4.0	6/19/2020	4.0	ND<1.1	ND<1.1	ND<5.3	ND<0.0051	ND<0.0051	ND<0.0051	ND<0.0051	ND<0.0051	ND<0.0051	ND<0.0014	All ND	All ND	All ND	--
B4-2.0	6/19/2020	2.0	ND<1.1	ND<1.1	ND<5.3	ND<0.0053	ND<0.0053	ND<0.0053	ND<0.0053	ND<0.0053	ND<0.0053	ND<0.0014	All ND	All ND	All ND	--
B4-4.0	6/19/2020	4.0	ND<1.1	ND<1.1	ND<5.3	ND<0.0052	ND<0.0052	ND<0.0052	ND<0.0052	ND<0.0052	ND<0.0052	ND<0.0014	All ND	All ND	All ND	--
														PAHs		
LTCP	Residential						0-5' = 1.9		0-5' = 21		0-5' = 9.7	0-5' = 9.7		0-5' = 0.063		
	Residential						5-10' = 2.8		5-10' = 32		5-10' = 9.7	5-10' = 9.7		5-10' = NA		
LTCP	Commercial/ Industrial						0-5' = 8.2		0-5' = 89		0-5' = 45	0-5' = 45		0-5' = 0.68		
	Commercial/ Industrial						5-10' = 12		5-10' = 134		5-10' = 45	5-10' = 45		5-10' = NA		
	Utility Worker						0-10' = 14		0-10' = 314		0-10' = 219	0-10' = 219		0-10' = 4.5		
ESL			100	260	1,600	0.028	0.025	3.2	0.43	2.1	0.042	0.042	Various	Benzo (a) pyrene = 0.11, Benzo (g,h,i) perylene = 2.5, Benzo (k) fluoranthene = 2.8, Chrysene = 2.2, Fluoranthene = 0.69, Pyrene = 45	0.23	No Value

NOTES:
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
TPH-D = Total Petroleum Hydrocarbons as Diesel.
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil.
MTBE = Methyl tertiary-butyl ether.
VOCs = Volatile Organic Compounds.
SVOCs = Semi-volatile Organic Compounds.
PCBs = Polychlorinated Biphenyls.
ft bgs = feet below ground surface.
ND = Not detected.
-- = Not applicable.
a = Laboratory Note: oil range compounds are significant.
b = Laboratory Note: diesel range compounds are significant; no recognizable pattern.
LTCP = Low Threat Closure Policy, by State Water Resources Control Board, effective August 17, 2012, from Table 1 - Concentrations of Petroleum Constituents in Soil That Will Have No Significant Risk of Adversely Affecting Human Health.
ESL = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated July 2019 (Revision 2), Soil Tier 1 ESL from Summary of Soil ESLs.
Results, LTCP values, and ESL values, reported in milligrams per kilogram (mg/kg), unless otherwise indicated.

Table 1B
Summary of Borehole Soil Sample Analytical Results - TPH, VOCs, SVOCs, OCPs, PCBs, and Percent Moisture - Wet Weight Basis

Sample ID	Sample Collection Date	Sample Collection Depth (ft bgs)	TPH-G	TPH-D	TPH-MO	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene by EPA Method 8260B	Naphthalene by EPA Method 8270C	Other VOCs by EPA Method 8260B	SVOCs by EPA Method 8270C	Organochlorine Pesticides and PCBs	Percent Moisture
B1-3.0	6/19/2020	3.0	ND<1.0	2.7, a,b	100, a,b	#	#	#	#	#	#	ND<0.0026	#	ND, except Benzo (a) pyrene = 0.0058, Benzo (g,h,i) perylene = 0.0090, Benzo (k) fluoranthene = 0.0037, Chrysene = 0.0055, Fluoranthene = 0.0081, Pyrene = 0.0082	ND, except DDT = 0.00041, Aroclor1254 = 0.0060, Total PCBs = 0.0060	7.11
B1-5.0	6/19/2020	5.0	ND<1.0	ND<1.0	ND<5.0	#	#	#	#	#	#	ND<0.0013	#	ND, except Benzo (a) pyrene = 0.0036, Benzo (k) fluoranthene = 0.0017, Fluoranthene = 0.0021, Pyrene = 0.0032	All ND	7.12
B2-2.0	6/19/2020	2.0	ND<1.0	ND<1.0	ND<5.0	#	#	#	#	#	#	ND<0.0013	#	All ND	All ND	5.91
B2-4.0	6/19/2020	4.0	ND<1.0	ND<1.0	5.0, a	#	#	#	#	#	#	ND<0.0013	#	ND, except Chrysene = 0.0027, Fluoranthene = 0.0016	All ND	5.91
B3-2.0	6/19/2020	2.0	ND<1.0	ND<1.0	ND<5.0	#	#	#	#	#	#	ND<0.0013	#	All ND	All ND	5.78
B3-4.0	6/19/2020	4.0	ND<1.0	ND<1.0	ND<5.0	#	#	#	#	#	#	ND<0.0013	#	All ND	All ND	6.02
B4-2.0	6/19/2020	2.0	ND<1.0	ND<1.0	ND<5.0	#	#	#	#	#	#	ND<0.0013	#	All ND	All ND	6.15
B4-4.0	6/19/2020	4.0	ND<1.0	ND<1.0	ND<5.0	#	#	#	#	#	#	ND<0.0013	#	All ND	All ND	6.17
														PAHs		
LTCP	Residential						0-5' = 1.9		0-5' = 21		0-5' = 9.7	0-5' = 9.7		0-5' = 0.063		
	Residential						5-10' = 2.8		5-10' = 32		5-10' = 9.7	5-10' = 9.7		5-10' = NA		
LTCP	Commercial/ Industrial						0-5' = 8.2		0-5' = 89		0-5' = 45	0-5' = 45		0-5' = 0.68		
	Commercial/ Industrial						5-10' = 12		5-10' = 134		5-10' = 45	5-10' = 45		5-10' = NA		
	Utility Worker						0-10' = 14		0-10' = 314		0-10' = 219	0-10' = 219		0-10' = 4.5		
ESL			100	260	1,600	0.028	0.025	3.2	0.43	2.1	0.042	0.042	Various	Benzo (a) pyrene = 0.11, Benzo (g,h,i) perylene = 2.5, Benzo (k) fluoranthene = 2.8, Chrysene = 2.2, Fluoranthene = 0.69, Pyrene = 45	0.23	No Value

NOTES:
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PCBs = Polychlorinated Biphenyls.
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a = Laboratory Note: oil range compounds are significant.
b = Laboratory Note: diesel range compounds are significant; no recognizable pattern.
# = VOCs were collected using Encore sampler and nalyzed by 8260B Scan SIM; results only in dry weight. (See Table 1A)
LTCP = Low Threat Closure Policy, by State Water Resources Control Board, effective August 17, 2012, from Table 1 - Concentrations of Petroleum Constituents in Soil That Will Have No Significant Risk of Adversely Affecting Human Health.
ESL= Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated July 2019 (Revision 2), Soil Tier 1 ESL from Summary of Soil ESLs.
Results, LTCP values, and ESL values, reported in milligrams per kilogram (mg/kg), unless otherwise indicated.

Table 1C
Summary of Borehole Soil Sample Analytical Results - Metals - Dry Weight Basis

Sample ID	Sample Collection Date	Sample Collection Depth	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
B1-3.0	6/19/2020	3.0	ND<0.54	2.2	54	ND<0.54	ND<0.54	39	3.9	9.4	**110**	ND<0.054	ND<0.54	23	ND<0.54	ND<0.54	ND<0.54	28	34
B1-5.0	6/19/2020	5.0	ND<0.54	2.3	48	ND<0.54	ND<0.54	46	3.3	7.6	5.4	ND<0.054	ND<0.54	20	ND<0.54	ND<0.54	ND<0.54	28	23
B2-2.0	6/19/2020	2.0	ND<0.53	2.0	74	ND<0.53	ND<0.53	34	4.5	7.7	6.6	ND<0.053	ND<0.53	22	ND<0.53	ND<0.53	ND<0.53	27	23
B2-4.0	6/19/2020	4.0	ND<0.53	2.3	66	ND<0.53	ND<0.53	36	4.7	8.5	**56**	ND<0.053	ND<0.53	24	ND<0.53	ND<0.53	ND<0.53	29	31
B3-2.0	6/19/2020	2.0	ND<0.53	2.0	62	ND<0.53	ND<0.53	32	3.8	6.9	2.8	ND<0.053	ND<0.53	21	ND<0.53	ND<0.53	ND<0.53	25	20
B3-4.0	6/19/2020	4.0	ND<0.53	2.1	65	ND<0.53	ND<0.53	32	4.5	7.2	2.4	ND<0.053	ND<0.53	22	ND<0.53	ND<0.53	ND<0.53	27	18
B4-2.0	6/19/2020	2.0	ND<0.53	2.1	80	ND<0.53	ND<0.53	33	4.2	7.7	2.6	ND<0.053	ND<0.53	21	ND<0.53	ND<0.53	ND<0.53	26	22
B4-4.0	6/19/2020	4.0	ND<0.53	2.5	53	ND<0.53	ND<0.53	33	4.6	7.4	2.8	ND<0.053	ND<0.53	22	ND<0.53	ND<0.53	ND<0.53	28	20
ESL			11	0.067	390	5.0	*78	160	23	180	32	13	6.9	86	2.4	25	0.78	**390	***23,000
Title 22 Hazardous Waste Criteria (TTLC)			150	50	1,000	7.5	10	#50	800	250	50	2.0	3,500	200	10	50	70	240	2,500

NOTES:

Sb = Antimony; As = Arsenic; Ba = Barium; Be = Beryllium; Cd = Cadmium; Cr = Chromium; Co = Cobalt; Cu = Copper; Pb = Lead; Hg = Mercury; Mo = Molybdenu

Ni = Nickel; Se = Selenium; Ag = Silver; Tl = Thallium; V = Vanadium; Zn = Zinc

mg/L = milligrams per liter.

ft bgs = feet below ground surface.

ND = Not detected.

-- = Not analyzed.

N/A = Not applicable

*= July 2019 (Revision 2) Tier 1 Soil ESL for Cadmium is 1.9 mg/kg, but is based on Terrestrial Habitat Levels. The Direct Exposure Human Health Risk Levels Non-cancer Risk for Cadmium in a residential land use scenario (Table S-1) is 78 mg/kg.

**= July 2019 (Revision 2) Tier 1 Soil ESL for Vanadium is 18 mg/kg, but is based on Terrestrial Habitat Levels. The Direct Exposure Human Health Risk Levels Non-cancer Risk for Vanadium in a residential land use scenario (Table S-1) is 390 mg/kg.

*** = July 2019 (Revision 2) Tier 1 Soil ESL for Zinc is 340 mg/kg, but is based on Terrestrial Habitat Levels. The Direct Exposure Human Health Risk Levels Non-cancer Risk for Zinc in a residential land use scenario (Table S-1) is 23,000 mg/kg.

a = Laboratory Note: analyte detected in the associated method blank and in the sample.

ESL = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated July 2019 (Revision 2), Soil Tier 1 ESL from Summary of Soil ESLs.

TTLC = Total Threshold Limit Concentration.

Title 22 Hazardous Waste Criteria - Values given are 10 times the respective Soluble Threshold Limit Concentration (STLC).

= Value used is for hexavalent chromium.

Underlined results exceed their respective ESLvalues.

Results in BOLD exceed Title 22 Hazardous Waste Criteria.

Results and ESL values reported in milligrams per kilogram (mg/kg), unless otherwise indicated.

Table 1D

Summary of Borehole Soil Sample Analytical Results - Metals - Wet Weight Basis

Sample ID	Sample Collection Date	Sample Collection Depth	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
B1-3.0	6/19/2020	3.0	ND<0.50	2.0	50	ND<0.50	ND<0.50	36	3.6	8.7	**100**	ND<0.050	ND<0.50	21	ND<0.50	ND<0.50	ND<0.50	26	32
B1-5.0	6/19/2020	5.0	ND<0.50	2.1	45	ND<0.50	ND<0.50	43	3.1	7.1	5.0	ND<0.050	ND<0.50	19	ND<0.50	ND<0.50	ND<0.50	26	21
B2-2.0	6/19/2020	2.0	ND<0.50	1.9	70	ND<0.50	ND<0.50	32	4.2	7.2	6.2	ND<0.050	ND<0.50	21	ND<0.50	ND<0.50	ND<0.50	25	22
B2-4.0	6/19/2020	4.0	ND<0.50	2.2	62	ND<0.50	ND<0.50	34	4.4	8.0	**53**	ND<0.050	ND<0.50	23	ND<0.50	ND<0.50	ND<0.50	27	29
B3-2.0	6/19/2020	2.0	ND<0.50	1.9	58	ND<0.50	ND<0.50	30	3.6	6.5	2.6	ND<0.050	ND<0.50	20	ND<0.50	ND<0.50	ND<0.50	24	19
B3-4.0	6/19/2020	4.0	ND<0.50	2.0	61	ND<0.50	ND<0.50	30	4.2	6.8	2.3	ND<0.050	ND<0.50	21	ND<0.50	ND<0.50	ND<0.50	25	17
B4-2.0	6/19/2020	2.0	ND<0.50	2.0	75	ND<0.50	ND<0.50	31	3.9	7.2	2.4	ND<0.050	ND<0.50	20	ND<0.50	ND<0.50	ND<0.50	24	21
B4-4.0	6/19/2020	4.0	ND<0.50	2.3	50	ND<0.50	ND<0.50	31	4.3	6.9	2.6	ND<0.050	ND<0.50	21	ND<0.50	ND<0.50	ND<0.50	26	19
ESL			11	0.067	390	5.0	*78	160	23	180	32	13	6.9	86	2.4	25	0.78	**390	***23,000
Title 22 Hazardous Waste Criteria (TTLC)			150	50	1,000	7.5	10	#50	800	250	50	2.0	3,500	200	10	50	70	240	2,500

NOTES:

Sb = Antimony; As = Arsenic; Ba = Barium; Be = Beryllium; Cd = Cadmium; Cr = Chromium; Co = Cobalt; Cu = Copper; Pb = Lead; Hg = Mercury; Mo = Molybdenu

Ni = Nickel; Se = Selenium; Ag = Silver; Tl = Thallium; V = Vanadium; Zn = Zinc

mg/L = milligrams per liter.

ft bgs = feet below ground surface.

ND = Not detected.

-- = Not analyzed.

N/A = Not applicable

*= July 2019 (Revision 2) Tier 1 Soil ESL for Cadmium is 1.9 mg/kg, but is based on Terrestrial Habitat Levels. The Direct Exposure Human Health Risk Levels Non-cancer Risk for Cadmium in a residential land use scenario (Table S-1) is 78 mg/kg.

**= July 2019 (Revision 2) Tier 1 Soil ESL for Vanadium is 18 mg/kg, but is based on Terrestrial Habitat Levels. The Direct Exposure Human Health Risk Levels Non-cancer Risk for Vanadium in a residential land use scenario (Table S-1) is 390 mg/kg.

*** = July 2019 (Revision 2) Tier 1 Soil ESL for Zinc is 340 mg/kg, but is based on Terrestrial Habitat Levels. The Direct Exposure Human Health Risk Levels Non-cancer Risk for Zinc in a residential land use scenario (Table S-1) is 23,000 mg/kg.

a = Laboratory Note: analyte detected in the associated method blank and in the sample.

ESL = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated July 2019 (Revision 2), Soil Tier 1 ESL from Summary of Soil ESLs.

TTLC = Total Threshold Limit Concentration.

Title 22 Hazardous Waste Criteria - Values given are 10 times the respective Soluble Threshold Limit Concentration (STLC).

= Value used is for hexavalent chromium.

Underlined results exceed their respective ESLvalues.

Results in BOLD exceed Title 22 Hazardous Waste Criteria.

Results and ESL values reported in milligrams per kilogram (mg/kg), unless otherwise indicated.

Table 2A
Summary of Soil Gas Sample Analytical Results - HVOCs

Sample ID	Land Use	Sample Date	Probe Depth (Feet bgs)	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Trichlorofluoromethane	Dichlorodifluoromethane	Methylene Chloride	1,1,1-TCA	DFA (Tracer Gas)	Percent Shroud (DFA)	Helium (Tracer Gas) (%)	Percent Shroud (Helium)
SG1	Residential	8/14/2017	5.5	ND<6.78	ND<5.37	ND<3.97	NR	ND<2.56	**82.5**	16.3	ND<4.95	ND<3.47	ND<5.46	ND<27,014	0.0	NA	--
SG1	Residential	6/17/2020	5.5	ND<2.7	ND<2.1	ND<1.6	ND<1.6	ND<1.0	ND<2.0	9.1	2.8	9.4	ND<2.2	NA	--	ND<0.20	0.0
SG2	Residential	8/14/2017	5.5	**28.6**	**447**	ND<3.97	NR	ND<2.56	**132**	ND<5.62	ND<4.95	ND<3.47	ND<5.46	ND<27,014	0.0	NA	--
SG2 DUP	Residential	8/14/2017	5.5	**28.2**	**441**	ND<3.97	NR	ND<2.56	**128**	ND<5.62	ND<4.95	ND<3.47	ND<5.46	ND<27,014	0.0	NA	--
SG2	Residential	10/17/2018	5.5	**45**	**570**	ND<4.1	ND<4.1	ND<2.6	NR	NR	NR	NR	NR	NA	--	ND<0.21	0.0
SG2	Residential	6/18/2020	5.5	**48**	**680**	ND<3.2	ND<3.2	ND<2.0	ND<3.9	7.8	4.1	ND<6.9	ND<4.4	NA	--	ND<0.20	0.0
SG3	Residential	8/14/2017	5.5	**42.6**	ND<5.37	ND<3.97	NR	ND<2.56	**14.8**	6.01	ND<4.95	4.27	21.3	ND<27,014	0.0	NA	--
SG3	Residential	6/17/2020	5.5	**89**	ND<2.1	ND<1.6	ND<1.6	ND<1.0	ND<2.0	5.3	2.6	ND<3.5	22	NA	--	ND<0.20	0.0
SG4	Residential	9/6/2018	5.5	**4,000**	7.6	ND<4.2	ND<4.2	ND<2.7	ND<5.1	ND<5.9	NR	ND<3.6	ND<5.7	NA	--	ND<0.21	0.0
SG4	Residential	10/17/2018	5.5	**3,000**	ND<17	ND<13	ND<13	ND<8.2	NR	NR	NR	NR	NR	NA	--	ND<0.21	0.0
SG4	Residential	6/18/2020	5.5	**5,100**	ND<43	ND<32	ND<32	ND<20	ND<39	ND<45	ND<40	ND<69	ND<44	NA	--	ND<0.20	0.0
SG4-DUP	Residential	6/18/2020	5.5	**5,100**	ND<43	ND<32	ND<32	ND<20	ND<39	ND<45	ND<40	ND<69	ND<44	NA	--	ND<0.20	0.0
SG5	Residential	9/6/2018	5.5	7.2	**90**	ND<3.9	ND<3.9	ND<2.5	ND<4.8	ND<5.5	NR	ND<3.4	ND<5.4	NA	--	ND<0.20	0.0
SG5 DUP	Residential	9/6/2018	5.5	7.1	**90**	ND<3.8	ND<3.8	ND<2.5	ND<4.7	ND<5.4	NR	ND<3.4	ND<5.3	NA	--	ND<0.19	0.0
SG5	Residential	10/17/2018	5.5	9.8	**48**	ND<4.1	ND<4.1	ND<2.6	NR	NR	NR	NR	NR	NA	--	ND<0.21	0.0
SG5	Residential	6/18/2020	5.5	7.2	**43**	ND<1.6	ND<1.6	ND<1.0	ND<2.0	2.6	2.8	5.5	ND<2.2	NA	--	ND<0.20	0.0
SG6	Residential	6/4/2018	5.5	**35**	**2,600**	ND<12	ND<12	ND<8.0	NR	NR	NR	NR	NR	NA	--	ND<0.21	0.0
SG6-DUP	Residential	6/4/2018	5.5	**35**	**2,600**	ND<14	ND<14	ND<9.0	NR	NR	NR	NR	NR	NA	--	ND<0.23	0.0
SG6	Residential	10/17/2018	5.5	**29**	**2,100**	ND<8.3	ND<8.3	ND<5.3	NR	NR	NR	NR	NR	NA	--	1.1	5.5
SG6-DUP	Residential	10/17/2018	5.5	**30**	**2,100**	ND<8.1	ND<8.1	ND<5.2	NR	NR	NR	NR	NR	NA	--	1.1	5.5
SG6	Residential	6/18/2020	5.5	ND<54	**3,300**	ND<32	ND<32	ND<20	ND<39	140	ND<40	ND<69	ND<44	NA	--	ND<0.20	0.0
SG6-DUP	Residential	6/18/2020	5.5	ND<54	**3,200**	ND<32	ND<32	ND<20	ND<39	140	ND<40	ND<69		NA	--	ND<0.20	0.0
SG7	Residential	6/4/2018	5.5	**36**	0.64, b	ND<4.5	ND<4.5	ND<2.9	NR	NR	NR	NR	NR	NA	--	ND<0.23	0.0
SG7	Residential	6/18/2020	5.5	**60**	ND<2.1	ND<1.6	ND<1.6	ND<1.0	ND<2.0	ND<2.2	2.7	ND<3.5	27	NA	--	ND<0.20	0.0
SG8	Residential	6/5/2018	5.5	4.5, b	ND<6.1	ND<4.5	ND<4.5	ND<2.9	NR	NR	NR	NR	NR	NA	--	ND<0.23	0.0
SG8	Residential	6/18/2020	5.5	3.7	ND<2.1	ND<1.6	ND<1.6	ND<1.0	**6.1**	2.3	2.6	ND<3.5	33	NA	--	ND<0.20	0.0
SG9	Residential	6/5/2018	5.5	**27**	0.23, b	ND<4.2	ND<4.2	ND<2.7	NR	NR	NR	NR	NR	NA	--	ND<0.21	0.0
SG9	Residential	6/22/2020	5.5	**42**	ND<2.1	ND<1.6	ND<1.6	ND<1.0	ND<2.0	2.9	2.6	ND<3.5	7.0	NA	--	ND<0.20	0.0
SG10	Residential	10/18/2018	5.5	**810**	ND<5.0	ND<3.7	ND<3.7	ND<2.4	NR	NR	NR	NR	NR	NA	--	ND<0.19	0.0

Table 2A
Summary of Soil Gas Sample Analytical Results - HVOCs

SG11	Residential	10/18/2018	5.5	**1,100**	ND<5.6	ND<4.1	ND<4.1	ND<2.6	NR	NR	NR	NR	NR	NA	--	ND<0.21	0.0
SG11	Residential	6/17/2020	5.5	**2,100**	ND<43	ND<32	ND<32	ND<20	ND<39	ND<45	ND<40	ND<69	ND<44	NA	--	ND<0.20	0.0
SG12	Residential	10/18/2018	5.5	**280**	ND<3.8	ND<4.0	ND<4.0	ND<2.6	NR	NR	NR	NR	NR	NA	--	ND<0.20	0.0
SG12	Residential	6/18/2020	5.5	**500**	ND<2.1	ND<1.6	ND<1.6	ND<1.0	ND<2.0	ND<2.2	2.3	ND<3.5	16	NA	--	ND<0.76	0.0
SG13	Residential	10/18/2018	5.5	8.4	ND<4.9	ND<3.6	ND<3.6	ND<2.3	NR	NR	NR	NR	NR	NA	--	ND<0.18	0.0
SG13	Residential	6/22/2020	5.5	5.3	ND<2.1	ND<1.6	ND<1.6	ND<1.0	ND<2.0	ND<2.2	2.0	7.0	ND<2.2	NA	--	ND<0.20	0.0
SG14	Residential	10/18/2018	5.5	ND<6.9	ND<5.5	ND<4.0	ND<4.0	ND<2.6	NR	NR	NR	NR	NR	NA	--	ND<0.20	0.0
SG14	Residential	6/22/2020	5.5	11	ND<2.1	ND<1.6	ND<1.6	ND<1.0	ND<2.0	ND<2.2	2.0	ND<3.5	ND<2.2	NA	--	ND<0.20	0.0
SG 15	Residential	12/15/2018	5.5	ND<3.4	ND<2.8	ND<2.0	ND<2.0	ND<1.3	ND<2.4	ND<2.8	ND<2.5	ND<8.8	ND<2.8	NA	--	ND<0.050	0.0
SG15	Residential	6/22/2020	5.5	**140**	9.5	2.8	ND<1.6	ND<1.0	ND<2.0	2.7	2.2	7.6	ND<2.2	NA	--	ND<0.40	0.0
SG 16	Residential	12/15/2018	5.5	ND<3.4	ND<2.8	ND<2.0	ND<2.0	ND<1.3	ND<2.4	ND<2.8	ND<2.5	ND<8.8	ND<2.8	NA	--	ND<0.050	0.0
SG 17	Residential	12/15/2018	5.5	ND<3.4	ND<2.8	ND<2.0	ND<2.0	ND<1.3	**20**	ND<2.8	2.6	ND<8.8	ND<2.8	NA	--	ND<0.050	0.0
SG17	Residential	6/22/2020	5.5	ND<2.7	ND<2.1	ND<1.6	ND<1.6	ND<1.0	**17**	ND<2.2	2.3	ND<3.5	ND<2.2	NA	--	ND<0.20	0.0
SG 18	Residential	12/10/2018	5.5	ND<3.4	ND<2.8	ND<2.0	ND<2.0	ND<1.3	ND<2.4	ND<2.8	ND<2.5	ND<8.8	ND<2.8	NA	--	ND<0.050	0.0
SG18	Residential	6/17/2020	5.5	ND<2.7	ND<2.1	ND<1.6	ND<1.6	ND<1.0	ND<2.0	2.4	ND<2.0	4.5	ND<2.2	NA	--	ND<0.20	0.0
SG19	Residential	6/17/2020	5.5	8.0	2.9	ND<1.6	ND<1.6	ND<1.0	ND<2.0	3.5	ND<2.0	ND<3.5	ND<2.2	NA	--	ND<0.20	0.0
SG 20	Residential	12/15/2018	5.5	ND<3.4	ND<2.8	ND<2.0	ND<2.0	ND<1.3	ND<2.4	ND<2.8	ND<2.5	ND<8.8	ND<2.8	NA	--	ND<0.050	0.0
SG 20 DUP	Residential	12/15/2018	5.5	ND<3.4	ND<2.8	ND<2.0	ND<2.0	ND<1.3	ND<2.4	ND<2.8	ND<2.5	ND<8.8	ND<2.8	NA	--	ND<0.050	0.0
SG20	Residential	6/17/2020	5.5	**130**	**25**	ND<1.6	ND<1.6	ND<1.0	ND<2.0	2.3	3.1	**140**	ND<2.2	NA	--	ND<0.15	0.0
SG21	Residential	6/22/2020	5.5	4.0	ND<2.1	ND<1.6	ND<1.6	ND<1.0	**9.7**	3.7	2.5	ND<3.5	ND<2.2	NA	--	ND<0.20	0.0
ESL				*15*	*16*	*280*	*2,800*	*0.32*	*4.1*	*No Value*	*No Value*	*34*	*35,000*	*No Value*	*No Value*	*No Value*	*No Value*

Notes:

Feet bgs = Feet Below Ground Surface.
PCE = Tetrachloroethene.
TCE = Trichloroethene.
cis-1,2-DCE = cis-1,2-Dichloroethene.
trans-1,2-DCE = trans-1,2-Dichloroethene.
1,1-TCA = 1,1-Trichloroethane.
DFA = Difluoroethane.
NA = Not Analyzed.
ND = Not Detected.
NR = Not Reported.
-- = No Value.
b = Laboratory Note: Estimated Value.
ESL = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated July 2019 (Revision 2), Soil Gas Tier 1 ESL from Summary of Vapor ESLs.
BOLDED concentrations exceed their respective ESL value.
Results and ESLs in micrograms per cubic meter (μg/m3), unless otherwise indicated.

Table 2B
Summary of Soil Gas Sample Analytical Results - Petroleum and Related VOCs

Sample ID	Land Use	Sample Date	Probe Depth (Feet bgs)	TPH-G	Benzene	Toluene	Ethyl-benzene	m,p-Xylenes	o-Xylenes	Naphthalene	MEK	Carbon Disulfide	Hexane	DFA (Tracer Gas)	Percent Shroud (DFA)	Helium (Tracer Gas) (%)	Percent Shroud (Helium)	Carbon Dioxide (%)	Carbon Monoxide (%)	Oxygen (%)	Methane (%)
SG1	Residential	8/14/2017	5.5	NA	ND<3.19	4.11	ND<4.34	ND<8.68	ND<4.34	NA	NR	NR	NR	ND<27,014	0.0	NA	--	NA	NA	NA	NA
SG1	Residential	6/17/2020	5.5	NA	ND<1.3	ND<1.5	ND<4.3	ND<3.5	ND<1.7	ND<10	ND<5.9	ND<1.2	ND<1.4	NA	--	ND<0.20	0.0	6.7	NA	14	ND<0.20
SG2	Residential	8/14/2017	5.5	NA	ND<3.19	10.6	ND<4.34	ND<8.68	ND<4.34	NA	NR	NR	NR	ND<27,014	0.0	NA	--	NA	NA	NA	NA
SG2 DUP	Residential	8/14/2017	5.5	NA	ND<3.19	10.4	ND<4.34	ND<8.68	ND<4.34	NA	NR	NR	NR	ND<27,014	0.0	NA	--	NA	NA	NA	NA
SG2	Residential	10/17/2018	6.5	NA	ND<3.3	ND<3.9	ND<4.5	ND<4.5	ND<4.5	NA	NR	NR	NR	NA	--	ND<0.21	0.0	1.9	ND<0.21	16	ND<0.21
SG2	Residential	6/18/2020	5.5	NA	ND<2.6	ND<3.0	ND<8.7	ND<6.9	ND<3.5	ND<21	ND<12	ND<2.5	ND<2.8	NA	--	ND<0.20	0.0	3.6	NA	18	ND<0.20
SG3	Residential	8/14/2017	5.5	NA	ND<3.19	ND<3.77	ND<4.34	ND<8.68	ND<4.34	NA	NR	NR	NR	ND<27,014	0.0	NA	--	NA	NA	NA	NA
SG3	Residential	6/17/2020	5.5	NA	ND<1.3	ND<1.5	ND<4.3	ND<3.5	ND<1.7	ND<10	ND<5.9	ND<1.2	ND<1.4	NA	--	ND<0.20	0.0	5.8	NA	15	ND<0.20
SG4	Residential	9/6/2018	5.5	NA	ND<3.4	ND<4.0	ND<4.6	ND<4.6	ND<4.6	NA	17	ND<3.3	ND<3.7	NA	--	ND<0.21	0.0	3.5	NA	15	NA
SG4	Residential	10/17/2018	5.5	NA	ND<10	ND<12	ND<14	ND<14	ND<14	NA	NR	NR	NR	NA	--	ND<0.21	0.0	2.8	ND<0.21	15	ND<0.21
SG4	Residential	6/18/2020	5.5	NA	ND<26	ND<30	ND<87	ND<69	ND<35	ND<210	ND<120	ND<25	ND<28	NA	--	ND<0.20	0.0	5.0	NA	16	ND<0.20
SG4-DUP	Residential	6/18/2020	5.5	NA	ND<26	ND<30	ND<87	ND<69	ND<35	ND<210	ND<120	ND<25	ND<28	NA	--	ND<0.20	0.0	5.1	NA	16	ND<0.20
SG5	Residential	9/6/2018	5.5	NA	ND<3.1	ND<3.7	ND<4.3	ND<4.3	ND<4.3	NA	ND<9.7	ND<3.1	ND<3.5	NA	--	ND<0.20	0.0	1.2	NA	17	NA
SG5 DUP	Residential	9/6/2018	5.5	NA	ND<3.1	ND<3.7	ND<4.2	ND<4.2	ND<4.2	NA	ND<9.5	ND<3.0	ND<3.4	NA	--	ND<0.19	0.0	1.2	NA	17	NA
SG5	Residential	10/17/2018	5.5	NA	ND<3.3	ND<3.9	ND<4.5	ND<4.5	ND<4.5	NA	NR	NR	NR	NA	--	ND<0.21	0.0	0.98	ND<0.21	17	ND<0.21
SG5	Residential	6/18/2020	5.5	NA	ND<1.3	ND<1.5	ND<4.3	ND<3.5	ND<1.7	ND<10	ND<5.9	ND<1.2	ND<1.4	NA	--	ND<0.20	0.0	1.9	NA	19	ND<0.20
SG6	Residential	6/4/2018	5.5	580	0.64, b	3.2, b	1.2, b	4.9, b	2.9, b	NA	NR	NR	NR	NA	--	ND<0.21	0.0	7.5	NA	9.9	ND<0.21
SG6-DUP	Residential	6/4/2018	5.5	770	0.54, b	2.3, b	1.1, b	5.0, b	2.9, b	NA	NR	NR	NR	NA	--	ND<0.23	0.0	7.4	NA	9.7	ND<0.23
SG6	Residential	10/17/2018	5.5	NA	ND<6.7	ND<7.9	ND<9.1	ND<9.1	ND<9.1	NA	NR	NR	NR	NA	--	1.1	5.5	8.1	ND<0.21	11	ND<0.21
SG6-DUP	Residential	10/17/2018	5.5	NA	ND<6.5	ND<7.7	ND<8.9	ND<8.9	ND<8.9	NA	NR	NR	NR	NA	--	1.1	5.5	8.1	ND<0.20	11	ND<0.20
SG6	Residential	6/18/2020	5.5	NA	ND<26	ND<30	ND<87	ND<69	ND<35	ND<210	ND<120	ND<25	ND<28	NA	--	ND<0.20	0.0	13	NA	9.5	ND<0.20
SG6-DUP	Residential	6/18/2020	5.5	NA	ND<26	ND<30	ND<87	ND<69	ND<35	ND<210	ND<120	ND<25	ND<28	NA	--	ND<0.20	0.0	12	NA	11	ND<0.20
SG7	Residential	6/4/2018	5.5	110, b	0.16, b	0.42, b	ND<5.0	0.47, b	0.45, b	NA	NR	NR	NR	NA	--	ND<0.23	0.0	2.9	NA	14	ND<0.23
SG7	Residential	6/18/2020	5.5	NA	ND<1.3	ND<1.5	ND<4.3	ND<3.5	ND<1.7	ND<10	ND<5.9	ND<1.2	ND<1.4	NA	--	ND<0.20	0.0	4.8	NA	16	ND<0.20
SG8	Residential	6/5/2018	5.5	200, b	0.26, b	1.4, b	0.22, b	0.98, b	0.33, b	NA	NR	NR	NR	NA	--	ND<0.23	0.0	3.3	NA	14	ND<0.23
SG8	Residential	6/18/2020	5.5	NA	ND<1.3	ND<1.5	ND<4.3	ND<3.5	ND<1.7	ND<10	ND<5.9	ND<1.2	ND<1.4	NA	--	ND<0.20	0.0	4.7	NA	16	ND<0.20
SG9	Residential	6/5/2018	5.5	ND<440	ND<3.4	0.45, b	0.20, b	0.34, b	0.15, b	NA	NR	NR	NR	NA	--	ND<0.21	0.0	2.3	NA	15	ND<0.21
SG9	Residential	6/22/2020	5.5	NA	ND<1.3	ND<1.5	ND<4.3	ND<3.5	ND<1.7	ND<10	ND<5.9	ND<1.2	ND<1.4	NA	--	ND<0.20	0.0	3.7	NA	18	ND<0.20
SG10	Residential	10/18/2018	5.5	NA	ND<3.0	ND<3.5	ND<4.1	6.4	4.9	NA	NR	NR	NR	NA	--	ND<0.19	0.0	2.2	ND<0.19	16	ND<0.19

Table 2B
Summary of Soil Gas Sample Analytical Results - Petroleum and Related VOCs

SG11	Residential	10/18/2018	5.5	NA	ND<3.3.	ND<3.9	ND<4.5	ND<4.5	ND<4.5	NA	NR	NR	NR	NA	--	ND<0.21	0.0	2.6	ND<0.21	15	ND<0.21
SG11	Residential	6/17/2020	5.5	NA	ND<26	ND<30	ND<87	ND<69	ND<35	ND<210	ND<120	ND<25	ND<28	NA	--	ND<0.20	0.0	5.0	NA	16	ND<0.20
SG12	Residential	10/18/2018	5.5	NA	ND<3.3	ND<3.8	ND<4.4	ND<4.4	ND<4.4	NA	NR	NR	NR	NA	--	ND<0.20	0.0	2.4	ND<0.20	15	ND<0.20
SG12	Residential	6/18/2020	5.5	NA	2.5	20	28	140	55	ND<10	ND<5.9	ND<1.2	ND<1.4	NA	--	ND<0.20	0.0	2.8	NA	19	ND<0.76
SG13	Residential	10/18/2018	5.5	NA	ND<2.9	ND<3.4	ND<3.9	ND<3.9	ND<3.9	NA	NR	NR	NR	NA	--	ND<0.18	0.0	1.7	ND<0.18	16	ND<0.18
SG13	Residential	6/22/2020	5.5	NA	ND<1.3	ND<1.5	ND<4.3	ND<3.5	ND<1.7	ND<10	ND<5.9	ND<1.2	ND<1.4	NA	--	ND<0.20	0.0	3.8	NA	18	ND<0.20
SG14	Residential	10/18/2018	5.5	NA	**6.9**	ND<3.8	ND<4.4	ND<4.4	ND<4.4	NA	NR	NR	NR	NA	--	ND<0.20	0.0	2.8	ND<0.20	10	0.82
SG14	Residential	6/22/2020	5.5	NA	ND<1.3	ND<1.5	ND<4.3	ND<3.5	ND<1.7	ND<10	110	5.2	2.3	NA	--	ND<0.20	0.0	8.6	NA	9.8	ND<0.20
SG 15	Residential	12/15/2018	5.5	NA	ND<1.6	ND<1.9	ND<2.2	ND<4.4	ND<2.2	NA	ND<75	4.2	ND<18	NA	--	ND<0.050	0.0	5.1	NA	15	NA
SG15	Residential	6/22/2020	5.5	NA	ND<1.3	ND<1.5	ND<4.3	ND<3.5	ND<1.7	ND<10	ND<5.9	ND<1.2	ND<1.4	NA	--	ND<0.40	0.0	2.6	NA	18	ND<0.40
SG 16	Residential	12/15/2018	5.5	NA	ND<1.6	ND<1.9	ND<2.2	ND<4.4	ND<2.2	NA	ND<75	ND<1.6	ND<18	NA	--	ND<0.050	0.0	0.82	NA	18	NA
SG 17	Residential	12/15/2018	5.5	NA	ND<1.6	ND<1.9	ND<2.2	ND<4.4	ND<2.2	NA	ND<75	ND<1.6	60	NA	--	ND<0.050	0.0	0.99	NA	17	NA
SG17	Residential	6/22/2020	5.5	NA	ND<1.3	ND<1.5	ND<4.3	ND<3.5	ND<1.7	ND<10	ND<5.9	ND<1.2	ND<1.4	NA	--	ND<0.20	0.0	0.88	NA	17	ND<0.20
SG 18	Residential	12/10/2018	5.5	NA	ND<1.6	ND<1.9	ND<2.2	ND<4.4	ND<2.2	NA	ND<75	ND<1.6	ND<18	NA	--	ND<0.050	0.0	8.3	NA	14	NA
SG18	Residential	6/17/2020	5.5	NA	ND<1.3	ND<1.5	ND<4.3	ND<3.5	ND<1.7	ND<10	ND<5.9	ND<1.2	ND<1.4	NA	--	ND<0.20	0.0	5.5	NA	16	ND<0.20
SG19	Residential	6/17/2020	5.5	NA	ND<1.3	ND<1.5	ND<4.3	ND<3.5	ND<1.7	ND<10	ND<5.9	ND<1.2	ND<1.4	NA	--	ND<0.20	0.0	4.1	NA	17	ND<0.20
SG 20	Residential	12/15/2018	5.5	NA	ND<1.6	ND<1.9	ND<2.2	ND<4.4	ND<2.2	NA	ND<75	4.2	ND<18	NA	--	ND<0.050	0.0	2.6	NA	18	NA
SG 20 DUP	Residential	12/15/2018	5.5	NA	ND<1.6	ND<1.9	ND<2.2	ND<4.4	ND<2.2	NA	ND<75	4.2	ND<18	NA	--	ND<0.050	0.0	2.5	NA	18	NA
SG20	Residential	6/17/2020	5.5	NA	ND<1.3	ND<1.5	ND<4.3	ND<3.5	ND<1.7	ND<10	ND<5.9	ND<1.2	11	NA	--	ND<0.15	0.0	1.7	NA	19	ND<0.15
SG21	Residential	6/22/2020	5.5	NA	1.7	12	ND<4.3	10	7.6	ND<10	ND<5.9	3.3	ND<1.4	NA	--	ND<0.20	0.0	4.3	NA	17	ND<0.20
ESL				*3,300*	*3.2*	*10,000*	*37*	*Combined = 3,500*		*2.8*	*170,000*	*No Value*	*No Value*	*No Value*	*No Value*	*No Value*	*No Value*	*No Value*	*No Value*	*No Value*	*No Value*

Notes:
Feet bgs = Feet Below Ground Surface.
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
MEK = Methyl Ethyl Ketone (2-Butanone).
NA = Not Analyzed.
ND = Not Detected.
NR = Not Reported.
-- = No Value.
b = Laboratory Note: Estimated Value.
ESL = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated July 2019 (Revision 2), Soil Gas Tier 1 ESL from Summary of Vapor ESLs.
BOLDED concentrations exceed their respective ESL value.
Results and ESLs in micrograms per cubic meter (µg/m3), unless otherwise indicated.

FIGURES

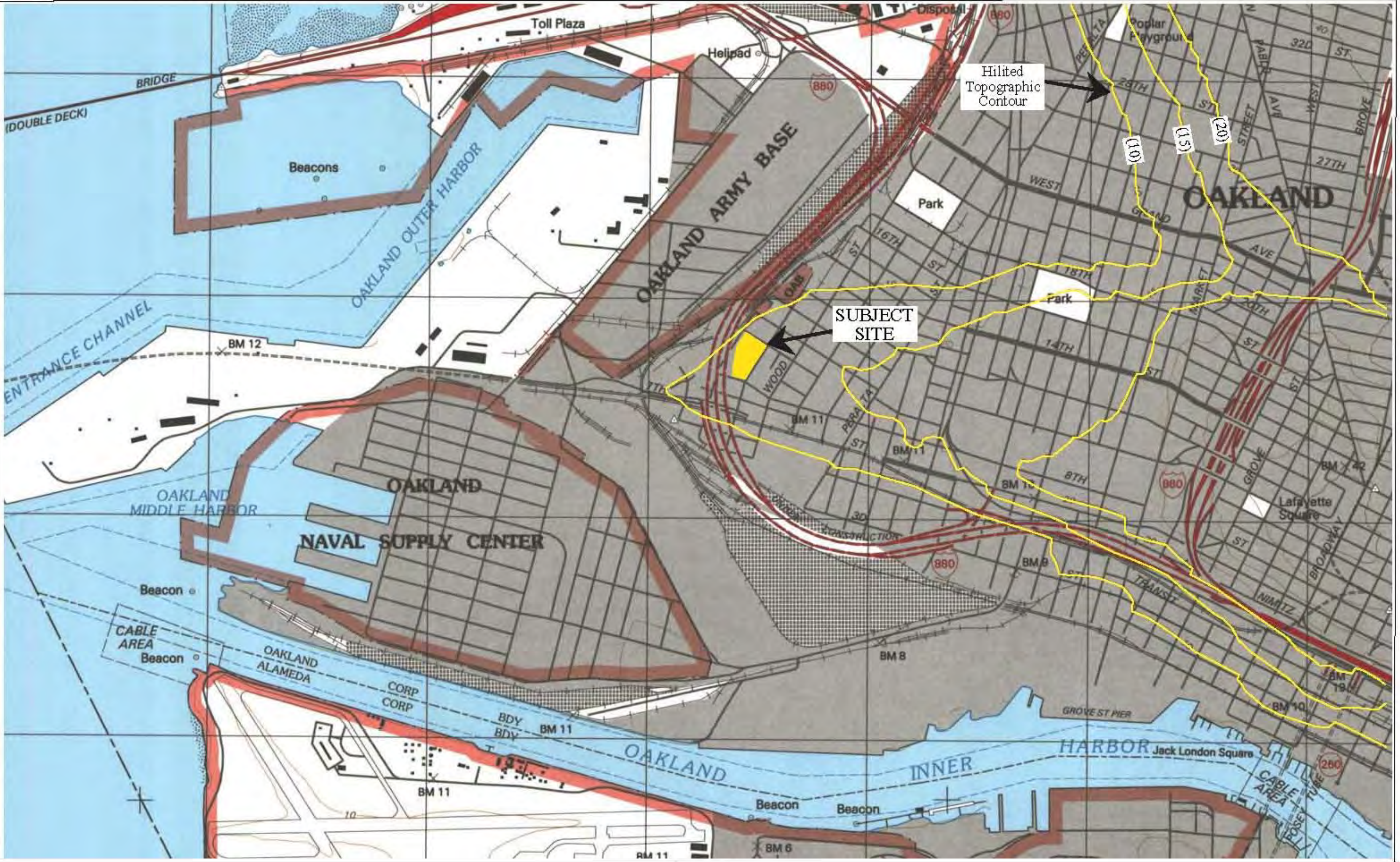

Figure 1
Site Location Map
The Phoenix
801 Pine Street
Oakland, California

Base Map from:
U.S. Geological Survey 7.5-Minute Quadrangle,
Oakland West, California, Map edited 1993

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 1,000 2,000
Approximate Scale in Feet

↑ N

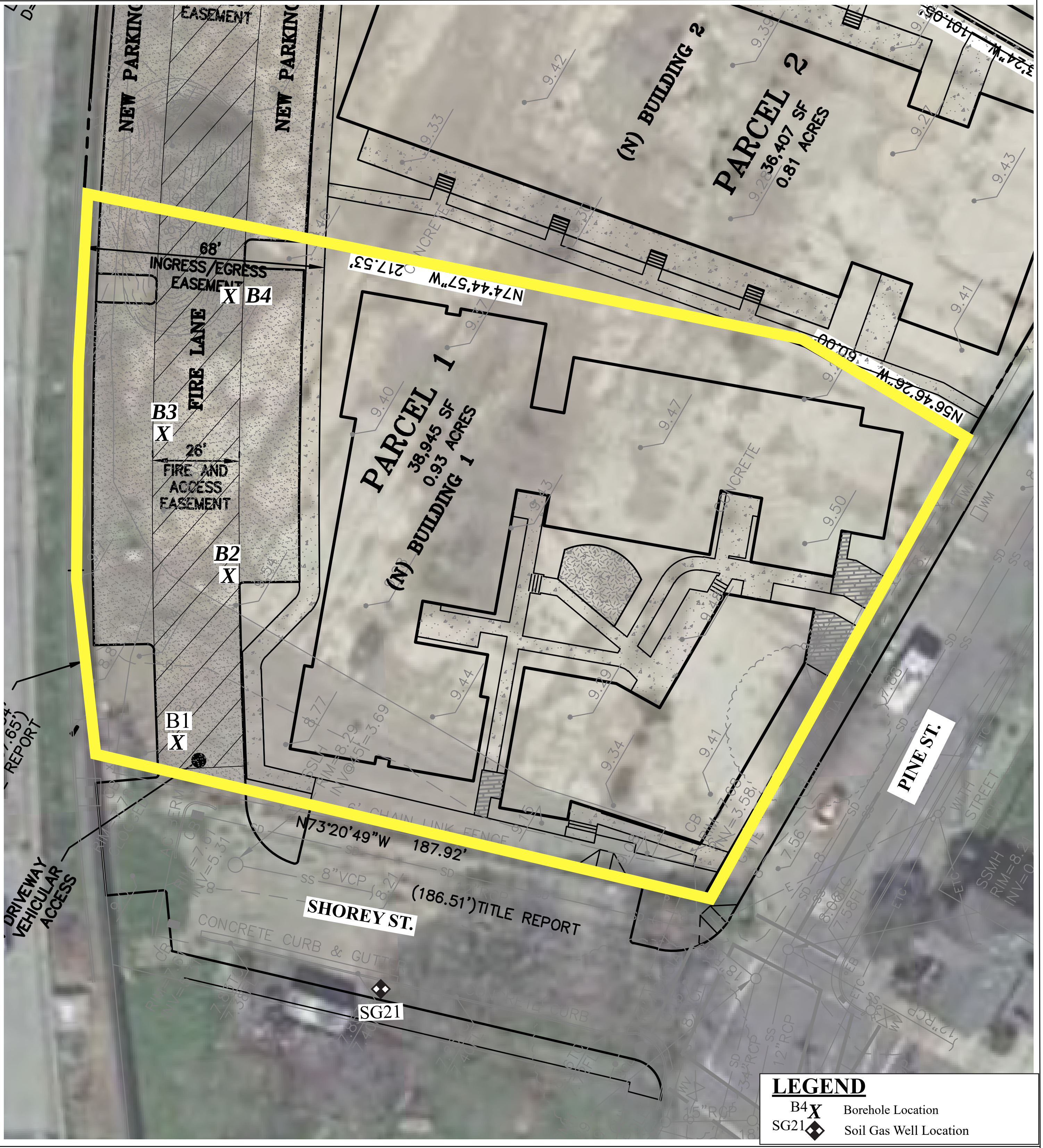

Figure 2
Site Aerial Photograph Detail Showing Borehole B1 Through B4 and Soil Gas Well SG21 Locations
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Lea & Braze Engineering, Inc. Tentative Parcel Map 10835, January 5, 2018, and Google Earth

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55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 30 60
Approximate Scale in Feet

N

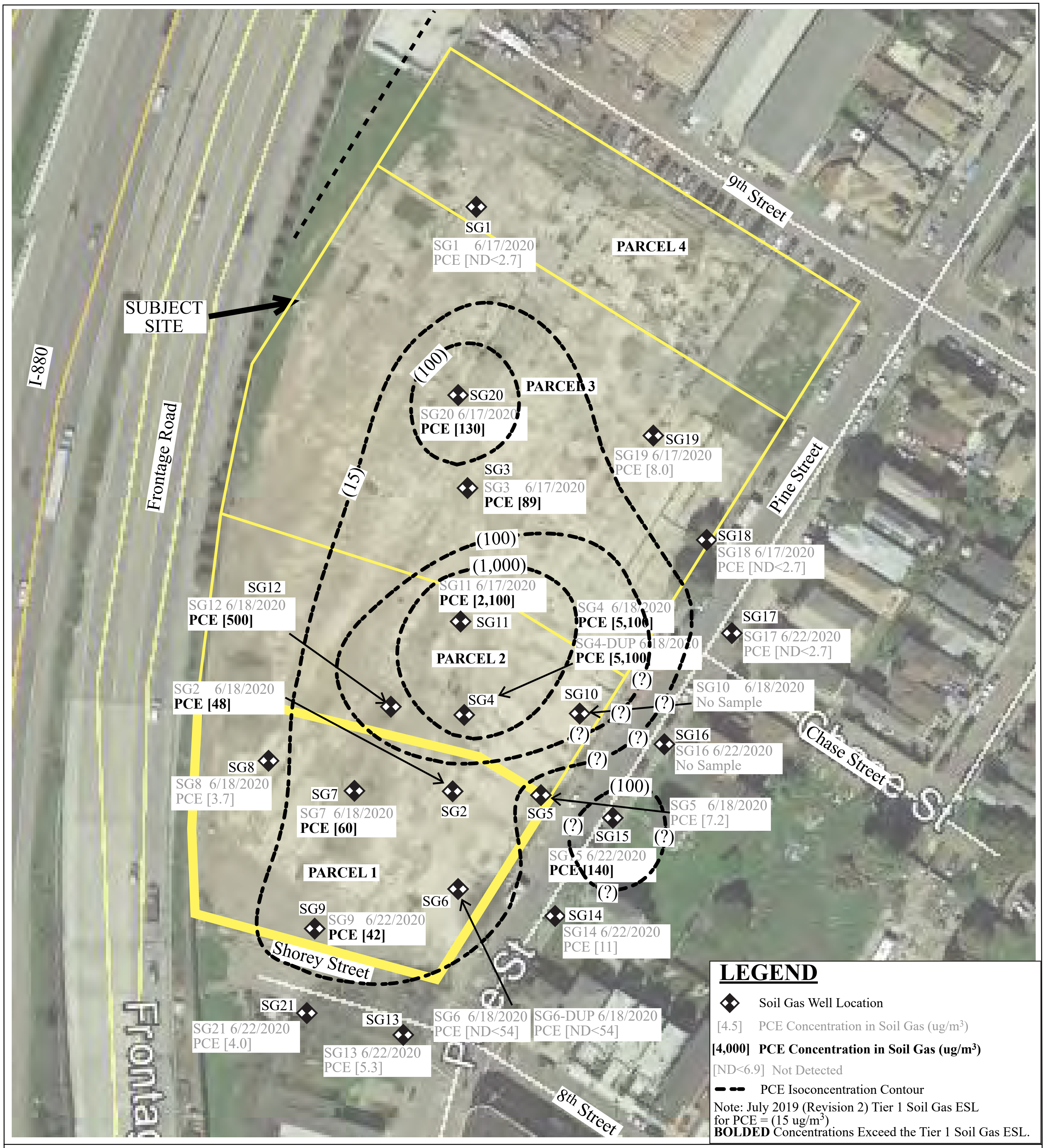

Figure 3
Site Aerial Photograph Showing PCE in Soil Gas
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Lea & Braze Engineering, Inc. Parcel Map No. 10835, For 4 Lot Subdivision For Residential Purposes, City of Oakland, Alameda County, State of California, October 2019, and Google Earth, Imagery Dated March 11, 2017

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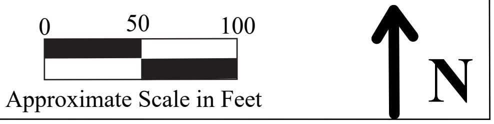
Oakland, CA 94610



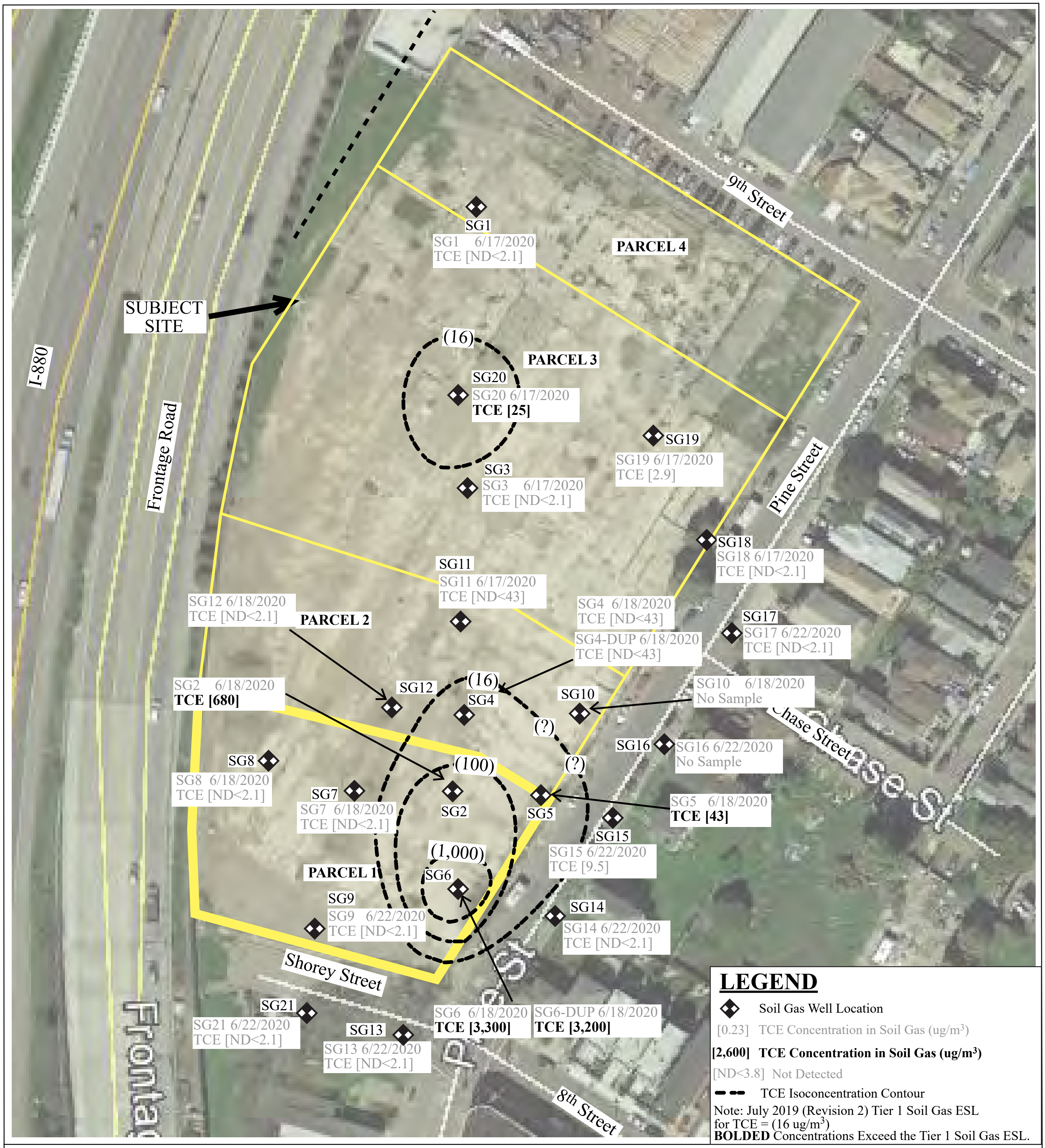


Figure 4
Site Aerial Photograph Showing TCE in Soil Gas
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Lea & Braze Engineering, Inc.
Parcel Map No. 10835, For 4 Lot Subdivision For
Residential Purposes, City of Oakland, Alameda
County, State of California, October 2019, and
Google Earth, Imagery Dated March 11, 2017

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 50 100
Approximate Scale in Feet

N

APPENDIX A

Soil Boring Logs

- B1 Through B4 (4 pp)
- SG21 (1 p)

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PAGE 1 OF 1

BORING NO.: B1	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 15 ft. east and 6 ft. north of southwest corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: Cascade Drilling	**DRILLER:** Fernando	**DATE & TIME STARTED:** 6/19/20 0925	**DATE & TIME FINISHED:** 6/19/20 1055
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger and Geoprobe DT			
COMPLETION DEPTH: 8.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LDF	**CHECKED BY:**
FIRST WATER DEPTH: 6.0 Feet	**NO. OF SAMPLES:** 3 Soil		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.3 ft. (3.0-inches) Asphalt (FILL)	FILL		No Well Constructed	1.6	Asphalt broken, then borehole hand augered from 0.3 to 5.0 ft. using a 3.5-inch O.D. hand auger and then continuously cored to 8.0 ft. using a Geoprobe DT dual tube sampling system where the smaller 5.0-foot long 1.5-inch O.D. rods were placed inside 5-foot long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-foot long 1.75-inch O.D. transparent PVC tube.
	0.3 to 3.0 ft. Brown gravelly sand (FILL); medium dry, with some metal and glass fragments. No Petroleum Hydrocarbon (PHC) or solvent odors. (30,60,10)				1.4	
5	3.0 to 6.5 ft. Yellow-brown silty sand (SM); medium dense, dry. No PHC or solvent odors. (0,60,40) X X X Moist at 6.0 ft.	SM		B1-3.0 B1-4.0 B1-5.0 ▽	0.6 0.9 0.4 0	The sand catcher was removed from the transparent PVC tube prior to soil sample collection.
	6.5 to 7.0 ft. Brown silty clay (CL/CH); medium stiff, wet. No PHC or solvent odors. (0,0,100)	CL/CH		▼	0	
	7.0 to 8.0 ft. Yellow-brown silty sand (SM); medium dense, wet. No PHC or solvent odors. (0,60,40)	SM				
10 15 20 25 30						Soil samples were collected using a steel sampler driven by a slide hammer. The sampler was lined with a 6.0-inch long 2.0-inch O.D. stainless steel tube. Water was encountered at 6.0 ft. at 0950. Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Water level was measured at 7.0 ft. at 1027 and 1111. No water sample collected. Borehole terminated at 8.0 ft. and borehole grouted with neat cement grout and a tremie pipe on 6/19/20. Inspector Eneyew Amberber with Alameda County Public Works Agency onsite to observe and document grouting of the borehole. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.

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PAGE 1 **OF** 1

BORING NO.:	B2	**PROJECT NO.:**	0772	**PROJECT NAME:**	The Phoenix - 801 Pine Street, Oakland
BORING LOCATION:	Approximately 40 ft. east and 65 ft. north of southwest corner of property			**ELEVATION AND DATUM:**	None
DRILLING AGENCY:	Cascade Drilling	**DRILLER:**	Fernando	**DATE & TIME STARTED:**	6/19/20 1010
DRILLING EQUIPMENT:	3.5-inch O.D. Hand Auger and Geoprobe DT			**DATE & TIME FINISHED:**	6/19/20 1035
COMPLETION DEPTH:	7.0 Feet	**BEDROCK DEPTH:**	Not Encountered	**LOGGED BY:**	LDF
FIRST WATER DEPTH:	Not Encountered	**NO. OF SAMPLES:**	2 Soil	**CHECKED BY:**	PMK

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.3 ft. (4.0-inches) Concrete (FILL)			No Well Constructed	0.6	Concrete broken, then borehole hand augered from 0.3 to 5.0 ft. using a 3.5-inch O.D. hand auger and then continuously cored to 7.0 ft. using a Geoprobe DT dual tube sampling system where the smaller 5.0-foot long 1.5-inch O.D. rods were placed inside 5-foot long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-foot long 1.75-inch O.D. transparent PVC tube.
	0.3 to 1.8 ft. Gray-brown sand (FILL); medium dense, dry, with gravel, and some brick and glass fragments. No Petroleum Hydrocarbon (PHC) or solvent odors. (15,75,10)	FILL X		B2-2.0	0.1 0.1	
5	1.8 to 7.0 ft. Yellow-brown silty sand (SM); medium dense, dry. No PHC or solvent odors. (0,60,40) Moist at 6.5 ft.	X SM		B2-4.0	0.1 0 0	
10 15 20 25 30						The sand catcher was removed from the transparent PVC tube prior to soil sample collection. Soil samples were collected using a steel sampler driven by a slide hammer. The sampler was lined with a 6.0-inch long 2.0-inch O.D. stainless steel tube. Water was not encountered during drilling. Borehole terminated at 7.0 ft. and borehole grouted with neat cement grout and a tremie pipe on 6/19/20. Inspector Eneyew Amberber with Alameda County Public Works Agency onsite to observe and document grouting of the borehole. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.

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PAGE 1 OF 1

BORING NO.: B3 **PROJECT NO.:** 0772 **PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland

BORING LOCATION: Approximately 22 ft. east and 102 ft. north of southwest corner of property **ELEVATION AND DATUM:** None

DRILLING AGENCY: Cascade Drilling **DRILLER:** Fernando

DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger and Geoprobe DT

DATE & TIME STARTED: 6/19/20 1120

DATE & TIME FINISHED: 6/19/20 1135

COMPLETION DEPTH: 7.0 Feet **BEDROCK DEPTH:** Not Encountered

FIRST WATER DEPTH: Not Encountered **NO. OF SAMPLES:** 2 Soil

LOGGED BY: LDF

CHECKED BY: PMK

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.5 ft. (6.0-inches) Concrete (FILL)			No Well Constructed	0.3	Concrete broken, then borehole hand augered from 0.5 to 5.0 ft. using a 3.5-inch O.D. hand auger and then continuously cored to 7.0 ft. using a Geoprobe DT dual tube sampling system where the smaller 5.0-foot long 1.5-inch O.D. rods were placed inside 5-foot long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-foot long 1.75-inch O.D. PVC tube.
	0.5 to 1.5 ft. Gray-brown sand (FILL); medium dense, dry, with gravel, and some glass fragments. No Petroleum Hydrocarbon (PHC) or solvent odors. (15,75,10)	FILL X		B3-2.0	0.2 0.0	
5	1.5 to 7.0 ft. Yellow-brown silty sand (SM); medium dense, dry. No PHC or solvent odors. (0,60,40) Moist at 6.5 ft.	X SM		B3-4.0	0.5 0.4 0.3 0.1	
10 15 20 25 30						The sand catcher was removed from the transparent PVC tube prior to soil sample collection. Soil samples were collected using a steel sampler driven by a slide hammer. The sampler was lined with a 6.0-inch long 2.0-inch O.D. stainless steel tube. Water was not encountered during drilling. Borehole terminated at 7.0 ft. and borehole grouted with neat cement grout and a tremie pipe on 6/19/20. Inspector Eneyew Amberber with Alameda County Public Works Agency gave verbal permission to grout the borehole. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.

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PAGE 1 OF 1

BORING NO.: B4	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 40 ft. east and 147 ft. north of southwest corner of property		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: Cascade Drilling	**DRILLER:** Fernando	**DATE & TIME STARTED:** 6/19/20 1150	**DATE & TIME FINISHED:** 6/19/20 1215
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger and Geoprobe DT			
COMPLETION DEPTH: 7.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LDF	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** 2 Soil		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.5 ft. (6.0-inches) Concrete (FILL)			No Well Constructed	0.2	Concrete broken, then borehole hand augered from 0.5 to 5.0 ft. using a 3.5-inch hand auger and then continuously cored to 7.0 ft. using a Geoprobe DT dual tube sampling system where the smaller 5.0-foot long 1.5-inch O.D. rods were placed inside 5-foot long 2.25-inch O.D. outer casing. The smaller rod was lined with a 5.0-foot long 1.75-inch O.D. transparent PVC tube.
	0.5 to 1.5 ft. Gray-brown sand (FILL); medium dense, dry, with gravel, and some glass fragments. No Petroleum Hydrocarbon (PHC) or solvent odors. (15,75,10)	FILL X		B4-2.0	0.1	
	1.5 to 7.0 ft. Yellow-brown silty sand (SM); medium dense, dry. No PHC or solvent odors. (0,60,40) Moist at 6.5 ft.	X SM		B4-4.0	0 0 0.1 0.1 0	
5						
10						The sand catcher was removed from the transparent PVC tube prior to soil sample collection. Soil samples were collected using a steel sampler driven by a slide hammer. The sampler was lined with a 6.0-inch long 2.0-inch O.D. stainless steel tube. Water was not encountered during drilling. Borehole terminated at 7.0 ft. and borehole grouted with neat cement grout and a tremie pipe on 6/19/20. Inspector Eneyew Amberber with Alameda County Public Works Agency gave verbal permission to grout the borehole. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
15						
20						
25						
30						

P&D ENVIRONMENTAL, INC.

PAGE 1 **OF** 1

BORING NO.: SG21	**PROJECT NO.:** 0772	**PROJECT NAME:** The Phoenix - 801 Pine Street, Oakland	
BORING LOCATION: Approximately 80 ft. west of Pine St., in planter on south side of Shorey St.		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: Cascade Drilling	**DRILLER:** Fernando	**DATE & TIME STARTED:** 6/19/20 0745	**DATE & TIME FINISHED:** 6/19/20 0815
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 7.0 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** LDF	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** None		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 2.0 ft. Brown silty sand (FILL); medium dense, dry, with gravel . No Petroleum Hydrocarbon (PHC) or solvent odors. (15,65,20)	FILL		Soil Gas Well Constructed; (See Description Below In Remarks Column)	0.3 0.1	Borehole hand augered from 0.0 to 7.0 ft. using 3.5-inch O.D. hand auger. Water not encountered during hand augering. Borehole terminated at 7.0 ft. and soil gas well constructed in borehole on 6/19/20.
5	2.0 to 5.5 ft. Yellow-brown gravelly sand (SW); medium dense, dry. No PHC or solvent odors. (20,65,15)	SW			0.1 0	
	5.5 to 7.0 ft. Yellow-brown silty sand (SM); medium dense, dry. No PHC or solvent odors. (0,60,40)	SM			0	
10						Soil gas well constructed with Cemex #2/12 sack sand from 7.0 to 5.0 ft. bgs, hydrated bentonite from 5.0 to 4.5 ft. bgs, neat cement grout from 4.5 to 0.5 ft. bgs, and 7.0 ft. of 0.25-inch O.D. Teflon tubing with a HDPE filter at the bottom of the tubing at a depth of 5.5 ft. bgs. A Swagelok nut and plug were placed at the top of the tubing and the top of the well was enclosed in a traffic-rated vault. Mr. Eneyew Amberber with Alameda County Public Works Agency onsite to observe and document pouring of the sanitary seal. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
15						
20						
25						
30						

APPENDIX B

Enthalpy Analytical Field Guide For Use of the Helium Shrouds, Purge Volume Calculations, and Soil Gas Sampling Data Sheets

- **Enthalpy Analytical Field Guide For Use of the Helium Shrouds (9 pp)**
- **Soil Gas Purge Volume Calculations (1 p)**
- **June 17, 18, and 22, 2020 Soil Gas Sampling Data Sheets (21 pp)**

ENTHALPY ANALYTICAL

Field Guide for Use of the
HELIUM SHROUDS

Table of Contents

Figures & Diagrams

Introduction

Sampling soil gas wells using Helium leak tracer is not inherently difficult using Enthalpy Analytical's equipment, but it is relatively unforgiving of mistakes. The equipment has been field tested and through these tests we've learned that good results necessitate reviewing this document and following the procedures specified here. We strongly encourage our clients to practice set-up, Helium charging the shroud, using the detectors, and breakdown prior to sample collection. We've seen a very strong correlation between a thorough equipment orientation and successful sampling events. User errors related to a lack of orientation and preparation are the primary root cause of sampling errors and equipment failures.

The equipment supplied by Enthalpy Analytical's Berkeley laboratory has been cleaned, assembled, and leak tested using both pressurized Helium and vacuum decay methods. The preparation of all sampling equipment and media has been thoroughly documented.

If you suspect the sampling equipment is damaged or not functional, before using it please inform your laboratory Project Manager by calling the lab at 510-486-0900. Used and returned damaged equipment will be assessed cost for repair and replacement. Please do not disassemble and reassemble sampling trains and shrouds. They have been critically cleaned, assembled and leak checked for your use without further need for alteration. By breaking connections in sampling trains, users invalidate the lab's cleaning and prep effort.

Use of and Care for the EA-Berkeley Helium Detectors

When used properly, these diffusion cell He detectors provide real time measurement of Helium concentration in air from 1% to 99% Helium to accuracies of 0.1%. Prior to delivery, the He detectors are calibrated and performance verified. If, upon initial check, you discover the He gauge is apparently not working properly, call your C&T project manager immediately; repair and replacement costs will be assessed for all sensors returned damaged to the lab.

Figure 1: Diffusion Cell (left) and Flow-Through cell (right) Helium Detectors

Battery Charges last 4 hours: Helium Detectors using rechargeable NiCd batteries are fully charged before leaving the lab and hold a charge for 4 hours of use. Turn detectors on for use and off immediately after use and you'll make it through a day's sampling event without losing charge. The lab does not supply rechargers to users because the Diffusion and Flow-Through types require different voltages; using the wrong charger damages the detectors.

3 position switch: **On** is up, **Off** is neutral and down.

Required use technique for accurate Helium tracer measurements: These He detectors are sufficiently durable for portable field use; however they are precision measurement devices unforgiving of mistreatment or abuse, accordingly:

- Keep the He detector clean at all times, particularly around the white diffusion membrane cell opening. Dirt on, or in, the diffusion cell well will compromise calibration and result in extra fees for cleaning and recalibration.
- The He detectors are shock sensitive. Dropping the gauges onto a hard surface from a height of 2' or more can compromise calibration and may irreversibly damage the sensor and cause replacement or maintenance cost assessments. Please store and transport the gauges in the foam lined box provided.
- Helium detectors are moisture sensitive, don't get them wet

Accepting Enthalpy's Helium detectors binds your firm to the following conditions of use:

- Replacement costs are $900 + applicable shipping costs and sales tax.
- Minimum diagnostic, recalibration, and maintenance charges for damaged sensors are $120.

1. SETTING UP the Equipment

Equipment Supplied by EA-Berkeley

The following equipment should be present in the supply kit provided from the lab:

a. Integral shroud box and sampling train with 3 port valve
b. Helium supply components a) Helium bottle(s) (one bottle supplies enough for 4 wells), b) Braided steel Helium transfer tube with male QT connectors and; 3) Helium supply regulator with female QT connector
c. Helium Detector: Diffusion cell type (4 hours use on one charge)
d. Helium Detector: Flow-Through type (4 hours use on one charge)
e. Male QT ¼" OD Teflon tubing connector for connecting in port on flow through Helium detector to Purge port on Shroud
f. QT Vacuum gauge
g. 1.4 liter Sample canisters, one for each sample to be taken, some users request an extra to cover any aborted sampling events, well relocations etc…
h. Graphite or Ceramic ferules for joining ¼" OD Teflon tubing to well, one provided in each shroud/train inside the nut in the open port of the 3 port valve used to connect the soil gas well to the train.

Equipment NOT supplied by EA-Berkeley:

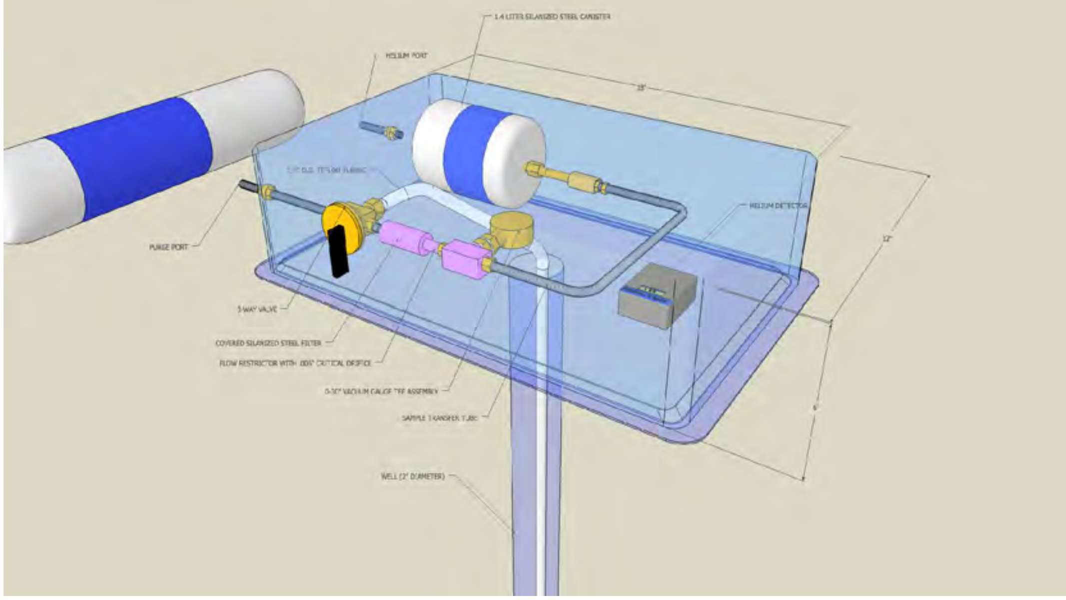
You will need the following items to complete your work; these items are not supplied by C&T unless specially requested:

a. Well purge suction source, alternatives available from the lab are: a) 50 ml disposable syringe with tubing adapters, b) evacuated 6 liter summa canister with 180 ml/min flow restrictor and filter, c) battery powered vacuum pump, d) 110V VAC powered vacuum pump
b. ½" x 9/16" open end combination wrench and one small crescent wrench. These are the tools needed to make compression fitting connections. C&T does not rent wrenches.
c. Extra Graphite or ceramic ferules as needed to insure you make a good well to train connection
d. ¼ OD Teflon tubing…Typically the well drillers have a lot of this stuff, if you need it
e. Knife (for cutting Teflon tubing)

1.1. **Position the shroud lid over the well.** Consistent Helium concentrations arise when the shrouds are used with the wellhead box lids provided. Some user protocols specify no box lid; in these cases, piling dirt around the edges of the box works to keep Helium inside the shroud. On windy days, a plastic windscreen employed either as a cover over the shroud or as an "air dam" has provided good results. We've experimented with using yoga mat material as "gaskets" for subslab sampling with mixed results.

If you're using the lid, and we recommend you do, position the lid over the wellhead with the tubing arising through the hole in the lid. There is an audible snap when the lid is optimally attached.

Figure 2: Helium Tracer Shroud Components



1.2. Once the shroud lid is positioned over the well, check that the 3-way valve is in the ***off*** position and the train pressure gauge showing a vacuum.

This is your indication that the train is leak-free since leaving the lab and all you need do is make a tight connection from the well to the open port on the 3-way valve. If the 3-way valve is not in the ***off*** position as a result of some error in shipment, there may be no vacuum on the gauge. At this point, your sampling protocols will determine whether the train can be used or not.

All trains leave the lab holding vacuum with decay rates less than 5” in 12 hours. Many shroud trains have inconsequentially slow leaks; trains are stored more than 3 days since being shipped from the lab may have no vacuum showing on the gauge. In these cases, you can check the vacuum decay rate by connecting an extra canister to the train and observing the vacuum decay rate.

2. CONNECTING the Well to the Train 3-port Valve

2.1. To connect the soil gas well to the sampling train, you will be joining ¼” Teflon tubing to the 3-port valve. Either a ceramic or graphite ferule has been provided inside the nut on the open port of the 3-port valve for you to make this connection. The most important component in a compression fitting is the ferrule, which is prone to damage. Care should be used when installing it although if ceramic or graphite ferules become defective, it is easy to install a replacement.

A “straight” even tubing end in the ¼” OD Teflon tubing from the well to the 3-port valve is important to making a “tight” connection. Use a knife rather than scissors to cut the tubing at a 90 degree angle to the tube axis. Remove any “burrs” or irregularities in the tubing end before attempting the connection. Slip the nut over the tubing, then the ferule. The ferule should “point” toward the 3-port valve. Usually, it is not possible to install ferules “backwards”.

2.2. Keeping the 3 way valve in the ***off*** position, attach the well tubing to the open 3 way valve port. Avoid excessive force when tightening the nut. Over-tightening is the most common cause of leaks in compression fittings. If the nut is over-tightened, the ceramic or graphite ferrule frequently deforms, improperly causing the joint to fail. A good way to make these connections is to tighten the nut first by hand, until it is too difficult to continue, and then use a 9/16” open end wrench to tighten the nut with a full 360 degree turn; no more than a 1 and 1/4 turn should be needed to create a leak tight connection.

3. ATTACHING the Sample Canister to the Train

3.1. **Check the vacuum** in the sample canister using the QT Vacuum gauge, it should read -30” of Hg (full vacuum) if it reads less, use another sample canister.

3.2. While keeping the 3 way valve in the off position, attach the canister to the female QT fitting at the rear of the sampling train as follows:

  3.2.1. Pull the external sleeve of the female QT connector back to its stop, then
  3.2.2. Insert the male valve stem and allow the sleeve to return to its spring loaded position. When the QT connection is made the canister (male) valve is open to the train.
  3.2.3. Try to pull the canister off the train without retracting the female QT sleeve. A correctly made QT connection cannot be broken without retracting the sleeve on the female valve stem.

A word about Micro QT Fittings: Micro Quick connect valves (QT) offer superior performance and ease of use compared to alternative tubing connections and valves. QT fittings provide highly reliable leak free connections without tools especially for fittings that are made and broken frequently.

Fine sand and/or grit (such as dry bentonite) damages male and female QT valves and connections. Keep both male and female QT valve components scrupulously clean. Please use the orange or red plastic caps provided for the male QT fittings, they protect the valve stem while shipping and protect your sample during return shipment to the lab.

When removing or replacing orange plastic protective caps on the male QT fittings, push them straight on and pull then straight off the valve stem. Twisting the cap counterclockwise while removing or replacing on the valve stem can dissemble the valve stem causing vacuum and/or sample loss.

4. POSITIONING the Shroud over the Well

4.1. Position the diffusion Helium gauge out of the way on a portion of the lid that allows you a good view of the display with the shroud in place. Then invert the shroud assembly over the lid and snap lid into position.

4.2. With the shroud assembled in place, you should be able to view the vacuum gauge well enough to verify that vacuum is holding and you can see the Helium detector display. Our apologies for the opaque portions of the boxes, if you know of hard plastic boxes, with clear panels we'd love to learn about them.

5. CHARGING the Shroud with Helium

Enthalpy provides Aluminum lecture bottles filled with 300 psi Helium; each bottle of Helium contains 48 liters at atmospheric pressure, enough to easily supply 20% Helium atmospheres to 6 single Shrouds and 3 double shrouds. The amount of Helium used depends predominantly on wind and time required to sample the well, with experience, you'll use less Helium. Your protocol will specify the Helium concentration in the shroud. The following guidance is based on sampling under a 20-25% Helium in air atmosphere. Regardless of your target helium concentration, your objective

should be to maintain a steady concentration of Helium during the sampling event at levels above 10% Helium in air.

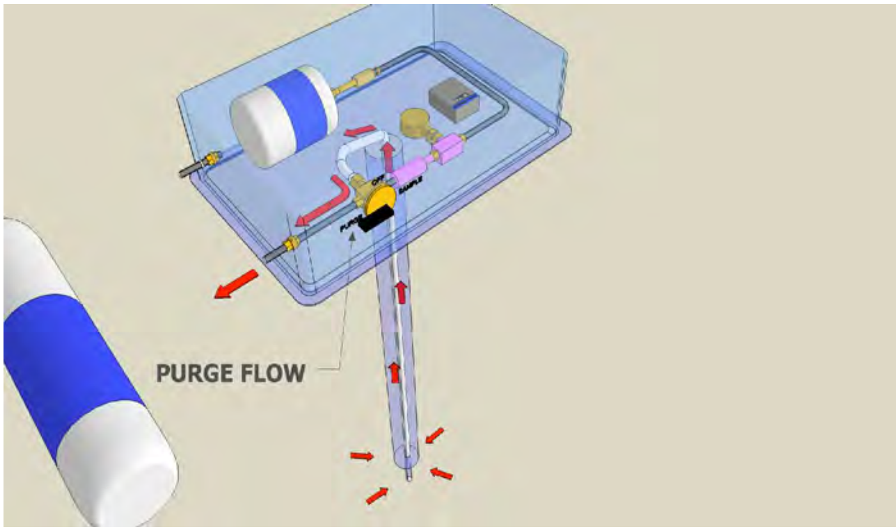
5.1. Locate and assemble the Lecture bottle, Helium transfer line, and the gas supply regulator. Tighten the brass nut attaching the regulator to the bottle one half turn past finger tight with a crescent or 9/16” open end wrench. The regulator is preset to deliver Helium at ideal pressure; ***you need not adjust the regulator***. Add Helium to the shroud by opening and closing the valve at the top of the bottle. Attach the Helium transfer line using the QT fittings at the regulator and at the Helium port on the shroud.

5.2. To provide Helium flow, slowly open the lecture bottle valve by twisting ***counterclockwise*** about ¼ turn.

5.3. Deliver 10 lbs of Helium at a time to the ***single*** shroud and 20 lbs to the ***double***. The diffusion cell Helium detector will respond in about 30 seconds to the new concentration. Unstable Helium detector readings reflect turbulent gas mixing inside the shroud. Plug holes between the shroud and the surface, use plastic sheeting to create an “air dam” or take other measures to air movement around the shroud and thus turbulence inside the shroud.

5.4. Monitor the Helium concentration displayed on the gauge in the shroud for about a minute in single shrouds, 90 seconds or longer in doubles. Under ideal conditions, 40 psi from the bottle will charge a single shroud to 25% helium concentration; double shrouds will require 80 psi. 25% Helium concentrations are maintained in the lab (zero wind) for 6-10 minutes. You may add more helium while purging and sampling. We suggest 10 psi increments for singles and 20 psi for doubles by opening the lecture bottle valve ¼ turn. We suggest users record/document the Helium concentration in the shroud at a minimum of 2 minute intervals during sampling.

Figure 3: Purge Flow Diagram



6. PURGE TESTING the Well under Helium

This test will help you establish the integrity of the well and the train to well connection. If no Helium is detected in the purge gas flow using this technique, one can assume the well is tight to breakthrough, and the train connections are all tight, and thus there will be no Helium detected in the sample that goes to the lab.

6.1. While getting the Helium concentration established, assemble the well purge train. Place the inline Helium detector between the shroud and whatever device (evacuated canister, syringe, or vacuum pump) that you're using to provide purge suction.

6.2. With the Helium atmosphere established in the shroud at 20% or more, and the purge system ready to operate, begin purging by moving the 3 way valve selector position to ***Purge*** and then establishing suction on the purge line.

6.3. Observe the inline Helium detector display while applying suction on the purge line. If you've purged enough vapors from the well to represent the entire volume of the path from the surface (under Helium atmosphere) to the distal end of the sampling tube and back up the tube and through the detector without detecting any Helium, your well shows signs of integrity and you may have a good leak free sample.

CA-DTSC guidance provides the opinion that a 5% ambient air dilution is inconsequential to sample integrity. When sampling under a 20% Helium in air atmosphere, 1% Helium detected in the purge gas represents a 5% ambient air sample dilution.

7. SAMPLING the Well under Helium

After you've completed purging the well, verify the reading on the Vacuum gauge of the train is -30 inches and that you have a steady state concentration of Helium between 20-25%, and then begin sampling by moving the 3 way selector valve to the ***Sample*** position.

Monitor the Helium concentration in the shroud by recording the reading on the diffusion cell detector inside the shroud every other minute or so. Add Helium from the bottle as needed to maintain a steady state concentration of Helium under the shroud.

Figure 4: Sampling Flow Diagram

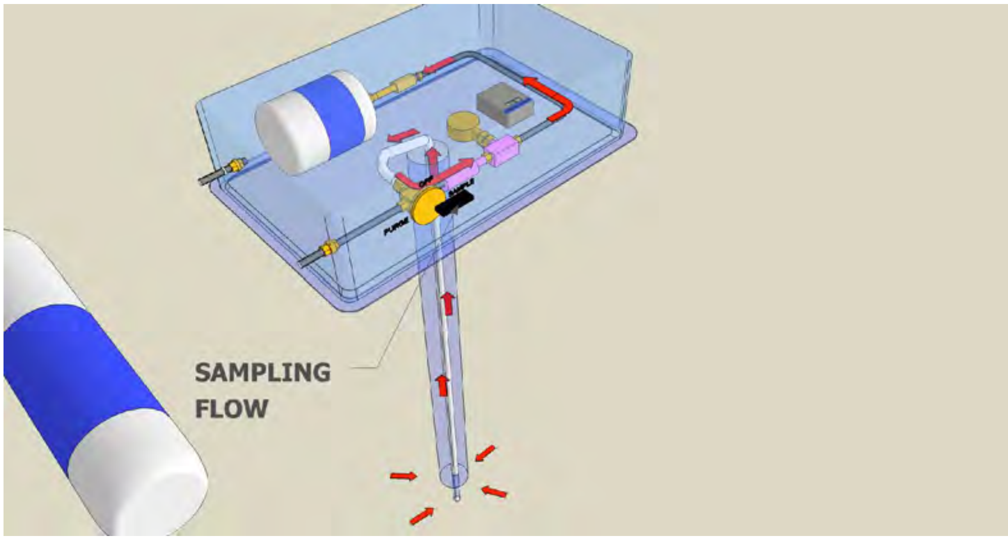
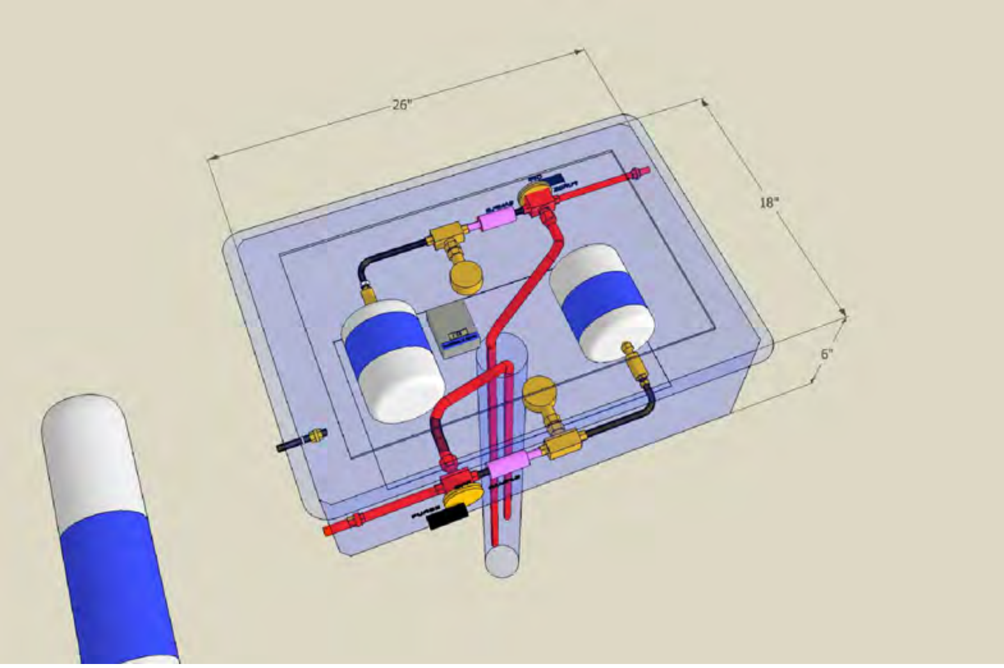


Figure 5: Dual Depth Well Sampling Shroud



Report 0772.R6
7.0 feet tubing, 12 inch sand interval, 6 inches hydrated bentonite interval above sand

Soil Gas Purge Volume Calculations

One Purge Volume is calculated as the volume of the tubing interior plus the volume of the sand interval of the borehole.

The tubing interior volume is calculated as follows:

V tubing = pi x (r x r) x h, where pi = 3.14, r = 0.187 in/2, and h = 7.0 ft.

V tubing = 3.14 x (0.0935 x 0.0935) x (7 ft. x 12 in./ft) = 2.31 cubic inches.

The sand interval volume is calculated as follows:

V sand interval = pi x (r x r) x h x porosity, where pi = 3.14, r = 3.5 in./2, h = 12 in., and porosity = 0.35

V sand interval = 3.14 x (1.75 x 1.75) x 12 x 0.35 40.39 cubic inches.

The total volume for one purge volume is V tubing + V sand interval, where

V total = 2.31 cubic inches + 40.39 cubic inches = 42.69 cubic inches.

To convert to cubic centimeters:

V total = 42.69 cubic inches x 16.39 cubic centimeters/cubic inches = 699.8 cubic centimeters.

The total volume to be purged is 3 purge volumes.

V purge total = 699.8 cubic centimeters x 3 2099 cubic centimeters.

The flow controller has a nominal flow rate of 150 cubic centimeters per minute.

The purge time is calculated as follows:

T purge = 2099 cubic centimeters/ 150 cubic centimeters per minute = 14.00 minutes.

Converting the purge time to seconds, 14.00 minutes x 60seconds/ minute = 840 seconds.

Notes:

🟨 Yellow hi-lite indicates data entry required.
🟦 Blue hi-lite indicates values are calculated or automatically updated.

Sand interval is 1 ft from 5 to 6 ft bgs, filter is at center of sand pack, 0.5 ft hydrated bentonite above sand, then neat cement to surface.

SOIL GAS SAMPLING DATA SHEET

Site Address	The Phoenix - 801 Pine St., Oakland		Page 1 of 1
Job #	0772	Probe Method (check one)	
Date	6/17/20	○ PRT	
Drilling Company		○ Temp Well	
Laboratory	Enthalpy Analytical	● Permanent Well	
P&D Sampler	MLBD	Summa Canister Number	447
		Duplicate Summa Canister Number	
		Shroud Number	RING WITH BAG
Soil Gas Well Number	SG1	Helium Shroud (Y/N)	Y
		Initial manifold vacuum/ time	-29 / 1030

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
103500	START TRACER GAS He	20.9				
103912		29.6				
104202		28.4				
104348		28.1				
104500	START PURGE	24.6	-00.2			PURGE TIME: 14 MIN.
104712	ADD He	19.7	-00.2			FLOW MANIFOLD AT
104863		28.9	-00.2			150 cc/MIN.
105001		26.8	-00.2			
105210		24.2	-00.2			
105501	ADD He	20.4	-00.2			
105605		28.6	-00.2			
105900	END PURGE	21.4	-00.2			
110000	START SAMPLE ADD He	28.2		0	-29	
110035		27.1		0	-25	
110124		25.6		0	-20	
110255	ADD He	21.3		0	-15	
110425		26.9		0	-10	
110623	END SAMPLE	23.1		0	-5	
110812						PID: 0ppm

SOIL GAS SAMPLING DATA SHEET

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Site Address: The Phoenix - 801 Pine St., Oakland
Job #: 0772
Date: 6/18/20
Drilling Company:
Laboratory: Enthalpy Analytical
P&D Sampler: MLBD

Soil Gas Well Number: SG2

Probe Method (check one)
○ PRT
○ Temp Well
☒ Permanent Well
Summa Canister Number: 518
Duplicate Summa Canister Number:
Shroud Number: RING WITH BAG
Helium Shroud (Y/N): Y
Initial manifold vacuum/ time: -30 164811

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
165000	START TRACER GAS He	20.3				
165201		28.7				
165406		26.4				
165602		24.8				
165800		22.7				
170000	START PURGE	20.9	-00.8			PURGE TIME: 14 MIN.
170008	ADD He	28.6	-01.1			FLOW RESTRICTER AT
170204		26.4	-01.1			150 CC/MIN.
170401		24.6	-01.1			
170600		22.9	-01.0			
170803		20.7	-01.0			
171062	ADD He	28.1	-01.0			
171200		26.2	-01.0			
171400	END PURGE	24.0	-01.0			
171500	START SAMPLE	22.1		0	-30	
171603	ADD He	20.5		0	-25	
171729		28.6		0	-20	
171903		26.5		0	-15	
172035		24.1		0	-10	
172216	END SAMPLE	21.9		0	-5	
172503						PID: 12 ppm

SOIL GAS SAMPLING DATA SHEET

Site Address The Phoenix - 801 Pine St., Oakland

Page 1 of 1

Job # 0772

Date 6/17/20

Drilling Company

Laboratory Enthalpy Analytical

P&D Sampler LLBD

Soil Gas Well Number SG3

Probe Method (check one)

o PRT

o Temp Well

☒ Permanent Well

Summa Canister Number 516

Duplicate Summa Canister Number

Shroud Number RING WITH BAG

Helium Shroud (Y/N) Y

Initial manifold vacuum/ time -28 / 1435

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
144000	START TRACER GAS He	20.8				
144312		26.1				
145026	ADD He	20.6				
145400	START PURGE	28.4	-00.5			PURGE TIME: 14 MIN
145601		26.3	-00.5			
145800		24.7	-00.5			
150002		22.4	-00.5			
150204	ADD He	20.6	-00.5			
150408		28.7	-00.5			
150606		26.4	-00.5			
150800	END PURGE	24.7	-00.5			
150900	START SAMPLE	22.1		0	-28	
150931		21.8		0	-25	
151039	ADD He	20.3		0	-20	
151222		28.9		0	-18	
151249		27.8		0	-15	
151342		24.6		0	-10	
151604	END SAMPLE	20.9		0	-5	
151812						PID: 0PPM

SOIL GAS SAMPLING DATA SHEET

Site Address: The Phoenix - 801 Pine St., Oakland
Job #: 0772
Date: 6/18/20
Drilling Company:
Laboratory: Enthalpy Analytical
P&D Sampler: MLBD

Soil Gas Well Number: SG4

Page 1 of 1
Probe Method (check one)
○ PRT
○ Temp Well
☑ Permanent Well
Summa Canister Number: 520
Duplicate Summa Canister Number: 126
Shroud Number: RING WITH BAG
Helium Shroud (Y/N): Y
Initial manifold vacuum/ time: -30 1205

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
122000	START TRACER GAS	20.1				
122218		28.7				
122425		26.4				
122616		24.8				
122802		22.6				
123000	START PURGE	20.9	-01.2			PURGE TIME: 14 MIN
123010	ADD He	28.6	-01.2			FLOW RESTRICTER AT
123201		25.3	-01.2			150cc/MIN.
123316	ADD He	20.9	-01.2			
123405		28.4	-01.2			
123602		25.9	-01.2			
123807		23.3	-01.2			
124004		21.8	-01.2			
124216	ADD He	20.2	-01.2			
124400	END PURGE	28.1	-01.2			
124500	START SAMPLE	27.4		0	-29	
124726		25.8		0	-25	
124944		22.9		0	-20	
125235	ADD He	20.3		0	-15	
125300		28.6		0	-12	
125508		26.8		0	-10	
125901	END SAMPLE	20.3		0	-5	
130240						PID: 0ppm

SOIL GAS SAMPLING DATA SHEET

Page 1 of 1

Site Address: The Phoenix - 801 Pine St., Oakland
Job #: 0772
Date: 6/18/20
Drilling Company:
Laboratory: Enthalpy Analytical
P&D Sampler: MLBD

Soil Gas Well Number: SG5

Probe Method (check one)
o PRT
o Temp Well
[✓ o Permanent Well]
Summa Canister Number: 422
Duplicate Summa Canister Number:
Shroud Number: RING WITH BAG
Helium Shroud (Y/N): Y
Initial manifold vacuum/ time: -30 0950

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
100000	START TRACER GAS HE	20.4				
100249		24.9				
100535		28.6				
100719		27.5				
100823		23.2				
100905	ADD He	20,4				
101000	START PURGE	28.6	-01.0			PURGE TIME: 14 MIN -
101204	ADD He	20.7	-01.0			FLOW CONTROLER AT
101301		27.9	-01.0			150 CC/MIN
101506		22.4	-01.0			
101609	ADD He	20.3	-01.1			
101703		28.9	-01.1			
102001		24.6	-01.1			
102206	ADD He	20.2	-01.1			
102400	END PURGE	28,1	-01.1			
102500	START SAMPLE	27.3		0	-30	
102542		27,1		0	-25	
102719		24.6		0	-20	
102816		23,1		0	-15	
102927		22.2		0	-10	
103053	END SAMPLE	21.4		0	-5	
103312						PID: 29 ppm

SOIL GAS SAMPLING DATA SHEET

Site Address	The Phoenix - 801 Pine St., Oakland	Page 1 of 1	
Job #	0772	Probe Method (check one)	
Date	6/18/20	○ PRT	
Drilling Company		○ Temp Well	
Laboratory	Enthalpy Analytical	☒ Permanent Well	
P&D Sampler	MLBD	Summa Canister Number	194
		Duplicate Summa Canister Number	141
		Shroud Number	RING WITH BAG
Soil Gas Well Number	SG6	Helium Shroud (Y/N)	Y
		Initial manifold vacuum/ time	-29/-29 0830

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
084500	START TRACER GAS He	20.3				
084812		28.6				
085001		27.3				
085212		25.1				
085500	START PURGE	21.4	-00.1			PURGE TIME: 14 MIN
085630	ADD He	19.8	-01.0			FLOW RESTRICTOR AT
085812		27.8	-01.1			150 CC/MIN.
090016	-	25.3	-01.1			
090204		21.0	-01.1			
090300	ADD He	28.4	-01.1			
090512		26.1	-01.1			
090704		22.0	-01.1			
090900	END PURGE	20.1	-01.1			
091000	START SAMPLE ADD He	28.4		0	-29	
091046		27.7		0	-25	
091248		27.1		0	-20	
091616		22.6		0	-15	
091934		21.0		0	-10	
092138	ADD He	20.2		0	-8	
092244	END SAMPLE	21.4		0	-5	
093320						PID: 63 ppm

SOIL GAS SAMPLING DATA SHEET

Site Address	The Phoenix - 801 Pine St., Oakland		Page 1 of 1
Job #	0772	Probe Method (check one)	
Date	6/18/20	○ PRT	
Drilling Company		○ Temp Well	
Laboratory	Enthalpy Analytical	☒ Permanent Well	
P&D Sampler	MLBD	Summa Canister Number	436
		Duplicate Summa Canister Number	
		Shroud Number	RING WITH BAG
Soil Gas Well Number	SG7	Helium Shroud (Y/N)	Y
		Initial manifold vacuum/ time	-29 1359

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
141000	START TRACER GAS He.	20.4				
141209		27.3				
141402		25.1				
141608		23.7				
141801		21.2				
142000	START PURGE	19.9	-01.1			PURGE TIME: 14 MIN
142005	ADD He	28.4	-01.1			FLOW RESTRICTER AT
142204		26.7	-01.1			150CC/MIN
142401		25.1	-01.1			
142612		23.3	-01.1			
142804	ADD He	20.6	-01.1			
143002		28.1	-01.1			
143201		26.7	-01.1			
143400	END PURGE	24.3	-01.1			
143500	START SAMPLE	23.5		0	-29	
143538		23.1		0	-25	
143650		21.9		0	-20	
143748	ADD He	20.4		0	-18	
143801		28.6		0	-15	
143923		27.1		0	-10	
144131	END SAMPLE	25.2		0	-5	
						PID: 0ppm.

SOIL GAS SAMPLING DATA SHEET

Site Address: The Phoenix - 801 Pine St., Oakland

Job #: 0772

Date: 6/18/20

Drilling Company:

Laboratory: Enthalpy Analytical

P&D Sampler: MLBD

Soil Gas Well Number: SG8

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Probe Method (check one)
- ○ PRT
- ○ Temp Well
- ☒ Permanent Well

Summa Canister Number: 433

Duplicate Summa Canister Number:

Shroud Number: RING WITH BAG

Helium Shroud (Y/N): Y

Initial manifold vacuum/ time: -30 1502

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
151000	START TRACER GAS	28.1				
151204		26.8				
151401		24.7				
151612		22.6				
151800	ADD He	20.9				
152000	START PURGE	28.6	-01.2			PURGE TIME: 14 MIN.
152206		26.9	-01.3			FLOW RESTRICTER AT
152402		24.2	-01.3			150cc/MIN
152611		22.1	-01.3			
152809	ADD He	20.3	-01.3			
153001		26.8	-01.3			
153206		24.3	-01.3			
153400	END PURGE	22.6	-01.3			
153500	START SAMPLE	20.2		0	-30	
153528	ADD He	28.1		0	-25	
153658		25.9		0	-20	
153820		23.5		0	-15	
153856	ADD He	20.6		0	-13	
153945		26.5		0	-10	
154118	END SAMPLE	23.1		0	-5	
154312						PID: 0 ppm

SOIL GAS SAMPLING DATA SHEET

Site Address The Phoenix - 801 Pine St., Oakland
Job # 0772
Date 6/22/20
Drilling Company
Laboratory Enthalpy Analytical
P&D Sampler MLBD

Soil Gas Well Number SG9

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Probe Method (check one)
○ PRT
○ Temp Well
☒ Permanent Well
Summa Canister Number 263
Duplicate Summa Canister Number
Shroud Number RING WITH PLASTIC BAG
Helium Shroud (Y/N) Y
Initial manifold vacuum/ time 0835/-30

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
084500	START TRACER GAS He	21.3				
084703		27.4				
084901		29.2				
085100		27.6				
085302		25.1				
085500	START PURGE	23.8	00.5			PURGE TIME: 14 MIN
085812	ADD He	20.3	-01.1			FLOW MANIFOLD AT
085901		27.7	-01.2			150 cc/MIN.
090204		24.9	-01.2			
090401	ADD He	21.6	-01.2			
090900		26.8	-01.2			
090900	END PURGE	24.1	-01.2			
091300	START SAMPLE	23.6		0	-30	
091505	ADD He	20.3		0	-25	
091627		28.1		0	-20	
091736	ADD He	20.4		0	-18	
091852		28.6		0	-15	
091948		26.1		0	-10	
092241	END SAMPLE			0	-5	
092415						PID: 16 ppm.

SOIL GAS SAMPLING DATA SHEET

Site Address: The Phoenix - 801 Pine St., Oakland
Job #: 0772
Date: 6/18/20
Drilling Company:
Laboratory: Enthalpy Analytical
P&D Sampler: MLBD

Soil Gas Well Number: SG10

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Probe Method (check one)
○ PRT
○ Temp Well
☒ Permanent Well
Summa Canister Number
Duplicate Summa Canister Number
Shroud Number: RING WITH BAG.
Helium Shroud (Y/N): Y
Initial manifold vacuum/ time

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
112500	START TRACER GAS HE	22.0				
112803		27.1				
113048		24.6				
113254		22.1				
113500	START PURGE	20.9	-00.6			WATER CAME UP
113504	END PURGE					TUBING. STOP PURGE
						NO SAMPLE COLLECTED

SOIL GAS SAMPLING DATA SHEET

Page 1 of 1

Site Address	The Phoenix - 801 Pine St., Oakland
Job #	0772
Date	6/17/20
Drilling Company	
Laboratory	Enthalpy Analytical
P&D Sampler	MLBO
Soil Gas Well Number	SG11

Probe Method (check one)
o PRT
o Temp Well
☒ Permanent Well

Summa Canister Number	514
Duplicate Summa Canister Number	
Shroud Number	RING WITH BAG
Helium Shroud (Y/N)	Y
Initial manifold vacuum/ time	-30 1718

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
172000	START TRACER GAS He	20.1				
172218		28.6				
172412		27.1				
172610		26.4				
172816		25.2				
173009	START PURGE	24.1	-00.6			PURGE TIME: 14 MIN
173316		20.4	-00.4			FLOW CONTROLER AT
173320	ADD He	27.9	-00.4			150cc/m
173614		23.1	-00.4			
174002		20.1	-00.4			
174005	ADD He	28.1	-00.4			
174349		24.6	-00.4			
174400	END PURGE	20.4	-00.4			
174500	START SAMPLE ADD He	27.6		0	-30	
174740		21.4		0	-25	
175417	ADD He	27.2		0	-20	
175731	ADD He	20.9		0	-15	
180148		26.5		0	-12	
180256	ADD He	21.3		0	-10	
181002	END SAMPLE	20.1		0	-8	
181214				~~0~~	~~-5~~	PID: 0 ppm
						SAMPLE SLOW TO COLLECT.

SOIL GAS SAMPLING DATA SHEET

Site Address The Phoenix - 801 Pine St., Oakland

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Job # 6/18/20 0772

Date

Drilling Company

Laboratory Enthalpy Analytical

P&D Sampler nLBD

Soil Gas Well Number SG12

Probe Method (check one)

○ PRT

○ Temp Well

☑ Permanent Well

Summa Canister Number 064

Duplicate Summa Canister Number

Shroud Number RING WITH BAG

Helium Shroud (Y/N) Y

Initial manifold vacuum/ time -30 1558

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
160000	START TRACER GAS He	20.1				
160212		28.5				
160409		26.3				
160602		24.6				
160801		22.1				
161000	START PURGE	20.9	-00.6			PURGE TIME: 14 MIN
161102	ADD He	28.1	-00.9			FLOW RESTRICTER AT
161204		26.9	-01.0			150cc/MIN.
161401		25.3	-01.1			
161604		23.9	-01.1			
161802		21.4	-01.1			
162001		20.1	-01.1			
162204	ADD He	28.5	-01.1			
162400	END PURGE	26.8	-01.1			
162500	START SAMPLE	24.3		0	-30	
162602		23.8		0	-25	
162733		21.4		0	-20	
162800	ADD He	20.2		0	-18	
162917		28.1		0	-15	
163009		26.7		0	-10	
163144	END SAMPLE	23.5		0	-5	
163212						PID: 0 ppm

SOIL GAS SAMPLING DATA SHEET

Site Address: The Phoenix - 801 Pine St., Oakland
Job #: 0772
Date: 6/22/20
Drilling Company:
Laboratory: Enthalpy Analytical
P&D Sampler: MLBD

Soil Gas Well Number: SG13

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Probe Method (check one)
o PRT
o Temp Well
[✓ Permanent Well]
Summa Canister Number: 104
Duplicate Summa Canister Number:
Shroud Number: RING AND PLASTIC BAG
Helium Shroud (Y/N): Y
Initial manifold vacuum/ time: -30 / 0952

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
095500	START TRACER GAS He	20.4				
095612		28.6				
095908		26.4				
100212		24.7				
100401	ADD He	19.8				
100716		28.6				
100900	START PURGE	26.3	00.5			PURGE TIME: 14 MIN
101118		24.5	-01.3			FLOW CONTROLER AT
101245	ADD He	20.3	-01.3			150CC/MIN.
101314		29.1	+01.3			
101501		23.5	-01.3			
101810		19.7	-01.3			
102005	ADD He	28.3	-01.3			
102300	END PURGE ADD He	20.2	-01.3			
102400	START SAMPLE	27.4		0	-30	
102518		25.6		0	-25	
103011	ADD He	19.7		0	-23	
103214		28.3		0	-20	
103606	ADD He	19.2		0	-15	
103701		28.9		0	-12	
104158	ADD He	20.1		0	-10	
104206		28.6		0	-9	
104730	END SAMPLE	20.4		0	-5	SLOW SAMPLE COLLECTION
105450						PID: 10 ppm

SOIL GAS SAMPLING DATA SHEET

Site Address: The Phoenix - 801 Pine St., Oakland

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Job #: 0772

Date: 6/22/20

Drilling Company: VTS

Laboratory: Enthalpy Analytical

P&D Sampler: MLBD

Probe Method (check one)
○ PRT
○ Temp Well
☑ Permanent Well

Summa Canister Number: 049

Duplicate Summa Canister Number:

Shroud Number: RING WITH BAG

Helium Shroud (Y/N): Y

Initial manifold vacuum/ time: -30/1310

Soil Gas Well Number: SG14

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
131500	START TRACER GAS He	20.1				
131701		28.6				
131904		27.9				
1321		25.7				
1323		23.9				
1325	START PURGE	21.1	-00.5			PURGE TIME: 14 MIN
132709	ADD He	19.6	-03.5			FLOW MANIFOLD AT
132900		29.8	-03.4			150CC/MIN.
133104		27.7	-03.3			
133302		25.8	-03.3			
133500		23.4	-03.3			
133701		21.0	-03.3			
133900	END PURGE ADD He	19.8	-03.3			
134000	START SAMPLE	29.4		0	-30	
134109		28.1		0	-25	
134237		26.5		0	-20	
134441		22.3		0	-15	
134605	ADD He	19.6		0	-10	
134809	END SAMPLE	23.4		0	-5	
13612						PID: 0PPM

SOIL GAS SAMPLING DATA SHEET

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Site Address: The Phoenix - 801 Pine St., Oakland
Job #: 0772
Date: 6/22/20
Drilling Company: VTS
Laboratory: Enthalpy Analytical
P&D Sampler: MLBD

Soil Gas Well Number: SG15

Probe Method (check one)
○ PRT
○ Temp Well
☒ Permanent Well

Summa Canister Number: 088
Duplicate Summa Canister Number: -
Shroud Number: RING WITH BAG
Helium Shroud (Y/N):
Initial manifold vacuum/ time: -29 / 1416

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
141000	START TRACER GAS He	19.8				
141201		25.6				
141400		28.8				
141604		27.1				
141801		25.6				
142000	START PURGE	23.2	-01.3			PURGE TIME; 14 MIN
142204		21.4	-01.4			FLOW MANIFOLD AT
142401	ADD He	19.7	-01.8			150 CC/MIN.
142600		28.6	-01.8			
142802		26.8	-01.8			
143001		24.3	-01.8			
143203		22.5	-01.8			
143400	END PURGE ADD He	20.1	-01.8			
143500	START SAMPLE	28.4		0	-29	
143538		27.1		0	-25	
143641		26.8		0	-20	
143738		25.4		0	-15	
143853		24.2		0	-10	
144018	END SAMPLE	22.9		0	-5	
144212						PID: 0 PPM

SOIL GAS SAMPLING DATA SHEET

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Site Address	The Phoenix - 801 Pine St., Oakland
Job #	0772
Date	6/22/20
Drilling Company	VTS
Laboratory	Enthalpy Analytical
P&D Sampler	MLBD
Soil Gas Well Number	SG16

Probe Method (check one)
○ PRT
○ Temp Well
☒ Permanent Well

Summa Canister Number	299
Duplicate Summa Canister Number	
Shroud Number	RING WITH BAG
Helium Shroud (Y/N)	Y
Initial manifold vacuum/ time	-30/ 1500

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
150500	START TRACER GAS He	20.1				
150701		28.9				
150904		27.0				
151102		26.1				
151301		24.6				
151500	START PURGE	22.3	-00.5			
151508		19.7				WATER IN TUBING
154512	PURGE TUBING WITH AIR PUMP ONLY.					WATER STILL COMING UP TUBING AFTER PURGING WITH AIR PUMP FOR 13 MIN.
155802	STOP PURGING.					
						NO SAMPLE COLLECTED

SOIL GAS SAMPLING DATA SHEET

Site Address The Phoenix - 801 Pine St., Oakland

Job # 0772

Date 6/22/20

Drilling Company VTS

Laboratory Enthalpy Analytical

P&D Sampler MLBP

Soil Gas Well Number SG17

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Probe Method (check one)

o PRT

o Temp Well

☒ Permanent Well

Summa Canister Number 299

Duplicate Summa Canister Number

Shroud Number RING WITH BAG

Helium Shroud (Y/N) Y

Initial manifold vacuum/ time -30/1500

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
163500	START TRACER GAS He	19.8				
163701		26.2				
163900		29.4				
164102		27.8				
164303		25.9				
164500	START PURGE	23.6	-00.5			PURGE TIME: 14 MIN
164701		21.4	-03.5			FLOW MANIFOLD AT
164900	ADD He	19.8	-03.5			150CC/MIN
165102		28.6	-03.5			
165300		26.9	-03.5			
165501		24.7	-03.6			
165700		22.8	-03.6			
165900	END PURGE ADD He	19.6	-03.6			
170000	START SAMPLE	28.4		0	-30	
170728	ADD He	19.7		0	-25	
170815		28.9		0	-24	
171343	ADD He	20.2		0	-20	
171448		29.4		0	-18	
171857	ADD He	19.8		0	-15	
171906		29.6		0	-14	
172647	ADD He	19.8		0	-10	
173712		28.7		0	-8	
173748	END SAMPLE	19.8		0	-5	
173912						PID: 0

SOIL GAS SAMPLING DATA SHEET

Site Address	The Phoenix - 801 Pine St., Oakland		Page 1 of 1
Job #	0772	Probe Method (check one)	
Date	6/17/20	o PRT	
Drilling Company		o Temp Well	
Laboratory	Enthalpy Analytical	☒ Permanent Well	
P&D Sampler	MLBD	Summa Canister Number	397
		Duplicate Summa Canister Number	
		Shroud Number	RING WITH BAG
Soil Gas Well Number	SG18	Helium Shroud (Y/N)	Y
		Initial manifold vacuum/ time	-29 1625

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
163000	START TRACER GAS He	20.1				
163209		28.4				
163412		27.3				
163704		26.1				
164000	START PURGE	20.8	-00.5			PURGE TIME: 14 MIN.
164215	ADD He	28.3	-00.9			FLOW RESTRICTOR AT
164406		26.4	-01.0			150CC/MIN.
164601		23.9	-01.0			
164812	ADD He	20.4	-01.0			
165001		28.2	-01.0			
165210		26.3	-01.0			
165400	END PURGE	22.6	-01.0			
165500	START SAMPLE	21.9		0	-29	
165523	ADD He	20.6		0	-25	
165606		28.4		0	-22	
165643		27.9		0	-20	
165803		26.1		0	-15	
165842		25.7		0	-10	
170004	END SAMPLE	23.1		0	-5	
170212						PID: 0 ppm

SOIL GAS SAMPLING DATA SHEET

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Site Address: The Phoenix - 801 Pine St., Oakland
Job #: 0772
Date: 6/17/20
Drilling Company:
Laboratory: Enthalpy Analytical
P&D Sampler: MLBD

Soil Gas Well Number: SG19

Probe Method (check one)
o PRT
o Temp Well
☒ Permanent Well
Summa Canister Number: 253
Duplicate Summa Canister Number:
Shroud Number:
Helium Shroud (Y/N):
Initial manifold vacuum/ time: -29 1520

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
153000	START TRACER GAS He	20.3				
153412		27.4				
153810		26.9				
154000	START PURGE	25.1	-00.4			PURGE TIME: 14 MIN
154302		20.2	-00.4			FLOW RESTRITOR AT
154320	ADD He	27.4	-00.4			150 cc/min.
154812		28.6	-00.4			
155400	END PURGE	20.2	-00.4			
155500	START SAMPLE. ADD He	24.9		0	-29	
155602		20.7		0	-25	
155629	ADD He	28.4		0	-22	
155739		27.1		0	-20	
155851		26.0		0	-15	
155935	ADD He	20.6		0	-12	
160023		28.0		0	-10	
160202	END SAMPLE	23.3		0	-5	
160416						PID: 0 ppm

SOIL GAS SAMPLING DATA SHEET

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Site Address: The Phoenix - 801 Pine St., Oakland
Job #: 0772
Date: 6/17/20
Drilling Company:
Laboratory: Enthalpy Analytical
P&D Sampler: MLBD
Soil Gas Well Number: SG20

Probe Method (check one)
○ PRT
○ Temp Well
☒ Permanent Well
Summa Canister Number: 130
Duplicate Summa Canister Number:
Shroud Number: RING WITH BAG
Helium Shroud (Y/N): Y
Initial manifold vacuum/ time: -28/ 1116

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
134000	START TRACE GAS He	20.2				
134312		26.9				
134651		28.1				
135000	START PURGE	27.2	-00.7			PURGE TIME: 14 MIN -
135206		25.9	-00.7			
135401		23.6	-00.7			
135503		21.9	-00.7			
135700		19.7	-00.7			
135902	ADD He	28.8	-00.7			
140204		26.7	-00.7			
140400	END PURGE	24.6	-00.7			
140500	START SAMPLE	25.3		0	-28	
140521		24.8		0	-25	
140552		21.2		0	-20	
140834	ADD He	27.1		0	-15	
140938		24.8		0	-10	
141211	END SAMPLE	20.5		0	-5	
141605						PID: 0 PPM

SOIL GAS SAMPLING DATA SHEET

Site Address: The Phoenix - 801 Pine St., Oakland

Page 1 of 1

Job #: 0772

Date: 6/22/20

Drilling Company:

Laboratory: Enthalpy Analytical

P&D Sampler: WLBD

Soil Gas Well Number: SG21

Probe Method (check one)

○ PRT

○ Temp Well

● Permanent Well

Summa Canister Number: 271

Duplicate Summa Canister Number:

Shroud Number: RING WITH BAG

Helium Shroud (Y/N): Y

Initial manifold vacuum/ time: -30/1115

TIME	Activity	Shroud Helium Gage (Percent)	Purge Helium Gage (Percent)	Soil Gas Well Vacuum (In Hg)	Sampling Summa Vacuum (In Hg)	NOTES
112000	START TRACER GAS He	20.4				
112204		28.7				
112400		26.4				
112801		24.6				
113000	START PURGE	22.1	-00.8			PURGE TIME: 14MIN
113206	ADD He	20.3	-01.8			FLOW MANIFOLD AT
113402		27.9	-01.8			150cc/MIN
113601		25.8	-01.8			
113808		23.6	-01.8			
114001		21.3	-01.8			
114206	ADD He	28.4	-01.8			
114400	END PURGE	26.8	-01.8			
114500	START SAMPLE	24.7		0	-30	
115108	ADD He	20.3		0	-25	
115201		28.9		0	-22	
115940	ADD He	20.6		0	-20	
120000		28.7		0	-19	
120514	ADD He	19.8		0	-15	
121110		24.9		0	-10	SLOW SAMPLE COLLECTION
121430	END SAMPLE	19.8		0	-5	
121605						PID: 8PPM

APPENDIX C

Weather Information

https://www.wunderground.com/dashboard/pws/KCAOAKLA327/table/2020-06-8/2020-06-8/monthly

About This Weather Station

Weather Station ID: KCAOAKLA327

Station Name: UP Oakland

Latitude / Longitude: N 37.809°, W 122.31°

Elevation: 3

City: Oakland

State: CA

Hardware: Davis Vantage Vue (Wireless)

Software: weatherlink.com 1.10

Weather History Table

June 1, 2020 - June 30, 2020

	Temperature			Dew Point			Humidity			Speed			Pressure		Precip. Accum.	Precip. Accum.
Date	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Low	Sum	Sum
6/1/2020	69.5 F	62.3 F	57.3 F	57.0 F	54.3 F	52.0 F	86 %	76 %	61 %	8.0 mph	3.0 mph	0.0 mph	30.11 in	30.02 in	0.00 in	0 in
6/2/2020	82.6 F	70.4 F	60.3 F	60.0 F	56.9 F	53.0 F	86 %	65 %	38 %	12.0 mph	2.8 mph	0.0 mph	30.08 in	30.02 in	0.00 in	0 in
6/3/2020	80.0 F	69.9 F	62.2 F	61.0 F	58.0 F	54.0 F	84 %	67 %	47 %	7.0 mph	1.7 mph	0.0 mph	30.06 in	29.95 in	0.00 in	0 in
6/4/2020	77.8 F	65.6 F	58.2 F	59.0 F	54.9 F	51.0 F	83 %	70 %	50 %	14.0 mph	3.6 mph	0.0 mph	29.95 in	29.79 in	0.00 in	0 in
6/5/2020	62.6 F	58.5 F	55.9 F	53.0 F	51.2 F	50.0 F	83 %	77 %	68 %	18.0 mph	7.5 mph	1.0 mph	29.97 in	29.82 in	0.00 in	0 in
6/6/2020	63.7 F	59.1 F	55.8 F	52.0 F	50.5 F	46.0 F	82 %	74 %	62 %	17.0 mph	9.5 mph	4.0 mph	30.14 in	29.94 in	0.00 in	0 in
6/7/2020	64.0 F	59.7 F	55.7 F	50.0 F	47.3 F	45.0 F	72 %	64 %	56 %	19.0 mph	8.6 mph	2.0 mph	30.21 in	30.14 in	0.00 in	0 in
6/8/2020	71.4 F	64.4 F	56.8 F	50.0 F	46.0 F	41.0 F	69 %	53 %	33 %	16.0 mph	4.9 mph	0.0 mph	30.29 in	30.22 in	0.00 in	0 in
6/9/2020	79.5 F	67.5 F	57.3 F	55.0 F	51.1 F	46.0 F	78 %	58 %	32 %	10.0 mph	2.5 mph	0.0 mph	30.26 in	30.15 in	0.00 in	0 in
6/10/2020	77.2 F	66.0 F	59.1 F	59.0 F	55.9 F	54.0 F	87 %	71 %	46 %	9.0 mph	2.1 mph	0.0 mph	30.17 in	30.05 in	0.00 in	0 in
6/11/2020	75.7 F	65.6 F	57.4 F	60.0 F	57.0 F	55.0 F	91 %	75 %	55 %	8.0 mph	3.2 mph	0.0 mph	30.09 in	30.04 in	0.00 in	0 in
6/12/2020	63.7 F	60.1 F	57.3 F	56.0 F	54.0 F	52.0 F	85 %	80 %	72 %	16.0 mph	6.0 mph	0.0 mph	30.17 in	30.07 in	0.00 in	0 in
6/13/2020	65.5 F	60.7 F	56.4 F	53.0 F	51.2 F	47.0 F	86 %	72 %	52 %	17.0 mph	7.1 mph	1.0 mph	30.18 in	30.11 in	0.00 in	0 in
6/14/2020	68.1 F	62.9 F	59.1 F	59.0 F	56.2 F	53.0 F	89 %	79 %	68 %	11.0 mph	3.7 mph	0.0 mph	30.14 in	30.07 in	0.00 in	0 in
6/15/2020	69.7 F	63.6 F	59.7 F	58.0 F	55.2 F	52.0 F	82 %	74 %	67 %	18.0 mph	4.9 mph	0.0 mph	30.12 in	30.06 in	0.00 in	0 in
6/16/2020	71.0 F	64.5 F	58.2 F	54.0 F	51.2 F	48.0 F	78 %	63 %	52 %	13.0 mph	3.4 mph	0.0 mph	30.11 in	30.04 in	0.00 in	0 in
6/17/2020	78.9 F	69.1 F	60.5 F	55.0 F	50.5 F	44.0 F	79 %	55 %	30 %	14.0 mph	3.6 mph	0.0 mph	30.08 in	29.99 in	0.00 in	0 in
6/18/2020	77.7 F	67.8 F	60.5 F	57.0 F	54.9 F	48.0 F	82 %	65 %	37 %	8.0 mph	2.0 mph	0.0 mph	30.00 in	29.94 in	0.00 in	0 in
6/19/2020	64.9 F	60.4 F	56.1 F	56.0 F	54.5 F	53.0 F	90 %	81 %	70 %	11.0 mph	3.7 mph	0.0 mph	30.03 in	29.95 in	0.00 in	0 in
6/20/2020	65.9 F	59.9 F	55.9 F	56.0 F	54.5 F	53.0 F	91 %	82 %	68 %	12.0 mph	4.7 mph	0.0 mph	30.11 in	30.02 in	0.00 in	0 in
6/21/2020	71.5 F	62.6 F	57.6 F	59.0 F	56.2 F	54.0 F	92 %	80 %	63 %	11.0 mph	4.3 mph	0.0 mph	30.08 in	30.01 in	0.00 in	0 in
6/22/2020	67.5 F	61.4 F	57.2 F	58.0 F	55.6 F	54.0 F	89 %	81 %	68 %	10.0 mph	4.2 mph	0.0 mph	30.05 in	30.00 in	0.00 in	0 in
6/23/2020	65.6 F	60.9 F	57.5 F	58.0 F	56.2 F	55.0 F	90 %	84 %	75 %	12.0 mph	4.3 mph	0.0 mph	30.02 in	29.96 in	0.00 in	0 in
6/24/2020	71.5 F	61.5 F	57.0 F	58.0 F	56.0 F	55.0 F	92 %	82 %	63 %	10.0 mph	3.9 mph	0.0 mph	29.96 in	29.83 in	0.00 in	0 in
6/25/2020	66.5 F	60.9 F	56.4 F	57.0 F	55.0 F	53.0 F	90 %	81 %	69 %	8.0 mph	3.6 mph	0.0 mph	29.94 in	29.85 in	0.00 in	0 in
6/26/2020	67.5 F	61.2 F	57.3 F	58.0 F	56.3 F	55.0 F	91 %	84 %	70 %	9.0 mph	3.8 mph	0.0 mph	30.00 in	29.93 in	0.00 in	0 in
6/27/2020	64.1 F	59.5 F	57.0 F	57.0 F	55.0 F	53.0 F	92 %	85 %	75 %	13.0 mph	5.4 mph	0.0 mph	29.97 in	29.88 in	0.00 in	0 in
6/28/2020	65.5 F	60.2 F	56.5 F	53.0 F	52.3 F	51.0 F	84 %	75 %	63 %	14.0 mph	5.3 mph	0.0 mph	29.87 in	29.78 in	0.00 in	0 in
6/29/2020	71.9 F	63.3 F	56.9 F	57.0 F	53.8 F	51.0 F	83 %	72 %	52 %	9.0 mph	2.5 mph	0.0 mph	30.00 in	29.83 in	0.00 in	0 in
6/30/2020	73.2 F	63.4 F	57.9 F	58.0 F	55.1 F	53.0 F	86 %	75 %	55 %	8.0 mph	2.6 mph	0.0 mph	30.03 in	29.93 in	0.00 in	0 in

APPENDIX D

Laboratory Analytical Reports and Chain of Custody Documentation

- **McCampbell Workorder #2006A30 - Soil Samples from Boreholes B1 Through B4**
- **Enthalpy Analytical Workorder #429907 - Soil Gas Samples SG1 Through SG4, SG4-DUP, SG5, SG6, SG6-DUP, SG7 Through SG9, SG11 Through SG15, and SG17 Through SG21 Results**

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2006A30

Report Created for: P & D Environmental

55 Santa Clara Ave, Ste.240
Oakland, CA 94610

Project Contact: Paul King
Project P.O.:
Project: 0772; The Phoenix 801 Pine Street Oakland, CA

Project Received: 06/19/2020

Analytical Report reviewed & approved for release on 06/29/2020 by:

Jennifer Lagerbom
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: 0772; The Phoenix 801 Pine Street Oakland, CA
WorkOrder: 2006A30

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: 0772; The Phoenix 801 Pine Street Oakland, CA
WorkOrder: 2006A30

Analytical Qualifiers

A	The reported value is determined using a "single point" calibration by GC-ECD as allowed by the method.
J	Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.
S	Spike recovery outside accepted recovery limits
a9	Reporting limit near, but not identical to, our standard reporting limit due to variable Encore/Solid sample weight
c2	Surrogate recovery outside of the control limits due to matrix interference.
e2	Diesel range compounds are significant; no recognizable pattern
e7	Oil range compounds are significant

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.
F2	LCS/LCSD recovery and/or RPD/RSD is out of acceptance criteria.
F10	MS/MSD outside control limits. Physical or chemical interferences exist due to sample matrix.
F13	Indigenous sample results too high for a representative matrix spike analysis.

Case Narrative

Client: P & D Environmental
Work Order: 2006A30
Project: 0772; The Phoenix 801 Pine Street Oakland, CA
June 25, 2020

Percent Moisture

In accordance with SW-846, EPA 8000, percent moisture is reported as:

$$\frac{\textit{Moisture Weight (g)}}{\textit{Sample Wet Weight (g)}} \quad x100$$

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	06/22/2020	**Analytical Method:**	SW8081A/8082
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-3.0	**2006A30-001B**	**Soil**	**06/19/2020 09:35**	**GC23 06242029.d**	**200496**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aldrin	ND		0.00010	1	06/24/2020 18:37
a-BHC	ND		0.00010	1	06/24/2020 18:37
b-BHC	ND		0.00030	1	06/24/2020 18:37
d-BHC	ND		0.00020	1	06/24/2020 18:37
g-BHC	ND		0.00010	1	06/24/2020 18:37
Chlordane (Technical)	ND		0.0025	1	06/24/2020 18:37
a-Chlordane	ND		0.00010	1	06/24/2020 18:37
g-Chlordane	ND		0.00010	1	06/24/2020 18:37
p,p-DDD	ND		0.00010	1	06/24/2020 18:37
p,p-DDE	ND		0.00010	1	06/24/2020 18:37
p,p-DDT	**0.00041**		0.00010	1	06/24/2020 18:37
Dieldrin	ND		0.00010	1	06/24/2020 18:37
Endosulfan I	ND		0.00010	1	06/24/2020 18:37
Endosulfan II	ND		0.00010	1	06/24/2020 18:37
Endosulfan sulfate	ND		0.00010	1	06/24/2020 18:37
Endrin	ND		0.00010	1	06/24/2020 18:37
Endrin aldehyde	ND		0.00010	1	06/24/2020 18:37
Endrin ketone	ND		0.00010	1	06/24/2020 18:37
Heptachlor	ND		0.00010	1	06/24/2020 18:37
Heptachlor epoxide	ND		0.00010	1	06/24/2020 18:37
Hexachlorobenzene	ND		0.0010	1	06/24/2020 18:37
Hexachlorocyclopentadiene	ND		0.0020	1	06/24/2020 18:37
Methoxychlor	ND		0.00020	1	06/24/2020 18:37
Toxaphene	ND		0.0050	1	06/24/2020 18:37
Aroclor1016	ND		0.0050	1	06/24/2020 18:37
Aroclor1221	ND		0.0050	1	06/24/2020 18:37
Aroclor1232	ND		0.0050	1	06/24/2020 18:37
Aroclor1242	ND		0.0050	1	06/24/2020 18:37
Aroclor1248	ND		0.0050	1	06/24/2020 18:37
Aroclor1254	**0.0060**	A	0.0050	1	06/24/2020 18:37
Aroclor1260	ND		0.0050	1	06/24/2020 18:37
PCBs, total	**0.0060**		0.0050	1	06/24/2020 18:37

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	79	20-145	06/24/2020 18:37

Analyst(s): LT

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	06/22/2020	**Analytical Method:**	SW8081A/8082
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-5.0	2006A30-003B	Soil	06/19/2020 10:50	GC23 06242010.d	200496

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.00010	1	06/24/2020 13:25
a-BHC	ND	0.00010	1	06/24/2020 13:25
b-BHC	ND	0.00030	1	06/24/2020 13:25
d-BHC	ND	0.00020	1	06/24/2020 13:25
g-BHC	ND	0.00010	1	06/24/2020 13:25
Chlordane (Technical)	ND	0.0025	1	06/24/2020 13:25
a-Chlordane	ND	0.00010	1	06/24/2020 13:25
g-Chlordane	ND	0.00010	1	06/24/2020 13:25
p,p-DDD	ND	0.00010	1	06/24/2020 13:25
p,p-DDE	ND	0.00010	1	06/24/2020 13:25
p,p-DDT	ND	0.00010	1	06/24/2020 13:25
Dieldrin	ND	0.00010	1	06/24/2020 13:25
Endosulfan I	ND	0.00010	1	06/24/2020 13:25
Endosulfan II	ND	0.00010	1	06/24/2020 13:25
Endosulfan sulfate	ND	0.00010	1	06/24/2020 13:25
Endrin	ND	0.00010	1	06/24/2020 13:25
Endrin aldehyde	ND	0.00010	1	06/24/2020 13:25
Endrin ketone	ND	0.00010	1	06/24/2020 13:25
Heptachlor	ND	0.00010	1	06/24/2020 13:25
Heptachlor epoxide	ND	0.00010	1	06/24/2020 13:25
Hexachlorobenzene	ND	0.0010	1	06/24/2020 13:25
Hexachlorocyclopentadiene	ND	0.0020	1	06/24/2020 13:25
Methoxychlor	ND	0.00020	1	06/24/2020 13:25
Toxaphene	ND	0.0050	1	06/24/2020 13:25
Aroclor1016	ND	0.0050	1	06/24/2020 13:25
Aroclor1221	ND	0.0050	1	06/24/2020 13:25
Aroclor1232	ND	0.0050	1	06/24/2020 13:25
Aroclor1242	ND	0.0050	1	06/24/2020 13:25
Aroclor1248	ND	0.0050	1	06/24/2020 13:25
Aroclor1254	ND	0.0050	1	06/24/2020 13:25
Aroclor1260	ND	0.0050	1	06/24/2020 13:25
PCBs, total	ND	0.0050	1	06/24/2020 13:25

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	94	20-145	06/24/2020 13:25

Analyst(s): LT

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	06/22/2020	**Analytical Method:**	SW8081A/8082
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-2.0	**2006A30-004B**	**Soil**	**06/19/2020 10:20**	**GC23 06232048.d**	**200496**

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.00010	1	06/23/2020 23:02
a-BHC	ND	0.00010	1	06/23/2020 23:02
b-BHC	ND	0.00030	1	06/23/2020 23:02
d-BHC	ND	0.00020	1	06/23/2020 23:02
g-BHC	ND	0.00010	1	06/23/2020 23:02
Chlordane (Technical)	ND	0.0025	1	06/23/2020 23:02
a-Chlordane	ND	0.00010	1	06/23/2020 23:02
g-Chlordane	ND	0.00010	1	06/23/2020 23:02
p,p-DDD	ND	0.00010	1	06/23/2020 23:02
p,p-DDE	ND	0.00010	1	06/23/2020 23:02
p,p-DDT	ND	0.00010	1	06/23/2020 23:02
Dieldrin	ND	0.00010	1	06/23/2020 23:02
Endosulfan I	ND	0.00010	1	06/23/2020 23:02
Endosulfan II	ND	0.00010	1	06/23/2020 23:02
Endosulfan sulfate	ND	0.00010	1	06/23/2020 23:02
Endrin	ND	0.00010	1	06/23/2020 23:02
Endrin aldehyde	ND	0.00010	1	06/23/2020 23:02
Endrin ketone	ND	0.00010	1	06/23/2020 23:02
Heptachlor	ND	0.00010	1	06/23/2020 23:02
Heptachlor epoxide	ND	0.00010	1	06/23/2020 23:02
Hexachlorobenzene	ND	0.0010	1	06/23/2020 23:02
Hexachlorocyclopentadiene	ND	0.0020	1	06/23/2020 23:02
Methoxychlor	ND	0.00020	1	06/23/2020 23:02
Toxaphene	ND	0.0050	1	06/23/2020 23:02
Aroclor1016	ND	0.0050	1	06/23/2020 23:02
Aroclor1221	ND	0.0050	1	06/23/2020 23:02
Aroclor1232	ND	0.0050	1	06/23/2020 23:02
Aroclor1242	ND	0.0050	1	06/23/2020 23:02
Aroclor1248	ND	0.0050	1	06/23/2020 23:02
Aroclor1254	ND	0.0050	1	06/23/2020 23:02
Aroclor1260	ND	0.0050	1	06/23/2020 23:02
PCBs, total	ND	0.0050	1	06/23/2020 23:02

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	94	20-145	06/23/2020 23:02

Analyst(s): LT

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	06/22/2020	**Analytical Method:**	SW8081A/8082
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-4.0	2006A30-005B	Soil	06/19/2020 10:25	GC23 06232035.d	200496

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.00010	1	06/23/2020 19:38
a-BHC	ND	0.00010	1	06/23/2020 19:38
b-BHC	ND	0.00030	1	06/23/2020 19:38
d-BHC	ND	0.00020	1	06/23/2020 19:38
g-BHC	ND	0.00010	1	06/23/2020 19:38
Chlordane (Technical)	ND	0.0025	1	06/23/2020 19:38
a-Chlordane	ND	0.00010	1	06/23/2020 19:38
g-Chlordane	ND	0.00010	1	06/23/2020 19:38
p,p-DDD	ND	0.00010	1	06/23/2020 19:38
p,p-DDE	ND	0.00010	1	06/23/2020 19:38
p,p-DDT	ND	0.00010	1	06/23/2020 19:38
Dieldrin	ND	0.00010	1	06/23/2020 19:38
Endosulfan I	ND	0.00010	1	06/23/2020 19:38
Endosulfan II	ND	0.00010	1	06/23/2020 19:38
Endosulfan sulfate	ND	0.00010	1	06/23/2020 19:38
Endrin	ND	0.00010	1	06/23/2020 19:38
Endrin aldehyde	ND	0.00010	1	06/23/2020 19:38
Endrin ketone	ND	0.00010	1	06/23/2020 19:38
Heptachlor	ND	0.00010	1	06/23/2020 19:38
Heptachlor epoxide	ND	0.00010	1	06/23/2020 19:38
Hexachlorobenzene	ND	0.0010	1	06/23/2020 19:38
Hexachlorocyclopentadiene	ND	0.0020	1	06/23/2020 19:38
Methoxychlor	ND	0.00020	1	06/23/2020 19:38
Toxaphene	ND	0.0050	1	06/23/2020 19:38
Aroclor1016	ND	0.0050	1	06/23/2020 19:38
Aroclor1221	ND	0.0050	1	06/23/2020 19:38
Aroclor1232	ND	0.0050	1	06/23/2020 19:38
Aroclor1242	ND	0.0050	1	06/23/2020 19:38
Aroclor1248	ND	0.0050	1	06/23/2020 19:38
Aroclor1254	ND	0.0050	1	06/23/2020 19:38
Aroclor1260	ND	0.0050	1	06/23/2020 19:38
PCBs, total	ND	0.0050	1	06/23/2020 19:38

Surrogates	REC (%)	Limits		
Decachlorobiphenyl	96	20-145		06/23/2020 19:38

Analyst(s): LT

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	06/22/2020	**Analytical Method:**	SW8081A/8082
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-2.0	2006A30-006B	Soil	06/19/2020 11:30	GC23 06232049.d	200496

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.00010	1	06/23/2020 23:18
a-BHC	ND	0.00010	1	06/23/2020 23:18
b-BHC	ND	0.00030	1	06/23/2020 23:18
d-BHC	ND	0.00020	1	06/23/2020 23:18
g-BHC	ND	0.00010	1	06/23/2020 23:18
Chlordane (Technical)	ND	0.0025	1	06/23/2020 23:18
a-Chlordane	ND	0.00010	1	06/23/2020 23:18
g-Chlordane	ND	0.00010	1	06/23/2020 23:18
p,p-DDD	ND	0.00010	1	06/23/2020 23:18
p,p-DDE	ND	0.00010	1	06/23/2020 23:18
p,p-DDT	ND	0.00010	1	06/23/2020 23:18
Dieldrin	ND	0.00010	1	06/23/2020 23:18
Endosulfan I	ND	0.00010	1	06/23/2020 23:18
Endosulfan II	ND	0.00010	1	06/23/2020 23:18
Endosulfan sulfate	ND	0.00010	1	06/23/2020 23:18
Endrin	ND	0.00010	1	06/23/2020 23:18
Endrin aldehyde	ND	0.00010	1	06/23/2020 23:18
Endrin ketone	ND	0.00010	1	06/23/2020 23:18
Heptachlor	ND	0.00010	1	06/23/2020 23:18
Heptachlor epoxide	ND	0.00010	1	06/23/2020 23:18
Hexachlorobenzene	ND	0.0010	1	06/23/2020 23:18
Hexachlorocyclopentadiene	ND	0.0020	1	06/23/2020 23:18
Methoxychlor	ND	0.00020	1	06/23/2020 23:18
Toxaphene	ND	0.0050	1	06/23/2020 23:18
Aroclor1016	ND	0.0050	1	06/23/2020 23:18
Aroclor1221	ND	0.0050	1	06/23/2020 23:18
Aroclor1232	ND	0.0050	1	06/23/2020 23:18
Aroclor1242	ND	0.0050	1	06/23/2020 23:18
Aroclor1248	ND	0.0050	1	06/23/2020 23:18
Aroclor1254	ND	0.0050	1	06/23/2020 23:18
Aroclor1260	ND	0.0050	1	06/23/2020 23:18
PCBs, total	ND	0.0050	1	06/23/2020 23:18

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	91	20-145	06/23/2020 23:18

Analyst(s): LT

(Cont.)

Analytical Report

Client: P & D Environmental
Date Received: 06/19/2020 14:24
Date Prepared: 06/22/2020
Project: 0772; The Phoenix 801 Pine Street Oakland, CA

WorkOrder: 2006A30
Extraction Method: SW3550B/3640Am/3630Cm
Analytical Method: SW8081A/8082
Unit: mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-4.0	2006A30-007B	Soil	06/19/2020 11:32	GC23 06232050.d	200496

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.00010	1	06/23/2020 23:34
a-BHC	ND	0.00010	1	06/23/2020 23:34
b-BHC	ND	0.00030	1	06/23/2020 23:34
d-BHC	ND	0.00020	1	06/23/2020 23:34
g-BHC	ND	0.00010	1	06/23/2020 23:34
Chlordane (Technical)	ND	0.0025	1	06/23/2020 23:34
a-Chlordane	ND	0.00010	1	06/23/2020 23:34
g-Chlordane	ND	0.00010	1	06/23/2020 23:34
p,p-DDD	ND	0.00010	1	06/23/2020 23:34
p,p-DDE	ND	0.00010	1	06/23/2020 23:34
p,p-DDT	ND	0.00010	1	06/23/2020 23:34
Dieldrin	ND	0.00010	1	06/23/2020 23:34
Endosulfan I	ND	0.00010	1	06/23/2020 23:34
Endosulfan II	ND	0.00010	1	06/23/2020 23:34
Endosulfan sulfate	ND	0.00010	1	06/23/2020 23:34
Endrin	ND	0.00010	1	06/23/2020 23:34
Endrin aldehyde	ND	0.00010	1	06/23/2020 23:34
Endrin ketone	ND	0.00010	1	06/23/2020 23:34
Heptachlor	ND	0.00010	1	06/23/2020 23:34
Heptachlor epoxide	ND	0.00010	1	06/23/2020 23:34
Hexachlorobenzene	ND	0.0010	1	06/23/2020 23:34
Hexachlorocyclopentadiene	ND	0.0020	1	06/23/2020 23:34
Methoxychlor	ND	0.00020	1	06/23/2020 23:34
Toxaphene	ND	0.0050	1	06/23/2020 23:34
Aroclor1016	ND	0.0050	1	06/23/2020 23:34
Aroclor1221	ND	0.0050	1	06/23/2020 23:34
Aroclor1232	ND	0.0050	1	06/23/2020 23:34
Aroclor1242	ND	0.0050	1	06/23/2020 23:34
Aroclor1248	ND	0.0050	1	06/23/2020 23:34
Aroclor1254	ND	0.0050	1	06/23/2020 23:34
Aroclor1260	ND	0.0050	1	06/23/2020 23:34
PCBs, total	ND	0.0050	1	06/23/2020 23:34

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	100	20-145	06/23/2020 23:34

Analyst(s): LT

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	06/22/2020	**Analytical Method:**	SW8081A/8082
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-2.0	2006A30-008B	Soil	06/19/2020 11:57	GC23 06232051.d	200496

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.00010	1	06/23/2020 23:49
a-BHC	ND	0.00010	1	06/23/2020 23:49
b-BHC	ND	0.00030	1	06/23/2020 23:49
d-BHC	ND	0.00020	1	06/23/2020 23:49
g-BHC	ND	0.00010	1	06/23/2020 23:49
Chlordane (Technical)	ND	0.0025	1	06/23/2020 23:49
a-Chlordane	ND	0.00010	1	06/23/2020 23:49
g-Chlordane	ND	0.00010	1	06/23/2020 23:49
p,p-DDD	ND	0.00010	1	06/23/2020 23:49
p,p-DDE	ND	0.00010	1	06/23/2020 23:49
p,p-DDT	ND	0.00010	1	06/23/2020 23:49
Dieldrin	ND	0.00010	1	06/23/2020 23:49
Endosulfan I	ND	0.00010	1	06/23/2020 23:49
Endosulfan II	ND	0.00010	1	06/23/2020 23:49
Endosulfan sulfate	ND	0.00010	1	06/23/2020 23:49
Endrin	ND	0.00010	1	06/23/2020 23:49
Endrin aldehyde	ND	0.00010	1	06/23/2020 23:49
Endrin ketone	ND	0.00010	1	06/23/2020 23:49
Heptachlor	ND	0.00010	1	06/23/2020 23:49
Heptachlor epoxide	ND	0.00010	1	06/23/2020 23:49
Hexachlorobenzene	ND	0.0010	1	06/23/2020 23:49
Hexachlorocyclopentadiene	ND	0.0020	1	06/23/2020 23:49
Methoxychlor	ND	0.00020	1	06/23/2020 23:49
Toxaphene	ND	0.0050	1	06/23/2020 23:49
Aroclor1016	ND	0.0050	1	06/23/2020 23:49
Aroclor1221	ND	0.0050	1	06/23/2020 23:49
Aroclor1232	ND	0.0050	1	06/23/2020 23:49
Aroclor1242	ND	0.0050	1	06/23/2020 23:49
Aroclor1248	ND	0.0050	1	06/23/2020 23:49
Aroclor1254	ND	0.0050	1	06/23/2020 23:49
Aroclor1260	ND	0.0050	1	06/23/2020 23:49
PCBs, total	ND	0.0050	1	06/23/2020 23:49

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	86	20-145	06/23/2020 23:49

Analyst(s): LT

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	06/22/2020	**Analytical Method:**	SW8081A/8082
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-4.0	**2006A30-009B**	**Soil**	**06/19/2020 12:04**	**GC23 06232052.d**	**200496**

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.00010	1	06/24/2020 00:05
a-BHC	ND	0.00010	1	06/24/2020 00:05
b-BHC	ND	0.00030	1	06/24/2020 00:05
d-BHC	ND	0.00020	1	06/24/2020 00:05
g-BHC	ND	0.00010	1	06/24/2020 00:05
Chlordane (Technical)	ND	0.0025	1	06/24/2020 00:05
a-Chlordane	ND	0.00010	1	06/24/2020 00:05
g-Chlordane	ND	0.00010	1	06/24/2020 00:05
p,p-DDD	ND	0.00010	1	06/24/2020 00:05
p,p-DDE	ND	0.00010	1	06/24/2020 00:05
p,p-DDT	ND	0.00010	1	06/24/2020 00:05
Dieldrin	ND	0.00010	1	06/24/2020 00:05
Endosulfan I	ND	0.00010	1	06/24/2020 00:05
Endosulfan II	ND	0.00010	1	06/24/2020 00:05
Endosulfan sulfate	ND	0.00010	1	06/24/2020 00:05
Endrin	ND	0.00010	1	06/24/2020 00:05
Endrin aldehyde	ND	0.00010	1	06/24/2020 00:05
Endrin ketone	ND	0.00010	1	06/24/2020 00:05
Heptachlor	ND	0.00010	1	06/24/2020 00:05
Heptachlor epoxide	ND	0.00010	1	06/24/2020 00:05
Hexachlorobenzene	ND	0.0010	1	06/24/2020 00:05
Hexachlorocyclopentadiene	ND	0.0020	1	06/24/2020 00:05
Methoxychlor	ND	0.00020	1	06/24/2020 00:05
Toxaphene	ND	0.0050	1	06/24/2020 00:05
Aroclor1016	ND	0.0050	1	06/24/2020 00:05
Aroclor1221	ND	0.0050	1	06/24/2020 00:05
Aroclor1232	ND	0.0050	1	06/24/2020 00:05
Aroclor1242	ND	0.0050	1	06/24/2020 00:05
Aroclor1248	ND	0.0050	1	06/24/2020 00:05
Aroclor1254	ND	0.0050	1	06/24/2020 00:05
Aroclor1260	ND	0.0050	1	06/24/2020 00:05
PCBs, total	ND	0.0050	1	06/24/2020 00:05

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	109	20-145	06/24/2020 00:05

Analyst(s): LT

Analytical Report

Client: P & D Environmental
Date Received: 06/19/2020 14:24
Date Prepared: 06/22/2020
Project: 0772; The Phoenix 801 Pine Street Oakland, CA
WorkOrder: 2006A30
Extraction Method: SW3550B/3640Am/3630Cm
Analytical Method: SW8081A/8082
Unit: mg/kg-dry

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-3.0	**2006A30-001B**	**Soil**	**06/19/2020 09:35**	**GC23 06242029.d**	**200496**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aldrin	ND		0.00011	1	06/24/2020 18:37
a-BHC	ND		0.00011	1	06/24/2020 18:37
b-BHC	ND		0.00032	1	06/24/2020 18:37
d-BHC	ND		0.00022	1	06/24/2020 18:37
g-BHC	ND		0.00011	1	06/24/2020 18:37
Chlordane (Technical)	ND		0.0027	1	06/24/2020 18:37
a-Chlordane	ND		0.00011	1	06/24/2020 18:37
g-Chlordane	ND		0.00011	1	06/24/2020 18:37
p,p-DDD	ND		0.00011	1	06/24/2020 18:37
p,p-DDE	ND		0.00011	1	06/24/2020 18:37
p,p-DDT	**0.00044**		0.00011	1	06/24/2020 18:37
Dieldrin	ND		0.00011	1	06/24/2020 18:37
Endosulfan I	ND		0.00011	1	06/24/2020 18:37
Endosulfan II	ND		0.00011	1	06/24/2020 18:37
Endosulfan sulfate	ND		0.00011	1	06/24/2020 18:37
Endrin	ND		0.00011	1	06/24/2020 18:37
Endrin aldehyde	ND		0.00011	1	06/24/2020 18:37
Endrin ketone	ND		0.00011	1	06/24/2020 18:37
Heptachlor	ND		0.00011	1	06/24/2020 18:37
Heptachlor epoxide	ND		0.00011	1	06/24/2020 18:37
Hexachlorobenzene	ND		0.0011	1	06/24/2020 18:37
Hexachlorocyclopentadiene	ND		0.0022	1	06/24/2020 18:37
Methoxychlor	ND		0.00022	1	06/24/2020 18:37
Toxaphene	ND		0.0054	1	06/24/2020 18:37
Aroclor1016	ND		0.0054	1	06/24/2020 18:37
Aroclor1221	ND		0.0054	1	06/24/2020 18:37
Aroclor1232	ND		0.0054	1	06/24/2020 18:37
Aroclor1242	ND		0.0054	1	06/24/2020 18:37
Aroclor1248	ND		0.0054	1	06/24/2020 18:37
Aroclor1254	**0.0065**	A	0.0054	1	06/24/2020 18:37
Aroclor1260	ND		0.0054	1	06/24/2020 18:37
PCBs, total	**0.0065**		0.0054	1	06/24/2020 18:37

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	79	20-145	06/24/2020 18:37

Analyst(s): LT

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	06/22/2020	**Analytical Method:**	SW8081A/8082
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/kg-dry

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-5.0	2006A30-003B	Soil	06/19/2020 10:50	GC23 06242010.d	200496

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.00011	1	06/24/2020 13:25
a-BHC	ND	0.00011	1	06/24/2020 13:25
b-BHC	ND	0.00032	1	06/24/2020 13:25
d-BHC	ND	0.00022	1	06/24/2020 13:25
g-BHC	ND	0.00011	1	06/24/2020 13:25
Chlordane (Technical)	ND	0.0027	1	06/24/2020 13:25
a-Chlordane	ND	0.00011	1	06/24/2020 13:25
g-Chlordane	ND	0.00011	1	06/24/2020 13:25
p,p-DDD	ND	0.00011	1	06/24/2020 13:25
p,p-DDE	ND	0.00011	1	06/24/2020 13:25
p,p-DDT	ND	0.00011	1	06/24/2020 13:25
Dieldrin	ND	0.00011	1	06/24/2020 13:25
Endosulfan I	ND	0.00011	1	06/24/2020 13:25
Endosulfan II	ND	0.00011	1	06/24/2020 13:25
Endosulfan sulfate	ND	0.00011	1	06/24/2020 13:25
Endrin	ND	0.00011	1	06/24/2020 13:25
Endrin aldehyde	ND	0.00011	1	06/24/2020 13:25
Endrin ketone	ND	0.00011	1	06/24/2020 13:25
Heptachlor	ND	0.00011	1	06/24/2020 13:25
Heptachlor epoxide	ND	0.00011	1	06/24/2020 13:25
Hexachlorobenzene	ND	0.0011	1	06/24/2020 13:25
Hexachlorocyclopentadiene	ND	0.0022	1	06/24/2020 13:25
Methoxychlor	ND	0.00022	1	06/24/2020 13:25
Toxaphene	ND	0.0054	1	06/24/2020 13:25
Aroclor1016	ND	0.0054	1	06/24/2020 13:25
Aroclor1221	ND	0.0054	1	06/24/2020 13:25
Aroclor1232	ND	0.0054	1	06/24/2020 13:25
Aroclor1242	ND	0.0054	1	06/24/2020 13:25
Aroclor1248	ND	0.0054	1	06/24/2020 13:25
Aroclor1254	ND	0.0054	1	06/24/2020 13:25
Aroclor1260	ND	0.0054	1	06/24/2020 13:25
PCBs, total	ND	0.0054	1	06/24/2020 13:25

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	94	20-145	06/24/2020 13:25

Analyst(s): LT

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	06/22/2020	**Analytical Method:**	SW8081A/8082
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/kg-dry

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-2.0	2006A30-004B	Soil	06/19/2020 10:20	GC23 06232048.d	200496

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.00011	1	06/23/2020 23:02
a-BHC	ND	0.00011	1	06/23/2020 23:02
b-BHC	ND	0.00032	1	06/23/2020 23:02
d-BHC	ND	0.00021	1	06/23/2020 23:02
g-BHC	ND	0.00011	1	06/23/2020 23:02
Chlordane (Technical)	ND	0.0027	1	06/23/2020 23:02
a-Chlordane	ND	0.00011	1	06/23/2020 23:02
g-Chlordane	ND	0.00011	1	06/23/2020 23:02
p,p-DDD	ND	0.00011	1	06/23/2020 23:02
p,p-DDE	ND	0.00011	1	06/23/2020 23:02
p,p-DDT	ND	0.00011	1	06/23/2020 23:02
Dieldrin	ND	0.00011	1	06/23/2020 23:02
Endosulfan I	ND	0.00011	1	06/23/2020 23:02
Endosulfan II	ND	0.00011	1	06/23/2020 23:02
Endosulfan sulfate	ND	0.00011	1	06/23/2020 23:02
Endrin	ND	0.00011	1	06/23/2020 23:02
Endrin aldehyde	ND	0.00011	1	06/23/2020 23:02
Endrin ketone	ND	0.00011	1	06/23/2020 23:02
Heptachlor	ND	0.00011	1	06/23/2020 23:02
Heptachlor epoxide	ND	0.00011	1	06/23/2020 23:02
Hexachlorobenzene	ND	0.0011	1	06/23/2020 23:02
Hexachlorocyclopentadiene	ND	0.0021	1	06/23/2020 23:02
Methoxychlor	ND	0.00021	1	06/23/2020 23:02
Toxaphene	ND	0.0053	1	06/23/2020 23:02
Aroclor1016	ND	0.0053	1	06/23/2020 23:02
Aroclor1221	ND	0.0053	1	06/23/2020 23:02
Aroclor1232	ND	0.0053	1	06/23/2020 23:02
Aroclor1242	ND	0.0053	1	06/23/2020 23:02
Aroclor1248	ND	0.0053	1	06/23/2020 23:02
Aroclor1254	ND	0.0053	1	06/23/2020 23:02
Aroclor1260	ND	0.0053	1	06/23/2020 23:02
PCBs, total	ND	0.0053	1	06/23/2020 23:02

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	94	20-145	06/23/2020 23:02

Analyst(s): LT

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	06/22/2020	**Analytical Method:**	SW8081A/8082
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/kg-dry

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-4.0	2006A30-005B	Soil	06/19/2020 10:25	GC23 06232035.d	200496

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.00011	1	06/23/2020 19:38
a-BHC	ND	0.00011	1	06/23/2020 19:38
b-BHC	ND	0.00032	1	06/23/2020 19:38
d-BHC	ND	0.00021	1	06/23/2020 19:38
g-BHC	ND	0.00011	1	06/23/2020 19:38
Chlordane (Technical)	ND	0.0027	1	06/23/2020 19:38
a-Chlordane	ND	0.00011	1	06/23/2020 19:38
g-Chlordane	ND	0.00011	1	06/23/2020 19:38
p,p-DDD	ND	0.00011	1	06/23/2020 19:38
p,p-DDE	ND	0.00011	1	06/23/2020 19:38
p,p-DDT	ND	0.00011	1	06/23/2020 19:38
Dieldrin	ND	0.00011	1	06/23/2020 19:38
Endosulfan I	ND	0.00011	1	06/23/2020 19:38
Endosulfan II	ND	0.00011	1	06/23/2020 19:38
Endosulfan sulfate	ND	0.00011	1	06/23/2020 19:38
Endrin	ND	0.00011	1	06/23/2020 19:38
Endrin aldehyde	ND	0.00011	1	06/23/2020 19:38
Endrin ketone	ND	0.00011	1	06/23/2020 19:38
Heptachlor	ND	0.00011	1	06/23/2020 19:38
Heptachlor epoxide	ND	0.00011	1	06/23/2020 19:38
Hexachlorobenzene	ND	0.0011	1	06/23/2020 19:38
Hexachlorocyclopentadiene	ND	0.0021	1	06/23/2020 19:38
Methoxychlor	ND	0.00021	1	06/23/2020 19:38
Toxaphene	ND	0.0053	1	06/23/2020 19:38
Aroclor1016	ND	0.0053	1	06/23/2020 19:38
Aroclor1221	ND	0.0053	1	06/23/2020 19:38
Aroclor1232	ND	0.0053	1	06/23/2020 19:38
Aroclor1242	ND	0.0053	1	06/23/2020 19:38
Aroclor1248	ND	0.0053	1	06/23/2020 19:38
Aroclor1254	ND	0.0053	1	06/23/2020 19:38
Aroclor1260	ND	0.0053	1	06/23/2020 19:38
PCBs, total	ND	0.0053	1	06/23/2020 19:38

Surrogates	REC (%)	Limits		
Decachlorobiphenyl	96	20-145		06/23/2020 19:38

Analyst(s): LT

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	06/22/2020	**Analytical Method:**	SW8081A/8082
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/kg-dry

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-2.0	2006A30-006B	Soil	06/19/2020 11:30	GC23 06232049.d	200496

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.00011	1	06/23/2020 23:18
a-BHC	ND	0.00011	1	06/23/2020 23:18
b-BHC	ND	0.00032	1	06/23/2020 23:18
d-BHC	ND	0.00021	1	06/23/2020 23:18
g-BHC	ND	0.00011	1	06/23/2020 23:18
Chlordane (Technical)	ND	0.0027	1	06/23/2020 23:18
a-Chlordane	ND	0.00011	1	06/23/2020 23:18
g-Chlordane	ND	0.00011	1	06/23/2020 23:18
p,p-DDD	ND	0.00011	1	06/23/2020 23:18
p,p-DDE	ND	0.00011	1	06/23/2020 23:18
p,p-DDT	ND	0.00011	1	06/23/2020 23:18
Dieldrin	ND	0.00011	1	06/23/2020 23:18
Endosulfan I	ND	0.00011	1	06/23/2020 23:18
Endosulfan II	ND	0.00011	1	06/23/2020 23:18
Endosulfan sulfate	ND	0.00011	1	06/23/2020 23:18
Endrin	ND	0.00011	1	06/23/2020 23:18
Endrin aldehyde	ND	0.00011	1	06/23/2020 23:18
Endrin ketone	ND	0.00011	1	06/23/2020 23:18
Heptachlor	ND	0.00011	1	06/23/2020 23:18
Heptachlor epoxide	ND	0.00011	1	06/23/2020 23:18
Hexachlorobenzene	ND	0.0011	1	06/23/2020 23:18
Hexachlorocyclopentadiene	ND	0.0021	1	06/23/2020 23:18
Methoxychlor	ND	0.00021	1	06/23/2020 23:18
Toxaphene	ND	0.0053	1	06/23/2020 23:18
Aroclor1016	ND	0.0053	1	06/23/2020 23:18
Aroclor1221	ND	0.0053	1	06/23/2020 23:18
Aroclor1232	ND	0.0053	1	06/23/2020 23:18
Aroclor1242	ND	0.0053	1	06/23/2020 23:18
Aroclor1248	ND	0.0053	1	06/23/2020 23:18
Aroclor1254	ND	0.0053	1	06/23/2020 23:18
Aroclor1260	ND	0.0053	1	06/23/2020 23:18
PCBs, total	ND	0.0053	1	06/23/2020 23:18

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	91	20-145	06/23/2020 23:18

Analyst(s): LT

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	06/22/2020	**Analytical Method:**	SW8081A/8082
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/kg-dry

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-4.0	2006A30-007B	Soil	06/19/2020 11:32	GC23 06232050.d	200496

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.00011	1	06/23/2020 23:34
a-BHC	ND	0.00011	1	06/23/2020 23:34
b-BHC	ND	0.00032	1	06/23/2020 23:34
d-BHC	ND	0.00021	1	06/23/2020 23:34
g-BHC	ND	0.00011	1	06/23/2020 23:34
Chlordane (Technical)	ND	0.0027	1	06/23/2020 23:34
a-Chlordane	ND	0.00011	1	06/23/2020 23:34
g-Chlordane	ND	0.00011	1	06/23/2020 23:34
p,p-DDD	ND	0.00011	1	06/23/2020 23:34
p,p-DDE	ND	0.00011	1	06/23/2020 23:34
p,p-DDT	ND	0.00011	1	06/23/2020 23:34
Dieldrin	ND	0.00011	1	06/23/2020 23:34
Endosulfan I	ND	0.00011	1	06/23/2020 23:34
Endosulfan II	ND	0.00011	1	06/23/2020 23:34
Endosulfan sulfate	ND	0.00011	1	06/23/2020 23:34
Endrin	ND	0.00011	1	06/23/2020 23:34
Endrin aldehyde	ND	0.00011	1	06/23/2020 23:34
Endrin ketone	ND	0.00011	1	06/23/2020 23:34
Heptachlor	ND	0.00011	1	06/23/2020 23:34
Heptachlor epoxide	ND	0.00011	1	06/23/2020 23:34
Hexachlorobenzene	ND	0.0011	1	06/23/2020 23:34
Hexachlorocyclopentadiene	ND	0.0021	1	06/23/2020 23:34
Methoxychlor	ND	0.00021	1	06/23/2020 23:34
Toxaphene	ND	0.0053	1	06/23/2020 23:34
Aroclor1016	ND	0.0053	1	06/23/2020 23:34
Aroclor1221	ND	0.0053	1	06/23/2020 23:34
Aroclor1232	ND	0.0053	1	06/23/2020 23:34
Aroclor1242	ND	0.0053	1	06/23/2020 23:34
Aroclor1248	ND	0.0053	1	06/23/2020 23:34
Aroclor1254	ND	0.0053	1	06/23/2020 23:34
Aroclor1260	ND	0.0053	1	06/23/2020 23:34
PCBs, total	ND	0.0053	1	06/23/2020 23:34

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	100	20-145	06/23/2020 23:34

Analyst(s): LT

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	06/22/2020	**Analytical Method:**	SW8081A/8082
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/kg-dry

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-2.0	2006A30-008B	Soil	06/19/2020 11:57	GC23 06232051.d	200496

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.00011	1	06/23/2020 23:49
a-BHC	ND	0.00011	1	06/23/2020 23:49
b-BHC	ND	0.00032	1	06/23/2020 23:49
d-BHC	ND	0.00021	1	06/23/2020 23:49
g-BHC	ND	0.00011	1	06/23/2020 23:49
Chlordane (Technical)	ND	0.0027	1	06/23/2020 23:49
a-Chlordane	ND	0.00011	1	06/23/2020 23:49
g-Chlordane	ND	0.00011	1	06/23/2020 23:49
p,p-DDD	ND	0.00011	1	06/23/2020 23:49
p,p-DDE	ND	0.00011	1	06/23/2020 23:49
p,p-DDT	ND	0.00011	1	06/23/2020 23:49
Dieldrin	ND	0.00011	1	06/23/2020 23:49
Endosulfan I	ND	0.00011	1	06/23/2020 23:49
Endosulfan II	ND	0.00011	1	06/23/2020 23:49
Endosulfan sulfate	ND	0.00011	1	06/23/2020 23:49
Endrin	ND	0.00011	1	06/23/2020 23:49
Endrin aldehyde	ND	0.00011	1	06/23/2020 23:49
Endrin ketone	ND	0.00011	1	06/23/2020 23:49
Heptachlor	ND	0.00011	1	06/23/2020 23:49
Heptachlor epoxide	ND	0.00011	1	06/23/2020 23:49
Hexachlorobenzene	ND	0.0011	1	06/23/2020 23:49
Hexachlorocyclopentadiene	ND	0.0021	1	06/23/2020 23:49
Methoxychlor	ND	0.00021	1	06/23/2020 23:49
Toxaphene	ND	0.0053	1	06/23/2020 23:49
Aroclor1016	ND	0.0053	1	06/23/2020 23:49
Aroclor1221	ND	0.0053	1	06/23/2020 23:49
Aroclor1232	ND	0.0053	1	06/23/2020 23:49
Aroclor1242	ND	0.0053	1	06/23/2020 23:49
Aroclor1248	ND	0.0053	1	06/23/2020 23:49
Aroclor1254	ND	0.0053	1	06/23/2020 23:49
Aroclor1260	ND	0.0053	1	06/23/2020 23:49
PCBs, total	ND	0.0053	1	06/23/2020 23:49

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	86	20-145	06/23/2020 23:49

Analyst(s): LT

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	06/22/2020	**Analytical Method:**	SW8081A/8082
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/kg-dry

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-4.0	2006A30-009B	Soil	06/19/2020 12:04	GC23 06232052.d	200496

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.00011	1	06/24/2020 00:05
a-BHC	ND	0.00011	1	06/24/2020 00:05
b-BHC	ND	0.00032	1	06/24/2020 00:05
d-BHC	ND	0.00021	1	06/24/2020 00:05
g-BHC	ND	0.00011	1	06/24/2020 00:05
Chlordane (Technical)	ND	0.0027	1	06/24/2020 00:05
a-Chlordane	ND	0.00011	1	06/24/2020 00:05
g-Chlordane	ND	0.00011	1	06/24/2020 00:05
p,p-DDD	ND	0.00011	1	06/24/2020 00:05
p,p-DDE	ND	0.00011	1	06/24/2020 00:05
p,p-DDT	ND	0.00011	1	06/24/2020 00:05
Dieldrin	ND	0.00011	1	06/24/2020 00:05
Endosulfan I	ND	0.00011	1	06/24/2020 00:05
Endosulfan II	ND	0.00011	1	06/24/2020 00:05
Endosulfan sulfate	ND	0.00011	1	06/24/2020 00:05
Endrin	ND	0.00011	1	06/24/2020 00:05
Endrin aldehyde	ND	0.00011	1	06/24/2020 00:05
Endrin ketone	ND	0.00011	1	06/24/2020 00:05
Heptachlor	ND	0.00011	1	06/24/2020 00:05
Heptachlor epoxide	ND	0.00011	1	06/24/2020 00:05
Hexachlorobenzene	ND	0.0011	1	06/24/2020 00:05
Hexachlorocyclopentadiene	ND	0.0021	1	06/24/2020 00:05
Methoxychlor	ND	0.00021	1	06/24/2020 00:05
Toxaphene	ND	0.0053	1	06/24/2020 00:05
Aroclor1016	ND	0.0053	1	06/24/2020 00:05
Aroclor1221	ND	0.0053	1	06/24/2020 00:05
Aroclor1232	ND	0.0053	1	06/24/2020 00:05
Aroclor1242	ND	0.0053	1	06/24/2020 00:05
Aroclor1248	ND	0.0053	1	06/24/2020 00:05
Aroclor1254	ND	0.0053	1	06/24/2020 00:05
Aroclor1260	ND	0.0053	1	06/24/2020 00:05
PCBs, total	ND	0.0053	1	06/24/2020 00:05

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	109	20-145	06/24/2020 00:05

Analyst(s): LT

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW5035
Date Prepared:	06/19/2020	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-3.0	2006A30-001A	Soil	06/19/2020 09:35	GC38 06232028.D	200431

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	06/24/2020 01:02
tert-Amyl methyl ether (TAME)	ND	0.0052	1	06/24/2020 01:02
Benzene	ND	0.0052	1	06/24/2020 01:02
Bromobenzene	ND	0.0052	1	06/24/2020 01:02
Bromochloromethane	ND	0.0052	1	06/24/2020 01:02
Bromodichloromethane	ND	0.0010	1	06/24/2020 01:02
Bromoform	ND	0.0052	1	06/24/2020 01:02
Bromomethane	ND	0.0052	1	06/24/2020 01:02
2-Butanone (MEK)	ND	0.020	1	06/24/2020 01:02
t-Butyl alcohol (TBA)	ND	0.052	1	06/24/2020 01:02
n-Butyl benzene	ND	0.0052	1	06/24/2020 01:02
sec-Butyl benzene	ND	0.0052	1	06/24/2020 01:02
tert-Butyl benzene	ND	0.0052	1	06/24/2020 01:02
Carbon Disulfide	ND	0.0052	1	06/24/2020 01:02
Carbon Tetrachloride	ND	0.0052	1	06/24/2020 01:02
Chlorobenzene	ND	0.0052	1	06/24/2020 01:02
Chloroethane	ND	0.0052	1	06/24/2020 01:02
Chloroform	ND	0.0052	1	06/24/2020 01:02
Chloromethane	ND	0.0052	1	06/24/2020 01:02
2-Chlorotoluene	ND	0.0052	1	06/24/2020 01:02
4-Chlorotoluene	ND	0.0052	1	06/24/2020 01:02
Dibromochloromethane	ND	0.0052	1	06/24/2020 01:02
1,2-Dibromo-3-chloropropane	ND	0.00026	1	06/24/2020 01:02
1,2-Dibromoethane (EDB)	ND	0.00010	1	06/24/2020 01:02
Dibromomethane	ND	0.0052	1	06/24/2020 01:02
1,2-Dichlorobenzene	ND	0.0052	1	06/24/2020 01:02
1,3-Dichlorobenzene	ND	0.0052	1	06/24/2020 01:02
1,4-Dichlorobenzene	ND	0.0052	1	06/24/2020 01:02
Dichlorodifluoromethane	ND	0.0052	1	06/24/2020 01:02
1,1-Dichloroethane	ND	0.0052	1	06/24/2020 01:02
1,2-Dichloroethane (1,2-DCA)	ND	0.00026	1	06/24/2020 01:02
1,1-Dichloroethene	ND	0.00026	1	06/24/2020 01:02
cis-1,2-Dichloroethene	ND	0.0052	1	06/24/2020 01:02
trans-1,2-Dichloroethene	ND	0.0052	1	06/24/2020 01:02
1,2-Dichloropropane	ND	0.0052	1	06/24/2020 01:02
1,3-Dichloropropane	ND	0.0052	1	06/24/2020 01:02
2,2-Dichloropropane	ND	0.0052	1	06/24/2020 01:02

(Cont.)

Analytical Report

Client: P & D Environmental
Date Received: 06/19/2020 14:24
Date Prepared: 06/19/2020
Project: 0772; The Phoenix 801 Pine Street Oakland, CA

WorkOrder: 2006A30
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg-dry

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-3.0	2006A30-001A	Soil	06/19/2020 09:35	GC38 06232028.D	200431

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0052	1	06/24/2020 01:02
cis-1,3-Dichloropropene	ND	0.0052	1	06/24/2020 01:02
trans-1,3-Dichloropropene	ND	0.0052	1	06/24/2020 01:02
Diisopropyl ether (DIPE)	ND	0.0052	1	06/24/2020 01:02
Ethylbenzene	ND	0.0052	1	06/24/2020 01:02
Ethyl tert-butyl ether (ETBE)	ND	0.0052	1	06/24/2020 01:02
Freon 113	ND	0.0052	1	06/24/2020 01:02
Hexachlorobutadiene	ND	0.0052	1	06/24/2020 01:02
Hexachloroethane	ND	0.0052	1	06/24/2020 01:02
2-Hexanone	ND	0.0052	1	06/24/2020 01:02
Isopropylbenzene	ND	0.0052	1	06/24/2020 01:02
4-Isopropyl toluene	ND	0.0052	1	06/24/2020 01:02
Methyl-t-butyl ether (MTBE)	ND	0.0052	1	06/24/2020 01:02
Methylene chloride	ND	0.010	1	06/24/2020 01:02
4-Methyl-2-pentanone (MIBK)	ND	0.0052	1	06/24/2020 01:02
Naphthalene	ND	0.0052	1	06/24/2020 01:02
n-Propyl benzene	ND	0.0052	1	06/24/2020 01:02
Styrene	ND	0.0052	1	06/24/2020 01:02
1,1,1,2-Tetrachloroethane	ND	0.0052	1	06/24/2020 01:02
1,1,2,2-Tetrachloroethane	ND	0.00026	1	06/24/2020 01:02
Tetrachloroethene	ND	0.0010	1	06/24/2020 01:02
Toluene	ND	0.0052	1	06/24/2020 01:02
1,2,3-Trichlorobenzene	ND	0.0052	1	06/24/2020 01:02
1,2,4-Trichlorobenzene	ND	0.0052	1	06/24/2020 01:02
1,1,1-Trichloroethane	ND	0.0052	1	06/24/2020 01:02
1,1,2-Trichloroethane	ND	0.0052	1	06/24/2020 01:02
Trichloroethene	ND	0.0052	1	06/24/2020 01:02
Trichlorofluoromethane	ND	0.0052	1	06/24/2020 01:02
1,2,3-Trichloropropane	ND	0.000052	1	06/24/2020 01:02
1,2,4-Trimethylbenzene	ND	0.0052	1	06/24/2020 01:02
1,3,5-Trimethylbenzene	ND	0.0052	1	06/24/2020 01:02
Vinyl Chloride	ND	0.00026	1	06/24/2020 01:02
m,p-Xylene	ND	0.0052	1	06/24/2020 01:02
o-Xylene	ND	0.0052	1	06/24/2020 01:02
Xylenes, Total	ND	0.0052	1	06/24/2020 01:02

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW5035
Date Prepared:	06/19/2020	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-3.0	**2006A30-001A**	**Soil**	**06/19/2020 09:35**	**GC38 06232028.D**	**200431**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	95	71-151		06/24/2020 01:02
Toluene-d8	103	90-150		06/24/2020 01:02
4-BFB	96	83-143		06/24/2020 01:02
Benzene-d6	97	71-118		06/24/2020 01:02
Ethylbenzene-d10	95	79-125		06/24/2020 01:02
1,2-DCB-d4	78	57-112		06/24/2020 01:02

Analyst(s): KF

Analytical Comments: a9

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW5035
Date Prepared:	06/19/2020	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-5.0	2006A30-003A	Soil	06/19/2020 10:50	GC38 06232030.D	200431

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.097	1	06/24/2020 02:17
tert-Amyl methyl ether (TAME)	ND	0.0048	1	06/24/2020 02:17
Benzene	ND	0.0048	1	06/24/2020 02:17
Bromobenzene	ND	0.0048	1	06/24/2020 02:17
Bromochloromethane	ND	0.0048	1	06/24/2020 02:17
Bromodichloromethane	ND	0.00097	1	06/24/2020 02:17
Bromoform	ND	0.0048	1	06/24/2020 02:17
Bromomethane	ND	0.0048	1	06/24/2020 02:17
2-Butanone (MEK)	ND	0.019	1	06/24/2020 02:17
t-Butyl alcohol (TBA)	ND	0.048	1	06/24/2020 02:17
n-Butyl benzene	ND	0.0048	1	06/24/2020 02:17
sec-Butyl benzene	ND	0.0048	1	06/24/2020 02:17
tert-Butyl benzene	ND	0.0048	1	06/24/2020 02:17
Carbon Disulfide	ND	0.0048	1	06/24/2020 02:17
Carbon Tetrachloride	ND	0.0048	1	06/24/2020 02:17
Chlorobenzene	ND	0.0048	1	06/24/2020 02:17
Chloroethane	ND	0.0048	1	06/24/2020 02:17
Chloroform	ND	0.0048	1	06/24/2020 02:17
Chloromethane	ND	0.0048	1	06/24/2020 02:17
2-Chlorotoluene	ND	0.0048	1	06/24/2020 02:17
4-Chlorotoluene	ND	0.0048	1	06/24/2020 02:17
Dibromochloromethane	ND	0.0048	1	06/24/2020 02:17
1,2-Dibromo-3-chloropropane	ND	0.00025	1	06/24/2020 02:17
1,2-Dibromoethane (EDB)	ND	0.000097	1	06/24/2020 02:17
Dibromomethane	ND	0.0048	1	06/24/2020 02:17
1,2-Dichlorobenzene	ND	0.0048	1	06/24/2020 02:17
1,3-Dichlorobenzene	ND	0.0048	1	06/24/2020 02:17
1,4-Dichlorobenzene	ND	0.0048	1	06/24/2020 02:17
Dichlorodifluoromethane	ND	0.0048	1	06/24/2020 02:17
1,1-Dichloroethane	ND	0.0048	1	06/24/2020 02:17
1,2-Dichloroethane (1,2-DCA)	ND	0.00025	1	06/24/2020 02:17
1,1-Dichloroethene	ND	0.00025	1	06/24/2020 02:17
cis-1,2-Dichloroethene	ND	0.0048	1	06/24/2020 02:17
trans-1,2-Dichloroethene	ND	0.0048	1	06/24/2020 02:17
1,2-Dichloropropane	ND	0.0048	1	06/24/2020 02:17
1,3-Dichloropropane	ND	0.0048	1	06/24/2020 02:17
2,2-Dichloropropane	ND	0.0048	1	06/24/2020 02:17

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW5035
Date Prepared:	06/19/2020	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-5.0	2006A30-003A	Soil	06/19/2020 10:50	GC38 06232030.D	200431

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0048	1	06/24/2020 02:17
cis-1,3-Dichloropropene	ND	0.0048	1	06/24/2020 02:17
trans-1,3-Dichloropropene	ND	0.0048	1	06/24/2020 02:17
Diisopropyl ether (DIPE)	ND	0.0048	1	06/24/2020 02:17
Ethylbenzene	ND	0.0048	1	06/24/2020 02:17
Ethyl tert-butyl ether (ETBE)	ND	0.0048	1	06/24/2020 02:17
Freon 113	ND	0.0048	1	06/24/2020 02:17
Hexachlorobutadiene	ND	0.0048	1	06/24/2020 02:17
Hexachloroethane	ND	0.0048	1	06/24/2020 02:17
2-Hexanone	ND	0.0048	1	06/24/2020 02:17
Isopropylbenzene	ND	0.0048	1	06/24/2020 02:17
4-Isopropyl toluene	ND	0.0048	1	06/24/2020 02:17
Methyl-t-butyl ether (MTBE)	ND	0.0048	1	06/24/2020 02:17
Methylene chloride	ND	0.0097	1	06/24/2020 02:17
4-Methyl-2-pentanone (MIBK)	ND	0.0048	1	06/24/2020 02:17
Naphthalene	ND	0.0048	1	06/24/2020 02:17
n-Propyl benzene	ND	0.0048	1	06/24/2020 02:17
Styrene	ND	0.0048	1	06/24/2020 02:17
1,1,1,2-Tetrachloroethane	ND	0.0048	1	06/24/2020 02:17
1,1,2,2-Tetrachloroethane	ND	0.00025	1	06/24/2020 02:17
Tetrachloroethene	ND	0.00097	1	06/24/2020 02:17
Toluene	ND	0.0048	1	06/24/2020 02:17
1,2,3-Trichlorobenzene	ND	0.0048	1	06/24/2020 02:17
1,2,4-Trichlorobenzene	ND	0.0048	1	06/24/2020 02:17
1,1,1-Trichloroethane	ND	0.0048	1	06/24/2020 02:17
1,1,2-Trichloroethane	ND	0.0048	1	06/24/2020 02:17
Trichloroethene	ND	0.0048	1	06/24/2020 02:17
Trichlorofluoromethane	ND	0.0048	1	06/24/2020 02:17
1,2,3-Trichloropropane	ND	0.000048	1	06/24/2020 02:17
1,2,4-Trimethylbenzene	ND	0.0048	1	06/24/2020 02:17
1,3,5-Trimethylbenzene	ND	0.0048	1	06/24/2020 02:17
Vinyl Chloride	ND	0.00025	1	06/24/2020 02:17
m,p-Xylene	ND	0.0048	1	06/24/2020 02:17
o-Xylene	ND	0.0048	1	06/24/2020 02:17
Xylenes, Total	ND	0.0048	1	06/24/2020 02:17

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW5035
Date Prepared:	06/19/2020	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-5.0	**2006A30-003A**	**Soil**	**06/19/2020 10:50**	**GC38 06232030.D**	**200431**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	93	71-151		06/24/2020 02:17
Toluene-d8	103	90-150		06/24/2020 02:17
4-BFB	98	83-143		06/24/2020 02:17
Benzene-d6	88	71-118		06/24/2020 02:17
Ethylbenzene-d10	92	79-125		06/24/2020 02:17
1,2-DCB-d4	76	57-112		06/24/2020 02:17

Analyst(s): KF

Analytical Comments: a9

(Cont.)

Analytical Report

Client: P & D Environmental
Date Received: 06/19/2020 14:24
Date Prepared: 06/19/2020
Project: 0772; The Phoenix 801 Pine Street Oakland, CA

WorkOrder: 2006A30
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg-dry

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-2.0	2006A30-004A	Soil	06/19/2020 10:20	GC38 06232031.D	200431

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.11	1	06/24/2020 02:55
tert-Amyl methyl ether (TAME)	ND	0.0054	1	06/24/2020 02:55
Benzene	ND	0.0054	1	06/24/2020 02:55
Bromobenzene	ND	0.0054	1	06/24/2020 02:55
Bromochloromethane	ND	0.0054	1	06/24/2020 02:55
Bromodichloromethane	ND	0.0011	1	06/24/2020 02:55
Bromoform	ND	0.0054	1	06/24/2020 02:55
Bromomethane	ND	0.0054	1	06/24/2020 02:55
2-Butanone (MEK)	ND	0.021	1	06/24/2020 02:55
t-Butyl alcohol (TBA)	ND	0.054	1	06/24/2020 02:55
n-Butyl benzene	ND	0.0054	1	06/24/2020 02:55
sec-Butyl benzene	ND	0.0054	1	06/24/2020 02:55
tert-Butyl benzene	ND	0.0054	1	06/24/2020 02:55
Carbon Disulfide	ND	0.0054	1	06/24/2020 02:55
Carbon Tetrachloride	ND	0.0054	1	06/24/2020 02:55
Chlorobenzene	ND	0.0054	1	06/24/2020 02:55
Chloroethane	ND	0.0054	1	06/24/2020 02:55
Chloroform	ND	0.0054	1	06/24/2020 02:55
Chloromethane	ND	0.0054	1	06/24/2020 02:55
2-Chlorotoluene	ND	0.0054	1	06/24/2020 02:55
4-Chlorotoluene	ND	0.0054	1	06/24/2020 02:55
Dibromochloromethane	ND	0.0054	1	06/24/2020 02:55
1,2-Dibromo-3-chloropropane	ND	0.00028	1	06/24/2020 02:55
1,2-Dibromoethane (EDB)	ND	0.00011	1	06/24/2020 02:55
Dibromomethane	ND	0.0054	1	06/24/2020 02:55
1,2-Dichlorobenzene	ND	0.0054	1	06/24/2020 02:55
1,3-Dichlorobenzene	ND	0.0054	1	06/24/2020 02:55
1,4-Dichlorobenzene	ND	0.0054	1	06/24/2020 02:55
Dichlorodifluoromethane	ND	0.0054	1	06/24/2020 02:55
1,1-Dichloroethane	ND	0.0054	1	06/24/2020 02:55
1,2-Dichloroethane (1,2-DCA)	ND	0.00028	1	06/24/2020 02:55
1,1-Dichloroethene	ND	0.00028	1	06/24/2020 02:55
cis-1,2-Dichloroethene	ND	0.0054	1	06/24/2020 02:55
trans-1,2-Dichloroethene	ND	0.0054	1	06/24/2020 02:55
1,2-Dichloropropane	ND	0.0054	1	06/24/2020 02:55
1,3-Dichloropropane	ND	0.0054	1	06/24/2020 02:55
2,2-Dichloropropane	ND	0.0054	1	06/24/2020 02:55

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW5035
Date Prepared:	06/19/2020	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-2.0	**2006A30-004A**	**Soil**	**06/19/2020 10:20**	**GC38 06232031.D**	**200431**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0054	1	06/24/2020 02:55
cis-1,3-Dichloropropene	ND	0.0054	1	06/24/2020 02:55
trans-1,3-Dichloropropene	ND	0.0054	1	06/24/2020 02:55
Diisopropyl ether (DIPE)	ND	0.0054	1	06/24/2020 02:55
Ethylbenzene	ND	0.0054	1	06/24/2020 02:55
Ethyl tert-butyl ether (ETBE)	ND	0.0054	1	06/24/2020 02:55
Freon 113	ND	0.0054	1	06/24/2020 02:55
Hexachlorobutadiene	ND	0.0054	1	06/24/2020 02:55
Hexachloroethane	ND	0.0054	1	06/24/2020 02:55
2-Hexanone	ND	0.0054	1	06/24/2020 02:55
Isopropylbenzene	ND	0.0054	1	06/24/2020 02:55
4-Isopropyl toluene	ND	0.0054	1	06/24/2020 02:55
Methyl-t-butyl ether (MTBE)	ND	0.0054	1	06/24/2020 02:55
Methylene chloride	ND	0.011	1	06/24/2020 02:55
4-Methyl-2-pentanone (MIBK)	ND	0.0054	1	06/24/2020 02:55
Naphthalene	ND	0.0054	1	06/24/2020 02:55
n-Propyl benzene	ND	0.0054	1	06/24/2020 02:55
Styrene	ND	0.0054	1	06/24/2020 02:55
1,1,1,2-Tetrachloroethane	ND	0.0054	1	06/24/2020 02:55
1,1,2,2-Tetrachloroethane	ND	0.00028	1	06/24/2020 02:55
Tetrachloroethene	ND	0.0011	1	06/24/2020 02:55
Toluene	ND	0.0054	1	06/24/2020 02:55
1,2,3-Trichlorobenzene	ND	0.0054	1	06/24/2020 02:55
1,2,4-Trichlorobenzene	ND	0.0054	1	06/24/2020 02:55
1,1,1-Trichloroethane	ND	0.0054	1	06/24/2020 02:55
1,1,2-Trichloroethane	ND	0.0054	1	06/24/2020 02:55
Trichloroethene	ND	0.0054	1	06/24/2020 02:55
Trichlorofluoromethane	ND	0.0054	1	06/24/2020 02:55
1,2,3-Trichloropropane	ND	0.000054	1	06/24/2020 02:55
1,2,4-Trimethylbenzene	ND	0.0054	1	06/24/2020 02:55
1,3,5-Trimethylbenzene	ND	0.0054	1	06/24/2020 02:55
Vinyl Chloride	ND	0.00028	1	06/24/2020 02:55
m,p-Xylene	ND	0.0054	1	06/24/2020 02:55
o-Xylene	ND	0.0054	1	06/24/2020 02:55
Xylenes, Total	ND	0.0054	1	06/24/2020 02:55

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW5035
Date Prepared:	06/19/2020	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-2.0	2006A30-004A	Soil	06/19/2020 10:20	GC38 06232031.D	200431

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	88	71-151		06/24/2020 02:55
Toluene-d8	103	90-150		06/24/2020 02:55
4-BFB	100	83-143		06/24/2020 02:55
Benzene-d6	91	71-118		06/24/2020 02:55
Ethylbenzene-d10	99	79-125		06/24/2020 02:55
1,2-DCB-d4	78	57-112		06/24/2020 02:55

Analyst(s): KF

Analytical Comments: a9

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW5035
Date Prepared:	06/19/2020	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-4.0	2006A30-005A	Soil	06/19/2020 10:25	GC38 06232032.D	200431

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.096	1	06/24/2020 03:32
tert-Amyl methyl ether (TAME)	ND	0.0048	1	06/24/2020 03:32
Benzene	ND	0.0048	1	06/24/2020 03:32
Bromobenzene	ND	0.0048	1	06/24/2020 03:32
Bromochloromethane	ND	0.0048	1	06/24/2020 03:32
Bromodichloromethane	ND	0.00096	1	06/24/2020 03:32
Bromoform	ND	0.0048	1	06/24/2020 03:32
Bromomethane	ND	0.0048	1	06/24/2020 03:32
2-Butanone (MEK)	ND	0.019	1	06/24/2020 03:32
t-Butyl alcohol (TBA)	ND	0.048	1	06/24/2020 03:32
n-Butyl benzene	ND	0.0048	1	06/24/2020 03:32
sec-Butyl benzene	ND	0.0048	1	06/24/2020 03:32
tert-Butyl benzene	ND	0.0048	1	06/24/2020 03:32
Carbon Disulfide	ND	0.0048	1	06/24/2020 03:32
Carbon Tetrachloride	ND	0.0048	1	06/24/2020 03:32
Chlorobenzene	ND	0.0048	1	06/24/2020 03:32
Chloroethane	ND	0.0048	1	06/24/2020 03:32
Chloroform	ND	0.0048	1	06/24/2020 03:32
Chloromethane	ND	0.0048	1	06/24/2020 03:32
2-Chlorotoluene	ND	0.0048	1	06/24/2020 03:32
4-Chlorotoluene	ND	0.0048	1	06/24/2020 03:32
Dibromochloromethane	ND	0.0048	1	06/24/2020 03:32
1,2-Dibromo-3-chloropropane	ND	0.00023	1	06/24/2020 03:32
1,2-Dibromoethane (EDB)	ND	0.000096	1	06/24/2020 03:32
Dibromomethane	ND	0.0048	1	06/24/2020 03:32
1,2-Dichlorobenzene	ND	0.0048	1	06/24/2020 03:32
1,3-Dichlorobenzene	ND	0.0048	1	06/24/2020 03:32
1,4-Dichlorobenzene	ND	0.0048	1	06/24/2020 03:32
Dichlorodifluoromethane	ND	0.0048	1	06/24/2020 03:32
1,1-Dichloroethane	ND	0.0048	1	06/24/2020 03:32
1,2-Dichloroethane (1,2-DCA)	ND	0.00023	1	06/24/2020 03:32
1,1-Dichloroethene	ND	0.00023	1	06/24/2020 03:32
cis-1,2-Dichloroethene	ND	0.0048	1	06/24/2020 03:32
trans-1,2-Dichloroethene	ND	0.0048	1	06/24/2020 03:32
1,2-Dichloropropane	ND	0.0048	1	06/24/2020 03:32
1,3-Dichloropropane	ND	0.0048	1	06/24/2020 03:32
2,2-Dichloropropane	ND	0.0048	1	06/24/2020 03:32

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW5035
Date Prepared:	06/19/2020	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-4.0	**2006A30-005A**	**Soil**	**06/19/2020 10:25**	**GC38 06232032.D**	**200431**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0048	1	06/24/2020 03:32
cis-1,3-Dichloropropene	ND	0.0048	1	06/24/2020 03:32
trans-1,3-Dichloropropene	ND	0.0048	1	06/24/2020 03:32
Diisopropyl ether (DIPE)	ND	0.0048	1	06/24/2020 03:32
Ethylbenzene	ND	0.0048	1	06/24/2020 03:32
Ethyl tert-butyl ether (ETBE)	ND	0.0048	1	06/24/2020 03:32
Freon 113	ND	0.0048	1	06/24/2020 03:32
Hexachlorobutadiene	ND	0.0048	1	06/24/2020 03:32
Hexachloroethane	ND	0.0048	1	06/24/2020 03:32
2-Hexanone	ND	0.0048	1	06/24/2020 03:32
Isopropylbenzene	ND	0.0048	1	06/24/2020 03:32
4-Isopropyl toluene	ND	0.0048	1	06/24/2020 03:32
Methyl-t-butyl ether (MTBE)	ND	0.0048	1	06/24/2020 03:32
Methylene chloride	ND	0.0096	1	06/24/2020 03:32
4-Methyl-2-pentanone (MIBK)	ND	0.0048	1	06/24/2020 03:32
Naphthalene	ND	0.0048	1	06/24/2020 03:32
n-Propyl benzene	ND	0.0048	1	06/24/2020 03:32
Styrene	ND	0.0048	1	06/24/2020 03:32
1,1,1,2-Tetrachloroethane	ND	0.0048	1	06/24/2020 03:32
1,1,2,2-Tetrachloroethane	ND	0.00023	1	06/24/2020 03:32
Tetrachloroethene	ND	0.00096	1	06/24/2020 03:32
Toluene	ND	0.0048	1	06/24/2020 03:32
1,2,3-Trichlorobenzene	ND	0.0048	1	06/24/2020 03:32
1,2,4-Trichlorobenzene	ND	0.0048	1	06/24/2020 03:32
1,1,1-Trichloroethane	ND	0.0048	1	06/24/2020 03:32
1,1,2-Trichloroethane	ND	0.0048	1	06/24/2020 03:32
Trichloroethene	ND	0.0048	1	06/24/2020 03:32
Trichlorofluoromethane	ND	0.0048	1	06/24/2020 03:32
1,2,3-Trichloropropane	ND	0.000048	1	06/24/2020 03:32
1,2,4-Trimethylbenzene	ND	0.0048	1	06/24/2020 03:32
1,3,5-Trimethylbenzene	ND	0.0048	1	06/24/2020 03:32
Vinyl Chloride	ND	0.00023	1	06/24/2020 03:32
m,p-Xylene	ND	0.0048	1	06/24/2020 03:32
o-Xylene	ND	0.0048	1	06/24/2020 03:32
Xylenes, Total	ND	0.0048	1	06/24/2020 03:32

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW5035
Date Prepared:	06/19/2020	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-4.0	**2006A30-005A**	**Soil**	**06/19/2020 10:25**	**GC38 06232032.D**	**200431**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	93	71-151		06/24/2020 03:32
Toluene-d8	105	90-150		06/24/2020 03:32
4-BFB	97	83-143		06/24/2020 03:32
Benzene-d6	93	71-118		06/24/2020 03:32
Ethylbenzene-d10	101	79-125		06/24/2020 03:32
1,2-DCB-d4	80	57-112		06/24/2020 03:32

Analyst(s): KF

Analytical Comments: a9

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW5035
Date Prepared:	06/19/2020	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-2.0	2006A30-006A	Soil	06/19/2020 11:30	GC38 06232033.D	200431

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	06/24/2020 04:10
tert-Amyl methyl ether (TAME)	ND	0.0052	1	06/24/2020 04:10
Benzene	ND	0.0052	1	06/24/2020 04:10
Bromobenzene	ND	0.0052	1	06/24/2020 04:10
Bromochloromethane	ND	0.0052	1	06/24/2020 04:10
Bromodichloromethane	ND	0.0010	1	06/24/2020 04:10
Bromoform	ND	0.0052	1	06/24/2020 04:10
Bromomethane	ND	0.0052	1	06/24/2020 04:10
2-Butanone (MEK)	ND	0.020	1	06/24/2020 04:10
t-Butyl alcohol (TBA)	ND	0.052	1	06/24/2020 04:10
n-Butyl benzene	ND	0.0052	1	06/24/2020 04:10
sec-Butyl benzene	ND	0.0052	1	06/24/2020 04:10
tert-Butyl benzene	ND	0.0052	1	06/24/2020 04:10
Carbon Disulfide	ND	0.0052	1	06/24/2020 04:10
Carbon Tetrachloride	ND	0.0052	1	06/24/2020 04:10
Chlorobenzene	ND	0.0052	1	06/24/2020 04:10
Chloroethane	ND	0.0052	1	06/24/2020 04:10
Chloroform	ND	0.0052	1	06/24/2020 04:10
Chloromethane	ND	0.0052	1	06/24/2020 04:10
2-Chlorotoluene	ND	0.0052	1	06/24/2020 04:10
4-Chlorotoluene	ND	0.0052	1	06/24/2020 04:10
Dibromochloromethane	ND	0.0052	1	06/24/2020 04:10
1,2-Dibromo-3-chloropropane	ND	0.00025	1	06/24/2020 04:10
1,2-Dibromoethane (EDB)	ND	0.00010	1	06/24/2020 04:10
Dibromomethane	ND	0.0052	1	06/24/2020 04:10
1,2-Dichlorobenzene	ND	0.0052	1	06/24/2020 04:10
1,3-Dichlorobenzene	ND	0.0052	1	06/24/2020 04:10
1,4-Dichlorobenzene	ND	0.0052	1	06/24/2020 04:10
Dichlorodifluoromethane	ND	0.0052	1	06/24/2020 04:10
1,1-Dichloroethane	ND	0.0052	1	06/24/2020 04:10
1,2-Dichloroethane (1,2-DCA)	ND	0.00025	1	06/24/2020 04:10
1,1-Dichloroethene	ND	0.00025	1	06/24/2020 04:10
cis-1,2-Dichloroethene	ND	0.0052	1	06/24/2020 04:10
trans-1,2-Dichloroethene	ND	0.0052	1	06/24/2020 04:10
1,2-Dichloropropane	ND	0.0052	1	06/24/2020 04:10
1,3-Dichloropropane	ND	0.0052	1	06/24/2020 04:10
2,2-Dichloropropane	ND	0.0052	1	06/24/2020 04:10

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW5035
Date Prepared:	06/19/2020	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-2.0	**2006A30-006A**	**Soil**	**06/19/2020 11:30**	**GC38 06232033.D**	**200431**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0052	1	06/24/2020 04:10
cis-1,3-Dichloropropene	ND	0.0052	1	06/24/2020 04:10
trans-1,3-Dichloropropene	ND	0.0052	1	06/24/2020 04:10
Diisopropyl ether (DIPE)	ND	0.0052	1	06/24/2020 04:10
Ethylbenzene	ND	0.0052	1	06/24/2020 04:10
Ethyl tert-butyl ether (ETBE)	ND	0.0052	1	06/24/2020 04:10
Freon 113	ND	0.0052	1	06/24/2020 04:10
Hexachlorobutadiene	ND	0.0052	1	06/24/2020 04:10
Hexachloroethane	ND	0.0052	1	06/24/2020 04:10
2-Hexanone	ND	0.0052	1	06/24/2020 04:10
Isopropylbenzene	ND	0.0052	1	06/24/2020 04:10
4-Isopropyl toluene	ND	0.0052	1	06/24/2020 04:10
Methyl-t-butyl ether (MTBE)	ND	0.0052	1	06/24/2020 04:10
Methylene chloride	ND	0.010	1	06/24/2020 04:10
4-Methyl-2-pentanone (MIBK)	ND	0.0052	1	06/24/2020 04:10
Naphthalene	ND	0.0052	1	06/24/2020 04:10
n-Propyl benzene	ND	0.0052	1	06/24/2020 04:10
Styrene	ND	0.0052	1	06/24/2020 04:10
1,1,1,2-Tetrachloroethane	ND	0.0052	1	06/24/2020 04:10
1,1,2,2-Tetrachloroethane	ND	0.00025	1	06/24/2020 04:10
Tetrachloroethene	ND	0.0010	1	06/24/2020 04:10
Toluene	ND	0.0052	1	06/24/2020 04:10
1,2,3-Trichlorobenzene	ND	0.0052	1	06/24/2020 04:10
1,2,4-Trichlorobenzene	ND	0.0052	1	06/24/2020 04:10
1,1,1-Trichloroethane	ND	0.0052	1	06/24/2020 04:10
1,1,2-Trichloroethane	ND	0.0052	1	06/24/2020 04:10
Trichloroethene	ND	0.0052	1	06/24/2020 04:10
Trichlorofluoromethane	ND	0.0052	1	06/24/2020 04:10
1,2,3-Trichloropropane	ND	0.000052	1	06/24/2020 04:10
1,2,4-Trimethylbenzene	ND	0.0052	1	06/24/2020 04:10
1,3,5-Trimethylbenzene	ND	0.0052	1	06/24/2020 04:10
Vinyl Chloride	ND	0.00025	1	06/24/2020 04:10
m,p-Xylene	ND	0.0052	1	06/24/2020 04:10
o-Xylene	ND	0.0052	1	06/24/2020 04:10
Xylenes, Total	ND	0.0052	1	06/24/2020 04:10

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW5035
Date Prepared:	06/19/2020	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-2.0	2006A30-006A	Soil	06/19/2020 11:30	GC38 06232033.D	200431

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	92	71-151		06/24/2020 04:10
Toluene-d8	104	90-150		06/24/2020 04:10
4-BFB	98	83-143		06/24/2020 04:10
Benzene-d6	87	71-118		06/24/2020 04:10
Ethylbenzene-d10	94	79-125		06/24/2020 04:10
1,2-DCB-d4	76	57-112		06/24/2020 04:10

Analyst(s): KF   Analytical Comments: a9

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Analytical Report

Client: P & D Environmental
Date Received: 06/19/2020 14:24
Date Prepared: 06/19/2020
Project: 0772; The Phoenix 801 Pine Street Oakland, CA

WorkOrder: 2006A30
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg-dry

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-4.0	2006A30-007A	Soil	06/19/2020 11:32	GC38 06232034.D	200431

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	06/24/2020 04:48
tert-Amyl methyl ether (TAME)	ND	0.0051	1	06/24/2020 04:48
Benzene	ND	0.0051	1	06/24/2020 04:48
Bromobenzene	ND	0.0051	1	06/24/2020 04:48
Bromochloromethane	ND	0.0051	1	06/24/2020 04:48
Bromodichloromethane	ND	0.0010	1	06/24/2020 04:48
Bromoform	ND	0.0051	1	06/24/2020 04:48
Bromomethane	ND	0.0051	1	06/24/2020 04:48
2-Butanone (MEK)	ND	0.020	1	06/24/2020 04:48
t-Butyl alcohol (TBA)	ND	0.051	1	06/24/2020 04:48
n-Butyl benzene	ND	0.0051	1	06/24/2020 04:48
sec-Butyl benzene	ND	0.0051	1	06/24/2020 04:48
tert-Butyl benzene	ND	0.0051	1	06/24/2020 04:48
Carbon Disulfide	ND	0.0051	1	06/24/2020 04:48
Carbon Tetrachloride	ND	0.0051	1	06/24/2020 04:48
Chlorobenzene	ND	0.0051	1	06/24/2020 04:48
Chloroethane	ND	0.0051	1	06/24/2020 04:48
Chloroform	ND	0.0051	1	06/24/2020 04:48
Chloromethane	ND	0.0051	1	06/24/2020 04:48
2-Chlorotoluene	ND	0.0051	1	06/24/2020 04:48
4-Chlorotoluene	ND	0.0051	1	06/24/2020 04:48
Dibromochloromethane	ND	0.0051	1	06/24/2020 04:48
1,2-Dibromo-3-chloropropane	ND	0.00026	1	06/24/2020 04:48
1,2-Dibromoethane (EDB)	ND	0.00010	1	06/24/2020 04:48
Dibromomethane	ND	0.0051	1	06/24/2020 04:48
1,2-Dichlorobenzene	ND	0.0051	1	06/24/2020 04:48
1,3-Dichlorobenzene	ND	0.0051	1	06/24/2020 04:48
1,4-Dichlorobenzene	ND	0.0051	1	06/24/2020 04:48
Dichlorodifluoromethane	ND	0.0051	1	06/24/2020 04:48
1,1-Dichloroethane	ND	0.0051	1	06/24/2020 04:48
1,2-Dichloroethane (1,2-DCA)	ND	0.00026	1	06/24/2020 04:48
1,1-Dichloroethene	ND	0.00026	1	06/24/2020 04:48
cis-1,2-Dichloroethene	ND	0.0051	1	06/24/2020 04:48
trans-1,2-Dichloroethene	ND	0.0051	1	06/24/2020 04:48
1,2-Dichloropropane	ND	0.0051	1	06/24/2020 04:48
1,3-Dichloropropane	ND	0.0051	1	06/24/2020 04:48
2,2-Dichloropropane	ND	0.0051	1	06/24/2020 04:48

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW5035
Date Prepared:	06/19/2020	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-4.0	2006A30-007A	Soil	06/19/2020 11:32	GC38 06232034.D	200431

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0051	1	06/24/2020 04:48
cis-1,3-Dichloropropene	ND	0.0051	1	06/24/2020 04:48
trans-1,3-Dichloropropene	ND	0.0051	1	06/24/2020 04:48
Diisopropyl ether (DIPE)	ND	0.0051	1	06/24/2020 04:48
Ethylbenzene	ND	0.0051	1	06/24/2020 04:48
Ethyl tert-butyl ether (ETBE)	ND	0.0051	1	06/24/2020 04:48
Freon 113	ND	0.0051	1	06/24/2020 04:48
Hexachlorobutadiene	ND	0.0051	1	06/24/2020 04:48
Hexachloroethane	ND	0.0051	1	06/24/2020 04:48
2-Hexanone	ND	0.0051	1	06/24/2020 04:48
Isopropylbenzene	ND	0.0051	1	06/24/2020 04:48
4-Isopropyl toluene	ND	0.0051	1	06/24/2020 04:48
Methyl-t-butyl ether (MTBE)	ND	0.0051	1	06/24/2020 04:48
Methylene chloride	ND	0.010	1	06/24/2020 04:48
4-Methyl-2-pentanone (MIBK)	ND	0.0051	1	06/24/2020 04:48
Naphthalene	ND	0.0051	1	06/24/2020 04:48
n-Propyl benzene	ND	0.0051	1	06/24/2020 04:48
Styrene	ND	0.0051	1	06/24/2020 04:48
1,1,1,2-Tetrachloroethane	ND	0.0051	1	06/24/2020 04:48
1,1,2,2-Tetrachloroethane	ND	0.00026	1	06/24/2020 04:48
Tetrachloroethene	ND	0.0010	1	06/24/2020 04:48
Toluene	ND	0.0051	1	06/24/2020 04:48
1,2,3-Trichlorobenzene	ND	0.0051	1	06/24/2020 04:48
1,2,4-Trichlorobenzene	ND	0.0051	1	06/24/2020 04:48
1,1,1-Trichloroethane	ND	0.0051	1	06/24/2020 04:48
1,1,2-Trichloroethane	ND	0.0051	1	06/24/2020 04:48
Trichloroethene	ND	0.0051	1	06/24/2020 04:48
Trichlorofluoromethane	ND	0.0051	1	06/24/2020 04:48
1,2,3-Trichloropropane	ND	0.000051	1	06/24/2020 04:48
1,2,4-Trimethylbenzene	ND	0.0051	1	06/24/2020 04:48
1,3,5-Trimethylbenzene	ND	0.0051	1	06/24/2020 04:48
Vinyl Chloride	ND	0.00026	1	06/24/2020 04:48
m,p-Xylene	ND	0.0051	1	06/24/2020 04:48
o-Xylene	ND	0.0051	1	06/24/2020 04:48
Xylenes, Total	ND	0.0051	1	06/24/2020 04:48

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW5035
Date Prepared:	06/19/2020	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-4.0	**2006A30-007A**	**Soil**	**06/19/2020 11:32**	**GC38 06232034.D**	**200431**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	90	71-151		06/24/2020 04:48
Toluene-d8	103	90-150		06/24/2020 04:48
4-BFB	97	83-143		06/24/2020 04:48
Benzene-d6	90	71-118		06/24/2020 04:48
Ethylbenzene-d10	95	79-125		06/24/2020 04:48
1,2-DCB-d4	79	57-112		06/24/2020 04:48

Analyst(s): KF

Analytical Comments: a9

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW5035
Date Prepared:	06/19/2020	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-2.0	**2006A30-008A**	**Soil**	**06/19/2020 11:57**	**GC38 06232035.D**	**200431**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.11	1	06/24/2020 05:25
tert-Amyl methyl ether (TAME)	ND	0.0053	1	06/24/2020 05:25
Benzene	ND	0.0053	1	06/24/2020 05:25
Bromobenzene	ND	0.0053	1	06/24/2020 05:25
Bromochloromethane	ND	0.0053	1	06/24/2020 05:25
Bromodichloromethane	ND	0.0011	1	06/24/2020 05:25
Bromoform	ND	0.0053	1	06/24/2020 05:25
Bromomethane	ND	0.0053	1	06/24/2020 05:25
2-Butanone (MEK)	ND	0.021	1	06/24/2020 05:25
t-Butyl alcohol (TBA)	ND	0.053	1	06/24/2020 05:25
n-Butyl benzene	ND	0.0053	1	06/24/2020 05:25
sec-Butyl benzene	ND	0.0053	1	06/24/2020 05:25
tert-Butyl benzene	ND	0.0053	1	06/24/2020 05:25
Carbon Disulfide	ND	0.0053	1	06/24/2020 05:25
Carbon Tetrachloride	ND	0.0053	1	06/24/2020 05:25
Chlorobenzene	ND	0.0053	1	06/24/2020 05:25
Chloroethane	ND	0.0053	1	06/24/2020 05:25
Chloroform	ND	0.0053	1	06/24/2020 05:25
Chloromethane	ND	0.0053	1	06/24/2020 05:25
2-Chlorotoluene	ND	0.0053	1	06/24/2020 05:25
4-Chlorotoluene	ND	0.0053	1	06/24/2020 05:25
Dibromochloromethane	ND	0.0053	1	06/24/2020 05:25
1,2-Dibromo-3-chloropropane	ND	0.00027	1	06/24/2020 05:25
1,2-Dibromoethane (EDB)	ND	0.00011	1	06/24/2020 05:25
Dibromomethane	ND	0.0053	1	06/24/2020 05:25
1,2-Dichlorobenzene	ND	0.0053	1	06/24/2020 05:25
1,3-Dichlorobenzene	ND	0.0053	1	06/24/2020 05:25
1,4-Dichlorobenzene	ND	0.0053	1	06/24/2020 05:25
Dichlorodifluoromethane	ND	0.0053	1	06/24/2020 05:25
1,1-Dichloroethane	ND	0.0053	1	06/24/2020 05:25
1,2-Dichloroethane (1,2-DCA)	ND	0.00027	1	06/24/2020 05:25
1,1-Dichloroethene	ND	0.00027	1	06/24/2020 05:25
cis-1,2-Dichloroethene	ND	0.0053	1	06/24/2020 05:25
trans-1,2-Dichloroethene	ND	0.0053	1	06/24/2020 05:25
1,2-Dichloropropane	ND	0.0053	1	06/24/2020 05:25
1,3-Dichloropropane	ND	0.0053	1	06/24/2020 05:25
2,2-Dichloropropane	ND	0.0053	1	06/24/2020 05:25

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW5035
Date Prepared:	06/19/2020	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-2.0	**2006A30-008A**	**Soil**	**06/19/2020 11:57**	**GC38 06232035.D**	**200431**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0053	1	06/24/2020 05:25
cis-1,3-Dichloropropene	ND	0.0053	1	06/24/2020 05:25
trans-1,3-Dichloropropene	ND	0.0053	1	06/24/2020 05:25
Diisopropyl ether (DIPE)	ND	0.0053	1	06/24/2020 05:25
Ethylbenzene	ND	0.0053	1	06/24/2020 05:25
Ethyl tert-butyl ether (ETBE)	ND	0.0053	1	06/24/2020 05:25
Freon 113	ND	0.0053	1	06/24/2020 05:25
Hexachlorobutadiene	ND	0.0053	1	06/24/2020 05:25
Hexachloroethane	ND	0.0053	1	06/24/2020 05:25
2-Hexanone	ND	0.0053	1	06/24/2020 05:25
Isopropylbenzene	ND	0.0053	1	06/24/2020 05:25
4-Isopropyl toluene	ND	0.0053	1	06/24/2020 05:25
Methyl-t-butyl ether (MTBE)	ND	0.0053	1	06/24/2020 05:25
Methylene chloride	ND	0.011	1	06/24/2020 05:25
4-Methyl-2-pentanone (MIBK)	ND	0.0053	1	06/24/2020 05:25
Naphthalene	ND	0.0053	1	06/24/2020 05:25
n-Propyl benzene	ND	0.0053	1	06/24/2020 05:25
Styrene	ND	0.0053	1	06/24/2020 05:25
1,1,1,2-Tetrachloroethane	ND	0.0053	1	06/24/2020 05:25
1,1,2,2-Tetrachloroethane	ND	0.00027	1	06/24/2020 05:25
Tetrachloroethene	ND	0.0011	1	06/24/2020 05:25
Toluene	ND	0.0053	1	06/24/2020 05:25
1,2,3-Trichlorobenzene	ND	0.0053	1	06/24/2020 05:25
1,2,4-Trichlorobenzene	ND	0.0053	1	06/24/2020 05:25
1,1,1-Trichloroethane	ND	0.0053	1	06/24/2020 05:25
1,1,2-Trichloroethane	ND	0.0053	1	06/24/2020 05:25
Trichloroethene	ND	0.0053	1	06/24/2020 05:25
Trichlorofluoromethane	ND	0.0053	1	06/24/2020 05:25
1,2,3-Trichloropropane	ND	0.000053	1	06/24/2020 05:25
1,2,4-Trimethylbenzene	ND	0.0053	1	06/24/2020 05:25
1,3,5-Trimethylbenzene	ND	0.0053	1	06/24/2020 05:25
Vinyl Chloride	ND	0.00027	1	06/24/2020 05:25
m,p-Xylene	ND	0.0053	1	06/24/2020 05:25
o-Xylene	ND	0.0053	1	06/24/2020 05:25
Xylenes, Total	ND	0.0053	1	06/24/2020 05:25

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Analytical Report

Client: P & D Environmental
Date Received: 06/19/2020 14:24
Date Prepared: 06/19/2020
Project: 0772; The Phoenix 801 Pine Street Oakland, CA

WorkOrder: 2006A30
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg-dry

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-2.0	**2006A30-008A**	**Soil**	**06/19/2020 11:57**	**GC38 06232035.D**	**200431**

Analytes	Result	RL	DF	Date Analyzed

Surrogates	REC (%)	Limits	Date Analyzed
Dibromofluoromethane	93	71-151	06/24/2020 05:25
Toluene-d8	104	90-150	06/24/2020 05:25
4-BFB	101	83-143	06/24/2020 05:25
Benzene-d6	89	71-118	06/24/2020 05:25
Ethylbenzene-d10	97	79-125	06/24/2020 05:25
1,2-DCB-d4	78	57-112	06/24/2020 05:25

Analyst(s): KF

Analytical Comments: a9

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW5035
Date Prepared:	06/19/2020	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-4.0	2006A30-009A	Soil	06/19/2020 12:04	GC18 06252043.D	200431

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	06/26/2020 16:39
tert-Amyl methyl ether (TAME)	ND	0.0052	1	06/26/2020 16:39
Benzene	ND	0.0052	1	06/26/2020 16:39
Bromobenzene	ND	0.0052	1	06/26/2020 16:39
Bromochloromethane	ND	0.0052	1	06/26/2020 16:39
Bromodichloromethane	ND	0.0010	1	06/26/2020 16:39
Bromoform	ND	0.0052	1	06/26/2020 16:39
Bromomethane	ND	0.0052	1	06/26/2020 16:39
2-Butanone (MEK)	ND	0.020	1	06/26/2020 16:39
t-Butyl alcohol (TBA)	ND	0.052	1	06/26/2020 16:39
n-Butyl benzene	ND	0.0052	1	06/26/2020 16:39
sec-Butyl benzene	ND	0.0052	1	06/26/2020 16:39
tert-Butyl benzene	ND	0.0052	1	06/26/2020 16:39
Carbon Disulfide	ND	0.0052	1	06/26/2020 16:39
Carbon Tetrachloride	ND	0.0052	1	06/26/2020 16:39
Chlorobenzene	ND	0.0052	1	06/26/2020 16:39
Chloroethane	ND	0.0052	1	06/26/2020 16:39
Chloroform	ND	0.0052	1	06/26/2020 16:39
Chloromethane	ND	0.0052	1	06/26/2020 16:39
2-Chlorotoluene	ND	0.0052	1	06/26/2020 16:39
4-Chlorotoluene	ND	0.0052	1	06/26/2020 16:39
Dibromochloromethane	ND	0.0052	1	06/26/2020 16:39
1,2-Dibromo-3-chloropropane	ND	0.00026	1	06/26/2020 16:39
1,2-Dibromoethane (EDB)	ND	0.00010	1	06/26/2020 16:39
Dibromomethane	ND	0.0052	1	06/26/2020 16:39
1,2-Dichlorobenzene	ND	0.0052	1	06/26/2020 16:39
1,3-Dichlorobenzene	ND	0.0052	1	06/26/2020 16:39
1,4-Dichlorobenzene	ND	0.0052	1	06/26/2020 16:39
Dichlorodifluoromethane	ND	0.0052	1	06/26/2020 16:39
1,1-Dichloroethane	ND	0.0052	1	06/26/2020 16:39
1,2-Dichloroethane (1,2-DCA)	ND	0.00026	1	06/26/2020 16:39
1,1-Dichloroethene	ND	0.00026	1	06/26/2020 16:39
cis-1,2-Dichloroethene	ND	0.0052	1	06/26/2020 16:39
trans-1,2-Dichloroethene	ND	0.0052	1	06/26/2020 16:39
1,2-Dichloropropane	ND	0.0052	1	06/26/2020 16:39
1,3-Dichloropropane	ND	0.0052	1	06/26/2020 16:39
2,2-Dichloropropane	ND	0.0052	1	06/26/2020 16:39

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Analytical Report

Client: P & D Environmental
Date Received: 06/19/2020 14:24
Date Prepared: 06/19/2020
Project: 0772; The Phoenix 801 Pine Street Oakland, CA
WorkOrder: 2006A30
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg-dry

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-4.0	2006A30-009A	Soil	06/19/2020 12:04	GC18 06252043.D	200431

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0052	1	06/26/2020 16:39
cis-1,3-Dichloropropene	ND	0.0052	1	06/26/2020 16:39
trans-1,3-Dichloropropene	ND	0.0052	1	06/26/2020 16:39
Diisopropyl ether (DIPE)	ND	0.0052	1	06/26/2020 16:39
Ethylbenzene	ND	0.0052	1	06/26/2020 16:39
Ethyl tert-butyl ether (ETBE)	ND	0.0052	1	06/26/2020 16:39
Freon 113	ND	0.0052	1	06/26/2020 16:39
Hexachlorobutadiene	ND	0.0052	1	06/26/2020 16:39
Hexachloroethane	ND	0.0052	1	06/26/2020 16:39
2-Hexanone	ND	0.0052	1	06/26/2020 16:39
Isopropylbenzene	ND	0.0052	1	06/26/2020 16:39
4-Isopropyl toluene	ND	0.0052	1	06/26/2020 16:39
Methyl-t-butyl ether (MTBE)	ND	0.0052	1	06/26/2020 16:39
Methylene chloride	ND	0.010	1	06/26/2020 16:39
4-Methyl-2-pentanone (MIBK)	ND	0.0052	1	06/26/2020 16:39
Naphthalene	ND	0.0052	1	06/26/2020 16:39
n-Propyl benzene	ND	0.0052	1	06/26/2020 16:39
Styrene	ND	0.0052	1	06/26/2020 16:39
1,1,1,2-Tetrachloroethane	ND	0.0052	1	06/26/2020 16:39
1,1,2,2-Tetrachloroethane	ND	0.00026	1	06/26/2020 16:39
Tetrachloroethene	ND	0.0010	1	06/26/2020 16:39
Toluene	ND	0.0052	1	06/26/2020 16:39
1,2,3-Trichlorobenzene	ND	0.0052	1	06/26/2020 16:39
1,2,4-Trichlorobenzene	ND	0.0052	1	06/26/2020 16:39
1,1,1-Trichloroethane	ND	0.0052	1	06/26/2020 16:39
1,1,2-Trichloroethane	ND	0.0052	1	06/26/2020 16:39
Trichloroethene	ND	0.0052	1	06/26/2020 16:39
Trichlorofluoromethane	ND	0.0052	1	06/26/2020 16:39
1,2,3-Trichloropropane	ND	0.000052	1	06/26/2020 16:39
1,2,4-Trimethylbenzene	ND	0.0052	1	06/26/2020 16:39
1,3,5-Trimethylbenzene	ND	0.0052	1	06/26/2020 16:39
Vinyl Chloride	ND	0.00026	1	06/26/2020 16:39
m,p-Xylene	ND	0.0052	1	06/26/2020 16:39
o-Xylene	ND	0.0052	1	06/26/2020 16:39
Xylenes, Total	ND	0.0052	1	06/26/2020 16:39

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW5035
Date Prepared:	06/19/2020	**Analytical Method:**	SW8260B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Volatile Organics [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-4.0	**2006A30-009A**	**Soil**	**06/19/2020 12:04**	**GC18 06252043.D**	**200431**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	100	71-151		06/26/2020 16:39
Toluene-d8	98	90-150		06/26/2020 16:39
4-BFB	100	83-143		06/26/2020 16:39
Benzene-d6	108	71-118		06/26/2020 16:39
Ethylbenzene-d10	110	79-125		06/26/2020 16:39
1,2-DCB-d4	78	57-112		06/26/2020 16:39

Analyst(s): JEM

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-3.0	2006A30-001B	Soil	06/19/2020 09:35	GC21 06242032.D	200596

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0026	2	06/24/2020 22:37
Acenaphthylene	ND	0.0026	2	06/24/2020 22:37
Acetochlor	ND	0.50	2	06/24/2020 22:37
Anthracene	ND	0.0026	2	06/24/2020 22:37
Benzidine	ND	2.5	2	06/24/2020 22:37
Benzo (a) anthracene	ND	0.026	2	06/24/2020 22:37
Benzo (a) pyrene	**0.0058**	0.0050	2	06/24/2020 22:37
Benzo (b) fluoranthene	ND	0.013	2	06/24/2020 22:37
Benzo (g,h,i) perylene	**0.0090**	0.0050	2	06/24/2020 22:37
Benzo (k) fluoranthene	**0.0037**	0.0026	2	06/24/2020 22:37
Benzyl Alcohol	ND	2.5	2	06/24/2020 22:37
1,1-Biphenyl	ND	0.026	2	06/24/2020 22:37
Bis (2-chloroethoxy) Methane	ND	0.50	2	06/24/2020 22:37
Bis (2-chloroethyl) Ether	ND	0.0050	2	06/24/2020 22:37
Bis (2-chloroisopropyl) Ether	ND	0.026	2	06/24/2020 22:37
Bis (2-ethylhexyl) Adipate	ND	0.50	2	06/24/2020 22:37
Bis (2-ethylhexyl) Phthalate	ND	0.050	2	06/24/2020 22:37
4-Bromophenyl Phenyl Ether	ND	0.50	2	06/24/2020 22:37
Butylbenzyl Phthalate	ND	0.050	2	06/24/2020 22:37
4-Chloroaniline	ND	0.0050	2	06/24/2020 22:37
4-Chloro-3-methylphenol	ND	0.50	2	06/24/2020 22:37
2-Chloronaphthalene	ND	0.50	2	06/24/2020 22:37
2-Chlorophenol	ND	0.026	2	06/24/2020 22:37
4-Chlorophenyl Phenyl Ether	ND	0.50	2	06/24/2020 22:37
Chrysene	**0.0055**	0.0050	2	06/24/2020 22:37
Dibenzo (a,h) anthracene	ND	0.0050	2	06/24/2020 22:37
Dibenzofuran	ND	0.50	2	06/24/2020 22:37
Di-n-butyl Phthalate	ND	0.026	2	06/24/2020 22:37
1,2-Dichlorobenzene	ND	0.50	2	06/24/2020 22:37
1,3-Dichlorobenzene	ND	0.50	2	06/24/2020 22:37
1,4-Dichlorobenzene	ND	0.50	2	06/24/2020 22:37
3,3-Dichlorobenzidine	ND	0.0050	2	06/24/2020 22:37
2,4-Dichlorophenol	ND	0.026	2	06/24/2020 22:37
Diethyl Phthalate	ND	0.026	2	06/24/2020 22:37
2,4-Dimethylphenol	ND	0.50	2	06/24/2020 22:37
Dimethyl Phthalate	ND	0.0050	2	06/24/2020 22:37
4,6-Dinitro-2-methylphenol	ND	2.5	2	06/24/2020 22:37

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-3.0	2006A30-001B	Soil	06/19/2020 09:35	GC21 06242032.D	200596

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	0.50	2	06/24/2020 22:37
2,4-Dinitrotoluene	ND	0.026	2	06/24/2020 22:37
2,6-Dinitrotoluene	ND	0.026	2	06/24/2020 22:37
Di-n-octyl Phthalate	ND	0.026	2	06/24/2020 22:37
1,2-Diphenylhydrazine	ND	0.50	2	06/24/2020 22:37
Fluoranthene	**0.0081**	0.0026	2	06/24/2020 22:37
Fluorene	ND	0.0050	2	06/24/2020 22:37
Hexachlorobenzene	ND	0.0026	2	06/24/2020 22:37
Hexachlorobutadiene	ND	0.0050	2	06/24/2020 22:37
Hexachlorocyclopentadiene	ND	4.0	2	06/24/2020 22:37
Hexachloroethane	ND	0.026	2	06/24/2020 22:37
Indeno (1,2,3-cd) pyrene	ND	0.026	2	06/24/2020 22:37
Isophorone	ND	0.50	2	06/24/2020 22:37
2-Methylnaphthalene	ND	0.0050	2	06/24/2020 22:37
2-Methylphenol (o-Cresol)	ND	0.50	2	06/24/2020 22:37
3 & 4-Methylphenol (m,p-Cresol)	ND	0.50	2	06/24/2020 22:37
Naphthalene	ND	0.0026	2	06/24/2020 22:37
2-Nitroaniline	ND	2.5	2	06/24/2020 22:37
3-Nitroaniline	ND	2.5	2	06/24/2020 22:37
4-Nitroaniline	ND	2.5	2	06/24/2020 22:37
Nitrobenzene	ND	0.50	2	06/24/2020 22:37
2-Nitrophenol	ND	2.5	2	06/24/2020 22:37
4-Nitrophenol	ND	2.5	2	06/24/2020 22:37
N-Nitrosodiphenylamine	ND	0.50	2	06/24/2020 22:37
N-Nitrosodi-n-propylamine	ND	0.50	2	06/24/2020 22:37
Pentachlorophenol	ND	0.12	2	06/24/2020 22:37
Phenanthrene	ND	0.010	2	06/24/2020 22:37
Phenol	ND	0.10	2	06/24/2020 22:37
Pyrene	**0.0082**	0.0050	2	06/24/2020 22:37
Pyridine	ND	0.50	2	06/24/2020 22:37
1,2,4-Trichlorobenzene	ND	0.50	2	06/24/2020 22:37
2,4,5-Trichlorophenol	ND	0.0050	2	06/24/2020 22:37
2,4,6-Trichlorophenol	ND	0.026	2	06/24/2020 22:37

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Analytical Report

Client: P & D Environmental
Date Received: 06/19/2020 14:24
Date Prepared: 06/23/2020-06/26/2020
Project: 0772; The Phoenix 801 Pine Street Oakland, CA

WorkOrder: 2006A30
Extraction Method: SW3550B/3640A
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-3.0	**2006A30-001B**	**Soil**	**06/19/2020 09:35**	**GC21 06242032.D**	**200596**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
2-Fluorophenol	87	60-130		06/24/2020 22:37
Phenol-d5	85	60-130		06/24/2020 22:37
Nitrobenzene-d5	68	60-130		06/24/2020 22:37
2-Fluorobiphenyl	72	60-130		06/24/2020 22:37
2,4,6-Tribromophenol	82	50-130		06/24/2020 22:37
4-Terphenyl-d14	70	50-130		06/24/2020 22:37

Analyst(s): HD

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-5.0	2006A30-003B	Soil	06/19/2020 10:50	GC17 06262013.D	200792

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0013	1	06/26/2020 13:48
Acenaphthylene	ND	0.0013	1	06/26/2020 13:48
Acetochlor	ND	0.25	1	06/26/2020 13:48
Anthracene	ND	0.0013	1	06/26/2020 13:48
Benzidine	ND	1.2	1	06/26/2020 13:48
Benzo (a) anthracene	ND	0.013	1	06/26/2020 13:48
Benzo (a) pyrene	**0.0036**	0.0025	1	06/26/2020 13:48
Benzo (b) fluoranthene	ND	0.0063	1	06/26/2020 13:48
Benzo (g,h,i) perylene	ND	0.0025	1	06/26/2020 13:48
Benzo (k) fluoranthene	**0.0017**	0.0013	1	06/26/2020 13:48
Benzyl Alcohol	ND	1.2	1	06/26/2020 13:48
1,1-Biphenyl	ND	0.013	1	06/26/2020 13:48
Bis (2-chloroethoxy) Methane	ND	0.25	1	06/26/2020 13:48
Bis (2-chloroethyl) Ether	ND	0.0025	1	06/26/2020 13:48
Bis (2-chloroisopropyl) Ether	ND	0.013	1	06/26/2020 13:48
Bis (2-ethylhexyl) Adipate	ND	0.25	1	06/26/2020 13:48
Bis (2-ethylhexyl) Phthalate	ND	0.025	1	06/26/2020 13:48
4-Bromophenyl Phenyl Ether	ND	0.25	1	06/26/2020 13:48
Butylbenzyl Phthalate	ND	0.025	1	06/26/2020 13:48
4-Chloroaniline	ND	0.0025	1	06/26/2020 13:48
4-Chloro-3-methylphenol	ND	0.25	1	06/26/2020 13:48
2-Chloronaphthalene	ND	0.25	1	06/26/2020 13:48
2-Chlorophenol	ND	0.013	1	06/26/2020 13:48
4-Chlorophenyl Phenyl Ether	ND	0.25	1	06/26/2020 13:48
Chrysene	ND	0.0025	1	06/26/2020 13:48
Dibenzo (a,h) anthracene	ND	0.0025	1	06/26/2020 13:48
Dibenzofuran	ND	0.25	1	06/26/2020 13:48
Di-n-butyl Phthalate	ND	0.013	1	06/26/2020 13:48
1,2-Dichlorobenzene	ND	0.25	1	06/26/2020 13:48
1,3-Dichlorobenzene	ND	0.25	1	06/26/2020 13:48
1,4-Dichlorobenzene	ND	0.25	1	06/26/2020 13:48
3,3-Dichlorobenzidine	ND	0.0025	1	06/26/2020 13:48
2,4-Dichlorophenol	ND	0.013	1	06/26/2020 13:48
Diethyl Phthalate	ND	0.013	1	06/26/2020 13:48
2,4-Dimethylphenol	ND	0.25	1	06/26/2020 13:48
Dimethyl Phthalate	ND	0.0025	1	06/26/2020 13:48
4,6-Dinitro-2-methylphenol	ND	1.2	1	06/26/2020 13:48

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-5.0	2006A30-003B	Soil	06/19/2020 10:50	GC17 06262013.D	200792

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	0.25	1	06/26/2020 13:48
2,4-Dinitrotoluene	ND	0.013	1	06/26/2020 13:48
2,6-Dinitrotoluene	ND	0.013	1	06/26/2020 13:48
Di-n-octyl Phthalate	ND	0.013	1	06/26/2020 13:48
1,2-Diphenylhydrazine	ND	0.25	1	06/26/2020 13:48
Fluoranthene	**0.0021**	0.0013	1	06/26/2020 13:48
Fluorene	ND	0.0025	1	06/26/2020 13:48
Hexachlorobenzene	ND	0.0013	1	06/26/2020 13:48
Hexachlorobutadiene	ND	0.0025	1	06/26/2020 13:48
Hexachlorocyclopentadiene	ND	2.0	1	06/26/2020 13:48
Hexachloroethane	ND	0.013	1	06/26/2020 13:48
Indeno (1,2,3-cd) pyrene	ND	0.013	1	06/26/2020 13:48
Isophorone	ND	0.25	1	06/26/2020 13:48
2-Methylnaphthalene	ND	0.0025	1	06/26/2020 13:48
2-Methylphenol (o-Cresol)	ND	0.25	1	06/26/2020 13:48
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	06/26/2020 13:48
Naphthalene	ND	0.0013	1	06/26/2020 13:48
2-Nitroaniline	ND	1.2	1	06/26/2020 13:48
3-Nitroaniline	ND	1.2	1	06/26/2020 13:48
4-Nitroaniline	ND	1.2	1	06/26/2020 13:48
Nitrobenzene	ND	0.25	1	06/26/2020 13:48
2-Nitrophenol	ND	1.2	1	06/26/2020 13:48
4-Nitrophenol	ND	1.2	1	06/26/2020 13:48
N-Nitrosodiphenylamine	ND	0.25	1	06/26/2020 13:48
N-Nitrosodi-n-propylamine	ND	0.25	1	06/26/2020 13:48
Pentachlorophenol	ND	0.062	1	06/26/2020 13:48
Phenanthrene	ND	0.0050	1	06/26/2020 13:48
Phenol	ND	0.050	1	06/26/2020 13:48
Pyrene	**0.0032**	0.0025	1	06/26/2020 13:48
Pyridine	ND	0.25	1	06/26/2020 13:48
1,2,4-Trichlorobenzene	ND	0.25	1	06/26/2020 13:48
2,4,5-Trichlorophenol	ND	0.0025	1	06/26/2020 13:48
2,4,6-Trichlorophenol	ND	0.013	1	06/26/2020 13:48

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-5.0	**2006A30-003B**	**Soil**	**06/19/2020 10:50**	**GC17 06262013.D**	**200792**

Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)	Qualifiers	Limits		
2-Fluorophenol	105		60-130		06/26/2020 13:48
Phenol-d5	98		60-130		06/26/2020 13:48
Nitrobenzene-d5	69		60-130		06/26/2020 13:48
2-Fluorobiphenyl	66		60-130		06/26/2020 13:48
2,4,6-Tribromophenol	27	S	50-130		06/26/2020 13:48
4-Terphenyl-d14	72		50-130		06/26/2020 13:48

Analyst(s): HD

Analytical Comments: c2

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-2.0	2006A30-004B	Soil	06/19/2020 10:20	GC21 06242026.D	200596

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0013	1	06/24/2020 19:53
Acenaphthylene	ND	0.0013	1	06/24/2020 19:53
Acetochlor	ND	0.25	1	06/24/2020 19:53
Anthracene	ND	0.0013	1	06/24/2020 19:53
Benzidine	ND	1.2	1	06/24/2020 19:53
Benzo (a) anthracene	ND	0.013	1	06/24/2020 19:53
Benzo (a) pyrene	ND	0.0025	1	06/24/2020 19:53
Benzo (b) fluoranthene	ND	0.0063	1	06/24/2020 19:53
Benzo (g,h,i) perylene	ND	0.0025	1	06/24/2020 19:53
Benzo (k) fluoranthene	ND	0.0013	1	06/24/2020 19:53
Benzyl Alcohol	ND	1.2	1	06/24/2020 19:53
1,1-Biphenyl	ND	0.013	1	06/24/2020 19:53
Bis (2-chloroethoxy) Methane	ND	0.25	1	06/24/2020 19:53
Bis (2-chloroethyl) Ether	ND	0.0025	1	06/24/2020 19:53
Bis (2-chloroisopropyl) Ether	ND	0.013	1	06/24/2020 19:53
Bis (2-ethylhexyl) Adipate	ND	0.25	1	06/24/2020 19:53
Bis (2-ethylhexyl) Phthalate	ND	0.025	1	06/24/2020 19:53
4-Bromophenyl Phenyl Ether	ND	0.25	1	06/24/2020 19:53
Butylbenzyl Phthalate	ND	0.025	1	06/24/2020 19:53
4-Chloroaniline	ND	0.0025	1	06/24/2020 19:53
4-Chloro-3-methylphenol	ND	0.25	1	06/24/2020 19:53
2-Chloronaphthalene	ND	0.25	1	06/24/2020 19:53
2-Chlorophenol	ND	0.013	1	06/24/2020 19:53
4-Chlorophenyl Phenyl Ether	ND	0.25	1	06/24/2020 19:53
Chrysene	ND	0.0025	1	06/24/2020 19:53
Dibenzo (a,h) anthracene	ND	0.0025	1	06/24/2020 19:53
Dibenzofuran	ND	0.25	1	06/24/2020 19:53
Di-n-butyl Phthalate	ND	0.013	1	06/24/2020 19:53
1,2-Dichlorobenzene	ND	0.25	1	06/24/2020 19:53
1,3-Dichlorobenzene	ND	0.25	1	06/24/2020 19:53
1,4-Dichlorobenzene	ND	0.25	1	06/24/2020 19:53
3,3-Dichlorobenzidine	ND	0.0025	1	06/24/2020 19:53
2,4-Dichlorophenol	ND	0.013	1	06/24/2020 19:53
Diethyl Phthalate	ND	0.013	1	06/24/2020 19:53
2,4-Dimethylphenol	ND	0.25	1	06/24/2020 19:53
Dimethyl Phthalate	ND	0.0025	1	06/24/2020 19:53
4,6-Dinitro-2-methylphenol	ND	1.2	1	06/24/2020 19:53

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-2.0	2006A30-004B	Soil	06/19/2020 10:20	GC21 06242026.D	200596

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	0.25	1	06/24/2020 19:53
2,4-Dinitrotoluene	ND	0.013	1	06/24/2020 19:53
2,6-Dinitrotoluene	ND	0.013	1	06/24/2020 19:53
Di-n-octyl Phthalate	ND	0.013	1	06/24/2020 19:53
1,2-Diphenylhydrazine	ND	0.25	1	06/24/2020 19:53
Fluoranthene	ND	0.0013	1	06/24/2020 19:53
Fluorene	ND	0.0025	1	06/24/2020 19:53
Hexachlorobenzene	ND	0.0013	1	06/24/2020 19:53
Hexachlorobutadiene	ND	0.0025	1	06/24/2020 19:53
Hexachlorocyclopentadiene	ND	2.0	1	06/24/2020 19:53
Hexachloroethane	ND	0.013	1	06/24/2020 19:53
Indeno (1,2,3-cd) pyrene	ND	0.013	1	06/24/2020 19:53
Isophorone	ND	0.25	1	06/24/2020 19:53
2-Methylnaphthalene	ND	0.0025	1	06/24/2020 19:53
2-Methylphenol (o-Cresol)	ND	0.25	1	06/24/2020 19:53
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	06/24/2020 19:53
Naphthalene	ND	0.0013	1	06/24/2020 19:53
2-Nitroaniline	ND	1.2	1	06/24/2020 19:53
3-Nitroaniline	ND	1.2	1	06/24/2020 19:53
4-Nitroaniline	ND	1.2	1	06/24/2020 19:53
Nitrobenzene	ND	0.25	1	06/24/2020 19:53
2-Nitrophenol	ND	1.2	1	06/24/2020 19:53
4-Nitrophenol	ND	1.2	1	06/24/2020 19:53
N-Nitrosodiphenylamine	ND	0.25	1	06/24/2020 19:53
N-Nitrosodi-n-propylamine	ND	0.25	1	06/24/2020 19:53
Pentachlorophenol	ND	0.062	1	06/24/2020 19:53
Phenanthrene	ND	0.0050	1	06/24/2020 19:53
Phenol	ND	0.050	1	06/24/2020 19:53
Pyrene	ND	0.0025	1	06/24/2020 19:53
Pyridine	ND	0.25	1	06/24/2020 19:53
1,2,4-Trichlorobenzene	ND	0.25	1	06/24/2020 19:53
2,4,5-Trichlorophenol	ND	0.0025	1	06/24/2020 19:53
2,4,6-Trichlorophenol	ND	0.013	1	06/24/2020 19:53

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-2.0	2006A30-004B	Soil	06/19/2020 10:20	GC21 06242026.D	200596

Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)	Qualifiers	Limits		
2-Fluorophenol	87		60-130		06/24/2020 19:53
Phenol-d5	84		60-130		06/24/2020 19:53
Nitrobenzene-d5	70		60-130		06/24/2020 19:53
2-Fluorobiphenyl	68		60-130		06/24/2020 19:53
2,4,6-Tribromophenol	44	S	50-130		06/24/2020 19:53
4-Terphenyl-d14	66		50-130		06/24/2020 19:53

Analyst(s): HD

Analytical Comments: c2

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-4.0	2006A30-005B	Soil	06/19/2020 10:25	GC21 06242027.D	200596

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0013	1	06/24/2020 20:20
Acenaphthylene	ND	0.0013	1	06/24/2020 20:20
Acetochlor	ND	0.25	1	06/24/2020 20:20
Anthracene	ND	0.0013	1	06/24/2020 20:20
Benzidine	ND	1.2	1	06/24/2020 20:20
Benzo (a) anthracene	ND	0.013	1	06/24/2020 20:20
Benzo (a) pyrene	ND	0.0025	1	06/24/2020 20:20
Benzo (b) fluoranthene	ND	0.0063	1	06/24/2020 20:20
Benzo (g,h,i) perylene	ND	0.0025	1	06/24/2020 20:20
Benzo (k) fluoranthene	ND	0.0013	1	06/24/2020 20:20
Benzyl Alcohol	ND	1.2	1	06/24/2020 20:20
1,1-Biphenyl	ND	0.013	1	06/24/2020 20:20
Bis (2-chloroethoxy) Methane	ND	0.25	1	06/24/2020 20:20
Bis (2-chloroethyl) Ether	ND	0.0025	1	06/24/2020 20:20
Bis (2-chloroisopropyl) Ether	ND	0.013	1	06/24/2020 20:20
Bis (2-ethylhexyl) Adipate	ND	0.25	1	06/24/2020 20:20
Bis (2-ethylhexyl) Phthalate	ND	0.025	1	06/24/2020 20:20
4-Bromophenyl Phenyl Ether	ND	0.25	1	06/24/2020 20:20
Butylbenzyl Phthalate	ND	0.025	1	06/24/2020 20:20
4-Chloroaniline	ND	0.0025	1	06/24/2020 20:20
4-Chloro-3-methylphenol	ND	0.25	1	06/24/2020 20:20
2-Chloronaphthalene	ND	0.25	1	06/24/2020 20:20
2-Chlorophenol	ND	0.013	1	06/24/2020 20:20
4-Chlorophenyl Phenyl Ether	ND	0.25	1	06/24/2020 20:20
Chrysene	**0.0027**	0.0025	1	06/24/2020 20:20
Dibenzo (a,h) anthracene	ND	0.0025	1	06/24/2020 20:20
Dibenzofuran	ND	0.25	1	06/24/2020 20:20
Di-n-butyl Phthalate	ND	0.013	1	06/24/2020 20:20
1,2-Dichlorobenzene	ND	0.25	1	06/24/2020 20:20
1,3-Dichlorobenzene	ND	0.25	1	06/24/2020 20:20
1,4-Dichlorobenzene	ND	0.25	1	06/24/2020 20:20
3,3-Dichlorobenzidine	ND	0.0025	1	06/24/2020 20:20
2,4-Dichlorophenol	ND	0.013	1	06/24/2020 20:20
Diethyl Phthalate	ND	0.013	1	06/24/2020 20:20
2,4-Dimethylphenol	ND	0.25	1	06/24/2020 20:20
Dimethyl Phthalate	ND	0.0025	1	06/24/2020 20:20
4,6-Dinitro-2-methylphenol	ND	1.2	1	06/24/2020 20:20

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-4.0	**2006A30-005B**	**Soil**	**06/19/2020 10:25**	GC21 06242027.D	**200596**

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	0.25	1	06/24/2020 20:20
2,4-Dinitrotoluene	ND	0.013	1	06/24/2020 20:20
2,6-Dinitrotoluene	ND	0.013	1	06/24/2020 20:20
Di-n-octyl Phthalate	ND	0.013	1	06/24/2020 20:20
1,2-Diphenylhydrazine	ND	0.25	1	06/24/2020 20:20
Fluoranthene	**0.0016**	0.0013	1	06/24/2020 20:20
Fluorene	ND	0.0025	1	06/24/2020 20:20
Hexachlorobenzene	ND	0.0013	1	06/24/2020 20:20
Hexachlorobutadiene	ND	0.0025	1	06/24/2020 20:20
Hexachlorocyclopentadiene	ND	2.0	1	06/24/2020 20:20
Hexachloroethane	ND	0.013	1	06/24/2020 20:20
Indeno (1,2,3-cd) pyrene	ND	0.013	1	06/24/2020 20:20
Isophorone	ND	0.25	1	06/24/2020 20:20
2-Methylnaphthalene	ND	0.0025	1	06/24/2020 20:20
2-Methylphenol (o-Cresol)	ND	0.25	1	06/24/2020 20:20
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	06/24/2020 20:20
Naphthalene	ND	0.0013	1	06/24/2020 20:20
2-Nitroaniline	ND	1.2	1	06/24/2020 20:20
3-Nitroaniline	ND	1.2	1	06/24/2020 20:20
4-Nitroaniline	ND	1.2	1	06/24/2020 20:20
Nitrobenzene	ND	0.25	1	06/24/2020 20:20
2-Nitrophenol	ND	1.2	1	06/24/2020 20:20
4-Nitrophenol	ND	1.2	1	06/24/2020 20:20
N-Nitrosodiphenylamine	ND	0.25	1	06/24/2020 20:20
N-Nitrosodi-n-propylamine	ND	0.25	1	06/24/2020 20:20
Pentachlorophenol	ND	0.062	1	06/24/2020 20:20
Phenanthrene	ND	0.0050	1	06/24/2020 20:20
Phenol	ND	0.050	1	06/24/2020 20:20
Pyrene	ND	0.0025	1	06/24/2020 20:20
Pyridine	ND	0.25	1	06/24/2020 20:20
1,2,4-Trichlorobenzene	ND	0.25	1	06/24/2020 20:20
2,4,5-Trichlorophenol	ND	0.0025	1	06/24/2020 20:20
2,4,6-Trichlorophenol	ND	0.013	1	06/24/2020 20:20

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-4.0	**2006A30-005B**	**Soil**	**06/19/2020 10:25**	**GC21 06242027.D**	**200596**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
2-Fluorophenol	81	60-130		06/24/2020 20:20
Phenol-d5	82	60-130		06/24/2020 20:20
Nitrobenzene-d5	69	60-130		06/24/2020 20:20
2-Fluorobiphenyl	69	60-130		06/24/2020 20:20
2,4,6-Tribromophenol	84	50-130		06/24/2020 20:20
4-Terphenyl-d14	70	50-130		06/24/2020 20:20

Analyst(s): HD

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-2.0	**2006A30-006B**	**Soil**	**06/19/2020 11:30**	**GC21 06242028.D**	**200596**

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0013	1	06/24/2020 20:48
Acenaphthylene	ND	0.0013	1	06/24/2020 20:48
Acetochlor	ND	0.25	1	06/24/2020 20:48
Anthracene	ND	0.0013	1	06/24/2020 20:48
Benzidine	ND	1.2	1	06/24/2020 20:48
Benzo (a) anthracene	ND	0.013	1	06/24/2020 20:48
Benzo (a) pyrene	ND	0.0025	1	06/24/2020 20:48
Benzo (b) fluoranthene	ND	0.0063	1	06/24/2020 20:48
Benzo (g,h,i) perylene	ND	0.0025	1	06/24/2020 20:48
Benzo (k) fluoranthene	ND	0.0013	1	06/24/2020 20:48
Benzyl Alcohol	ND	1.2	1	06/24/2020 20:48
1,1-Biphenyl	ND	0.013	1	06/24/2020 20:48
Bis (2-chloroethoxy) Methane	ND	0.25	1	06/24/2020 20:48
Bis (2-chloroethyl) Ether	ND	0.0025	1	06/24/2020 20:48
Bis (2-chloroisopropyl) Ether	ND	0.013	1	06/24/2020 20:48
Bis (2-ethylhexyl) Adipate	ND	0.25	1	06/24/2020 20:48
Bis (2-ethylhexyl) Phthalate	ND	0.025	1	06/24/2020 20:48
4-Bromophenyl Phenyl Ether	ND	0.25	1	06/24/2020 20:48
Butylbenzyl Phthalate	ND	0.025	1	06/24/2020 20:48
4-Chloroaniline	ND	0.0025	1	06/24/2020 20:48
4-Chloro-3-methylphenol	ND	0.25	1	06/24/2020 20:48
2-Chloronaphthalene	ND	0.25	1	06/24/2020 20:48
2-Chlorophenol	ND	0.013	1	06/24/2020 20:48
4-Chlorophenyl Phenyl Ether	ND	0.25	1	06/24/2020 20:48
Chrysene	ND	0.0025	1	06/24/2020 20:48
Dibenzo (a,h) anthracene	ND	0.0025	1	06/24/2020 20:48
Dibenzofuran	ND	0.25	1	06/24/2020 20:48
Di-n-butyl Phthalate	ND	0.013	1	06/24/2020 20:48
1,2-Dichlorobenzene	ND	0.25	1	06/24/2020 20:48
1,3-Dichlorobenzene	ND	0.25	1	06/24/2020 20:48
1,4-Dichlorobenzene	ND	0.25	1	06/24/2020 20:48
3,3-Dichlorobenzidine	ND	0.0025	1	06/24/2020 20:48
2,4-Dichlorophenol	ND	0.013	1	06/24/2020 20:48
Diethyl Phthalate	ND	0.013	1	06/24/2020 20:48
2,4-Dimethylphenol	ND	0.25	1	06/24/2020 20:48
Dimethyl Phthalate	ND	0.0025	1	06/24/2020 20:48
4,6-Dinitro-2-methylphenol	ND	1.2	1	06/24/2020 20:48

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-2.0	2006A30-006B	Soil	06/19/2020 11:30	GC21 06242028.D	200596

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	0.25	1	06/24/2020 20:48
2,4-Dinitrotoluene	ND	0.013	1	06/24/2020 20:48
2,6-Dinitrotoluene	ND	0.013	1	06/24/2020 20:48
Di-n-octyl Phthalate	ND	0.013	1	06/24/2020 20:48
1,2-Diphenylhydrazine	ND	0.25	1	06/24/2020 20:48
Fluoranthene	ND	0.0013	1	06/24/2020 20:48
Fluorene	ND	0.0025	1	06/24/2020 20:48
Hexachlorobenzene	ND	0.0013	1	06/24/2020 20:48
Hexachlorobutadiene	ND	0.0025	1	06/24/2020 20:48
Hexachlorocyclopentadiene	ND	2.0	1	06/24/2020 20:48
Hexachloroethane	ND	0.013	1	06/24/2020 20:48
Indeno (1,2,3-cd) pyrene	ND	0.013	1	06/24/2020 20:48
Isophorone	ND	0.25	1	06/24/2020 20:48
2-Methylnaphthalene	ND	0.0025	1	06/24/2020 20:48
2-Methylphenol (o-Cresol)	ND	0.25	1	06/24/2020 20:48
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	06/24/2020 20:48
Naphthalene	ND	0.0013	1	06/24/2020 20:48
2-Nitroaniline	ND	1.2	1	06/24/2020 20:48
3-Nitroaniline	ND	1.2	1	06/24/2020 20:48
4-Nitroaniline	ND	1.2	1	06/24/2020 20:48
Nitrobenzene	ND	0.25	1	06/24/2020 20:48
2-Nitrophenol	ND	1.2	1	06/24/2020 20:48
4-Nitrophenol	ND	1.2	1	06/24/2020 20:48
N-Nitrosodiphenylamine	ND	0.25	1	06/24/2020 20:48
N-Nitrosodi-n-propylamine	ND	0.25	1	06/24/2020 20:48
Pentachlorophenol	ND	0.062	1	06/24/2020 20:48
Phenanthrene	ND	0.0050	1	06/24/2020 20:48
Phenol	ND	0.050	1	06/24/2020 20:48
Pyrene	ND	0.0025	1	06/24/2020 20:48
Pyridine	ND	0.25	1	06/24/2020 20:48
1,2,4-Trichlorobenzene	ND	0.25	1	06/24/2020 20:48
2,4,5-Trichlorophenol	ND	0.0025	1	06/24/2020 20:48
2,4,6-Trichlorophenol	ND	0.013	1	06/24/2020 20:48

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-2.0	**2006A30-006B**	**Soil**	**06/19/2020 11:30**	**GC21 06242028.D**	**200596**

Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)	Qualifiers	Limits		
2-Fluorophenol	89		60-130		06/24/2020 20:48
Phenol-d5	83		60-130		06/24/2020 20:48
Nitrobenzene-d5	69		60-130		06/24/2020 20:48
2-Fluorobiphenyl	67		60-130		06/24/2020 20:48
2,4,6-Tribromophenol	31	S	50-130		06/24/2020 20:48
4-Terphenyl-d14	66		50-130		06/24/2020 20:48

Analyst(s): HD

Analytical Comments: c2

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-4.0	2006A30-007B	Soil	06/19/2020 11:32	GC21 06242029.D	200596

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0013	1	06/24/2020 21:15
Acenaphthylene	ND	0.0013	1	06/24/2020 21:15
Acetochlor	ND	0.25	1	06/24/2020 21:15
Anthracene	ND	0.0013	1	06/24/2020 21:15
Benzidine	ND	1.2	1	06/24/2020 21:15
Benzo (a) anthracene	ND	0.013	1	06/24/2020 21:15
Benzo (a) pyrene	ND	0.0025	1	06/24/2020 21:15
Benzo (b) fluoranthene	ND	0.0063	1	06/24/2020 21:15
Benzo (g,h,i) perylene	ND	0.0025	1	06/24/2020 21:15
Benzo (k) fluoranthene	ND	0.0013	1	06/24/2020 21:15
Benzyl Alcohol	ND	1.2	1	06/24/2020 21:15
1,1-Biphenyl	ND	0.013	1	06/24/2020 21:15
Bis (2-chloroethoxy) Methane	ND	0.25	1	06/24/2020 21:15
Bis (2-chloroethyl) Ether	ND	0.0025	1	06/24/2020 21:15
Bis (2-chloroisopropyl) Ether	ND	0.013	1	06/24/2020 21:15
Bis (2-ethylhexyl) Adipate	ND	0.25	1	06/24/2020 21:15
Bis (2-ethylhexyl) Phthalate	ND	0.025	1	06/24/2020 21:15
4-Bromophenyl Phenyl Ether	ND	0.25	1	06/24/2020 21:15
Butylbenzyl Phthalate	ND	0.025	1	06/24/2020 21:15
4-Chloroaniline	ND	0.0025	1	06/24/2020 21:15
4-Chloro-3-methylphenol	ND	0.25	1	06/24/2020 21:15
2-Chloronaphthalene	ND	0.25	1	06/24/2020 21:15
2-Chlorophenol	ND	0.013	1	06/24/2020 21:15
4-Chlorophenyl Phenyl Ether	ND	0.25	1	06/24/2020 21:15
Chrysene	ND	0.0025	1	06/24/2020 21:15
Dibenzo (a,h) anthracene	ND	0.0025	1	06/24/2020 21:15
Dibenzofuran	ND	0.25	1	06/24/2020 21:15
Di-n-butyl Phthalate	ND	0.013	1	06/24/2020 21:15
1,2-Dichlorobenzene	ND	0.25	1	06/24/2020 21:15
1,3-Dichlorobenzene	ND	0.25	1	06/24/2020 21:15
1,4-Dichlorobenzene	ND	0.25	1	06/24/2020 21:15
3,3-Dichlorobenzidine	ND	0.0025	1	06/24/2020 21:15
2,4-Dichlorophenol	ND	0.013	1	06/24/2020 21:15
Diethyl Phthalate	ND	0.013	1	06/24/2020 21:15
2,4-Dimethylphenol	ND	0.25	1	06/24/2020 21:15
Dimethyl Phthalate	ND	0.0025	1	06/24/2020 21:15
4,6-Dinitro-2-methylphenol	ND	1.2	1	06/24/2020 21:15

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-4.0	2006A30-007B	Soil	06/19/2020 11:32	GC21 06242029.D	200596

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	0.25	1	06/24/2020 21:15
2,4-Dinitrotoluene	ND	0.013	1	06/24/2020 21:15
2,6-Dinitrotoluene	ND	0.013	1	06/24/2020 21:15
Di-n-octyl Phthalate	ND	0.013	1	06/24/2020 21:15
1,2-Diphenylhydrazine	ND	0.25	1	06/24/2020 21:15
Fluoranthene	ND	0.0013	1	06/24/2020 21:15
Fluorene	ND	0.0025	1	06/24/2020 21:15
Hexachlorobenzene	ND	0.0013	1	06/24/2020 21:15
Hexachlorobutadiene	ND	0.0025	1	06/24/2020 21:15
Hexachlorocyclopentadiene	ND	2.0	1	06/24/2020 21:15
Hexachloroethane	ND	0.013	1	06/24/2020 21:15
Indeno (1,2,3-cd) pyrene	ND	0.013	1	06/24/2020 21:15
Isophorone	ND	0.25	1	06/24/2020 21:15
2-Methylnaphthalene	ND	0.0025	1	06/24/2020 21:15
2-Methylphenol (o-Cresol)	ND	0.25	1	06/24/2020 21:15
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	06/24/2020 21:15
Naphthalene	ND	0.0013	1	06/24/2020 21:15
2-Nitroaniline	ND	1.2	1	06/24/2020 21:15
3-Nitroaniline	ND	1.2	1	06/24/2020 21:15
4-Nitroaniline	ND	1.2	1	06/24/2020 21:15
Nitrobenzene	ND	0.25	1	06/24/2020 21:15
2-Nitrophenol	ND	1.2	1	06/24/2020 21:15
4-Nitrophenol	ND	1.2	1	06/24/2020 21:15
N-Nitrosodiphenylamine	ND	0.25	1	06/24/2020 21:15
N-Nitrosodi-n-propylamine	ND	0.25	1	06/24/2020 21:15
Pentachlorophenol	ND	0.062	1	06/24/2020 21:15
Phenanthrene	ND	0.0050	1	06/24/2020 21:15
Phenol	ND	0.050	1	06/24/2020 21:15
Pyrene	ND	0.0025	1	06/24/2020 21:15
Pyridine	ND	0.25	1	06/24/2020 21:15
1,2,4-Trichlorobenzene	ND	0.25	1	06/24/2020 21:15
2,4,5-Trichlorophenol	ND	0.0025	1	06/24/2020 21:15
2,4,6-Trichlorophenol	ND	0.013	1	06/24/2020 21:15

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-4.0	**2006A30-007B**	**Soil**	**06/19/2020 11:32**	**GC21 06242029.D**	**200596**

Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)	Qualifiers	Limits		
2-Fluorophenol	89		60-130		06/24/2020 21:15
Phenol-d5	85		60-130		06/24/2020 21:15
Nitrobenzene-d5	74		60-130		06/24/2020 21:15
2-Fluorobiphenyl	69		60-130		06/24/2020 21:15
2,4,6-Tribromophenol	37	S	50-130		06/24/2020 21:15
4-Terphenyl-d14	65		50-130		06/24/2020 21:15

Analyst(s): HD

Analytical Comments: c2

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-2.0	2006A30-008B	Soil	06/19/2020 11:57	GC21 06242030.D	200596

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0013	1	06/24/2020 21:43
Acenaphthylene	ND	0.0013	1	06/24/2020 21:43
Acetochlor	ND	0.25	1	06/24/2020 21:43
Anthracene	ND	0.0013	1	06/24/2020 21:43
Benzidine	ND	1.2	1	06/24/2020 21:43
Benzo (a) anthracene	ND	0.013	1	06/24/2020 21:43
Benzo (a) pyrene	ND	0.0025	1	06/24/2020 21:43
Benzo (b) fluoranthene	ND	0.0063	1	06/24/2020 21:43
Benzo (g,h,i) perylene	ND	0.0025	1	06/24/2020 21:43
Benzo (k) fluoranthene	ND	0.0013	1	06/24/2020 21:43
Benzyl Alcohol	ND	1.2	1	06/24/2020 21:43
1,1-Biphenyl	ND	0.013	1	06/24/2020 21:43
Bis (2-chloroethoxy) Methane	ND	0.25	1	06/24/2020 21:43
Bis (2-chloroethyl) Ether	ND	0.0025	1	06/24/2020 21:43
Bis (2-chloroisopropyl) Ether	ND	0.013	1	06/24/2020 21:43
Bis (2-ethylhexyl) Adipate	ND	0.25	1	06/24/2020 21:43
Bis (2-ethylhexyl) Phthalate	ND	0.025	1	06/24/2020 21:43
4-Bromophenyl Phenyl Ether	ND	0.25	1	06/24/2020 21:43
Butylbenzyl Phthalate	ND	0.025	1	06/24/2020 21:43
4-Chloroaniline	ND	0.0025	1	06/24/2020 21:43
4-Chloro-3-methylphenol	ND	0.25	1	06/24/2020 21:43
2-Chloronaphthalene	ND	0.25	1	06/24/2020 21:43
2-Chlorophenol	ND	0.013	1	06/24/2020 21:43
4-Chlorophenyl Phenyl Ether	ND	0.25	1	06/24/2020 21:43
Chrysene	ND	0.0025	1	06/24/2020 21:43
Dibenzo (a,h) anthracene	ND	0.0025	1	06/24/2020 21:43
Dibenzofuran	ND	0.25	1	06/24/2020 21:43
Di-n-butyl Phthalate	ND	0.013	1	06/24/2020 21:43
1,2-Dichlorobenzene	ND	0.25	1	06/24/2020 21:43
1,3-Dichlorobenzene	ND	0.25	1	06/24/2020 21:43
1,4-Dichlorobenzene	ND	0.25	1	06/24/2020 21:43
3,3-Dichlorobenzidine	ND	0.0025	1	06/24/2020 21:43
2,4-Dichlorophenol	ND	0.013	1	06/24/2020 21:43
Diethyl Phthalate	ND	0.013	1	06/24/2020 21:43
2,4-Dimethylphenol	ND	0.25	1	06/24/2020 21:43
Dimethyl Phthalate	ND	0.0025	1	06/24/2020 21:43
4,6-Dinitro-2-methylphenol	ND	1.2	1	06/24/2020 21:43

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-2.0	2006A30-008B	Soil	06/19/2020 11:57	GC21 06242030.D	200596

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	0.25	1	06/24/2020 21:43
2,4-Dinitrotoluene	ND	0.013	1	06/24/2020 21:43
2,6-Dinitrotoluene	ND	0.013	1	06/24/2020 21:43
Di-n-octyl Phthalate	ND	0.013	1	06/24/2020 21:43
1,2-Diphenylhydrazine	ND	0.25	1	06/24/2020 21:43
Fluoranthene	ND	0.0013	1	06/24/2020 21:43
Fluorene	ND	0.0025	1	06/24/2020 21:43
Hexachlorobenzene	ND	0.0013	1	06/24/2020 21:43
Hexachlorobutadiene	ND	0.0025	1	06/24/2020 21:43
Hexachlorocyclopentadiene	ND	2.0	1	06/24/2020 21:43
Hexachloroethane	ND	0.013	1	06/24/2020 21:43
Indeno (1,2,3-cd) pyrene	ND	0.013	1	06/24/2020 21:43
Isophorone	ND	0.25	1	06/24/2020 21:43
2-Methylnaphthalene	ND	0.0025	1	06/24/2020 21:43
2-Methylphenol (o-Cresol)	ND	0.25	1	06/24/2020 21:43
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	06/24/2020 21:43
Naphthalene	ND	0.0013	1	06/24/2020 21:43
2-Nitroaniline	ND	1.2	1	06/24/2020 21:43
3-Nitroaniline	ND	1.2	1	06/24/2020 21:43
4-Nitroaniline	ND	1.2	1	06/24/2020 21:43
Nitrobenzene	ND	0.25	1	06/24/2020 21:43
2-Nitrophenol	ND	1.2	1	06/24/2020 21:43
4-Nitrophenol	ND	1.2	1	06/24/2020 21:43
N-Nitrosodiphenylamine	ND	0.25	1	06/24/2020 21:43
N-Nitrosodi-n-propylamine	ND	0.25	1	06/24/2020 21:43
Pentachlorophenol	ND	0.062	1	06/24/2020 21:43
Phenanthrene	ND	0.0050	1	06/24/2020 21:43
Phenol	ND	0.050	1	06/24/2020 21:43
Pyrene	ND	0.0025	1	06/24/2020 21:43
Pyridine	ND	0.25	1	06/24/2020 21:43
1,2,4-Trichlorobenzene	ND	0.25	1	06/24/2020 21:43
2,4,5-Trichlorophenol	ND	0.0025	1	06/24/2020 21:43
2,4,6-Trichlorophenol	ND	0.013	1	06/24/2020 21:43

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-2.0	2006A30-008B	Soil	06/19/2020 11:57	GC21 06242030.D	200596

Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)	Qualifiers	Limits		
2-Fluorophenol	92		60-130		06/24/2020 21:43
Phenol-d5	80		60-130		06/24/2020 21:43
Nitrobenzene-d5	68		60-130		06/24/2020 21:43
2-Fluorobiphenyl	71		60-130		06/24/2020 21:43
2,4,6-Tribromophenol	36	S	50-130		06/24/2020 21:43
4-Terphenyl-d14	65		50-130		06/24/2020 21:43

Analyst(s): HD

Analytical Comments: c2

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-4.0	2006A30-009B	Soil	06/19/2020 12:04	GC21 06242031.D	200596

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0013	1	06/24/2020 22:10
Acenaphthylene	ND	0.0013	1	06/24/2020 22:10
Acetochlor	ND	0.25	1	06/24/2020 22:10
Anthracene	ND	0.0013	1	06/24/2020 22:10
Benzidine	ND	1.2	1	06/24/2020 22:10
Benzo (a) anthracene	ND	0.013	1	06/24/2020 22:10
Benzo (a) pyrene	ND	0.0025	1	06/24/2020 22:10
Benzo (b) fluoranthene	ND	0.0063	1	06/24/2020 22:10
Benzo (g,h,i) perylene	ND	0.0025	1	06/24/2020 22:10
Benzo (k) fluoranthene	ND	0.0013	1	06/24/2020 22:10
Benzyl Alcohol	ND	1.2	1	06/24/2020 22:10
1,1-Biphenyl	ND	0.013	1	06/24/2020 22:10
Bis (2-chloroethoxy) Methane	ND	0.25	1	06/24/2020 22:10
Bis (2-chloroethyl) Ether	ND	0.0025	1	06/24/2020 22:10
Bis (2-chloroisopropyl) Ether	ND	0.013	1	06/24/2020 22:10
Bis (2-ethylhexyl) Adipate	ND	0.25	1	06/24/2020 22:10
Bis (2-ethylhexyl) Phthalate	ND	0.025	1	06/24/2020 22:10
4-Bromophenyl Phenyl Ether	ND	0.25	1	06/24/2020 22:10
Butylbenzyl Phthalate	ND	0.025	1	06/24/2020 22:10
4-Chloroaniline	ND	0.0025	1	06/24/2020 22:10
4-Chloro-3-methylphenol	ND	0.25	1	06/24/2020 22:10
2-Chloronaphthalene	ND	0.25	1	06/24/2020 22:10
2-Chlorophenol	ND	0.013	1	06/24/2020 22:10
4-Chlorophenyl Phenyl Ether	ND	0.25	1	06/24/2020 22:10
Chrysene	ND	0.0025	1	06/24/2020 22:10
Dibenzo (a,h) anthracene	ND	0.0025	1	06/24/2020 22:10
Dibenzofuran	ND	0.25	1	06/24/2020 22:10
Di-n-butyl Phthalate	ND	0.013	1	06/24/2020 22:10
1,2-Dichlorobenzene	ND	0.25	1	06/24/2020 22:10
1,3-Dichlorobenzene	ND	0.25	1	06/24/2020 22:10
1,4-Dichlorobenzene	ND	0.25	1	06/24/2020 22:10
3,3-Dichlorobenzidine	ND	0.0025	1	06/24/2020 22:10
2,4-Dichlorophenol	ND	0.013	1	06/24/2020 22:10
Diethyl Phthalate	ND	0.013	1	06/24/2020 22:10
2,4-Dimethylphenol	ND	0.25	1	06/24/2020 22:10
Dimethyl Phthalate	ND	0.0025	1	06/24/2020 22:10
4,6-Dinitro-2-methylphenol	ND	1.2	1	06/24/2020 22:10

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Analytical Report

Client: P & D Environmental
Date Received: 06/19/2020 14:24
Date Prepared: 06/23/2020-06/26/2020
Project: 0772; The Phoenix 801 Pine Street Oakland, CA

WorkOrder: 2006A30
Extraction Method: SW3550B/3640A
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-4.0	**2006A30-009B**	**Soil**	**06/19/2020 12:04**	**GC21 06242031.D**	**200596**

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	0.25	1	06/24/2020 22:10
2,4-Dinitrotoluene	ND	0.013	1	06/24/2020 22:10
2,6-Dinitrotoluene	ND	0.013	1	06/24/2020 22:10
Di-n-octyl Phthalate	ND	0.013	1	06/24/2020 22:10
1,2-Diphenylhydrazine	ND	0.25	1	06/24/2020 22:10
Fluoranthene	ND	0.0013	1	06/24/2020 22:10
Fluorene	ND	0.0025	1	06/24/2020 22:10
Hexachlorobenzene	ND	0.0013	1	06/24/2020 22:10
Hexachlorobutadiene	ND	0.0025	1	06/24/2020 22:10
Hexachlorocyclopentadiene	ND	2.0	1	06/24/2020 22:10
Hexachloroethane	ND	0.013	1	06/24/2020 22:10
Indeno (1,2,3-cd) pyrene	ND	0.013	1	06/24/2020 22:10
Isophorone	ND	0.25	1	06/24/2020 22:10
2-Methylnaphthalene	ND	0.0025	1	06/24/2020 22:10
2-Methylphenol (o-Cresol)	ND	0.25	1	06/24/2020 22:10
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	06/24/2020 22:10
Naphthalene	ND	0.0013	1	06/24/2020 22:10
2-Nitroaniline	ND	1.2	1	06/24/2020 22:10
3-Nitroaniline	ND	1.2	1	06/24/2020 22:10
4-Nitroaniline	ND	1.2	1	06/24/2020 22:10
Nitrobenzene	ND	0.25	1	06/24/2020 22:10
2-Nitrophenol	ND	1.2	1	06/24/2020 22:10
4-Nitrophenol	ND	1.2	1	06/24/2020 22:10
N-Nitrosodiphenylamine	ND	0.25	1	06/24/2020 22:10
N-Nitrosodi-n-propylamine	ND	0.25	1	06/24/2020 22:10
Pentachlorophenol	ND	0.062	1	06/24/2020 22:10
Phenanthrene	ND	0.0050	1	06/24/2020 22:10
Phenol	ND	0.050	1	06/24/2020 22:10
Pyrene	ND	0.0025	1	06/24/2020 22:10
Pyridine	ND	0.25	1	06/24/2020 22:10
1,2,4-Trichlorobenzene	ND	0.25	1	06/24/2020 22:10
2,4,5-Trichlorophenol	ND	0.0025	1	06/24/2020 22:10
2,4,6-Trichlorophenol	ND	0.013	1	06/24/2020 22:10

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-4.0	2006A30-009B	Soil	06/19/2020 12:04	GC21 06242031.D	200596

Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)	Qualifiers	Limits		
2-Fluorophenol	100		60-130		06/24/2020 22:10
Phenol-d5	94		60-130		06/24/2020 22:10
Nitrobenzene-d5	80		60-130		06/24/2020 22:10
2-Fluorobiphenyl	78		60-130		06/24/2020 22:10
2,4,6-Tribromophenol	40	S	50-130		06/24/2020 22:10
4-Terphenyl-d14	76		50-130		06/24/2020 22:10

Analyst(s): HD

Analytical Comments: c2

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-3.0	**2006A30-001B**	**Soil**	**06/19/2020 09:35**	**GC21 06242032.D**	**200596**

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0028	2	06/24/2020 22:37
Acenaphthylene	ND	0.0028	2	06/24/2020 22:37
Acetochlor	ND	0.54	2	06/24/2020 22:37
Anthracene	ND	0.0028	2	06/24/2020 22:37
Benzidine	ND	2.7	2	06/24/2020 22:37
Benzo (a) anthracene	ND	0.028	2	06/24/2020 22:37
Benzo (a) pyrene	**0.0062**	0.0054	2	06/24/2020 22:37
Benzo (b) fluoranthene	ND	0.014	2	06/24/2020 22:37
Benzo (g,h,i) perylene	**0.0097**	0.0054	2	06/24/2020 22:37
Benzo (k) fluoranthene	**0.0040**	0.0028	2	06/24/2020 22:37
Benzyl Alcohol	ND	2.7	2	06/24/2020 22:37
1,1-Biphenyl	ND	0.028	2	06/24/2020 22:37
Bis (2-chloroethoxy) Methane	ND	0.54	2	06/24/2020 22:37
Bis (2-chloroethyl) Ether	ND	0.0054	2	06/24/2020 22:37
Bis (2-chloroisopropyl) Ether	ND	0.028	2	06/24/2020 22:37
Bis (2-ethylhexyl) Adipate	ND	0.54	2	06/24/2020 22:37
Bis (2-ethylhexyl) Phthalate	ND	0.054	2	06/24/2020 22:37
4-Bromophenyl Phenyl Ether	ND	0.54	2	06/24/2020 22:37
Butylbenzyl Phthalate	ND	0.054	2	06/24/2020 22:37
4-Chloroaniline	ND	0.0054	2	06/24/2020 22:37
4-Chloro-3-methylphenol	ND	0.54	2	06/24/2020 22:37
2-Chloronaphthalene	ND	0.54	2	06/24/2020 22:37
2-Chlorophenol	ND	0.028	2	06/24/2020 22:37
4-Chlorophenyl Phenyl Ether	ND	0.54	2	06/24/2020 22:37
Chrysene	**0.0059**	0.0054	2	06/24/2020 22:37
Dibenzo (a,h) anthracene	ND	0.0054	2	06/24/2020 22:37
Dibenzofuran	ND	0.54	2	06/24/2020 22:37
Di-n-butyl Phthalate	ND	0.028	2	06/24/2020 22:37
1,2-Dichlorobenzene	ND	0.54	2	06/24/2020 22:37
1,3-Dichlorobenzene	ND	0.54	2	06/24/2020 22:37
1,4-Dichlorobenzene	ND	0.54	2	06/24/2020 22:37
3,3-Dichlorobenzidine	ND	0.0054	2	06/24/2020 22:37
2,4-Dichlorophenol	ND	0.028	2	06/24/2020 22:37
Diethyl Phthalate	ND	0.028	2	06/24/2020 22:37
2,4-Dimethylphenol	ND	0.54	2	06/24/2020 22:37
Dimethyl Phthalate	ND	0.0054	2	06/24/2020 22:37
4,6-Dinitro-2-methylphenol	ND	2.7	2	06/24/2020 22:37

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-3.0	2006A30-001B	Soil	06/19/2020 09:35	GC21 06242032.D	200596

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	0.54	2	06/24/2020 22:37
2,4-Dinitrotoluene	ND	0.028	2	06/24/2020 22:37
2,6-Dinitrotoluene	ND	0.028	2	06/24/2020 22:37
Di-n-octyl Phthalate	ND	0.028	2	06/24/2020 22:37
1,2-Diphenylhydrazine	ND	0.54	2	06/24/2020 22:37
Fluoranthene	**0.0087**	0.0028	2	06/24/2020 22:37
Fluorene	ND	0.0054	2	06/24/2020 22:37
Hexachlorobenzene	ND	0.0028	2	06/24/2020 22:37
Hexachlorobutadiene	ND	0.0054	2	06/24/2020 22:37
Hexachlorocyclopentadiene	ND	4.3	2	06/24/2020 22:37
Hexachloroethane	ND	0.028	2	06/24/2020 22:37
Indeno (1,2,3-cd) pyrene	ND	0.028	2	06/24/2020 22:37
Isophorone	ND	0.54	2	06/24/2020 22:37
2-Methylnaphthalene	ND	0.0054	2	06/24/2020 22:37
2-Methylphenol (o-Cresol)	ND	0.54	2	06/24/2020 22:37
3 & 4-Methylphenol (m,p-Cresol)	ND	0.54	2	06/24/2020 22:37
Naphthalene	ND	0.0028	2	06/24/2020 22:37
2-Nitroaniline	ND	2.7	2	06/24/2020 22:37
3-Nitroaniline	ND	2.7	2	06/24/2020 22:37
4-Nitroaniline	ND	2.7	2	06/24/2020 22:37
Nitrobenzene	ND	0.54	2	06/24/2020 22:37
2-Nitrophenol	ND	2.7	2	06/24/2020 22:37
4-Nitrophenol	ND	2.7	2	06/24/2020 22:37
N-Nitrosodiphenylamine	ND	0.54	2	06/24/2020 22:37
N-Nitrosodi-n-propylamine	ND	0.54	2	06/24/2020 22:37
Pentachlorophenol	ND	0.13	2	06/24/2020 22:37
Phenanthrene	ND	0.011	2	06/24/2020 22:37
Phenol	ND	0.11	2	06/24/2020 22:37
Pyrene	**0.0088**	0.0054	2	06/24/2020 22:37
Pyridine	ND	0.54	2	06/24/2020 22:37
1,2,4-Trichlorobenzene	ND	0.54	2	06/24/2020 22:37
2,4,5-Trichlorophenol	ND	0.0054	2	06/24/2020 22:37
2,4,6-Trichlorophenol	ND	0.028	2	06/24/2020 22:37

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-3.0	2006A30-001B	Soil	06/19/2020 09:35	GC21 06242032.D	200596

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
2-Fluorophenol	87	60-130		06/24/2020 22:37
Phenol-d5	85	60-130		06/24/2020 22:37
Nitrobenzene-d5	68	60-130		06/24/2020 22:37
2-Fluorobiphenyl	72	60-130		06/24/2020 22:37
2,4,6-Tribromophenol	82	50-130		06/24/2020 22:37
4-Terphenyl-d14	70	50-130		06/24/2020 22:37

Analyst(s): HD

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-5.0	2006A30-003B	Soil	06/19/2020 10:50	GC17 06262013.D	200792

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0014	1	06/26/2020 13:48
Acenaphthylene	ND	0.0014	1	06/26/2020 13:48
Acetochlor	ND	0.27	1	06/26/2020 13:48
Anthracene	ND	0.0014	1	06/26/2020 13:48
Benzidine	ND	1.3	1	06/26/2020 13:48
Benzo (a) anthracene	ND	0.014	1	06/26/2020 13:48
Benzo (a) pyrene	**0.0039**	0.0027	1	06/26/2020 13:48
Benzo (b) fluoranthene	ND	0.0068	1	06/26/2020 13:48
Benzo (g,h,i) perylene	ND	0.0027	1	06/26/2020 13:48
Benzo (k) fluoranthene	**0.0018**	0.0014	1	06/26/2020 13:48
Benzyl Alcohol	ND	1.3	1	06/26/2020 13:48
1,1-Biphenyl	ND	0.014	1	06/26/2020 13:48
Bis (2-chloroethoxy) Methane	ND	0.27	1	06/26/2020 13:48
Bis (2-chloroethyl) Ether	ND	0.0027	1	06/26/2020 13:48
Bis (2-chloroisopropyl) Ether	ND	0.014	1	06/26/2020 13:48
Bis (2-ethylhexyl) Adipate	ND	0.27	1	06/26/2020 13:48
Bis (2-ethylhexyl) Phthalate	ND	0.027	1	06/26/2020 13:48
4-Bromophenyl Phenyl Ether	ND	0.27	1	06/26/2020 13:48
Butylbenzyl Phthalate	ND	0.027	1	06/26/2020 13:48
4-Chloroaniline	ND	0.0027	1	06/26/2020 13:48
4-Chloro-3-methylphenol	ND	0.27	1	06/26/2020 13:48
2-Chloronaphthalene	ND	0.27	1	06/26/2020 13:48
2-Chlorophenol	ND	0.014	1	06/26/2020 13:48
4-Chlorophenyl Phenyl Ether	ND	0.27	1	06/26/2020 13:48
Chrysene	ND	0.0027	1	06/26/2020 13:48
Dibenzo (a,h) anthracene	ND	0.0027	1	06/26/2020 13:48
Dibenzofuran	ND	0.27	1	06/26/2020 13:48
Di-n-butyl Phthalate	ND	0.014	1	06/26/2020 13:48
1,2-Dichlorobenzene	ND	0.27	1	06/26/2020 13:48
1,3-Dichlorobenzene	ND	0.27	1	06/26/2020 13:48
1,4-Dichlorobenzene	ND	0.27	1	06/26/2020 13:48
3,3-Dichlorobenzidine	ND	0.0027	1	06/26/2020 13:48
2,4-Dichlorophenol	ND	0.014	1	06/26/2020 13:48
Diethyl Phthalate	ND	0.014	1	06/26/2020 13:48
2,4-Dimethylphenol	ND	0.27	1	06/26/2020 13:48
Dimethyl Phthalate	ND	0.0027	1	06/26/2020 13:48
4,6-Dinitro-2-methylphenol	ND	1.3	1	06/26/2020 13:48

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-5.0	**2006A30-003B**	**Soil**	**06/19/2020 10:50**	**GC17 06262013.D**	**200792**

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	0.27	1	06/26/2020 13:48
2,4-Dinitrotoluene	ND	0.014	1	06/26/2020 13:48
2,6-Dinitrotoluene	ND	0.014	1	06/26/2020 13:48
Di-n-octyl Phthalate	ND	0.014	1	06/26/2020 13:48
1,2-Diphenylhydrazine	ND	0.27	1	06/26/2020 13:48
Fluoranthene	**0.0023**	0.0014	1	06/26/2020 13:48
Fluorene	ND	0.0027	1	06/26/2020 13:48
Hexachlorobenzene	ND	0.0014	1	06/26/2020 13:48
Hexachlorobutadiene	ND	0.0027	1	06/26/2020 13:48
Hexachlorocyclopentadiene	ND	2.2	1	06/26/2020 13:48
Hexachloroethane	ND	0.014	1	06/26/2020 13:48
Indeno (1,2,3-cd) pyrene	ND	0.014	1	06/26/2020 13:48
Isophorone	ND	0.27	1	06/26/2020 13:48
2-Methylnaphthalene	ND	0.0027	1	06/26/2020 13:48
2-Methylphenol (o-Cresol)	ND	0.27	1	06/26/2020 13:48
3 & 4-Methylphenol (m,p-Cresol)	ND	0.27	1	06/26/2020 13:48
Naphthalene	ND	0.0014	1	06/26/2020 13:48
2-Nitroaniline	ND	1.3	1	06/26/2020 13:48
3-Nitroaniline	ND	1.3	1	06/26/2020 13:48
4-Nitroaniline	ND	1.3	1	06/26/2020 13:48
Nitrobenzene	ND	0.27	1	06/26/2020 13:48
2-Nitrophenol	ND	1.3	1	06/26/2020 13:48
4-Nitrophenol	ND	1.3	1	06/26/2020 13:48
N-Nitrosodiphenylamine	ND	0.27	1	06/26/2020 13:48
N-Nitrosodi-n-propylamine	ND	0.27	1	06/26/2020 13:48
Pentachlorophenol	ND	0.067	1	06/26/2020 13:48
Phenanthrene	ND	0.0054	1	06/26/2020 13:48
Phenol	ND	0.054	1	06/26/2020 13:48
Pyrene	**0.0034**	0.0027	1	06/26/2020 13:48
Pyridine	ND	0.27	1	06/26/2020 13:48
1,2,4-Trichlorobenzene	ND	0.27	1	06/26/2020 13:48
2,4,5-Trichlorophenol	ND	0.0027	1	06/26/2020 13:48
2,4,6-Trichlorophenol	ND	0.014	1	06/26/2020 13:48

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-5.0	**2006A30-003B**	**Soil**	**06/19/2020 10:50**	**GC17 06262013.D**	**200792**

Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)	Qualifiers	Limits		
2-Fluorophenol	105		60-130		06/26/2020 13:48
Phenol-d5	98		60-130		06/26/2020 13:48
Nitrobenzene-d5	69		60-130		06/26/2020 13:48
2-Fluorobiphenyl	66		60-130		06/26/2020 13:48
2,4,6-Tribromophenol	27	S	50-130		06/26/2020 13:48
4-Terphenyl-d14	72		50-130		06/26/2020 13:48

Analyst(s): HD

Analytical Comments: c2

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-2.0	2006A30-004B	Soil	06/19/2020 10:20	GC21 06242026.D	200596

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0014	1	06/24/2020 19:53
Acenaphthylene	ND	0.0014	1	06/24/2020 19:53
Acetochlor	ND	0.27	1	06/24/2020 19:53
Anthracene	ND	0.0014	1	06/24/2020 19:53
Benzidine	ND	1.3	1	06/24/2020 19:53
Benzo (a) anthracene	ND	0.014	1	06/24/2020 19:53
Benzo (a) pyrene	ND	0.0027	1	06/24/2020 19:53
Benzo (b) fluoranthene	ND	0.0067	1	06/24/2020 19:53
Benzo (g,h,i) perylene	ND	0.0027	1	06/24/2020 19:53
Benzo (k) fluoranthene	ND	0.0014	1	06/24/2020 19:53
Benzyl Alcohol	ND	1.3	1	06/24/2020 19:53
1,1-Biphenyl	ND	0.014	1	06/24/2020 19:53
Bis (2-chloroethoxy) Methane	ND	0.27	1	06/24/2020 19:53
Bis (2-chloroethyl) Ether	ND	0.0027	1	06/24/2020 19:53
Bis (2-chloroisopropyl) Ether	ND	0.014	1	06/24/2020 19:53
Bis (2-ethylhexyl) Adipate	ND	0.27	1	06/24/2020 19:53
Bis (2-ethylhexyl) Phthalate	ND	0.027	1	06/24/2020 19:53
4-Bromophenyl Phenyl Ether	ND	0.27	1	06/24/2020 19:53
Butylbenzyl Phthalate	ND	0.027	1	06/24/2020 19:53
4-Chloroaniline	ND	0.0027	1	06/24/2020 19:53
4-Chloro-3-methylphenol	ND	0.27	1	06/24/2020 19:53
2-Chloronaphthalene	ND	0.27	1	06/24/2020 19:53
2-Chlorophenol	ND	0.014	1	06/24/2020 19:53
4-Chlorophenyl Phenyl Ether	ND	0.27	1	06/24/2020 19:53
Chrysene	ND	0.0027	1	06/24/2020 19:53
Dibenzo (a,h) anthracene	ND	0.0027	1	06/24/2020 19:53
Dibenzofuran	ND	0.27	1	06/24/2020 19:53
Di-n-butyl Phthalate	ND	0.014	1	06/24/2020 19:53
1,2-Dichlorobenzene	ND	0.27	1	06/24/2020 19:53
1,3-Dichlorobenzene	ND	0.27	1	06/24/2020 19:53
1,4-Dichlorobenzene	ND	0.27	1	06/24/2020 19:53
3,3-Dichlorobenzidine	ND	0.0027	1	06/24/2020 19:53
2,4-Dichlorophenol	ND	0.014	1	06/24/2020 19:53
Diethyl Phthalate	ND	0.014	1	06/24/2020 19:53
2,4-Dimethylphenol	ND	0.27	1	06/24/2020 19:53
Dimethyl Phthalate	ND	0.0027	1	06/24/2020 19:53
4,6-Dinitro-2-methylphenol	ND	1.3	1	06/24/2020 19:53

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-2.0	2006A30-004B	Soil	06/19/2020 10:20	GC21 06242026.D	200596

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	0.27	1	06/24/2020 19:53
2,4-Dinitrotoluene	ND	0.014	1	06/24/2020 19:53
2,6-Dinitrotoluene	ND	0.014	1	06/24/2020 19:53
Di-n-octyl Phthalate	ND	0.014	1	06/24/2020 19:53
1,2-Diphenylhydrazine	ND	0.27	1	06/24/2020 19:53
Fluoranthene	ND	0.0014	1	06/24/2020 19:53
Fluorene	ND	0.0027	1	06/24/2020 19:53
Hexachlorobenzene	ND	0.0014	1	06/24/2020 19:53
Hexachlorobutadiene	ND	0.0027	1	06/24/2020 19:53
Hexachlorocyclopentadiene	ND	2.1	1	06/24/2020 19:53
Hexachloroethane	ND	0.014	1	06/24/2020 19:53
Indeno (1,2,3-cd) pyrene	ND	0.014	1	06/24/2020 19:53
Isophorone	ND	0.27	1	06/24/2020 19:53
2-Methylnaphthalene	ND	0.0027	1	06/24/2020 19:53
2-Methylphenol (o-Cresol)	ND	0.27	1	06/24/2020 19:53
3 & 4-Methylphenol (m,p-Cresol)	ND	0.27	1	06/24/2020 19:53
Naphthalene	ND	0.0014	1	06/24/2020 19:53
2-Nitroaniline	ND	1.3	1	06/24/2020 19:53
3-Nitroaniline	ND	1.3	1	06/24/2020 19:53
4-Nitroaniline	ND	1.3	1	06/24/2020 19:53
Nitrobenzene	ND	0.27	1	06/24/2020 19:53
2-Nitrophenol	ND	1.3	1	06/24/2020 19:53
4-Nitrophenol	ND	1.3	1	06/24/2020 19:53
N-Nitrosodiphenylamine	ND	0.27	1	06/24/2020 19:53
N-Nitrosodi-n-propylamine	ND	0.27	1	06/24/2020 19:53
Pentachlorophenol	ND	0.066	1	06/24/2020 19:53
Phenanthrene	ND	0.0053	1	06/24/2020 19:53
Phenol	ND	0.053	1	06/24/2020 19:53
Pyrene	ND	0.0027	1	06/24/2020 19:53
Pyridine	ND	0.27	1	06/24/2020 19:53
1,2,4-Trichlorobenzene	ND	0.27	1	06/24/2020 19:53
2,4,5-Trichlorophenol	ND	0.0027	1	06/24/2020 19:53
2,4,6-Trichlorophenol	ND	0.014	1	06/24/2020 19:53

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-2.0	**2006A30-004B**	**Soil**	**06/19/2020 10:20**	**GC21 06242026.D**	**200596**

Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)	Qualifiers	Limits		
2-Fluorophenol	87		60-130		06/24/2020 19:53
Phenol-d5	84		60-130		06/24/2020 19:53
Nitrobenzene-d5	70		60-130		06/24/2020 19:53
2-Fluorobiphenyl	68		60-130		06/24/2020 19:53
2,4,6-Tribromophenol	44	S	50-130		06/24/2020 19:53
4-Terphenyl-d14	66		50-130		06/24/2020 19:53

Analyst(s): HD

Analytical Comments: c2

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-4.0	2006A30-005B	Soil	06/19/2020 10:25	GC21 06242027.D	200596

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0014	1	06/24/2020 20:20
Acenaphthylene	ND	0.0014	1	06/24/2020 20:20
Acetochlor	ND	0.27	1	06/24/2020 20:20
Anthracene	ND	0.0014	1	06/24/2020 20:20
Benzidine	ND	1.3	1	06/24/2020 20:20
Benzo (a) anthracene	ND	0.014	1	06/24/2020 20:20
Benzo (a) pyrene	ND	0.0027	1	06/24/2020 20:20
Benzo (b) fluoranthene	ND	0.0067	1	06/24/2020 20:20
Benzo (g,h,i) perylene	ND	0.0027	1	06/24/2020 20:20
Benzo (k) fluoranthene	ND	0.0014	1	06/24/2020 20:20
Benzyl Alcohol	ND	1.3	1	06/24/2020 20:20
1,1-Biphenyl	ND	0.014	1	06/24/2020 20:20
Bis (2-chloroethoxy) Methane	ND	0.27	1	06/24/2020 20:20
Bis (2-chloroethyl) Ether	ND	0.0027	1	06/24/2020 20:20
Bis (2-chloroisopropyl) Ether	ND	0.014	1	06/24/2020 20:20
Bis (2-ethylhexyl) Adipate	ND	0.27	1	06/24/2020 20:20
Bis (2-ethylhexyl) Phthalate	ND	0.027	1	06/24/2020 20:20
4-Bromophenyl Phenyl Ether	ND	0.27	1	06/24/2020 20:20
Butylbenzyl Phthalate	ND	0.027	1	06/24/2020 20:20
4-Chloroaniline	ND	0.0027	1	06/24/2020 20:20
4-Chloro-3-methylphenol	ND	0.27	1	06/24/2020 20:20
2-Chloronaphthalene	ND	0.27	1	06/24/2020 20:20
2-Chlorophenol	ND	0.014	1	06/24/2020 20:20
4-Chlorophenyl Phenyl Ether	ND	0.27	1	06/24/2020 20:20
Chrysene	**0.0029**	0.0027	1	06/24/2020 20:20
Dibenzo (a,h) anthracene	ND	0.0027	1	06/24/2020 20:20
Dibenzofuran	ND	0.27	1	06/24/2020 20:20
Di-n-butyl Phthalate	ND	0.014	1	06/24/2020 20:20
1,2-Dichlorobenzene	ND	0.27	1	06/24/2020 20:20
1,3-Dichlorobenzene	ND	0.27	1	06/24/2020 20:20
1,4-Dichlorobenzene	ND	0.27	1	06/24/2020 20:20
3,3-Dichlorobenzidine	ND	0.0027	1	06/24/2020 20:20
2,4-Dichlorophenol	ND	0.014	1	06/24/2020 20:20
Diethyl Phthalate	ND	0.014	1	06/24/2020 20:20
2,4-Dimethylphenol	ND	0.27	1	06/24/2020 20:20
Dimethyl Phthalate	ND	0.0027	1	06/24/2020 20:20
4,6-Dinitro-2-methylphenol	ND	1.3	1	06/24/2020 20:20

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-4.0	2006A30-005B	Soil	06/19/2020 10:25	GC21 06242027.D	200596

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	0.27	1	06/24/2020 20:20
2,4-Dinitrotoluene	ND	0.014	1	06/24/2020 20:20
2,6-Dinitrotoluene	ND	0.014	1	06/24/2020 20:20
Di-n-octyl Phthalate	ND	0.014	1	06/24/2020 20:20
1,2-Diphenylhydrazine	ND	0.27	1	06/24/2020 20:20
Fluoranthene	**0.0017**	0.0014	1	06/24/2020 20:20
Fluorene	ND	0.0027	1	06/24/2020 20:20
Hexachlorobenzene	ND	0.0014	1	06/24/2020 20:20
Hexachlorobutadiene	ND	0.0027	1	06/24/2020 20:20
Hexachlorocyclopentadiene	ND	2.1	1	06/24/2020 20:20
Hexachloroethane	ND	0.014	1	06/24/2020 20:20
Indeno (1,2,3-cd) pyrene	ND	0.014	1	06/24/2020 20:20
Isophorone	ND	0.27	1	06/24/2020 20:20
2-Methylnaphthalene	ND	0.0027	1	06/24/2020 20:20
2-Methylphenol (o-Cresol)	ND	0.27	1	06/24/2020 20:20
3 & 4-Methylphenol (m,p-Cresol)	ND	0.27	1	06/24/2020 20:20
Naphthalene	ND	0.0014	1	06/24/2020 20:20
2-Nitroaniline	ND	1.3	1	06/24/2020 20:20
3-Nitroaniline	ND	1.3	1	06/24/2020 20:20
4-Nitroaniline	ND	1.3	1	06/24/2020 20:20
Nitrobenzene	ND	0.27	1	06/24/2020 20:20
2-Nitrophenol	ND	1.3	1	06/24/2020 20:20
4-Nitrophenol	ND	1.3	1	06/24/2020 20:20
N-Nitrosodiphenylamine	ND	0.27	1	06/24/2020 20:20
N-Nitrosodi-n-propylamine	ND	0.27	1	06/24/2020 20:20
Pentachlorophenol	ND	0.066	1	06/24/2020 20:20
Phenanthrene	ND	0.0053	1	06/24/2020 20:20
Phenol	ND	0.053	1	06/24/2020 20:20
Pyrene	ND	0.0027	1	06/24/2020 20:20
Pyridine	ND	0.27	1	06/24/2020 20:20
1,2,4-Trichlorobenzene	ND	0.27	1	06/24/2020 20:20
2,4,5-Trichlorophenol	ND	0.0027	1	06/24/2020 20:20
2,4,6-Trichlorophenol	ND	0.014	1	06/24/2020 20:20

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-4.0	**2006A30-005B**	**Soil**	**06/19/2020 10:25**	**GC21 06242027.D**	**200596**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
2-Fluorophenol	81	60-130		06/24/2020 20:20
Phenol-d5	82	60-130		06/24/2020 20:20
Nitrobenzene-d5	69	60-130		06/24/2020 20:20
2-Fluorobiphenyl	69	60-130		06/24/2020 20:20
2,4,6-Tribromophenol	84	50-130		06/24/2020 20:20
4-Terphenyl-d14	70	50-130		06/24/2020 20:20

Analyst(s): HD

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Analytical Report

Client: P & D Environmental
Date Received: 06/19/2020 14:24
Date Prepared: 06/23/2020-06/26/2020
Project: 0772; The Phoenix 801 Pine Street Oakland, CA

WorkOrder: 2006A30
Extraction Method: SW3550B/3640A
Analytical Method: SW8270C
Unit: mg/Kg-dry

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-2.0	2006A30-006B	Soil	06/19/2020 11:30	GC21 06242028.D	200596

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0014	1	06/24/2020 20:48
Acenaphthylene	ND	0.0014	1	06/24/2020 20:48
Acetochlor	ND	0.27	1	06/24/2020 20:48
Anthracene	ND	0.0014	1	06/24/2020 20:48
Benzidine	ND	1.3	1	06/24/2020 20:48
Benzo (a) anthracene	ND	0.014	1	06/24/2020 20:48
Benzo (a) pyrene	ND	0.0027	1	06/24/2020 20:48
Benzo (b) fluoranthene	ND	0.0067	1	06/24/2020 20:48
Benzo (g,h,i) perylene	ND	0.0027	1	06/24/2020 20:48
Benzo (k) fluoranthene	ND	0.0014	1	06/24/2020 20:48
Benzyl Alcohol	ND	1.3	1	06/24/2020 20:48
1,1-Biphenyl	ND	0.014	1	06/24/2020 20:48
Bis (2-chloroethoxy) Methane	ND	0.27	1	06/24/2020 20:48
Bis (2-chloroethyl) Ether	ND	0.0027	1	06/24/2020 20:48
Bis (2-chloroisopropyl) Ether	ND	0.014	1	06/24/2020 20:48
Bis (2-ethylhexyl) Adipate	ND	0.27	1	06/24/2020 20:48
Bis (2-ethylhexyl) Phthalate	ND	0.027	1	06/24/2020 20:48
4-Bromophenyl Phenyl Ether	ND	0.27	1	06/24/2020 20:48
Butylbenzyl Phthalate	ND	0.027	1	06/24/2020 20:48
4-Chloroaniline	ND	0.0027	1	06/24/2020 20:48
4-Chloro-3-methylphenol	ND	0.27	1	06/24/2020 20:48
2-Chloronaphthalene	ND	0.27	1	06/24/2020 20:48
2-Chlorophenol	ND	0.014	1	06/24/2020 20:48
4-Chlorophenyl Phenyl Ether	ND	0.27	1	06/24/2020 20:48
Chrysene	ND	0.0027	1	06/24/2020 20:48
Dibenzo (a,h) anthracene	ND	0.0027	1	06/24/2020 20:48
Dibenzofuran	ND	0.27	1	06/24/2020 20:48
Di-n-butyl Phthalate	ND	0.014	1	06/24/2020 20:48
1,2-Dichlorobenzene	ND	0.27	1	06/24/2020 20:48
1,3-Dichlorobenzene	ND	0.27	1	06/24/2020 20:48
1,4-Dichlorobenzene	ND	0.27	1	06/24/2020 20:48
3,3-Dichlorobenzidine	ND	0.0027	1	06/24/2020 20:48
2,4-Dichlorophenol	ND	0.014	1	06/24/2020 20:48
Diethyl Phthalate	ND	0.014	1	06/24/2020 20:48
2,4-Dimethylphenol	ND	0.27	1	06/24/2020 20:48
Dimethyl Phthalate	ND	0.0027	1	06/24/2020 20:48
4,6-Dinitro-2-methylphenol	ND	1.3	1	06/24/2020 20:48

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-2.0	2006A30-006B	Soil	06/19/2020 11:30	GC21 06242028.D	200596

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	0.27	1	06/24/2020 20:48
2,4-Dinitrotoluene	ND	0.014	1	06/24/2020 20:48
2,6-Dinitrotoluene	ND	0.014	1	06/24/2020 20:48
Di-n-octyl Phthalate	ND	0.014	1	06/24/2020 20:48
1,2-Diphenylhydrazine	ND	0.27	1	06/24/2020 20:48
Fluoranthene	ND	0.0014	1	06/24/2020 20:48
Fluorene	ND	0.0027	1	06/24/2020 20:48
Hexachlorobenzene	ND	0.0014	1	06/24/2020 20:48
Hexachlorobutadiene	ND	0.0027	1	06/24/2020 20:48
Hexachlorocyclopentadiene	ND	2.1	1	06/24/2020 20:48
Hexachloroethane	ND	0.014	1	06/24/2020 20:48
Indeno (1,2,3-cd) pyrene	ND	0.014	1	06/24/2020 20:48
Isophorone	ND	0.27	1	06/24/2020 20:48
2-Methylnaphthalene	ND	0.0027	1	06/24/2020 20:48
2-Methylphenol (o-Cresol)	ND	0.27	1	06/24/2020 20:48
3 & 4-Methylphenol (m,p-Cresol)	ND	0.27	1	06/24/2020 20:48
Naphthalene	ND	0.0014	1	06/24/2020 20:48
2-Nitroaniline	ND	1.3	1	06/24/2020 20:48
3-Nitroaniline	ND	1.3	1	06/24/2020 20:48
4-Nitroaniline	ND	1.3	1	06/24/2020 20:48
Nitrobenzene	ND	0.27	1	06/24/2020 20:48
2-Nitrophenol	ND	1.3	1	06/24/2020 20:48
4-Nitrophenol	ND	1.3	1	06/24/2020 20:48
N-Nitrosodiphenylamine	ND	0.27	1	06/24/2020 20:48
N-Nitrosodi-n-propylamine	ND	0.27	1	06/24/2020 20:48
Pentachlorophenol	ND	0.066	1	06/24/2020 20:48
Phenanthrene	ND	0.0053	1	06/24/2020 20:48
Phenol	ND	0.053	1	06/24/2020 20:48
Pyrene	ND	0.0027	1	06/24/2020 20:48
Pyridine	ND	0.27	1	06/24/2020 20:48
1,2,4-Trichlorobenzene	ND	0.27	1	06/24/2020 20:48
2,4,5-Trichlorophenol	ND	0.0027	1	06/24/2020 20:48
2,4,6-Trichlorophenol	ND	0.014	1	06/24/2020 20:48

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-2.0	2006A30-006B	Soil	06/19/2020 11:30	GC21 06242028.D	200596

Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)	Qualifiers	Limits		
2-Fluorophenol	89		60-130		06/24/2020 20:48
Phenol-d5	83		60-130		06/24/2020 20:48
Nitrobenzene-d5	69		60-130		06/24/2020 20:48
2-Fluorobiphenyl	67		60-130		06/24/2020 20:48
2,4,6-Tribromophenol	31	S	50-130		06/24/2020 20:48
4-Terphenyl-d14	66		50-130		06/24/2020 20:48

Analyst(s): HD

Analytical Comments: c2

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-4.0	2006A30-007B	Soil	06/19/2020 11:32	GC21 06242029.D	200596

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0014	1	06/24/2020 21:15
Acenaphthylene	ND	0.0014	1	06/24/2020 21:15
Acetochlor	ND	0.27	1	06/24/2020 21:15
Anthracene	ND	0.0014	1	06/24/2020 21:15
Benzidine	ND	1.3	1	06/24/2020 21:15
Benzo (a) anthracene	ND	0.014	1	06/24/2020 21:15
Benzo (a) pyrene	ND	0.0027	1	06/24/2020 21:15
Benzo (b) fluoranthene	ND	0.0067	1	06/24/2020 21:15
Benzo (g,h,i) perylene	ND	0.0027	1	06/24/2020 21:15
Benzo (k) fluoranthene	ND	0.0014	1	06/24/2020 21:15
Benzyl Alcohol	ND	1.3	1	06/24/2020 21:15
1,1-Biphenyl	ND	0.014	1	06/24/2020 21:15
Bis (2-chloroethoxy) Methane	ND	0.27	1	06/24/2020 21:15
Bis (2-chloroethyl) Ether	ND	0.0027	1	06/24/2020 21:15
Bis (2-chloroisopropyl) Ether	ND	0.014	1	06/24/2020 21:15
Bis (2-ethylhexyl) Adipate	ND	0.27	1	06/24/2020 21:15
Bis (2-ethylhexyl) Phthalate	ND	0.027	1	06/24/2020 21:15
4-Bromophenyl Phenyl Ether	ND	0.27	1	06/24/2020 21:15
Butylbenzyl Phthalate	ND	0.027	1	06/24/2020 21:15
4-Chloroaniline	ND	0.0027	1	06/24/2020 21:15
4-Chloro-3-methylphenol	ND	0.27	1	06/24/2020 21:15
2-Chloronaphthalene	ND	0.27	1	06/24/2020 21:15
2-Chlorophenol	ND	0.014	1	06/24/2020 21:15
4-Chlorophenyl Phenyl Ether	ND	0.27	1	06/24/2020 21:15
Chrysene	ND	0.0027	1	06/24/2020 21:15
Dibenzo (a,h) anthracene	ND	0.0027	1	06/24/2020 21:15
Dibenzofuran	ND	0.27	1	06/24/2020 21:15
Di-n-butyl Phthalate	ND	0.014	1	06/24/2020 21:15
1,2-Dichlorobenzene	ND	0.27	1	06/24/2020 21:15
1,3-Dichlorobenzene	ND	0.27	1	06/24/2020 21:15
1,4-Dichlorobenzene	ND	0.27	1	06/24/2020 21:15
3,3-Dichlorobenzidine	ND	0.0027	1	06/24/2020 21:15
2,4-Dichlorophenol	ND	0.014	1	06/24/2020 21:15
Diethyl Phthalate	ND	0.014	1	06/24/2020 21:15
2,4-Dimethylphenol	ND	0.27	1	06/24/2020 21:15
Dimethyl Phthalate	ND	0.0027	1	06/24/2020 21:15
4,6-Dinitro-2-methylphenol	ND	1.3	1	06/24/2020 21:15

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-4.0	2006A30-007B	Soil	06/19/2020 11:32	GC21 06242029.D	200596

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	0.27	1	06/24/2020 21:15
2,4-Dinitrotoluene	ND	0.014	1	06/24/2020 21:15
2,6-Dinitrotoluene	ND	0.014	1	06/24/2020 21:15
Di-n-octyl Phthalate	ND	0.014	1	06/24/2020 21:15
1,2-Diphenylhydrazine	ND	0.27	1	06/24/2020 21:15
Fluoranthene	ND	0.0014	1	06/24/2020 21:15
Fluorene	ND	0.0027	1	06/24/2020 21:15
Hexachlorobenzene	ND	0.0014	1	06/24/2020 21:15
Hexachlorobutadiene	ND	0.0027	1	06/24/2020 21:15
Hexachlorocyclopentadiene	ND	2.1	1	06/24/2020 21:15
Hexachloroethane	ND	0.014	1	06/24/2020 21:15
Indeno (1,2,3-cd) pyrene	ND	0.014	1	06/24/2020 21:15
Isophorone	ND	0.27	1	06/24/2020 21:15
2-Methylnaphthalene	ND	0.0027	1	06/24/2020 21:15
2-Methylphenol (o-Cresol)	ND	0.27	1	06/24/2020 21:15
3 & 4-Methylphenol (m,p-Cresol)	ND	0.27	1	06/24/2020 21:15
Naphthalene	ND	0.0014	1	06/24/2020 21:15
2-Nitroaniline	ND	1.3	1	06/24/2020 21:15
3-Nitroaniline	ND	1.3	1	06/24/2020 21:15
4-Nitroaniline	ND	1.3	1	06/24/2020 21:15
Nitrobenzene	ND	0.27	1	06/24/2020 21:15
2-Nitrophenol	ND	1.3	1	06/24/2020 21:15
4-Nitrophenol	ND	1.3	1	06/24/2020 21:15
N-Nitrosodiphenylamine	ND	0.27	1	06/24/2020 21:15
N-Nitrosodi-n-propylamine	ND	0.27	1	06/24/2020 21:15
Pentachlorophenol	ND	0.066	1	06/24/2020 21:15
Phenanthrene	ND	0.0053	1	06/24/2020 21:15
Phenol	ND	0.053	1	06/24/2020 21:15
Pyrene	ND	0.0027	1	06/24/2020 21:15
Pyridine	ND	0.27	1	06/24/2020 21:15
1,2,4-Trichlorobenzene	ND	0.27	1	06/24/2020 21:15
2,4,5-Trichlorophenol	ND	0.0027	1	06/24/2020 21:15
2,4,6-Trichlorophenol	ND	0.014	1	06/24/2020 21:15

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Analytical Report

Client: P & D Environmental
Date Received: 06/19/2020 14:24
Date Prepared: 06/23/2020-06/26/2020
Project: 0772; The Phoenix 801 Pine Street Oakland, CA

WorkOrder: 2006A30
Extraction Method: SW3550B/3640A
Analytical Method: SW8270C
Unit: mg/Kg-dry

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-4.0	**2006A30-007B**	**Soil**	**06/19/2020 11:32**	**GC21 06242029.D**	**200596**

Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)	Qualifiers	Limits		
2-Fluorophenol	89		60-130		06/24/2020 21:15
Phenol-d5	85		60-130		06/24/2020 21:15
Nitrobenzene-d5	74		60-130		06/24/2020 21:15
2-Fluorobiphenyl	69		60-130		06/24/2020 21:15
2,4,6-Tribromophenol	37	S	50-130		06/24/2020 21:15
4-Terphenyl-d14	65		50-130		06/24/2020 21:15

Analyst(s): HD

Analytical Comments: c2

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-2.0	2006A30-008B	Soil	06/19/2020 11:57	GC21 06242030.D	200596

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0014	1	06/24/2020 21:43
Acenaphthylene	ND	0.0014	1	06/24/2020 21:43
Acetochlor	ND	0.27	1	06/24/2020 21:43
Anthracene	ND	0.0014	1	06/24/2020 21:43
Benzidine	ND	1.3	1	06/24/2020 21:43
Benzo (a) anthracene	ND	0.014	1	06/24/2020 21:43
Benzo (a) pyrene	ND	0.0027	1	06/24/2020 21:43
Benzo (b) fluoranthene	ND	0.0067	1	06/24/2020 21:43
Benzo (g,h,i) perylene	ND	0.0027	1	06/24/2020 21:43
Benzo (k) fluoranthene	ND	0.0014	1	06/24/2020 21:43
Benzyl Alcohol	ND	1.3	1	06/24/2020 21:43
1,1-Biphenyl	ND	0.014	1	06/24/2020 21:43
Bis (2-chloroethoxy) Methane	ND	0.27	1	06/24/2020 21:43
Bis (2-chloroethyl) Ether	ND	0.0027	1	06/24/2020 21:43
Bis (2-chloroisopropyl) Ether	ND	0.014	1	06/24/2020 21:43
Bis (2-ethylhexyl) Adipate	ND	0.27	1	06/24/2020 21:43
Bis (2-ethylhexyl) Phthalate	ND	0.027	1	06/24/2020 21:43
4-Bromophenyl Phenyl Ether	ND	0.27	1	06/24/2020 21:43
Butylbenzyl Phthalate	ND	0.027	1	06/24/2020 21:43
4-Chloroaniline	ND	0.0027	1	06/24/2020 21:43
4-Chloro-3-methylphenol	ND	0.27	1	06/24/2020 21:43
2-Chloronaphthalene	ND	0.27	1	06/24/2020 21:43
2-Chlorophenol	ND	0.014	1	06/24/2020 21:43
4-Chlorophenyl Phenyl Ether	ND	0.27	1	06/24/2020 21:43
Chrysene	ND	0.0027	1	06/24/2020 21:43
Dibenzo (a,h) anthracene	ND	0.0027	1	06/24/2020 21:43
Dibenzofuran	ND	0.27	1	06/24/2020 21:43
Di-n-butyl Phthalate	ND	0.014	1	06/24/2020 21:43
1,2-Dichlorobenzene	ND	0.27	1	06/24/2020 21:43
1,3-Dichlorobenzene	ND	0.27	1	06/24/2020 21:43
1,4-Dichlorobenzene	ND	0.27	1	06/24/2020 21:43
3,3-Dichlorobenzidine	ND	0.0027	1	06/24/2020 21:43
2,4-Dichlorophenol	ND	0.014	1	06/24/2020 21:43
Diethyl Phthalate	ND	0.014	1	06/24/2020 21:43
2,4-Dimethylphenol	ND	0.27	1	06/24/2020 21:43
Dimethyl Phthalate	ND	0.0027	1	06/24/2020 21:43
4,6-Dinitro-2-methylphenol	ND	1.3	1	06/24/2020 21:43

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-2.0	2006A30-008B	Soil	06/19/2020 11:57	GC21 06242030.D	200596

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	0.27	1	06/24/2020 21:43
2,4-Dinitrotoluene	ND	0.014	1	06/24/2020 21:43
2,6-Dinitrotoluene	ND	0.014	1	06/24/2020 21:43
Di-n-octyl Phthalate	ND	0.014	1	06/24/2020 21:43
1,2-Diphenylhydrazine	ND	0.27	1	06/24/2020 21:43
Fluoranthene	ND	0.0014	1	06/24/2020 21:43
Fluorene	ND	0.0027	1	06/24/2020 21:43
Hexachlorobenzene	ND	0.0014	1	06/24/2020 21:43
Hexachlorobutadiene	ND	0.0027	1	06/24/2020 21:43
Hexachlorocyclopentadiene	ND	2.1	1	06/24/2020 21:43
Hexachloroethane	ND	0.014	1	06/24/2020 21:43
Indeno (1,2,3-cd) pyrene	ND	0.014	1	06/24/2020 21:43
Isophorone	ND	0.27	1	06/24/2020 21:43
2-Methylnaphthalene	ND	0.0027	1	06/24/2020 21:43
2-Methylphenol (o-Cresol)	ND	0.27	1	06/24/2020 21:43
3 & 4-Methylphenol (m,p-Cresol)	ND	0.27	1	06/24/2020 21:43
Naphthalene	ND	0.0014	1	06/24/2020 21:43
2-Nitroaniline	ND	1.3	1	06/24/2020 21:43
3-Nitroaniline	ND	1.3	1	06/24/2020 21:43
4-Nitroaniline	ND	1.3	1	06/24/2020 21:43
Nitrobenzene	ND	0.27	1	06/24/2020 21:43
2-Nitrophenol	ND	1.3	1	06/24/2020 21:43
4-Nitrophenol	ND	1.3	1	06/24/2020 21:43
N-Nitrosodiphenylamine	ND	0.27	1	06/24/2020 21:43
N-Nitrosodi-n-propylamine	ND	0.27	1	06/24/2020 21:43
Pentachlorophenol	ND	0.066	1	06/24/2020 21:43
Phenanthrene	ND	0.0053	1	06/24/2020 21:43
Phenol	ND	0.053	1	06/24/2020 21:43
Pyrene	ND	0.0027	1	06/24/2020 21:43
Pyridine	ND	0.27	1	06/24/2020 21:43
1,2,4-Trichlorobenzene	ND	0.27	1	06/24/2020 21:43
2,4,5-Trichlorophenol	ND	0.0027	1	06/24/2020 21:43
2,4,6-Trichlorophenol	ND	0.014	1	06/24/2020 21:43

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-2.0	2006A30-008B	Soil	06/19/2020 11:57	GC21 06242030.D	200596

Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)	Qualifiers	Limits		
2-Fluorophenol	92		60-130		06/24/2020 21:43
Phenol-d5	80		60-130		06/24/2020 21:43
Nitrobenzene-d5	68		60-130		06/24/2020 21:43
2-Fluorobiphenyl	71		60-130		06/24/2020 21:43
2,4,6-Tribromophenol	36	S	50-130		06/24/2020 21:43
4-Terphenyl-d14	65		50-130		06/24/2020 21:43

Analyst(s): HD

Analytical Comments: c2

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-4.0	2006A30-009B	Soil	06/19/2020 12:04	GC21 06242031.D	200596

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0014	1	06/24/2020 22:10
Acenaphthylene	ND	0.0014	1	06/24/2020 22:10
Acetochlor	ND	0.27	1	06/24/2020 22:10
Anthracene	ND	0.0014	1	06/24/2020 22:10
Benzidine	ND	1.3	1	06/24/2020 22:10
Benzo (a) anthracene	ND	0.014	1	06/24/2020 22:10
Benzo (a) pyrene	ND	0.0027	1	06/24/2020 22:10
Benzo (b) fluoranthene	ND	0.0067	1	06/24/2020 22:10
Benzo (g,h,i) perylene	ND	0.0027	1	06/24/2020 22:10
Benzo (k) fluoranthene	ND	0.0014	1	06/24/2020 22:10
Benzyl Alcohol	ND	1.3	1	06/24/2020 22:10
1,1-Biphenyl	ND	0.014	1	06/24/2020 22:10
Bis (2-chloroethoxy) Methane	ND	0.27	1	06/24/2020 22:10
Bis (2-chloroethyl) Ether	ND	0.0027	1	06/24/2020 22:10
Bis (2-chloroisopropyl) Ether	ND	0.014	1	06/24/2020 22:10
Bis (2-ethylhexyl) Adipate	ND	0.27	1	06/24/2020 22:10
Bis (2-ethylhexyl) Phthalate	ND	0.027	1	06/24/2020 22:10
4-Bromophenyl Phenyl Ether	ND	0.27	1	06/24/2020 22:10
Butylbenzyl Phthalate	ND	0.027	1	06/24/2020 22:10
4-Chloroaniline	ND	0.0027	1	06/24/2020 22:10
4-Chloro-3-methylphenol	ND	0.27	1	06/24/2020 22:10
2-Chloronaphthalene	ND	0.27	1	06/24/2020 22:10
2-Chlorophenol	ND	0.014	1	06/24/2020 22:10
4-Chlorophenyl Phenyl Ether	ND	0.27	1	06/24/2020 22:10
Chrysene	ND	0.0027	1	06/24/2020 22:10
Dibenzo (a,h) anthracene	ND	0.0027	1	06/24/2020 22:10
Dibenzofuran	ND	0.27	1	06/24/2020 22:10
Di-n-butyl Phthalate	ND	0.014	1	06/24/2020 22:10
1,2-Dichlorobenzene	ND	0.27	1	06/24/2020 22:10
1,3-Dichlorobenzene	ND	0.27	1	06/24/2020 22:10
1,4-Dichlorobenzene	ND	0.27	1	06/24/2020 22:10
3,3-Dichlorobenzidine	ND	0.0027	1	06/24/2020 22:10
2,4-Dichlorophenol	ND	0.014	1	06/24/2020 22:10
Diethyl Phthalate	ND	0.014	1	06/24/2020 22:10
2,4-Dimethylphenol	ND	0.27	1	06/24/2020 22:10
Dimethyl Phthalate	ND	0.0027	1	06/24/2020 22:10
4,6-Dinitro-2-methylphenol	ND	1.3	1	06/24/2020 22:10

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-4.0	2006A30-009B	Soil	06/19/2020 12:04	GC21 06242031.D	200596

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	0.27	1	06/24/2020 22:10
2,4-Dinitrotoluene	ND	0.014	1	06/24/2020 22:10
2,6-Dinitrotoluene	ND	0.014	1	06/24/2020 22:10
Di-n-octyl Phthalate	ND	0.014	1	06/24/2020 22:10
1,2-Diphenylhydrazine	ND	0.27	1	06/24/2020 22:10
Fluoranthene	ND	0.0014	1	06/24/2020 22:10
Fluorene	ND	0.0027	1	06/24/2020 22:10
Hexachlorobenzene	ND	0.0014	1	06/24/2020 22:10
Hexachlorobutadiene	ND	0.0027	1	06/24/2020 22:10
Hexachlorocyclopentadiene	ND	2.1	1	06/24/2020 22:10
Hexachloroethane	ND	0.014	1	06/24/2020 22:10
Indeno (1,2,3-cd) pyrene	ND	0.014	1	06/24/2020 22:10
Isophorone	ND	0.27	1	06/24/2020 22:10
2-Methylnaphthalene	ND	0.0027	1	06/24/2020 22:10
2-Methylphenol (o-Cresol)	ND	0.27	1	06/24/2020 22:10
3 & 4-Methylphenol (m,p-Cresol)	ND	0.27	1	06/24/2020 22:10
Naphthalene	ND	0.0014	1	06/24/2020 22:10
2-Nitroaniline	ND	1.3	1	06/24/2020 22:10
3-Nitroaniline	ND	1.3	1	06/24/2020 22:10
4-Nitroaniline	ND	1.3	1	06/24/2020 22:10
Nitrobenzene	ND	0.27	1	06/24/2020 22:10
2-Nitrophenol	ND	1.3	1	06/24/2020 22:10
4-Nitrophenol	ND	1.3	1	06/24/2020 22:10
N-Nitrosodiphenylamine	ND	0.27	1	06/24/2020 22:10
N-Nitrosodi-n-propylamine	ND	0.27	1	06/24/2020 22:10
Pentachlorophenol	ND	0.066	1	06/24/2020 22:10
Phenanthrene	ND	0.0053	1	06/24/2020 22:10
Phenol	ND	0.053	1	06/24/2020 22:10
Pyrene	ND	0.0027	1	06/24/2020 22:10
Pyridine	ND	0.27	1	06/24/2020 22:10
1,2,4-Trichlorobenzene	ND	0.27	1	06/24/2020 22:10
2,4,5-Trichlorophenol	ND	0.0027	1	06/24/2020 22:10
2,4,6-Trichlorophenol	ND	0.014	1	06/24/2020 22:10

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B/3640A
Date Prepared:	06/23/2020-06/26/2020	**Analytical Method:**	SW8270C
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-4.0	**2006A30-009B**	**Soil**	**06/19/2020 12:04**	**GC21 06242031.D**	**200596**

Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)	Qualifiers	Limits		
2-Fluorophenol	100		60-130		06/24/2020 22:10
Phenol-d5	94		60-130		06/24/2020 22:10
Nitrobenzene-d5	80		60-130		06/24/2020 22:10
2-Fluorobiphenyl	78		60-130		06/24/2020 22:10
2,4,6-Tribromophenol	40	S	50-130		06/24/2020 22:10
4-Terphenyl-d14	76		50-130		06/24/2020 22:10

Analyst(s): HD

Analytical Comments: c2

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3050B
Date Prepared:	06/22/2020-06/23/2020	**Analytical Method:**	SW6020
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-3.0	**2006A30-001B**	**Soil**	**06/19/2020 09:35**	**ICP-MS5 281SMPL.d**	**200520**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	06/23/2020 21:32
Arsenic	**2.0**	0.50	1	06/23/2020 21:32
Barium	**50**	5.0	1	06/23/2020 21:32
Beryllium	ND	0.50	1	06/23/2020 21:32
Cadmium	ND	0.50	1	06/23/2020 21:32
Chromium	**36**	0.50	1	06/23/2020 21:32
Cobalt	**3.6**	0.50	1	06/23/2020 21:32
Copper	**8.7**	0.50	1	06/23/2020 21:32
Lead	**100**	0.50	1	06/23/2020 21:32
Mercury	ND	0.050	1	06/23/2020 21:32
Molybdenum	ND	0.50	1	06/23/2020 21:32
Nickel	**21**	0.50	1	06/23/2020 21:32
Selenium	ND	0.50	1	06/23/2020 21:32
Silver	ND	0.50	1	06/23/2020 21:32
Thallium	ND	0.50	1	06/23/2020 21:32
Vanadium	**26**	0.50	1	06/23/2020 21:32
Zinc	**32**	5.0	1	06/23/2020 21:32

Surrogates	REC (%)	Limits	
Terbium	100	70-130	06/23/2020 21:32

Analyst(s): JAG

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3050B
Date Prepared:	06/22/2020-06/23/2020	**Analytical Method:**	SW6020
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-5.0	**2006A30-003B**	**Soil**	**06/19/2020 10:50**	**ICP-MS4 181SMPL.d**	**200432**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	06/24/2020 14:15
Arsenic	**2.1**	0.50	1	06/24/2020 14:15
Barium	**45**	5.0	1	06/24/2020 14:15
Beryllium	ND	0.50	1	06/24/2020 14:15
Cadmium	ND	0.50	1	06/24/2020 14:15
Chromium	**43**	0.50	1	06/24/2020 14:15
Cobalt	**3.1**	0.50	1	06/24/2020 14:15
Copper	**7.1**	0.50	1	06/24/2020 14:15
Lead	**5.0**	0.50	1	06/24/2020 14:15
Mercury	ND	0.050	1	06/24/2020 14:15
Molybdenum	ND	0.50	1	06/24/2020 14:15
Nickel	**19**	0.50	1	06/24/2020 14:15
Selenium	ND	0.50	1	06/24/2020 14:15
Silver	ND	0.50	1	06/24/2020 14:15
Thallium	ND	0.50	1	06/24/2020 14:15
Vanadium	**26**	0.50	1	06/24/2020 14:15
Zinc	**21**	5.0	1	06/24/2020 14:15

Surrogates	REC (%)	Limits	
Terbium	106	70-130	06/24/2020 14:15

Analyst(s): MIG

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3050B
Date Prepared:	06/22/2020-06/23/2020	**Analytical Method:**	SW6020
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-2.0	**2006A30-004B**	**Soil**	**06/19/2020 10:20**	**ICP-MS4 179SMPL.d**	**200432**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	06/23/2020 13:57
Arsenic	**1.9**	0.50	1	06/23/2020 13:57
Barium	**70**	5.0	1	06/23/2020 13:57
Beryllium	ND	0.50	1	06/23/2020 13:57
Cadmium	ND	0.50	1	06/23/2020 13:57
Chromium	**32**	0.50	1	06/23/2020 13:57
Cobalt	**4.2**	0.50	1	06/23/2020 13:57
Copper	**7.2**	0.50	1	06/23/2020 13:57
Lead	**6.2**	0.50	1	06/23/2020 13:57
Mercury	ND	0.050	1	06/23/2020 13:57
Molybdenum	ND	0.50	1	06/23/2020 13:57
Nickel	**21**	0.50	1	06/23/2020 13:57
Selenium	ND	0.50	1	06/23/2020 13:57
Silver	ND	0.50	1	06/23/2020 13:57
Thallium	ND	0.50	1	06/23/2020 13:57
Vanadium	**25**	0.50	1	06/23/2020 13:57
Zinc	**22**	5.0	1	06/23/2020 13:57

Surrogates	REC (%)	Limits	
Terbium	109	70-130	06/23/2020 13:57

Analyst(s): JAG

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3050B
Date Prepared:	06/22/2020-06/23/2020	**Analytical Method:**	SW6020
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-4.0	**2006A30-005B**	**Soil**	**06/19/2020 10:25**	**ICP-MS4 180SMPL.d**	**200432**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	06/23/2020 14:01
Arsenic	**2.2**	0.50	1	06/23/2020 14:01
Barium	**62**	5.0	1	06/23/2020 14:01
Beryllium	ND	0.50	1	06/23/2020 14:01
Cadmium	ND	0.50	1	06/23/2020 14:01
Chromium	**34**	0.50	1	06/23/2020 14:01
Cobalt	**4.4**	0.50	1	06/23/2020 14:01
Copper	**8.0**	0.50	1	06/23/2020 14:01
Lead	**53**	0.50	1	06/23/2020 14:01
Mercury	ND	0.050	1	06/23/2020 14:01
Molybdenum	ND	0.50	1	06/23/2020 14:01
Nickel	**23**	0.50	1	06/23/2020 14:01
Selenium	ND	0.50	1	06/23/2020 14:01
Silver	ND	0.50	1	06/23/2020 14:01
Thallium	ND	0.50	1	06/23/2020 14:01
Vanadium	**27**	0.50	1	06/23/2020 14:01
Zinc	**29**	5.0	1	06/23/2020 14:01

Surrogates	REC (%)	Limits	
Terbium	106	70-130	06/23/2020 14:01

Analyst(s): JAG

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3050B
Date Prepared:	06/22/2020-06/23/2020	**Analytical Method:**	SW6020
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-2.0	**2006A30-006B**	**Soil**	**06/19/2020 11:30**	**ICP-MS4 219SMPL.d**	**200432**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	06/23/2020 16:28
Arsenic	**1.9**	0.50	1	06/23/2020 16:28
Barium	**58**	5.0	1	06/23/2020 16:28
Beryllium	ND	0.50	1	06/23/2020 16:28
Cadmium	ND	0.50	1	06/23/2020 16:28
Chromium	**30**	0.50	1	06/23/2020 16:28
Cobalt	**3.6**	0.50	1	06/23/2020 16:28
Copper	**6.5**	0.50	1	06/23/2020 16:28
Lead	**2.6**	0.50	1	06/23/2020 16:28
Mercury	ND	0.050	1	06/23/2020 16:28
Molybdenum	ND	0.50	1	06/23/2020 16:28
Nickel	**20**	0.50	1	06/23/2020 16:28
Selenium	ND	0.50	1	06/23/2020 16:28
Silver	ND	0.50	1	06/23/2020 16:28
Thallium	ND	0.50	1	06/23/2020 16:28
Vanadium	**24**	0.50	1	06/23/2020 16:28
Zinc	**19**	5.0	1	06/23/2020 16:28

Surrogates	REC (%)	Limits	
Terbium	102	70-130	06/23/2020 16:28

Analyst(s): MIG

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3050B
Date Prepared:	06/22/2020-06/23/2020	**Analytical Method:**	SW6020
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-4.0	**2006A30-007B**	**Soil**	**06/19/2020 11:32**	**ICP-MS4 209SMPL.d**	**200432**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	06/26/2020 14:38
Arsenic	**2.0**	0.50	1	06/26/2020 14:38
Barium	**61**	5.0	1	06/26/2020 14:38
Beryllium	ND	0.50	1	06/26/2020 14:38
Cadmium	ND	0.50	1	06/26/2020 14:38
Chromium	**30**	0.50	1	06/26/2020 14:38
Cobalt	**4.2**	0.50	1	06/26/2020 14:38
Copper	**6.8**	0.50	1	06/26/2020 14:38
Lead	**2.3**	0.50	1	06/26/2020 14:38
Mercury	ND	0.050	1	06/26/2020 14:38
Molybdenum	ND	0.50	1	06/26/2020 14:38
Nickel	**21**	0.50	1	06/26/2020 14:38
Selenium	ND	0.50	1	06/26/2020 14:38
Silver	ND	0.50	1	06/26/2020 14:38
Thallium	ND	0.50	1	06/26/2020 14:38
Vanadium	**25**	0.50	1	06/26/2020 14:38
Zinc	**17**	5.0	1	06/26/2020 14:38

Surrogates	REC (%)	Limits	
Terbium	105	70-130	06/26/2020 14:38

Analyst(s): WV

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3050B
Date Prepared:	06/22/2020-06/23/2020	**Analytical Method:**	SW6020
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-2.0	**2006A30-008B**	**Soil**	**06/19/2020 11:57**	**ICP-MS4 220SMPL.d**	**200432**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	06/23/2020 16:32
Arsenic	**2.0**	0.50	1	06/23/2020 16:32
Barium	**75**	5.0	1	06/23/2020 16:32
Beryllium	ND	0.50	1	06/23/2020 16:32
Cadmium	ND	0.50	1	06/23/2020 16:32
Chromium	**31**	0.50	1	06/23/2020 16:32
Cobalt	**3.9**	0.50	1	06/23/2020 16:32
Copper	**7.2**	0.50	1	06/23/2020 16:32
Lead	**2.4**	0.50	1	06/23/2020 16:32
Mercury	ND	0.050	1	06/23/2020 16:32
Molybdenum	ND	0.50	1	06/23/2020 16:32
Nickel	**20**	0.50	1	06/23/2020 16:32
Selenium	ND	0.50	1	06/23/2020 16:32
Silver	ND	0.50	1	06/23/2020 16:32
Thallium	ND	0.50	1	06/23/2020 16:32
Vanadium	**24**	0.50	1	06/23/2020 16:32
Zinc	**21**	5.0	1	06/23/2020 16:32

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	105	70-130	06/23/2020 16:32

Analyst(s): MIG

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3050B
Date Prepared:	06/22/2020-06/23/2020	**Analytical Method:**	SW6020
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-4.0	**2006A30-009B**	**Soil**	**06/19/2020 12:04**	**ICP-MS4 232SMPL.d**	**200432**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	06/23/2020 17:17
Arsenic	**2.3**	0.50	1	06/23/2020 17:17
Barium	**50**	5.0	1	06/23/2020 17:17
Beryllium	ND	0.50	1	06/23/2020 17:17
Cadmium	ND	0.50	1	06/23/2020 17:17
Chromium	**31**	0.50	1	06/23/2020 17:17
Cobalt	**4.3**	0.50	1	06/23/2020 17:17
Copper	**6.9**	0.50	1	06/23/2020 17:17
Lead	**2.6**	0.50	1	06/23/2020 17:17
Mercury	ND	0.050	1	06/23/2020 17:17
Molybdenum	ND	0.50	1	06/23/2020 17:17
Nickel	**21**	0.50	1	06/23/2020 17:17
Selenium	ND	0.50	1	06/23/2020 17:17
Silver	ND	0.50	1	06/23/2020 17:17
Thallium	ND	0.50	1	06/23/2020 17:17
Vanadium	**26**	0.50	1	06/23/2020 17:17
Zinc	**19**	5.0	1	06/23/2020 17:17

Surrogates	REC (%)	Limits	
Terbium	104	70-130	06/23/2020 17:17

Analyst(s): WV

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3050B
Date Prepared:	06/22/2020-06/23/2020	**Analytical Method:**	SW6020
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

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CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-3.0	**2006A30-001B**	**Soil**	**06/19/2020 09:35**	**ICP-MS5 281SMPL.d**	**200520**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.54	1	06/23/2020 21:32
Arsenic	**2.2**	0.54	1	06/23/2020 21:32
Barium	**54**	5.4	1	06/23/2020 21:32
Beryllium	ND	0.54	1	06/23/2020 21:32
Cadmium	ND	0.54	1	06/23/2020 21:32
Chromium	**39**	0.54	1	06/23/2020 21:32
Cobalt	**3.9**	0.54	1	06/23/2020 21:32
Copper	**9.4**	0.54	1	06/23/2020 21:32
Lead	**110**	0.54	1	06/23/2020 21:32
Mercury	ND	0.054	1	06/23/2020 21:32
Molybdenum	ND	0.54	1	06/23/2020 21:32
Nickel	**23**	0.54	1	06/23/2020 21:32
Selenium	ND	0.54	1	06/23/2020 21:32
Silver	ND	0.54	1	06/23/2020 21:32
Thallium	ND	0.54	1	06/23/2020 21:32
Vanadium	**28**	0.54	1	06/23/2020 21:32
Zinc	**34**	5.4	1	06/23/2020 21:32

Surrogates	REC (%)	Limits	
Terbium	100	70-130	06/23/2020 21:32

Analyst(s): JAG

(Cont.)

Analytical Report

Client: P & D Environmental
Date Received: 06/19/2020 14:24
Date Prepared: 06/22/2020-06/23/2020
Project: 0772; The Phoenix 801 Pine Street Oakland, CA

WorkOrder: 2006A30
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg-dry

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-5.0	**2006A30-003B**	**Soil**	**06/19/2020 10:50**	**ICP-MS4 181SMPL.d**	**200432**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.54	1	06/24/2020 14:15
Arsenic	**2.3**	0.54	1	06/24/2020 14:15
Barium	**48**	5.4	1	06/24/2020 14:15
Beryllium	ND	0.54	1	06/24/2020 14:15
Cadmium	ND	0.54	1	06/24/2020 14:15
Chromium	**46**	0.54	1	06/24/2020 14:15
Cobalt	**3.3**	0.54	1	06/24/2020 14:15
Copper	**7.6**	0.54	1	06/24/2020 14:15
Lead	**5.4**	0.54	1	06/24/2020 14:15
Mercury	ND	0.054	1	06/24/2020 14:15
Molybdenum	ND	0.54	1	06/24/2020 14:15
Nickel	**20**	0.54	1	06/24/2020 14:15
Selenium	ND	0.54	1	06/24/2020 14:15
Silver	ND	0.54	1	06/24/2020 14:15
Thallium	ND	0.54	1	06/24/2020 14:15
Vanadium	**28**	0.54	1	06/24/2020 14:15
Zinc	**23**	5.4	1	06/24/2020 14:15

Surrogates	REC (%)	Limits		
Terbium	106	70-130		06/24/2020 14:15

Analyst(s): MIG

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3050B
Date Prepared:	06/22/2020-06/23/2020	**Analytical Method:**	SW6020
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-2.0	**2006A30-004B**	**Soil**	**06/19/2020 10:20**	**ICP-MS4 179SMPL.d**	**200432**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.53	1	06/23/2020 13:57
Arsenic	**2.0**	0.53	1	06/23/2020 13:57
Barium	**74**	5.3	1	06/23/2020 13:57
Beryllium	ND	0.53	1	06/23/2020 13:57
Cadmium	ND	0.53	1	06/23/2020 13:57
Chromium	**34**	0.53	1	06/23/2020 13:57
Cobalt	**4.5**	0.53	1	06/23/2020 13:57
Copper	**7.7**	0.53	1	06/23/2020 13:57
Lead	**6.6**	0.53	1	06/23/2020 13:57
Mercury	ND	0.053	1	06/23/2020 13:57
Molybdenum	ND	0.53	1	06/23/2020 13:57
Nickel	**22**	0.53	1	06/23/2020 13:57
Selenium	ND	0.53	1	06/23/2020 13:57
Silver	ND	0.53	1	06/23/2020 13:57
Thallium	ND	0.53	1	06/23/2020 13:57
Vanadium	**27**	0.53	1	06/23/2020 13:57
Zinc	**23**	5.3	1	06/23/2020 13:57

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	109	70-130	06/23/2020 13:57

Analyst(s): JAG

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3050B
Date Prepared:	06/22/2020-06/23/2020	**Analytical Method:**	SW6020
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-4.0	**2006A30-005B**	**Soil**	**06/19/2020 10:25**	**ICP-MS4 180SMPL.d**	**200432**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.53	1	06/23/2020 14:01
Arsenic	**2.3**	0.53	1	06/23/2020 14:01
Barium	**66**	5.3	1	06/23/2020 14:01
Beryllium	ND	0.53	1	06/23/2020 14:01
Cadmium	ND	0.53	1	06/23/2020 14:01
Chromium	**36**	0.53	1	06/23/2020 14:01
Cobalt	**4.7**	0.53	1	06/23/2020 14:01
Copper	**8.5**	0.53	1	06/23/2020 14:01
Lead	**56**	0.53	1	06/23/2020 14:01
Mercury	ND	0.053	1	06/23/2020 14:01
Molybdenum	ND	0.53	1	06/23/2020 14:01
Nickel	**24**	0.53	1	06/23/2020 14:01
Selenium	ND	0.53	1	06/23/2020 14:01
Silver	ND	0.53	1	06/23/2020 14:01
Thallium	ND	0.53	1	06/23/2020 14:01
Vanadium	**29**	0.53	1	06/23/2020 14:01
Zinc	**31**	5.3	1	06/23/2020 14:01

Surrogates	REC (%)	Limits	
Terbium	106	70-130	06/23/2020 14:01

Analyst(s): JAG

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3050B
Date Prepared:	06/22/2020-06/23/2020	**Analytical Method:**	SW6020
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-2.0	**2006A30-006B**	**Soil**	**06/19/2020 11:30**	**ICP-MS4 219SMPL.d**	**200432**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.53	1	06/23/2020 16:28
Arsenic	**2.0**	0.53	1	06/23/2020 16:28
Barium	**62**	5.3	1	06/23/2020 16:28
Beryllium	ND	0.53	1	06/23/2020 16:28
Cadmium	ND	0.53	1	06/23/2020 16:28
Chromium	**32**	0.53	1	06/23/2020 16:28
Cobalt	**3.8**	0.53	1	06/23/2020 16:28
Copper	**6.9**	0.53	1	06/23/2020 16:28
Lead	**2.8**	0.53	1	06/23/2020 16:28
Mercury	ND	0.053	1	06/23/2020 16:28
Molybdenum	ND	0.53	1	06/23/2020 16:28
Nickel	**21**	0.53	1	06/23/2020 16:28
Selenium	ND	0.53	1	06/23/2020 16:28
Silver	ND	0.53	1	06/23/2020 16:28
Thallium	ND	0.53	1	06/23/2020 16:28
Vanadium	**25**	0.53	1	06/23/2020 16:28
Zinc	**20**	5.3	1	06/23/2020 16:28

Surrogates	REC (%)	Limits	
Terbium	102	70-130	06/23/2020 16:28

Analyst(s): MIG

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3050B
Date Prepared:	06/22/2020-06/23/2020	**Analytical Method:**	SW6020
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-4.0	**2006A30-007B**	**Soil**	**06/19/2020 11:32**	**ICP-MS4 209SMPL.d**	**200432**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.53	1	06/26/2020 14:38
Arsenic	**2.1**	0.53	1	06/26/2020 14:38
Barium	**65**	5.3	1	06/26/2020 14:38
Beryllium	ND	0.53	1	06/26/2020 14:38
Cadmium	ND	0.53	1	06/26/2020 14:38
Chromium	**32**	0.53	1	06/26/2020 14:38
Cobalt	**4.5**	0.53	1	06/26/2020 14:38
Copper	**7.2**	0.53	1	06/26/2020 14:38
Lead	**2.4**	0.53	1	06/26/2020 14:38
Mercury	ND	0.053	1	06/26/2020 14:38
Molybdenum	ND	0.53	1	06/26/2020 14:38
Nickel	**22**	0.53	1	06/26/2020 14:38
Selenium	ND	0.53	1	06/26/2020 14:38
Silver	ND	0.53	1	06/26/2020 14:38
Thallium	ND	0.53	1	06/26/2020 14:38
Vanadium	**27**	0.53	1	06/26/2020 14:38
Zinc	**18**	5.3	1	06/26/2020 14:38

Surrogates	REC (%)	Limits	
Terbium	105	70-130	06/26/2020 14:38

Analyst(s): WV

(Cont.)

Analytical Report

Client: P & D Environmental
Date Received: 06/19/2020 14:24
Date Prepared: 06/22/2020-06/23/2020
Project: 0772; The Phoenix 801 Pine Street Oakland, CA
WorkOrder: 2006A30
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg-dry

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-2.0	2006A30-008B	Soil	06/19/2020 11:57	ICP-MS4 220SMPL.d	200432

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.53	1	06/23/2020 16:32
Arsenic	**2.1**	0.53	1	06/23/2020 16:32
Barium	**80**	5.3	1	06/23/2020 16:32
Beryllium	ND	0.53	1	06/23/2020 16:32
Cadmium	ND	0.53	1	06/23/2020 16:32
Chromium	**33**	0.53	1	06/23/2020 16:32
Cobalt	**4.2**	0.53	1	06/23/2020 16:32
Copper	**7.7**	0.53	1	06/23/2020 16:32
Lead	**2.6**	0.53	1	06/23/2020 16:32
Mercury	ND	0.053	1	06/23/2020 16:32
Molybdenum	ND	0.53	1	06/23/2020 16:32
Nickel	**21**	0.53	1	06/23/2020 16:32
Selenium	ND	0.53	1	06/23/2020 16:32
Silver	ND	0.53	1	06/23/2020 16:32
Thallium	ND	0.53	1	06/23/2020 16:32
Vanadium	**26**	0.53	1	06/23/2020 16:32
Zinc	**22**	5.3	1	06/23/2020 16:32

Surrogates	REC (%)	Limits		
Terbium	105	70-130		06/23/2020 16:32

Analyst(s): MIG

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3050B
Date Prepared:	06/22/2020-06/23/2020	**Analytical Method:**	SW6020
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-4.0	**2006A30-009B**	**Soil**	**06/19/2020 12:04**	**ICP-MS4 232SMPL.d**	**200432**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.53	1	06/23/2020 17:17
Arsenic	**2.5**	0.53	1	06/23/2020 17:17
Barium	**53**	5.3	1	06/23/2020 17:17
Beryllium	ND	0.53	1	06/23/2020 17:17
Cadmium	ND	0.53	1	06/23/2020 17:17
Chromium	**33**	0.53	1	06/23/2020 17:17
Cobalt	**4.6**	0.53	1	06/23/2020 17:17
Copper	**7.4**	0.53	1	06/23/2020 17:17
Lead	**2.8**	0.53	1	06/23/2020 17:17
Mercury	ND	0.053	1	06/23/2020 17:17
Molybdenum	ND	0.53	1	06/23/2020 17:17
Nickel	**22**	0.53	1	06/23/2020 17:17
Selenium	ND	0.53	1	06/23/2020 17:17
Silver	ND	0.53	1	06/23/2020 17:17
Thallium	ND	0.53	1	06/23/2020 17:17
Vanadium	**28**	0.53	1	06/23/2020 17:17
Zinc	**20**	5.3	1	06/23/2020 17:17

Surrogates	REC (%)	Limits	
Terbium	104	70-130	06/23/2020 17:17

Analyst(s): WV

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW5035
Date Prepared:	06/19/2020	**Analytical Method:**	SW8021B/8015Bm
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-3.0	**2006A30-001B**	**Soil**	**06/19/2020 09:35**	**GC3 06222031.D**	**200393**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.1	1	06/23/2020 04:03
MTBE	---	0.054	1	06/23/2020 04:03
Benzene	---	0.0054	1	06/23/2020 04:03
Toluene	---	0.0054	1	06/23/2020 04:03
Ethylbenzene	---	0.0054	1	06/23/2020 04:03
m,p-Xylene	---	0.011	1	06/23/2020 04:03
o-Xylene	---	0.0054	1	06/23/2020 04:03
Xylenes	---	0.0054	1	06/23/2020 04:03

Surrogates	REC (%)	Limits	
2-Fluorotoluene	86	62-126	06/23/2020 04:03

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-5.0	**2006A30-003B**	**Soil**	**06/19/2020 10:50**	**GC7 06252024.D**	**200393**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.1	1	06/25/2020 23:15
MTBE	---	0.054	1	06/25/2020 23:15
Benzene	---	0.0054	1	06/25/2020 23:15
Toluene	---	0.0054	1	06/25/2020 23:15
Ethylbenzene	---	0.0054	1	06/25/2020 23:15
m,p-Xylene	---	0.011	1	06/25/2020 23:15
o-Xylene	---	0.0054	1	06/25/2020 23:15
Xylenes	---	0.0054	1	06/25/2020 23:15

Surrogates	REC (%)	Limits	
2-Fluorotoluene	94	62-126	06/25/2020 23:15

Analyst(s): IA

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW5035
Date Prepared:	06/19/2020	**Analytical Method:**	SW8021B/8015Bm
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-2.0	**2006A30-004B**	**Soil**	**06/19/2020 10:20**	**GC7 06242030.D**	**200393**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.1	1	06/25/2020 02:47
MTBE	---	0.053	1	06/25/2020 02:47
Benzene	---	0.0053	1	06/25/2020 02:47
Toluene	---	0.0053	1	06/25/2020 02:47
Ethylbenzene	---	0.0053	1	06/25/2020 02:47
m,p-Xylene	---	0.011	1	06/25/2020 02:47
o-Xylene	---	0.0053	1	06/25/2020 02:47
Xylenes	---	0.0053	1	06/25/2020 02:47

Surrogates	REC (%)	Limits	
2-Fluorotoluene	95	62-126	06/25/2020 02:47

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-4.0	**2006A30-005B**	**Soil**	**06/19/2020 10:25**	**GC7 06242031.D**	**200393**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.1	1	06/25/2020 03:17
MTBE	---	0.053	1	06/25/2020 03:17
Benzene	---	0.0053	1	06/25/2020 03:17
Toluene	---	0.0053	1	06/25/2020 03:17
Ethylbenzene	---	0.0053	1	06/25/2020 03:17
m,p-Xylene	---	0.011	1	06/25/2020 03:17
o-Xylene	---	0.0053	1	06/25/2020 03:17
Xylenes	---	0.0053	1	06/25/2020 03:17

Surrogates	REC (%)	Limits	
2-Fluorotoluene	94	62-126	06/25/2020 03:17

Analyst(s): IA

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW5035
Date Prepared:	06/19/2020	**Analytical Method:**	SW8021B/8015Bm
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-2.0	**2006A30-006B**	**Soil**	**06/19/2020 11:30**	**GC7 06242032.D**	**200393**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.1	1	06/25/2020 03:47
MTBE	---	0.053	1	06/25/2020 03:47
Benzene	---	0.0053	1	06/25/2020 03:47
Toluene	---	0.0053	1	06/25/2020 03:47
Ethylbenzene	---	0.0053	1	06/25/2020 03:47
m,p-Xylene	---	0.011	1	06/25/2020 03:47
o-Xylene	---	0.0053	1	06/25/2020 03:47
Xylenes	---	0.0053	1	06/25/2020 03:47

Surrogates	REC (%)	Limits	
2-Fluorotoluene	95	62-126	06/25/2020 03:47

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-4.0	**2006A30-007B**	**Soil**	**06/19/2020 11:32**	**GC7 06242035.D**	**200393**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.1	1	06/25/2020 05:18
MTBE	---	0.053	1	06/25/2020 05:18
Benzene	---	0.0053	1	06/25/2020 05:18
Toluene	---	0.0053	1	06/25/2020 05:18
Ethylbenzene	---	0.0053	1	06/25/2020 05:18
m,p-Xylene	---	0.011	1	06/25/2020 05:18
o-Xylene	---	0.0053	1	06/25/2020 05:18
Xylenes	---	0.0053	1	06/25/2020 05:18

Surrogates	REC (%)	Limits	
2-Fluorotoluene	94	62-126	06/25/2020 05:18

Analyst(s): IA

Analytical Report

Client: P & D Environmental
Date Received: 06/19/2020 14:24
Date Prepared: 06/19/2020
Project: 0772; The Phoenix 801 Pine Street Oakland, CA

WorkOrder: 2006A30
Extraction Method: SW5035
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg-dry

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-2.0	2006A30-008B	Soil	06/19/2020 11:57	GC7 06242036.D	200393

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.1	1	06/25/2020 05:48
MTBE	---	0.053	1	06/25/2020 05:48
Benzene	---	0.0053	1	06/25/2020 05:48
Toluene	---	0.0053	1	06/25/2020 05:48
Ethylbenzene	---	0.0053	1	06/25/2020 05:48
m,p-Xylene	---	0.011	1	06/25/2020 05:48
o-Xylene	---	0.0053	1	06/25/2020 05:48
Xylenes	---	0.0053	1	06/25/2020 05:48

Surrogates	REC (%)	Limits	
2-Fluorotoluene	96	62-126	06/25/2020 05:48

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-4.0	2006A30-009B	Soil	06/19/2020 12:04	GC7 06242037.D	200393

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.1	1	06/25/2020 06:18
MTBE	---	0.053	1	06/25/2020 06:18
Benzene	---	0.0053	1	06/25/2020 06:18
Toluene	---	0.0053	1	06/25/2020 06:18
Ethylbenzene	---	0.0053	1	06/25/2020 06:18
m,p-Xylene	---	0.011	1	06/25/2020 06:18
o-Xylene	---	0.0053	1	06/25/2020 06:18
Xylenes	---	0.0053	1	06/25/2020 06:18

Surrogates	REC (%)	Limits	
2-Fluorotoluene	96	62-126	06/25/2020 06:18

Analyst(s): IA

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW5035
Date Prepared:	06/19/2020	**Analytical Method:**	SW8021B/8015Bm
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-3.0	2006A30-001B	Soil	06/19/2020 09:35	GC3 06222031.D	200393

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	06/23/2020 04:03
MTBE	---	0.050	1	06/23/2020 04:03
Benzene	---	0.0050	1	06/23/2020 04:03
Toluene	---	0.0050	1	06/23/2020 04:03
Ethylbenzene	---	0.0050	1	06/23/2020 04:03
m,p-Xylene	---	0.010	1	06/23/2020 04:03
o-Xylene	---	0.0050	1	06/23/2020 04:03
Xylenes	---	0.0050	1	06/23/2020 04:03

Surrogates	REC (%)	Limits	
2-Fluorotoluene	86	62-126	06/23/2020 04:03

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-5.0	2006A30-003B	Soil	06/19/2020 10:50	GC7 06252024.D	200393

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	06/25/2020 23:15
MTBE	---	0.050	1	06/25/2020 23:15
Benzene	---	0.0050	1	06/25/2020 23:15
Toluene	---	0.0050	1	06/25/2020 23:15
Ethylbenzene	---	0.0050	1	06/25/2020 23:15
m,p-Xylene	---	0.010	1	06/25/2020 23:15
o-Xylene	---	0.0050	1	06/25/2020 23:15
Xylenes	---	0.0050	1	06/25/2020 23:15

Surrogates	REC (%)	Limits	
2-Fluorotoluene	94	62-126	06/25/2020 23:15

Analyst(s): IA

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW5035
Date Prepared:	06/19/2020	**Analytical Method:**	SW8021B/8015Bm
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-2.0	**2006A30-004B**	**Soil**	**06/19/2020 10:20**	**GC7 06242030.D**	**200393**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	06/25/2020 02:47
MTBE	---	0.050	1	06/25/2020 02:47
Benzene	---	0.0050	1	06/25/2020 02:47
Toluene	---	0.0050	1	06/25/2020 02:47
Ethylbenzene	---	0.0050	1	06/25/2020 02:47
m,p-Xylene	---	0.010	1	06/25/2020 02:47
o-Xylene	---	0.0050	1	06/25/2020 02:47
Xylenes	---	0.0050	1	06/25/2020 02:47

Surrogates	REC (%)	Limits	
2-Fluorotoluene	95	62-126	06/25/2020 02:47

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-4.0	**2006A30-005B**	**Soil**	**06/19/2020 10:25**	**GC7 06242031.D**	**200393**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	06/25/2020 03:17
MTBE	---	0.050	1	06/25/2020 03:17
Benzene	---	0.0050	1	06/25/2020 03:17
Toluene	---	0.0050	1	06/25/2020 03:17
Ethylbenzene	---	0.0050	1	06/25/2020 03:17
m,p-Xylene	---	0.010	1	06/25/2020 03:17
o-Xylene	---	0.0050	1	06/25/2020 03:17
Xylenes	---	0.0050	1	06/25/2020 03:17

Surrogates	REC (%)	Limits	
2-Fluorotoluene	94	62-126	06/25/2020 03:17

Analyst(s): IA

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW5035
Date Prepared:	06/19/2020	**Analytical Method:**	SW8021B/8015Bm
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-2.0	**2006A30-006B**	**Soil**	**06/19/2020 11:30**	**GC7 06242032.D**	**200393**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	06/25/2020 03:47
MTBE	---	0.050	1	06/25/2020 03:47
Benzene	---	0.0050	1	06/25/2020 03:47
Toluene	---	0.0050	1	06/25/2020 03:47
Ethylbenzene	---	0.0050	1	06/25/2020 03:47
m,p-Xylene	---	0.010	1	06/25/2020 03:47
o-Xylene	---	0.0050	1	06/25/2020 03:47
Xylenes	---	0.0050	1	06/25/2020 03:47

Surrogates	REC (%)	Limits	
2-Fluorotoluene	95	62-126	06/25/2020 03:47

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-4.0	**2006A30-007B**	**Soil**	**06/19/2020 11:32**	**GC7 06242035.D**	**200393**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	06/25/2020 05:18
MTBE	---	0.050	1	06/25/2020 05:18
Benzene	---	0.0050	1	06/25/2020 05:18
Toluene	---	0.0050	1	06/25/2020 05:18
Ethylbenzene	---	0.0050	1	06/25/2020 05:18
m,p-Xylene	---	0.010	1	06/25/2020 05:18
o-Xylene	---	0.0050	1	06/25/2020 05:18
Xylenes	---	0.0050	1	06/25/2020 05:18

Surrogates	REC (%)	Limits	
2-Fluorotoluene	94	62-126	06/25/2020 05:18

Analyst(s): IA

(Cont.)

Analytical Report

Client: P & D Environmental
Date Received: 06/19/2020 14:24
Date Prepared: 06/19/2020
Project: 0772; The Phoenix 801 Pine Street Oakland, CA

WorkOrder: 2006A30
Extraction Method: SW5035
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-2.0	**2006A30-008B**	**Soil**	**06/19/2020 11:57**	**GC7 06242036.D**	**200393**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	06/25/2020 05:48
MTBE	---	0.050	1	06/25/2020 05:48
Benzene	---	0.0050	1	06/25/2020 05:48
Toluene	---	0.0050	1	06/25/2020 05:48
Ethylbenzene	---	0.0050	1	06/25/2020 05:48
m,p-Xylene	---	0.010	1	06/25/2020 05:48
o-Xylene	---	0.0050	1	06/25/2020 05:48
Xylenes	---	0.0050	1	06/25/2020 05:48

Surrogates	REC (%)	Limits	
2-Fluorotoluene	96	62-126	06/25/2020 05:48

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-4.0	**2006A30-009B**	**Soil**	**06/19/2020 12:04**	**GC7 06242037.D**	**200393**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	06/25/2020 06:18
MTBE	---	0.050	1	06/25/2020 06:18
Benzene	---	0.0050	1	06/25/2020 06:18
Toluene	---	0.0050	1	06/25/2020 06:18
Ethylbenzene	---	0.0050	1	06/25/2020 06:18
m,p-Xylene	---	0.010	1	06/25/2020 06:18
o-Xylene	---	0.0050	1	06/25/2020 06:18
Xylenes	---	0.0050	1	06/25/2020 06:18

Surrogates	REC (%)	Limits	
2-Fluorotoluene	96	62-126	06/25/2020 06:18

Analyst(s): IA

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	ASTM D2216-05
Date Prepared:	06/22/2020-06/24/2020	**Analytical Method:**	E8000
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	wet wt%

Percent Moisture

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-3.0	**2006A30-001B**	**Soil**	**06/19/2020 09:35**	**WetChem**	**200543**

Analytes	Result	RL	DF	Date Analyzed
% Moisture	**7.11**	0.100	1	06/23/2020 10:30

Analyst(s): HAD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-5.0	**2006A30-003B**	**Soil**	**06/19/2020 10:50**	**WetChem**	**200618**

Analytes	Result	RL	DF	Date Analyzed
% Moisture	**7.12**	0.100	1	12/30/1999 00:05

Analyst(s): AL

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-2.0	**2006A30-004B**	**Soil**	**06/19/2020 10:20**	**WetChem**	**200660**

Analytes	Result	RL	DF	Date Analyzed
% Moisture	**5.91**	0.100	1	06/25/2020 08:40

Analyst(s): AL

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-4.0	**2006A30-005B**	**Soil**	**06/19/2020 10:25**	**WetChem**	**200660**

Analytes	Result	RL	DF	Date Analyzed
% Moisture	**5.91**	0.100	1	06/25/2020 08:50

Analyst(s): AL

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	ASTM D2216-05
Date Prepared:	06/22/2020-06/24/2020	**Analytical Method:**	E8000
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	wet wt%

Percent Moisture

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-2.0	2006A30-006B	Soil	06/19/2020 11:30	WetChem	200660

Analytes	Result	RL	DF	Date Analyzed
% Moisture	**5.78**	0.100	1	06/25/2020 08:55

Analyst(s): AL

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-4.0	2006A30-007B	Soil	06/19/2020 11:32	WetChem	200660

Analytes	Result	RL	DF	Date Analyzed
% Moisture	**6.02**	0.100	1	06/25/2020 09:00

Analyst(s): AL

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-2.0	2006A30-008B	Soil	06/19/2020 11:57	WetChem	200660

Analytes	Result	RL	DF	Date Analyzed
% Moisture	**6.15**	0.100	1	06/25/2020 09:05

Analyst(s): AL

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-4.0	2006A30-009B	Soil	06/19/2020 12:04	WetChem	200543

Analytes	Result	RL	DF	Date Analyzed
% Moisture	**6.17**	0.100	1	06/23/2020 10:35

Analyst(s): HAD

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B
Date Prepared:	06/19/2020	**Analytical Method:**	SW8015B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-3.0	**2006A30-001B**	**Soil**	**06/19/2020 09:35**	**GC6A 06222028.D**	**200394**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**2.7**	1.0	1	06/22/2020 17:32
TPH-Motor Oil (C18-C36)	**100**	5.0	1	06/22/2020 17:32

Surrogates	REC (%)	Limits	Date Analyzed
C9	92	70-130	06/22/2020 17:32

Analyst(s): JIS

Analytical Comments: e7,e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-5.0	**2006A30-003B**	**Soil**	**06/19/2020 10:50**	**GC9b 06232033.D**	**200394**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/23/2020 19:52
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/23/2020 19:52

Surrogates	REC (%)	Limits	Date Analyzed
C9	100	70-130	06/23/2020 19:52

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-2.0	**2006A30-004B**	**Soil**	**06/19/2020 10:20**	**GC31B 06222065.D**	**200394**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/23/2020 06:02
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/23/2020 06:02

Surrogates	REC (%)	Limits	Date Analyzed
C9	115	70-130	06/23/2020 06:02

Analyst(s): JIS

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B
Date Prepared:	06/19/2020	**Analytical Method:**	SW8015B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-4.0	**2006A30-005B**	**Soil**	**06/19/2020 10:25**	**GC9b 06232023.D**	**200394**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/23/2020 16:36
TPH-Motor Oil (C18-C36)	**5.0**	5.0	1	06/23/2020 16:36

Surrogates	REC (%)	Limits	Date Analyzed
C9	99	70-130	06/23/2020 16:36

Analyst(s): JIS   Analytical Comments: e7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-2.0	**2006A30-006B**	**Soil**	**06/19/2020 11:30**	**GC31B 06222059.D**	**200394**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/23/2020 04:05
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/23/2020 04:05

Surrogates	REC (%)	Limits	Date Analyzed
C9	115	70-130	06/23/2020 04:05

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-4.0	**2006A30-007B**	**Soil**	**06/19/2020 11:32**	**GC31B 06222063.D**	**200394**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/23/2020 05:23
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/23/2020 05:23

Surrogates	REC (%)	Limits	Date Analyzed
C9	115	70-130	06/23/2020 05:23

Analyst(s): JIS

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B
Date Prepared:	06/19/2020	**Analytical Method:**	SW8015B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-2.0	**2006A30-008B**	**Soil**	**06/19/2020 11:57**	**GC9b 06232027.D**	**200394**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/23/2020 17:56
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/23/2020 17:56

Surrogates	REC (%)	Limits	Date Analyzed
C9	99	70-130	06/23/2020 17:56

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-4.0	**2006A30-009B**	**Soil**	**06/19/2020 12:04**	**GC31A 06222068.D**	**200394**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/23/2020 06:40
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/23/2020 06:40

Surrogates	REC (%)	Limits	Date Analyzed
C9	109	70-130	06/23/2020 06:40

Analyst(s): JIS

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B
Date Prepared:	06/19/2020	**Analytical Method:**	SW8015B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-3.0	**2006A30-001B**	**Soil**	**06/19/2020 09:35**	**GC6A 06222028.D**	**200394**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**2.9**	1.1	1	06/22/2020 17:32
TPH-Motor Oil (C18-C36)	**110**	5.4	1	06/22/2020 17:32

Surrogates	REC (%)	Limits	Date Analyzed
C9	92	70-130	06/22/2020 17:32

Analyst(s): JIS   Analytical Comments: e7,e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B1-5.0	**2006A30-003B**	**Soil**	**06/19/2020 10:50**	**GC9b 06232033.D**	**200394**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.1	1	06/23/2020 19:52
TPH-Motor Oil (C18-C36)	ND	5.4	1	06/23/2020 19:52

Surrogates	REC (%)	Limits	Date Analyzed
C9	100	70-130	06/23/2020 19:52

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-2.0	**2006A30-004B**	**Soil**	**06/19/2020 10:20**	**GC31B 06222065.D**	**200394**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.1	1	06/23/2020 06:02
TPH-Motor Oil (C18-C36)	ND	5.3	1	06/23/2020 06:02

Surrogates	REC (%)	Limits	Date Analyzed
C9	115	70-130	06/23/2020 06:02

Analyst(s): JIS

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B
Date Prepared:	06/19/2020	**Analytical Method:**	SW8015B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B2-4.0	**2006A30-005B**	**Soil**	**06/19/2020 10:25**	**GC9b 06232023.D**	**200394**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.1	1	06/23/2020 16:36
TPH-Motor Oil (C18-C36)	**5.3**	5.3	1	06/23/2020 16:36

Surrogates	REC (%)	Limits	Date Analyzed
C9	99	70-130	06/23/2020 16:36

Analyst(s): JIS   Analytical Comments: e7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-2.0	**2006A30-006B**	**Soil**	**06/19/2020 11:30**	**GC31B 06222059.D**	**200394**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.1	1	06/23/2020 04:05
TPH-Motor Oil (C18-C36)	ND	5.3	1	06/23/2020 04:05

Surrogates	REC (%)	Limits	Date Analyzed
C9	115	70-130	06/23/2020 04:05

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B3-4.0	**2006A30-007B**	**Soil**	**06/19/2020 11:32**	**GC31B 06222063.D**	**200394**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.1	1	06/23/2020 05:23
TPH-Motor Oil (C18-C36)	ND	5.3	1	06/23/2020 05:23

Surrogates	REC (%)	Limits	Date Analyzed
C9	115	70-130	06/23/2020 05:23

Analyst(s): JIS

(Cont.)

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Received:	06/19/2020 14:24	**Extraction Method:**	SW3550B
Date Prepared:	06/19/2020	**Analytical Method:**	SW8015B
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Unit:**	mg/Kg-dry

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-2.0	**2006A30-008B**	**Soil**	**06/19/2020 11:57**	**GC9b 06232027.D**	**200394**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.1	1	06/23/2020 17:56
TPH-Motor Oil (C18-C36)	ND	5.3	1	06/23/2020 17:56

Surrogates	REC (%)	Limits	
C9	99	70-130	06/23/2020 17:56

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-4.0	**2006A30-009B**	**Soil**	**06/19/2020 12:04**	**GC31A 06222068.D**	**200394**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.1	1	06/23/2020 06:40
TPH-Motor Oil (C18-C36)	ND	5.3	1	06/23/2020 06:40

Surrogates	REC (%)	Limits	
C9	109	70-130	06/23/2020 06:40

Analyst(s): JIS

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/22/2020	**BatchID:**	200496
Date Analyzed:	06/22/2020 - 06/24/2020	**Extraction Method:**	SW3550B/3640Am/3630Cm
Instrument:	GC23	**Analytical Method:**	SW8081A/8082
Matrix:	Soil	**Unit:**	mg/kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200496

QC Summary Report for SW8081A/8082

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Aldrin	ND	0.0000360	0.000100	-	-	-
a-BHC	ND	0.0000250	0.000100	-	-	-
b-BHC	ND	0.000250	0.000300	-	-	-
d-BHC	ND	0.000130	0.000200	-	-	-
g-BHC	ND	0.0000660	0.000100	-	-	-
Chlordane (Technical)	ND	0.000430	0.00250	-	-	-
a-Chlordane	ND	0.0000950	0.000100	-	-	-
g-Chlordane	ND	0.0000470	0.000100	-	-	-
p,p-DDD	ND	0.0000430	0.000100	-	-	-
p,p-DDE	ND	0.0000940	0.000100	-	-	-
p,p-DDT	ND	0.0000920	0.000100	-	-	-
Dieldrin	ND	0.0000610	0.000100	-	-	-
Endosulfan I	ND	0.0000480	0.000100	-	-	-
Endosulfan II	ND	0.0000760	0.000100	-	-	-
Endosulfan sulfate	ND	0.0000780	0.000100	-	-	-
Endrin	ND	0.0000350	0.000100	-	-	-
Endrin aldehyde	ND	0.0000670	0.000100	-	-	-
Endrin ketone	ND	0.0000840	0.000100	-	-	-
Heptachlor	ND	0.0000400	0.000100	-	-	-
Heptachlor epoxide	ND	0.0000540	0.000100	-	-	-
Hexachlorobenzene	ND	0.000110	0.00100	-	-	-
Hexachlorocyclopentadiene	ND	0.000340	0.00200	-	-	-
Methoxychlor	ND	0.000130	0.000200	-	-	-
Toxaphene	ND	0.00340	0.00500	-	-	-
Aroclor1016	ND	0.00200	0.00500	-	-	-
Aroclor1221	ND	0.00220	0.00500	-	-	-
Aroclor1232	ND	0.00220	0.00500	-	-	-
Aroclor1242	ND	0.00220	0.00500	-	-	-
Aroclor1248	ND	0.00220	0.00500	-	-	-
Aroclor1254	ND	0.00220	0.00500	-	-	-
Aroclor1260	ND	0.00220	0.00500	-	-	-
Surrogate Recovery						
Decachlorobiphenyl	0.00387			0.005	77	28-170

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/22/2020	**BatchID:**	200496
Date Analyzed:	06/22/2020 - 06/24/2020	**Extraction Method:**	SW3550B/3640Am/3630Cm
Instrument:	GC23	**Analytical Method:**	SW8081A/8082
Matrix:	Soil	**Unit:**	mg/kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200496

QC Summary Report for SW8081A/8082

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aldrin	0.00500	0.00507	0.0050	100	101	31-155	1.49	20
a-BHC	0.00570	0.00574	0.0050	114	115	32-160	0.693	20
b-BHC	0.00516	0.00517	0.0050	103	103	44-149	0.356	20
d-BHC	0.00570	0.00576	0.0050	114	115	37-157	0.915	20
g-BHC	0.00561	0.00549	0.0050	112	110	43-154	2.27	20
a-Chlordane	0.00461	0.00467	0.0050	92	93	39-150	1.22	20
g-Chlordane	0.00515	0.00521	0.0050	103	104	39-151	1.19	20
p,p-DDD	0.00544	0.00552	0.0050	109	110	30-158	1.56	20
p,p-DDE	0.00507	0.00516	0.0050	101	103	47-149	1.89	20
p,p-DDT	0.00518	0.00525	0.0050	104	105	56-166	1.43	20
Dieldrin	0.00518	0.00527	0.0050	104	105	50-163	1.65	20
Endosulfan I	0.00470	0.00478	0.0050	94	96	45-159	1.84	20
Endosulfan II	0.00454	0.00462	0.0050	91	92	41-155	1.71	20
Endosulfan sulfate	0.00484	0.00492	0.0050	97	98	45-156	1.61	20
Endrin	0.00500	0.00511	0.0050	100	102	54-154	2.34	20
Endrin aldehyde	0.00469	0.00477	0.0050	94	95	27-159	1.63	20
Endrin ketone	0.00445	0.00451	0.0050	89	90	40-147	1.26	20
Heptachlor	0.00554	0.00562	0.0050	111	112	52-165	1.54	20
Heptachlor epoxide	0.00461	0.00451	0.0050	92	90	46-145	2.17	20
Hexachlorobenzene	0.00478	0.00483	0.0050	96	97	22-156	1.12	20
Hexachlorocyclopentadiene	0.00423	0.00414	0.0050	85	83	43-173	2.20	20
Methoxychlor	0.00504	0.00507	0.0050	101	101	49-150	0.542	20
Aroclor1016	0.0146	0.0143	0.015	97	95	49-120	1.98	20
Aroclor1260	0.0141	0.0167	0.015	94	111	48-160	16.8	20
Surrogate Recovery								
Decachlorobiphenyl	0.00568	0.00570	0.0050	114	114	28-170	0.326	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/19/2020	**BatchID:**	200431
Date Analyzed:	06/23/2020	**Extraction Method:**	SW5035
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200431

QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	0.130	0.200	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.00160	0.0100	-	-	-
Benzene	ND	0.00200	0.0100	-	-	-
Bromobenzene	ND	0.00240	0.0100	-	-	-
Bromochloromethane	ND	0.00220	0.0100	-	-	-
Bromodichloromethane	ND	0.000560	0.00200	-	-	-
Bromoform	ND	0.00340	0.0100	-	-	-
Bromomethane	ND	0.00360	0.0100	-	-	-
2-Butanone (MEK)	ND	0.0220	0.0400	-	-	-
t-Butyl alcohol (TBA)	ND	0.0640	0.100	-	-	-
n-Butyl benzene	ND	0.00420	0.0100	-	-	-
sec-Butyl benzene	ND	0.00340	0.0100	-	-	-
tert-Butyl benzene	ND	0.00260	0.0100	-	-	-
Carbon Disulfide	ND	0.00600	0.0100	-	-	-
Carbon Tetrachloride	ND	0.00180	0.0100	-	-	-
Chlorobenzene	ND	0.00170	0.0100	-	-	-
Chloroethane	ND	0.00400	0.0100	-	-	-
Chloroform	ND	0.000220	0.0100	-	-	-
Chloromethane	ND	0.00520	0.0100	-	-	-
2-Chlorotoluene	ND	0.00320	0.0100	-	-	-
4-Chlorotoluene	ND	0.00240	0.0100	-	-	-
Dibromochloromethane	0.000708,J	0.000380	0.0100	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.000320	0.000500	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0000680	0.000200	-	-	-
Dibromomethane	ND	0.00160	0.0100	-	-	-
1,2-Dichlorobenzene	ND	0.00220	0.0100	-	-	-
1,3-Dichlorobenzene	ND	0.00200	0.0100	-	-	-
1,4-Dichlorobenzene	ND	0.00170	0.0100	-	-	-
Dichlorodifluoromethane	ND	0.00260	0.0100	-	-	-
1,1-Dichloroethane	ND	0.00180	0.0100	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.000170	0.000500	-	-	-
1,1-Dichloroethene	ND	0.0000560	0.000500	-	-	-
cis-1,2-Dichloroethene	ND	0.00170	0.0100	-	-	-
trans-1,2-Dichloroethene	ND	0.00220	0.0100	-	-	-
1,2-Dichloropropane	ND	0.00160	0.0100	-	-	-
1,3-Dichloropropane	ND	0.00140	0.0100	-	-	-
2,2-Dichloropropane	ND	0.00380	0.0100	-	-	-
1,1-Dichloropropene	ND	0.00170	0.0100	-	-	-

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/19/2020	**BatchID:**	200431
Date Analyzed:	06/23/2020	**Extraction Method:**	SW5035
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200431

QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
cis-1,3-Dichloropropene	ND	0.00340	0.0100	-	-	-
trans-1,3-Dichloropropene	ND	0.00400	0.0100	-	-	-
Diisopropyl ether (DIPE)	ND	0.00220	0.0100	-	-	-
Ethylbenzene	ND	0.00190	0.0100	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.00220	0.0100	-	-	-
Freon 113	ND	0.00220	0.0100	-	-	-
Hexachlorobutadiene	ND	0.00460	0.0100	-	-	-
Hexachloroethane	ND	0.00280	0.0100	-	-	-
2-Hexanone	ND	0.00620	0.0100	-	-	-
Isopropylbenzene	ND	0.00340	0.0100	-	-	-
4-Isopropyl toluene	ND	0.00300	0.0100	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.00340	0.0100	-	-	-
Methylene chloride	ND	0.0160	0.0200	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.00580	0.0100	-	-	-
Naphthalene	ND	0.00720	0.0100	-	-	-
n-Propyl benzene	ND	0.00320	0.0100	-	-	-
Styrene	ND	0.00540	0.0100	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.00180	0.0100	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.0000870	0.000500	-	-	-
Tetrachloroethene	ND	0.000400	0.00200	-	-	-
Toluene	ND	0.00320	0.0100	-	-	-
1,2,3-Trichlorobenzene	ND	0.00740	0.0100	-	-	-
1,2,4-Trichlorobenzene	ND	0.00360	0.0100	-	-	-
1,1,1-Trichloroethane	ND	0.00170	0.0100	-	-	-
1,1,2-Trichloroethane	ND	0.00130	0.0100	-	-	-
Trichloroethene	ND	0.00320	0.0100	-	-	-
Trichlorofluoromethane	ND	0.00280	0.0100	-	-	-
1,2,3-Trichloropropane	ND	0.0000840	0.000100	-	-	-
1,2,4-Trimethylbenzene	ND	0.00300	0.0100	-	-	-
1,3,5-Trimethylbenzene	ND	0.00320	0.0100	-	-	-
Vinyl Chloride	ND	0.000110	0.000500	-	-	-
m,p-Xylene	ND	0.00460	0.0100	-	-	-
o-Xylene	ND	0.00150	0.0100	-	-	-

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/19/2020	**BatchID:**	200431
Date Analyzed:	06/23/2020	**Extraction Method:**	SW5035
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200431

QC Summary Report for SW8260B

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
Dibromofluoromethane	0.251			0.25	100	85-129
Toluene-d8	0.258			0.25	103	98-136
4-BFB	0.0251			0.025	100	83-137
Benzene-d6	0.207			0.2	103	67-135
Ethylbenzene-d10	0.196			0.2	98	81-152
1,2-DCB-d4	0.173			0.2	87	61-112

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/19/2020	**BatchID:**	200431
Date Analyzed:	06/23/2020	**Extraction Method:**	SW5035
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200431

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	0.402	0.430	0.80	50,F2	54,F2	65-143	6.94	20
tert-Amyl methyl ether (TAME)	0.0330	0.0363	0.040	83	91	55-119	9.43	30
Benzene	0.0364	0.0394	0.040	91	98	64-131	7.86	30
Bromobenzene	0.0407	0.0403	0.040	102	101	66-132	1.14	30
Bromochloromethane	0.0393	0.0417	0.040	98	104	66-123	5.99	30
Bromodichloromethane	0.0312	0.0339	0.040	78	85	63-121	8.14	30
Bromoform	0.0311	0.0307	0.040	78	77	50-92	1.35	30
Bromomethane	0.0837	0.0938	0.040	209,F2	235,F2	42-146	11.4	30
2-Butanone (MEK)	0.143	0.160	0.16	90	100	59-127	11.0	30
t-Butyl alcohol (TBA)	0.135	0.148	0.16	84	92	54-132	9.03	30
n-Butyl benzene	0.0484	0.0486	0.040	121	122	91-188	0.421	30
sec-Butyl benzene	0.0504	0.0498	0.040	126	124	89-186	1.19	30
tert-Butyl benzene	0.0511	0.0505	0.040	128	126	83-180	1.10	30
Carbon Disulfide	0.0392	0.0422	0.040	98	105	59-149	7.18	30
Carbon Tetrachloride	0.0363	0.0395	0.040	91	99	66-139	8.32	30
Chlorobenzene	0.0377	0.0383	0.040	94	96	65-127	1.56	30
Chloroethane	0.0312	0.0352	0.040	78	88	41-142	12.0	30
Chloroform	0.0367	0.0396	0.040	92	99	73-124	7.67	30
Chloromethane	0.0218	0.0245	0.040	54	61	28-144	11.8	30
2-Chlorotoluene	0.0443	0.0435	0.040	111	109	76-152	1.74	30
4-Chlorotoluene	0.0420	0.0414	0.040	105	103	71-148	1.46	30
Dibromochloromethane	0.0320	0.0321	0.040	80	80	63-105	0.447	30
1,2-Dibromo-3-chloropropane	0.0148	0.0151	0.020	74	75	42-115	2.21	20
1,2-Dibromoethane (EDB)	0.0180	0.0182	0.020	90	91	66-126	1.38	20
Dibromomethane	0.0359	0.0393	0.040	90	98	63-116	9.15	30
1,2-Dichlorobenzene	0.0324	0.0333	0.040	81	83	59-107	2.50	30
1,3-Dichlorobenzene	0.0399	0.0401	0.040	100	100	74-131	0.538	30
1,4-Dichlorobenzene	0.0369	0.0379	0.040	92	95	67-125	2.87	30
Dichlorodifluoromethane	0.0184	0.0210	0.040	46	52	9-81	13.0	30
1,1-Dichloroethane	0.0352	0.0381	0.040	88	95	71-129	7.82	30
1,2-Dichloroethane (1,2-DCA)	0.0317	0.0345	0.040	79	86	66-122	8.44	30
1,1-Dichloroethene	0.0359	0.0389	0.040	90	97	59-134	8.00	30
cis-1,2-Dichloroethene	0.0368	0.0403	0.040	92	101	63-135	8.99	30
trans-1,2-Dichloroethene	0.0372	0.0405	0.040	93	101	54-140	8.52	30
1,2-Dichloropropane	0.0346	0.0374	0.040	86	93	65-127	7.83	30
1,3-Dichloropropane	0.0365	0.0374	0.040	91	93	62-135	2.49	30
2,2-Dichloropropane	0.0393	0.0423	0.040	98	106	69-145	7.32	30
1,1-Dichloropropene	0.0373	0.0403	0.040	93	101	66-138	7.56	30

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/19/2020	**BatchID:**	200431
Date Analyzed:	06/23/2020	**Extraction Method:**	SW5035
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200431

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	0.0381	0.0383	0.040	95	96	65-141	0.487	30
trans-1,3-Dichloropropene	0.0359	0.0362	0.040	90	90	66-126	0.785	30
Diisopropyl ether (DIPE)	0.0335	0.0363	0.040	84	91	70-119	8.03	30
Ethylbenzene	0.0401	0.0409	0.040	100	102	79-138	1.94	30
Ethyl tert-butyl ether (ETBE)	0.0345	0.0374	0.040	86	93	69-119	8.03	30
Freon 113	0.0324	0.0350	0.040	81	87	50-122	7.64	30
Hexachlorobutadiene	0.0497	0.0497	0.040	124	124	81-188	0.0312	30
Hexachloroethane	0.0414	0.0408	0.040	103	102	78-155	1.31	30
2-Hexanone	0.0295	0.0287	0.040	74	72	48-107	2.85	30
Isopropylbenzene	0.0502	0.0491	0.040	126	123	71-169	2.20	30
4-Isopropyl toluene	0.0494	0.0489	0.040	124	122	88-172	1.03	30
Methyl-t-butyl ether (MTBE)	0.0327	0.0357	0.040	82	89	63-121	8.84	30
Methylene chloride	0.0320	0.0347	0.040	80	87	62-133	7.96	30
4-Methyl-2-pentanone (MIBK)	0.0302	0.0311	0.040	76	78	50-109	2.81	30
Naphthalene	0.0190	0.0198	0.040	48	49	29-69	3.86	30
n-Propyl benzene	0.0519	0.0521	0.040	130	130	81-181	0.410	30
Styrene	0.0457	0.0463	0.040	114	116	62-129	1.41	30
1,1,1,2-Tetrachloroethane	0.0391	0.0391	0.040	98	98	74-130	0.0681	30
1,1,2,2-Tetrachloroethane	0.0334	0.0336	0.040	84	84	42-126	0.506	30
Tetrachloroethene	0.0446	0.0448	0.040	112	112	72-153	0.429	30
Toluene	0.0421	0.0425	0.040	105	106	70-140	1.02	30
1,2,3-Trichlorobenzene	0.0232	0.0244	0.040	58	61	33-87	5.19	30
1,2,4-Trichlorobenzene	0.0305	0.0314	0.040	76	78	46-109	2.70	30
1,1,1-Trichloroethane	0.0363	0.0396	0.040	91	99	72-135	8.73	30
1,1,2-Trichloroethane	0.0370	0.0377	0.040	93	94	60-130	1.68	30
Trichloroethene	0.0362	0.0392	0.040	90	98	57-146	8.05	30
Trichlorofluoromethane	0.0308	0.0335	0.040	77	84	52-130	8.22	30
1,2,3-Trichloropropane	0.0180	0.0181	0.020	90	90	65-130	0.0958	20
1,2,4-Trimethylbenzene	0.0456	0.0446	0.040	114	111	83-156	2.25	30
1,3,5-Trimethylbenzene	0.0462	0.0464	0.040	115	116	86-167	0.359	30
Vinyl Chloride	0.0189	0.0204	0.020	94	102	33-141	7.54	20
m,p-Xylene	0.0886	0.0892	0.080	111	112	70-141	0.698	20
o-Xylene	0.0389	0.0392	0.040	97	98	74-130	0.598	20

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/19/2020	**BatchID:**	200431
Date Analyzed:	06/23/2020	**Extraction Method:**	SW5035
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200431

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
Dibromofluoromethane	0.229	0.234	0.25	92	94	85-129	2.28	30
Toluene-d8	0.264	0.262	0.25	105	105	98-136	0.610	30
4-BFB	0.0248	0.0252	0.025	99	101	83-137	1.71	30
Benzene-d6	0.191	0.206	0.20	96	103	67-135	7.65	20
Ethylbenzene-d10	0.210	0.210	0.20	105	105	81-152	0.110	20
1,2-DCB-d4	0.168	0.167	0.20	84	83	61-112	0.603	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/23/2020	**BatchID:**	200596
Date Analyzed:	06/24/2020	**Extraction Method:**	SW3550B/3640A
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200596

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Benzoic Acid	ND	0.370	1.20	-	-	-
Acenaphthene	ND	0.000510	0.00130	-	-	-
Acenaphthylene	ND	0.000300	0.00130	-	-	-
Acetochlor	ND	0.0320	0.250	-	-	-
Anthracene	ND	0.000850	0.00130	-	-	-
Benzidine	ND	0.120	1.20	-	-	-
Benzo (a) anthracene	ND	0.00400	0.0130	-	-	-
Benzo (a) pyrene	ND	0.00120	0.00250	-	-	-
Benzo (b) fluoranthene	ND	0.00110	0.00630	-	-	-
Benzo (g,h,i) perylene	ND	0.00160	0.00250	-	-	-
Benzo (k) fluoranthene	ND	0.00120	0.00130	-	-	-
Benzyl Alcohol	ND	0.630	1.20	-	-	-
1,1-Biphenyl	ND	0.00280	0.0130	-	-	-
Bis (2-chloroethoxy) Methane	ND	0.0280	0.250	-	-	-
Bis (2-chloroethyl) Ether	ND	0.00150	0.00250	-	-	-
Bis (2-chloroisopropyl) Ether	ND	0.00350	0.0130	-	-	-
Bis (2-ethylhexyl) Adipate	ND	0.0440	0.250	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	0.0110	0.0250	-	-	-
4-Bromophenyl Phenyl Ether	ND	0.0330	0.250	-	-	-
Butylbenzyl Phthalate	ND	0.00550	0.0250	-	-	-
4-Chloroaniline	ND	0.000660	0.00250	-	-	-
4-Chloro-3-methylphenol	ND	0.0320	0.250	-	-	-
2-Chloronaphthalene	ND	0.0200	0.250	-	-	-
2-Chlorophenol	ND	0.00190	0.0130	-	-	-
4-Chlorophenyl Phenyl Ether	ND	0.0290	0.250	-	-	-
Chrysene	ND	0.00140	0.00250	-	-	-
Dibenzo (a,h) anthracene	ND	0.00140	0.00250	-	-	-
Dibenzofuran	ND	0.0150	0.250	-	-	-
Di-n-butyl Phthalate	ND	0.00520	0.0130	-	-	-
1,2-Dichlorobenzene	ND	0.0170	0.250	-	-	-
1,3-Dichlorobenzene	ND	0.0210	0.250	-	-	-
1,4-Dichlorobenzene	ND	0.0270	0.250	-	-	-
3,3-Dichlorobenzidine	ND	0.00100	0.00250	-	-	-
2,4-Dichlorophenol	ND	0.000500	0.0130	-	-	-
Diethyl Phthalate	ND	0.00350	0.0130	-	-	-
2,4-Dimethylphenol	ND	0.0310	0.250	-	-	-
Dimethyl Phthalate	ND	0.00120	0.00250	-	-	-
4,6-Dinitro-2-methylphenol	ND	0.180	1.20	-	-	-

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/23/2020	**BatchID:**	200596
Date Analyzed:	06/24/2020	**Extraction Method:**	SW3550B/3640A
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200596

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
2,4-Dinitrophenol	ND	0.160	0.250	-	-	-
2,4-Dinitrotoluene	ND	0.00240	0.0130	-	-	-
2,6-Dinitrotoluene	ND	0.00150	0.0130	-	-	-
Di-n-octyl Phthalate	ND	0.00490	0.0130	-	-	-
1,2-Diphenylhydrazine	ND	0.0300	0.250	-	-	-
Fluoranthene	ND	0.00120	0.00130	-	-	-
Fluorene	ND	0.00110	0.00250	-	-	-
Hexachlorobenzene	ND	0.000380	0.00130	-	-	-
Hexachlorobutadiene	ND	0.000170	0.00250	-	-	-
Hexachlorocyclopentadiene	ND	0.150	2.00	-	-	-
Hexachloroethane	ND	0.00160	0.0130	-	-	-
Indeno (1,2,3-cd) pyrene	ND	0.00240	0.0130	-	-	-
Isophorone	ND	0.0460	0.250	-	-	-
2-Methylnaphthalene	ND	0.000540	0.00250	-	-	-
2-Methylphenol (o-Cresol)	ND	0.0570	0.250	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	0.0720	0.250	-	-	-
Naphthalene	ND	0.000550	0.00130	-	-	-
2-Nitroaniline	ND	0.0870	1.20	-	-	-
3-Nitroaniline	ND	0.0910	1.20	-	-	-
4-Nitroaniline	ND	0.130	1.20	-	-	-
Nitrobenzene	ND	0.0250	0.250	-	-	-
2-Nitrophenol	ND	0.150	1.20	-	-	-
4-Nitrophenol	ND	0.380	1.20	-	-	-
N-Nitrosodimethylamine	ND	0.140	1.20	-	-	-
N-Nitrosodiphenylamine	ND	0.0260	0.250	-	-	-
N-Nitrosodi-n-propylamine	ND	0.0770	0.250	-	-	-
Pentachlorophenol	ND	0.00990	0.0620	-	-	-
Phenanthrene	ND	0.00120	0.00500	-	-	-
Phenol	ND	0.00500	0.0500	-	-	-
Pyrene	ND	0.000930	0.00250	-	-	-
Pyridine	ND	0.0480	0.250	-	-	-
1,2,4-Trichlorobenzene	ND	0.0250	0.250	-	-	-
2,4,5-Trichlorophenol	ND	0.000740	0.00250	-	-	-
2,4,6-Trichlorophenol	ND	0.000840	0.0130	-	-	-

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/23/2020	**BatchID:**	200596
Date Analyzed:	06/24/2020	**Extraction Method:**	SW3550B/3640A
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200596

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
2-Fluorophenol	1.22			1.25	97	60-130
Phenol-d5	1.15			1.25	92	60-130
Nitrobenzene-d5	0.970			1.25	78	60-130
2-Fluorobiphenyl	1.02			1.25	82	60-130
2,4,6-Tribromophenol	1.23			1.25	98	50-130
4-Terphenyl-d14	0.898			1.25	72	50-130

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/23/2020	**BatchID:**	200596
Date Analyzed:	06/24/2020	**Extraction Method:**	SW3550B/3640A
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200596

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acenaphthene	0.105	0.100	0.12	84	80	60-130	4.11	30
Acenaphthylene	0.103	0.100	0.12	82	80	60-130	2.24	30
Anthracene	0.119	0.109	0.12	95	87	60-130	8.35	30
Benzidine	7.80	7.63	12.5	62	61	30-130	2.21	30
Benzo (a) anthracene	0.127	0.124	0.12	102	99	60-130	2.74	30
Benzo (a) pyrene	0.140	0.132	0.12	112	105	60-130	5.81	30
Benzo (b) fluoranthene	0.129	0.123	0.12	104	99	40-130	4.72	30
Benzo (g,h,i) perylene	0.129	0.116	0.12	103	93	60-130	10.1	30
Benzo (k) fluoranthene	0.150	0.143	0.12	120	115	60-130	4.42	30
Benzyl Alcohol	9.50	9.41	12.5	76	75	60-130	0.927	30
Bis (2-chloroethoxy) Methane	1.86	1.77	2.5	74	71	60-130	4.92	30
Bis (2-chloroethyl) Ether	0.105	0.105	0.12	84	84	60-130	0.800	30
Bis (2-chloroisopropyl) Ether	0.0978	0.0955	0.12	78	76	60-130	2.37	30
Bis (2-ethylhexyl) Adipate	1.58	2.13	2.5	63	85	40-130	29.3	30
Bis (2-ethylhexyl) Phthalate	0.107	0.120	0.12	86	96	60-130	11.0	30
4-Bromophenyl Phenyl Ether	2.17	1.98	2.5	87	79	60-130	9.48	30
Butylbenzyl Phthalate	0.128	0.124	0.12	103	99	60-130	3.85	30
4-Chloroaniline	0.101	0.101	0.12	81	80	40-130	0.683	30
4-Chloro-3-methylphenol	2.40	2.28	2.5	96	91	60-130	4.97	30
2-Chloronaphthalene	2.04	1.97	2.5	81	79	60-130	3.29	30
2-Chlorophenol	0.112	0.114	0.12	89	91	60-130	2.03	30
4-Chlorophenyl Phenyl Ether	1.93	1.91	2.5	77	77	60-130	0.760	30
Chrysene	0.128	0.116	0.12	102	93	60-130	10.1	30
Dibenzo (a,h) anthracene	0.130	0.121	0.12	104	97	60-130	7.29	30
Dibenzofuran	2.06	1.96	2.5	82	78	60-130	4.79	30
Di-n-butyl Phthalate	0.131	0.121	0.12	104	97	60-130	7.64	30
1,2-Dichlorobenzene	1.95	1.93	2.5	78	77	60-130	1.06	30
1,3-Dichlorobenzene	1.94	1.90	2.5	78	76	60-130	2.04	30
1,4-Dichlorobenzene	1.78	1.80	2.5	71	72	60-130	0.793	30
3,3-Dichlorobenzidine	0.108	0.106	0.12	86	85	40-130	1.73	30
2,4-Dichlorophenol	0.108	0.104	0.12	86	83	60-130	3.72	30
Diethyl Phthalate	0.111	0.105	0.12	89	84	60-130	5.52	30
2,4-Dimethylphenol	2.18	2.10	2.5	87	84	60-130	3.81	30
Dimethyl Phthalate	0.106	0.104	0.12	85	83	60-130	2.66	30
4,6-Dinitro-2-methylphenol	10.0	9.51	12.5	80	76	30-130	5.30	30
2,4-Dinitrophenol	1.60	1.59	2.5	64	63	15-130	0.940	30
2,4-Dinitrotoluene	0.113	0.112	0.12	90	89	60-130	1.19	30
2,6-Dinitrotoluene	0.107	0.104	0.12	86	84	60-130	2.34	30

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/23/2020	**BatchID:**	200596
Date Analyzed:	06/24/2020	**Extraction Method:**	SW3550B/3640A
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200596

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Di-n-octyl Phthalate	0.110	0.132	0.12	88	106	60-130	17.9	30
1,2-Diphenylhydrazine	2.12	1.95	2.5	85	78	60-130	8.50	30
Fluoranthene	0.128	0.119	0.12	103	96	60-130	7.33	30
Fluorene	0.113	0.110	0.12	90	88	60-130	2.94	30
Hexachlorobenzene	0.0968	0.0916	0.12	77	73	60-130	5.53	30
Hexachlorobutadiene	0.0997	0.0961	0.12	80	77	60-130	3.64	30
Hexachlorocyclopentadiene	8.63	8.62	12.5	69	69	40-130	0.110	30
Hexachloroethane	0.112	0.109	0.12	89	87	60-130	2.41	30
Indeno (1,2,3-cd) pyrene	0.123	0.114	0.12	98	91	60-130	7.79	30
Isophorone	2.24	2.16	2.5	90	87	60-130	3.50	30
2-Methylnaphthalene	0.110	0.105	0.12	88	84	60-130	4.76	30
2-Methylphenol (o-Cresol)	2.02	2.03	2.5	81	81	60-130	0.676	30
3 & 4-Methylphenol (m,p-Cresol)	2.13	2.12	2.5	85	85	60-130	0.573	30
Naphthalene	0.104	0.0987	0.12	83	79	60-130	4.90	30
2-Nitroaniline	10.8	10.4	12.5	87	83	60-130	4.74	30
3-Nitroaniline	11.2	10.9	12.5	90	87	30-130	3.16	30
4-Nitroaniline	10.2	9.81	12.5	82	78	60-130	3.86	30
Nitrobenzene	2.11	1.99	2.5	85	80	60-130	5.86	30
2-Nitrophenol	11.1	10.6	12.5	89	85	60-130	4.77	30
4-Nitrophenol	13.0	12.6	12.5	104	101	60-130	3.61	30
N-Nitrosodiphenylamine	2.08	1.94	2.5	83	78	60-130	7.13	30
N-Nitrosodi-n-propylamine	2.10	2.04	2.5	84	82	60-130	3.15	30
Pentachlorophenol	0.573	0.517	0.62	92	83	40-130	10.3	30
Phenanthrene	0.109	0.100	0.12	87	80	60-130	8.00	30
Phenol	0.412	0.413	0.50	82	83	60-130	0.331	30
Pyrene	0.117	0.111	0.12	93	89	60-130	5.02	30
Pyridine	1.22	1.09	2.5	49	44	30-130	10.7	30
1,2,4-Trichlorobenzene	1.89	1.89	2.5	76	75	60-130	0.288	30
2,4,5-Trichlorophenol	0.113	0.113	0.12	90	91	60-130	0.240	30
2,4,6-Trichlorophenol	0.106	0.105	0.12	85	84	60-130	1.11	30

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/23/2020	**BatchID:**	200596
Date Analyzed:	06/24/2020	**Extraction Method:**	SW3550B/3640A
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200596

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
2-Fluorophenol	1.06	1.08	1.25	85	86	60-130	1.47	30
Phenol-d5	1.06	1.10	1.25	85	88	60-130	3.90	30
Nitrobenzene-d5	1.01	1.09	1.25	81	87	60-130	7.55	30
2-Fluorobiphenyl	1.02	1.03	1.25	82	82	60-130	0.857	30
2,4,6-Tribromophenol	1.00	0.962	1.25	80	77	50-130	4.16	30
4-Terphenyl-d14	1.04	1.02	1.25	83	82	50-130	1.70	30

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/26/2020	**BatchID:**	200792
Date Analyzed:	06/26/2020 - 06/29/2020	**Extraction Method:**	SW3550B/3640A
Instrument:	GC17, GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200792 2006A30-003BMS/MSD

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Benzoic Acid	ND	0.370	1.20	-	-	-
Acenaphthene	ND	0.000510	0.00130	-	-	-
Acenaphthylene	ND	0.000300	0.00130	-	-	-
Acetochlor	ND	0.0320	0.250	-	-	-
Anthracene	ND	0.000850	0.00130	-	-	-
Benzidine	ND	0.120	1.20	-	-	-
Benzo (a) anthracene	ND	0.00400	0.0130	-	-	-
Benzo (a) pyrene	ND	0.00120	0.00250	-	-	-
Benzo (b) fluoranthene	ND	0.00110	0.00630	-	-	-
Benzo (g,h,i) perylene	ND	0.00160	0.00250	-	-	-
Benzo (k) fluoranthene	ND	0.00120	0.00130	-	-	-
Benzyl Alcohol	ND	0.630	1.20	-	-	-
1,1-Biphenyl	ND	0.00280	0.0130	-	-	-
Bis (2-chloroethoxy) Methane	ND	0.0280	0.250	-	-	-
Bis (2-chloroethyl) Ether	ND	0.00150	0.00250	-	-	-
Bis (2-chloroisopropyl) Ether	ND	0.00350	0.0130	-	-	-
Bis (2-ethylhexyl) Adipate	ND	0.0440	0.250	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	0.0110	0.0250	-	-	-
4-Bromophenyl Phenyl Ether	ND	0.0330	0.250	-	-	-
Butylbenzyl Phthalate	ND	0.00550	0.0250	-	-	-
4-Chloroaniline	ND	0.000660	0.00250	-	-	-
4-Chloro-3-methylphenol	ND	0.0320	0.250	-	-	-
2-Chloronaphthalene	ND	0.0200	0.250	-	-	-
2-Chlorophenol	ND	0.00190	0.0130	-	-	-
4-Chlorophenyl Phenyl Ether	ND	0.0290	0.250	-	-	-
Chrysene	ND	0.00140	0.00250	-	-	-
Dibenzo (a,h) anthracene	ND	0.00140	0.00250	-	-	-
Dibenzofuran	ND	0.0150	0.250	-	-	-
Di-n-butyl Phthalate	ND	0.00520	0.0130	-	-	-
1,2-Dichlorobenzene	ND	0.0170	0.250	-	-	-
1,3-Dichlorobenzene	ND	0.0210	0.250	-	-	-
1,4-Dichlorobenzene	ND	0.0270	0.250	-	-	-
3,3-Dichlorobenzidine	ND	0.00100	0.00250	-	-	-
2,4-Dichlorophenol	ND	0.000500	0.0130	-	-	-
Diethyl Phthalate	ND	0.00350	0.0130	-	-	-
2,4-Dimethylphenol	ND	0.0310	0.250	-	-	-
Dimethyl Phthalate	ND	0.00120	0.00250	-	-	-
4,6-Dinitro-2-methylphenol	ND	0.180	1.20	-	-	-

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/26/2020	**BatchID:**	200792
Date Analyzed:	06/26/2020 - 06/29/2020	**Extraction Method:**	SW3550B/3640A
Instrument:	GC17, GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200792 2006A30-003BMS/MSD

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
2,4-Dinitrophenol	ND	0.160	0.250	-	-	-
2,4-Dinitrotoluene	ND	0.00240	0.0130	-	-	-
2,6-Dinitrotoluene	ND	0.00150	0.0130	-	-	-
Di-n-octyl Phthalate	ND	0.00490	0.0130	-	-	-
1,2-Diphenylhydrazine	ND	0.0300	0.250	-	-	-
Fluoranthene	ND	0.00120	0.00130	-	-	-
Fluorene	ND	0.00110	0.00250	-	-	-
Hexachlorobenzene	ND	0.000380	0.00130	-	-	-
Hexachlorobutadiene	ND	0.000170	0.00250	-	-	-
Hexachlorocyclopentadiene	ND	0.150	2.00	-	-	-
Hexachloroethane	ND	0.00160	0.0130	-	-	-
Indeno (1,2,3-cd) pyrene	ND	0.00240	0.0130	-	-	-
Isophorone	ND	0.0460	0.250	-	-	-
2-Methylnaphthalene	ND	0.000540	0.00250	-	-	-
2-Methylphenol (o-Cresol)	ND	0.0570	0.250	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	0.0720	0.250	-	-	-
Naphthalene	ND	0.000550	0.00130	-	-	-
2-Nitroaniline	ND	0.0870	1.20	-	-	-
3-Nitroaniline	ND	0.0910	1.20	-	-	-
4-Nitroaniline	ND	0.130	1.20	-	-	-
Nitrobenzene	ND	0.0250	0.250	-	-	-
2-Nitrophenol	ND	0.150	1.20	-	-	-
4-Nitrophenol	ND	0.380	1.20	-	-	-
N-Nitrosodimethylamine	ND	0.140	1.20	-	-	-
N-Nitrosodiphenylamine	ND	0.0260	0.250	-	-	-
N-Nitrosodi-n-propylamine	ND	0.0770	0.250	-	-	-
Pentachlorophenol	ND	0.00990	0.0620	-	-	-
Phenanthrene	ND	0.00120	0.00500	-	-	-
Phenol	ND	0.00500	0.0500	-	-	-
Pyrene	ND	0.000930	0.00250	-	-	-
Pyridine	ND	0.0480	0.250	-	-	-
1,2,4-Trichlorobenzene	ND	0.0250	0.250	-	-	-
2,4,5-Trichlorophenol	ND	0.000740	0.00250	-	-	-
2,4,6-Trichlorophenol	ND	0.000840	0.0130	-	-	-

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/26/2020	**BatchID:**	200792
Date Analyzed:	06/26/2020 - 06/29/2020	**Extraction Method:**	SW3550B/3640A
Instrument:	GC17, GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200792 2006A30-003BMS/MSD

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
2-Fluorophenol	1.18			1.25	94	60-130
Phenol-d5	1.14			1.25	91	60-130
Nitrobenzene-d5	0.929			1.25	74	60-130
2-Fluorobiphenyl	1.07			1.25	85	60-130
2,4,6-Tribromophenol	0.906			1.25	72	50-130
4-Terphenyl-d14	1.36			1.25	109	50-130

(Cont.)

Quality Control Report

Client: P & D Environmental
Date Prepared: 06/26/2020
Date Analyzed: 06/26/2020 - 06/29/2020
Instrument: GC17, GC21
Matrix: Soil
Project: 0772; The Phoenix 801 Pine Street Oakland, CA

WorkOrder: 2006A30
BatchID: 200792
Extraction Method: SW3550B/3640A
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS/LCSD-200792
2006A30-003BMS/MSD

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acenaphthene	0.106	0.102	0.12	85	81	60-130	3.91	30
Acenaphthylene	0.109	0.105	0.12	87	84	60-130	3.18	30
Anthracene	0.115	0.108	0.12	92	86	60-130	6.88	30
Benzidine	6.99	6.72	12.5	56	54	30-130	3.85	30
Benzo (a) anthracene	0.115	0.109	0.12	92	87	60-130	5.62	30
Benzo (a) pyrene	0.123	0.117	0.12	99	94	60-130	5.10	30
Benzo (b) fluoranthene	0.116	0.111	0.12	93	89	40-130	4.63	30
Benzo (g,h,i) perylene	0.120	0.108	0.12	96	86	60-130	10.2	30
Benzo (k) fluoranthene	0.118	0.113	0.12	94	90	60-130	4.41	30
Benzyl Alcohol	11.6	11.2	12.5	93	89	60-130	4.12	30
Bis (2-chloroethoxy) Methane	2.16	2.05	2.5	87	82	60-130	5.28	30
Bis (2-chloroethyl) Ether	0.121	0.114	0.12	97	91	60-130	5.96	30
Bis (2-chloroisopropyl) Ether	0.0966	0.0935	0.12	77	75	60-130	3.34	30
Bis (2-ethylhexyl) Adipate	2.29	2.15	2.5	91	86	40-130	6.13	30
Bis (2-ethylhexyl) Phthalate	0.124	0.121	0.12	99	97	60-130	2.54	30
4-Bromophenyl Phenyl Ether	1.96	1.76	2.5	79	71	60-130	10.7	30
Butylbenzyl Phthalate	0.123	0.118	0.12	98	94	60-130	3.79	30
4-Chloroaniline	0.109	0.102	0.12	87	81	40-130	6.83	30
4-Chloro-3-methylphenol	2.37	2.19	2.5	95	88	60-130	7.81	30
2-Chloronaphthalene	2.16	2.06	2.5	86	82	60-130	4.78	30
2-Chlorophenol	0.133	0.131	0.12	107	105	60-130	1.87	30
4-Chlorophenyl Phenyl Ether	2.00	1.90	2.5	80	76	60-130	4.68	30
Chrysene	0.106	0.100	0.12	85	80	60-130	5.41	30
Dibenzo (a,h) anthracene	0.118	0.111	0.12	94	89	60-130	5.70	30
Dibenzofuran	2.04	1.96	2.5	82	78	60-130	4.19	30
Di-n-butyl Phthalate	0.113	0.108	0.12	90	87	60-130	4.39	30
1,2-Dichlorobenzene	1.87	1.82	2.5	75	73	60-130	2.90	30
1,3-Dichlorobenzene	1.87	1.80	2.5	75	72	60-130	4.29	30
1,4-Dichlorobenzene	1.80	1.70	2.5	72	68	60-130	6.08	30
3,3-Dichlorobenzidine	0.0948	0.0904	0.12	76	72	40-130	4.78	30
2,4-Dichlorophenol	0.116	0.108	0.12	93	87	60-130	7.07	30
Diethyl Phthalate	0.119	0.117	0.12	95	93	60-130	2.06	30
2,4-Dimethylphenol	2.53	2.30	2.5	101	92	60-130	9.69	30
Dimethyl Phthalate	0.114	0.109	0.12	91	87	60-130	4.44	30
4,6-Dinitro-2-methylphenol	9.94	9.50	12.5	80	76	30-130	4.53	30
2,4-Dinitrophenol	2.02	2.09	2.5	81	84	15-130	3.30	30
2,4-Dinitrotoluene	0.114	0.113	0.12	91	90	60-130	0.952	30
2,6-Dinitrotoluene	0.111	0.109	0.12	88	87	60-130	1.20	30

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/26/2020	**BatchID:**	200792
Date Analyzed:	06/26/2020 - 06/29/2020	**Extraction Method:**	SW3550B/3640A
Instrument:	GC17, GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200792 2006A30-003BMS/MSD

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Di-n-octyl Phthalate	0.137	0.136	0.12	109	109	60-130	0.391	30
1,2-Diphenylhydrazine	2.00	1.82	2.5	80	73	60-130	9.45	30
Fluoranthene	0.126	0.120	0.12	101	96	60-130	4.95	30
Fluorene	0.124	0.120	0.12	99	96	60-130	3.50	30
Hexachlorobenzene	0.111	0.0895	0.12	88	72	60-130	21.1	30
Hexachlorobutadiene	0.0973	0.0886	0.12	78	71	60-130	9.31	30
Hexachlorocyclopentadiene	6.78	6.47	12.5	54	52	40-130	4.67	30
Hexachloroethane	0.102	0.0968	0.12	82	77	60-130	5.49	30
Indeno (1,2,3-cd) pyrene	0.115	0.106	0.12	92	85	60-130	7.81	30
Isophorone	2.24	2.06	2.5	89	82	60-130	8.29	30
2-Methylnaphthalene	0.106	0.0991	0.12	85	79	60-130	6.82	30
2-Methylphenol (o-Cresol)	2.29	2.28	2.5	91	91	60-130	0.0864	30
3 & 4-Methylphenol (m,p-Cresol)	2.37	2.42	2.5	95	97	60-130	2.02	30
Naphthalene	0.106	0.0991	0.12	85	79	60-130	6.49	30
2-Nitroaniline	9.88	9.52	12.5	79	76	60-130	3.73	30
3-Nitroaniline	10.1	9.79	12.5	81	78	30-130	3.56	30
4-Nitroaniline	10.1	9.95	12.5	81	80	60-130	1.49	30
Nitrobenzene	2.21	2.06	2.5	88	83	60-130	6.66	30
2-Nitrophenol	10.8	10.1	12.5	86	81	60-130	6.24	30
4-Nitrophenol	12.3	12.0	12.5	98	96	60-130	2.75	30
N-Nitrosodiphenylamine	2.09	1.94	2.5	84	78	60-130	7.30	30
N-Nitrosodi-n-propylamine	2.04	2.01	2.5	81	80	60-130	1.20	30
Pentachlorophenol	0.593	0.553	0.62	95	89	40-130	6.89	30
Phenanthrene	0.102	0.0957	0.12	82	77	60-130	6.59	30
Phenol	0.536	0.520	0.50	107	104	60-130	2.88	30
Pyrene	0.114	0.109	0.12	91	87	60-130	4.54	30
Pyridine	1.30	1.37	2.5	52	55	30-130	5.32	30
1,2,4-Trichlorobenzene	1.80	1.68	2.5	72	67	60-130	6.82	30
2,4,5-Trichlorophenol	0.118	0.114	0.12	94	91	60-130	3.26	30
2,4,6-Trichlorophenol	0.125	0.118	0.12	100	94	60-130	6.02	30

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/26/2020	**BatchID:**	200792
Date Analyzed:	06/26/2020 - 06/29/2020	**Extraction Method:**	SW3550B/3640A
Instrument:	GC17, GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200792 2006A30-003BMS/MSD

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
2-Fluorophenol	1.27	1.30	1.25	101	104	60-130	2.82	30
Phenol-d5	1.24	1.29	1.25	99	103	60-130	4.10	30
Nitrobenzene-d5	1.03	1.03	1.25	82	82	60-130	0.119	30
2-Fluorobiphenyl	0.968	0.971	1.25	77	78	60-130	0.278	30
2,4,6-Tribromophenol	0.977	0.958	1.25	78	77	50-130	1.92	30
4-Terphenyl-d14	0.949	1.00	1.25	76	80	50-130	5.39	30

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acenaphthene	1	0.103	0.106	0.12	ND	82	85	60-130	2.67	30
Acenaphthylene	1	0.109	0.111	0.12	ND	86	88	60-130	2.33	30
Anthracene	1	0.112	0.117	0.12	ND	90	94	60-130	4.50	30
Benzidine	1	8.60	8.37	12.5	ND	69	67	30-130	2.71	30
Benzo (a) anthracene	1	0.116	0.117	0.12	ND	93	94	60-130	0.606	30
Benzo (a) pyrene	1	0.126	0.128	0.12	0.003617	98	100	60-130	1.47	30
Benzo (b) fluoranthene	1	0.121	0.124	0.62	ND	19,F1	19,F1	40-130	2.63	30
Benzo (g,h,i) perylene	1	0.114	0.117	0.12	ND	89	91	60-130	2.34	30
Benzo (k) fluoranthene	1	0.122	0.123	0.12	0.001714	96	97	60-130	1.12	30
Benzyl Alcohol	1	13.0	12.4	12.5	ND	104	99	60-130	5.23	30
Bis (2-chloroethoxy) Methane	1	2.14	2.16	2.5	ND	86	86	60-130	0.758	30
Bis (2-chloroethyl) Ether	1	0.107	0.109	0.12	ND	86	87	60-130	1.58	30
Bis (2-chloroisopropyl) Ether	1	0.0946	0.0968	0.12	ND	76	77	60-130	2.21	30
Bis (2-ethylhexyl) Adipate	1	2.44	2.48	2.5	ND	98	99	40-130	1.76	30
Bis (2-ethylhexyl) Phthalate	1	0.136	0.142	0.12	ND	109	114	60-130	4.33	30
4-Bromophenyl Phenyl Ether	1	1.96	1.98	2.5	ND	78	79	60-130	1.15	30
Butylbenzyl Phthalate	1	0.127	0.131	0.12	ND	101	105	60-130	3.19	30
4-Chloroaniline	1	0.102	0.107	0.12	ND	81	85	40-130	4.65	30
4-Chloro-3-methylphenol	1	2.46	2.36	2.5	ND	98	94	60-130	4.06	30
2-Chloronaphthalene	1	2.07	2.14	2.5	ND	83	86	60-130	3.25	30
2-Chlorophenol	1	0.148	0.146	0.12	ND	119	117	60-130	1.29	30
4-Chlorophenyl Phenyl Ether	1	2.01	2.03	2.5	ND	80	81	60-130	0.908	30
Chrysene	1	0.106	0.106	0.12	ND	84	83	60-130	0.411	30
Dibenzo (a,h) anthracene	1	0.111	0.116	0.12	ND	89	93	60-130	4.87	30
Dibenzofuran	1	2.02	2.02	2.5	ND	81	81	60-130	0.239	30
Di-n-butyl Phthalate	1	0.114	0.121	0.12	ND	92	97	60-130	5.86	30

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/26/2020	**BatchID:**	200792
Date Analyzed:	06/26/2020 - 06/29/2020	**Extraction Method:**	SW3550B/3640A
Instrument:	GC17, GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200792 2006A30-003BMS/MSD

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,2-Dichlorobenzene	1	1.84	1.88	2.5	ND	74	75	60-130	1.88	30
1,3-Dichlorobenzene	1	1.82	1.85	2.5	ND	73	74	60-130	1.38	30
1,4-Dichlorobenzene	1	1.71	1.75	2.5	ND	68	70	60-130	2.42	30
3,3-Dichlorobenzidine	1	0.106	0.108	0.12	ND	85	87	40-130	1.89	30
2,4-Dichlorophenol	1	0.120	0.118	2.5	ND	5,F1	5,F1	60-130	2.09	30
Diethyl Phthalate	1	0.117	0.121	0.12	ND	94	97	60-130	3.02	30
2,4-Dimethylphenol	1	2.58	2.58	2.5	ND	103	103	60-130	0.0728	30
Dimethyl Phthalate	1	0.112	0.116	0.12	ND	90	93	60-130	3.99	30
4,6-Dinitro-2-methylphenol	1	8.54	9.20	12.5	ND	68	74	30-130	7.43	30
2,4-Dinitrophenol	1	1.45	1.74	2.5	ND	58	69	15-130	17.8	30
2,4-Dinitrotoluene	1	0.111	0.116	0.12	ND	88	93	60-130	4.51	30
2,6-Dinitrotoluene	1	0.112	0.117	0.12	ND	90	94	60-130	4.11	30
Di-n-octyl Phthalate	1	0.169	0.179	0.12	ND	135,F1	143,F1	60-130	5.84	30
1,2-Diphenylhydrazine	1	2.04	2.04	2.5	ND	81	82	60-130	0.447	30
Fluoranthene	1	0.120	0.126	0.12	0.002121	94	99	60-130	4.36	30
Fluorene	1	0.114	0.116	0.12	ND	91	93	60-130	1.93	30
Hexachlorobenzene	1	0.0957	0.111	0.12	ND	77	89	60-130	14.9	30
Hexachlorobutadiene	1	0.0872	0.0900	0.12	ND	70	72	60-130	3.09	30
Hexachlorocyclopentadiene	1	6.03	6.46	12.5	ND	48	52	40-130	6.98	30
Hexachloroethane	1	0.0966	0.0969	0.12	ND	77	78	60-130	0.330	30
Indeno (1,2,3-cd) pyrene	1	0.108	0.110	0.12	ND	85	86	60-130	1.91	30
Isophorone	1	2.27	2.27	2.5	ND	91	91	60-130	0.0848	30
2-Methylnaphthalene	1	0.103	0.104	0.12	ND	82	83	60-130	1.02	30
2-Methylphenol (o-Cresol)	1	2.46	2.31	2.5	ND	98	92	60-130	6.48	30
3 & 4-Methylphenol (m,p-Cresol)	1	2.77	2.56	2.5	ND	111	102	60-130	7.92	30
Naphthalene	1	0.101	0.104	0.12	ND	81	83	60-130	3.53	30
2-Nitroaniline	1	9.77	10.0	12.5	ND	77	79	60-130	2.45	30
3-Nitroaniline	1	10.4	10.6	12.5	ND	83	84	30-130	1.67	30
4-Nitroaniline	1	10.2	10.5	12.5	ND	82	84	60-130	3.07	30
Nitrobenzene	1	2.12	2.16	2.5	ND	85	86	60-130	1.56	30
2-Nitrophenol	1	10.8	11.0	12.5	ND	86	88	60-130	1.72	30
4-Nitrophenol	1	11.3	11.9	12.5	ND	90	95	60-130	5.26	30
N-Nitrosodiphenylamine	1	2.08	2.14	2.5	ND	83	86	60-130	3.07	30
N-Nitrosodi-n-propylamine	1	2.21	2.14	2.5	ND	88	86	60-130	2.96	30
Pentachlorophenol	1	0.539	0.552	0.62	ND	86	88	40-130	2.51	30
Phenanthrene	1	0.0995	0.103	0.12	ND	80	82	60-130	3.14	30
Phenol	1	0.628	0.574	0.50	ND	126	115	60-130	8.93	30
Pyrene	1	0.122	0.125	0.12	0.003169	95	97	60-130	2.02	30

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/26/2020	**BatchID:**	200792
Date Analyzed:	06/26/2020 - 06/29/2020	**Extraction Method:**	SW3550B/3640A
Instrument:	GC17, GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200792 2006A30-003BMS/MSD

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Pyridine	1	1.60	1.63	2.5	ND	64	65	30-130	1.84	30
1,2,4-Trichlorobenzene	1	1.68	1.73	2.5	ND	67	69	60-130	3.13	30
2,4,5-Trichlorophenol	1	0.123	0.126	0.12	ND	98	101	60-130	2.73	30
2,4,6-Trichlorophenol	1	0.127	0.130	0.12	ND	102	104	60-130	1.84	30
Surrogate Recovery										
2-Fluorophenol	1	1.42	1.40	1.25		114	112	60-130	1.11	30
Phenol-d5	1	1.40	1.35	1.25		112	108	60-130	3.04	30
Nitrobenzene-d5	1	1.04	1.05	1.25		83	84	60-130	1.30	30
2-Fluorobiphenyl	1	0.949	0.962	1.25		76	77	60-130	1.31	30
2,4,6-Tribromophenol	1	0.967	1.01	1.25		77	81	50-130	4.55	30
4-Terphenyl-d14	1	1.03	1.06	1.25		83	84	50-130	2.15	30

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/22/2020	**BatchID:**	200432
Date Analyzed:	06/23/2020	**Extraction Method:**	SW3050B
Instrument:	ICP-MS4	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200432 2006A30-002BMS/MSD 2006A30-002BPDS

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Antimony	ND	0.160	0.500	-	-	-
Arsenic	ND	0.150	0.500	-	-	-
Barium	ND	0.570	5.00	-	-	-
Beryllium	ND	0.0730	0.500	-	-	-
Cadmium	ND	0.0610	0.500	-	-	-
Chromium	ND	0.130	0.500	-	-	-
Cobalt	ND	0.0520	0.500	-	-	-
Copper	ND	0.180	0.500	-	-	-
Lead	ND	0.140	0.500	-	-	-
Mercury	ND	0.0320	0.0500	-	-	-
Molybdenum	ND	0.160	0.500	-	-	-
Nickel	ND	0.170	0.500	-	-	-
Selenium	ND	0.150	0.500	-	-	-
Silver	ND	0.120	0.500	-	-	-
Thallium	ND	0.0670	0.500	-	-	-
Vanadium	ND	0.130	0.500	-	-	-
Zinc	ND	3.00	5.00	-	-	-
Surrogate Recovery						
Terbium	603			500	121	70-130

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/22/2020	**BatchID:**	200432
Date Analyzed:	06/23/2020	**Extraction Method:**	SW3050B
Instrument:	ICP-MS4	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200432 2006A30-002BMS/MSD 2006A30-002BPDS

QC Summary Report for Metals

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Antimony	51.8	51.7	50	104	103	75-125	0.288	20
Arsenic	50.7	48.9	50	101	98	75-125	3.52	20
Barium	505	496	500	101	99	75-125	1.95	20
Beryllium	49.1	49.3	50	98	99	75-125	0.392	20
Cadmium	49.4	48.7	50	99	97	75-125	1.37	20
Chromium	49.5	49.0	50	99	98	75-125	0.956	20
Cobalt	48.4	48.1	50	97	96	75-125	0.580	20
Copper	51.3	50.1	50	103	100	75-125	2.23	20
Lead	47.8	47.6	50	96	95	75-125	0.399	20
Mercury	1.26	1.18	1.25	101	95	75-125	6.06	20
Molybdenum	50.7	50.3	50	101	101	75-125	0.749	20
Nickel	51.4	50.4	50	103	101	75-125	1.86	20
Selenium	52.2	50.5	50	105	101	75-125	3.35	20
Silver	48.8	48.6	50	98	97	75-125	0.479	20
Thallium	47.9	48.0	50	96	96	75-125	0.260	20
Vanadium	50.4	49.5	50	101	99	75-125	1.71	20
Zinc	510	500	500	102	100	75-125	1.91	20
Surrogate Recovery								
Terbium	505	505	500	101	101	70-130	0.0418	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Antimony	1	51.4	55.4	50	0.6020	102	110	75-125	7.44	20
Arsenic	1	50.7	52.1	50	2.017	97	100	75-125	2.75	20
Barium	1	553	680	500	59.58	99	124	75-125	20.6,F10	20
Beryllium	1	47.4	50.4	50	ND	94	101	75-125	6.17	20
Cadmium	1	48.4	49.3	50	ND	97	98	75-125	1.85	20
Chromium	1	86.4	92.5	50	37.26	98	110	75-125	6.80	20
Cobalt	1	49.1	52.4	50	3.120	92	99	75-125	6.49	20
Copper	1	61.8	120	50	17.17	89	205,F10	75-125	63.8,F10	20
Lead	1	290	2100	50	346.8	0,F13	3510,F1	75-125	NA	20
Mercury	1	1.34	1.33	1.25	0.05500	102	102	75-125	0.751	20
Molybdenum	1	50.1	52.6	50	ND	100	105	75-125	4.83	20
Nickel	1	70.6	74.8	50	19.65	102	110	75-125	5.78	20
Selenium	1	47.9	50.3	50	ND	95	100	75-125	4.82	20
Silver	1	47.5	50.8	50	ND	95	102	75-125	6.77	20

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/22/2020	**BatchID:**	200432
Date Analyzed:	06/23/2020	**Extraction Method:**	SW3050B
Instrument:	ICP-MS4	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200432 2006A30-002BMS/MSD 2006A30-002BPDS

QC Summary Report for Metals

Analyte	**MS DF**	**MS Result**	**MSD Result**	**SPK Val**	**SPKRef Val**	**MS %REC**	**MSD %REC**	**MS/MSD Limits**	**RPD**	**RPD Limit**
Thallium	1	48.8	50.2	50	ND	98	100	75-125	2.81	20
Vanadium	1	75.2	77.8	50	24.82	101	106	75-125	3.32	20
Zinc	1	562	813	500	81.91	96	146,F10	75-125	36.5,F10	20
Surrogate Recovery										
Terbium	1	501	526	500		100	105	70-130	4.91	20

Analyte	**PDS Result**	**SPK Val**	**SPKRef Val**	**PDS %REC**	**PDS Limits**
Barium	590	500	59.58	106	75-125
Copper	68.8	50	17.17	103	75-125
Zinc	606	500	81.91	105	75-125

Analyte	**DLT Result**	**DLTRef Val**	**%D**	**%D Limit**
Antimony	ND<2.50	0.6020	-	-
Arsenic	ND<2.50	2.017	-	-
Barium	60.3	59.58	1.21	-
Beryllium	ND<2.50	ND	-	-
Cadmium	ND<2.50	ND	-	-
Chromium	37.9	37.26	1.72	20
Cobalt	3.24	3.120	3.85	-
Copper	17.9	17.17	4.25	20
Lead	346	346.8	0.231	20
Mercury	ND<0.250	0.05500	-	-
Molybdenum	ND<2.50	ND	-	-
Nickel	20.6	19.65	4.83	20
Selenium	ND<2.50	ND	-	-
Silver	ND<2.50	ND	-	-
Thallium	ND<2.50	ND	-	-
Vanadium	25.7	24.82	3.55	20
Zinc	103	81.91	25.7	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/23/2020	**BatchID:**	200520
Date Analyzed:	06/23/2020	**Extraction Method:**	SW3050B
Instrument:	ICP-MS5	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200520

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Antimony	ND	0.160	0.500	-	-	-
Arsenic	ND	0.150	0.500	-	-	-
Barium	ND	0.570	5.00	-	-	-
Beryllium	ND	0.0730	0.500	-	-	-
Cadmium	0.0630,J	0.0610	0.500	-	-	-
Chromium	ND	0.130	0.500	-	-	-
Cobalt	ND	0.0520	0.500	-	-	-
Copper	ND	0.180	0.500	-	-	-
Lead	ND	0.140	0.500	-	-	-
Mercury	ND	0.0320	0.0500	-	-	-
Molybdenum	ND	0.160	0.500	-	-	-
Nickel	ND	0.170	0.500	-	-	-
Selenium	ND	0.150	0.500	-	-	-
Silver	ND	0.120	0.500	-	-	-
Thallium	ND	0.0670	0.500	-	-	-
Vanadium	ND	0.130	0.500	-	-	-
Zinc	ND	3.00	5.00	-	-	-
Surrogate Recovery						
Terbium	517			500	103	70-130

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/23/2020	**BatchID:**	200520
Date Analyzed:	06/23/2020	**Extraction Method:**	SW3050B
Instrument:	ICP-MS5	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200520

QC Summary Report for Metals

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Antimony	53.9	48.3	50	108	97	75-125	11.0	20
Arsenic	54.9	50.0	50	110	100	75-125	9.33	20
Barium	523	474	500	105	95	75-125	9.80	20
Beryllium	54.0	49.3	50	108	99	75-125	9.06	20
Cadmium	53.4	48.4	50	107	97	75-125	9.69	20
Chromium	54.6	48.8	50	109	98	75-125	11.3	20
Cobalt	53.1	48.4	50	106	97	75-125	9.22	20
Copper	54.7	49.6	50	109	99	75-125	9.92	20
Lead	51.3	47.3	50	103	95	75-125	8.17	20
Mercury	1.32	1.20	1.25	106	96	75-125	9.49	20
Molybdenum	52.3	47.4	50	105	95	75-125	10.0	20
Nickel	55.8	50.5	50	112	101	75-125	9.91	20
Selenium	54.3	49.4	50	109	99	75-125	9.51	20
Silver	50.0	45.1	50	100	90	75-125	10.3	20
Thallium	52.0	48.2	50	104	96	75-125	7.60	20
Vanadium	54.5	48.3	50	109	97	75-125	11.9	20
Zinc	544	493	500	109	99	75-125	9.74	20
Surrogate Recovery								
Terbium	542	494	500	108	99	70-130	9.40	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/19/2020	**BatchID:**	200393
Date Analyzed:	06/19/2020 - 06/20/2020	**Extraction Method:**	SW5035
Instrument:	GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200393

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	0.700	1.00	-	-	-
MTBE	ND	0.00400	0.0500	-	-	-
Benzene	ND	0.00300	0.00500	-	-	-
Toluene	ND	0.00200	0.00500	-	-	-
Ethylbenzene	ND	0.00220	0.00500	-	-	-
m,p-Xylene	ND	0.00300	0.0100	-	-	-
o-Xylene	ND	0.00100	0.00500	-	-	-
Surrogate Recovery						
2-Fluorotoluene	0.0946			0.1	95	75-134

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	0.633	0.685	0.60	105	114	82-118	7.96	20
MTBE	0.104	0.103	0.10	104	103	61-119	1.84	20
Benzene	0.102	0.105	0.10	102	105	77-128	2.87	20
Toluene	0.104	0.108	0.10	103	108	74-132	4.67	20
Ethylbenzene	0.102	0.108	0.10	102	107	84-127	4.88	20
m,p-Xylene	0.216	0.224	0.20	108	112	80-120	3.50	20
o-Xylene	0.101	0.104	0.10	101	104	80-120	2.56	20
Surrogate Recovery								
2-Fluorotoluene	0.0932	0.0996	0.10	93	100	75-134	6.70	20

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/22/2020	**BatchID:**	200543
Date Analyzed:	06/23/2020	**Extraction Method:**	ASTM D2216-05
Instrument:	WetChem	**Analytical Method:**	E8000
Matrix:	Soil	**Unit:**	wet wt%
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB-200543

QC Summary Report for Percent Moisture

Analyte	MB Result	MDL	RL			
% Moisture	ND	0.100	0.100	-	-	-

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/23/2020	**BatchID:**	200618
Date Analyzed:	06/24/2020	**Extraction Method:**	ASTM D2216-05
Instrument:	WetChem	**Analytical Method:**	E8000
Matrix:	Soil	**Unit:**	wet wt%
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB-200618 2006A30-003B

QC Summary Report for Percent Moisture

Analyte	MB Result	MDL	RL			
% Moisture	ND	0.100	0.100	-	-	-

Analyte	SAMP Result	DUP Result	RPD	RPD Limit
% Moisture	7.12	6.88	3.48	15

(Cont.)

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/24/2020	**BatchID:**	200660
Date Analyzed:	06/25/2020	**Extraction Method:**	ASTM D2216-05
Instrument:	WetChem	**Analytical Method:**	E8000
Matrix:	Soil	**Unit:**	wet wt%
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB-200660 2006A30-004B

QC Summary Report for Percent Moisture

Analyte	MB Result	MDL	RL			
% Moisture	ND	0.100	0.100	-	-	-

Analyte	SAMP Result	DUP Result	RPD	RPD Limit
% Moisture	5.91	5.87	0.577	15

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	2006A30
Date Prepared:	06/19/2020	**BatchID:**	200394
Date Analyzed:	06/19/2020	**Extraction Method:**	SW3550B
Instrument:	GC6A, GC6B	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	0772; The Phoenix 801 Pine Street Oakland, CA	**Sample ID:**	MB/LCS/LCSD-200394

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	0.830	1.00	-	-	-
TPH-Motor Oil (C18-C36)	ND	3.80	5.00	-	-	-
Surrogate Recovery						
C9	22.8			25	91	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	44.0	44.0	40	110	110	70-130	0.0439	20
Surrogate Recovery								
C9	22.1	21.9	25	88	88	70-130	0.993	20

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2006A30 **ClientCode: PDEO**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ▨ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
▨ Detection Summary ☑ Dry-Weight

Report to:
Paul King
P & D Environmental
55 Santa Clara Ave, Ste.240
Oakland, CA 94610
(510) 658-6916 FAX: 510-834-0152

Email: lab@pdenviro.com; Paul.King@pdenviro.c
cc/3rd Party:
PO:
Project: 0772; The Phoenix 801 Pine Street Oakland, CA

Bill to:
Accounts Payable
P & D Environmental
55 Santa Clara Ave, Ste.240
Oakland, CA 94610

Requested TAT: **5 days;**

Date Received: **06/19/2020**
Date Logged: **06/19/2020**

					Requested Tests (See legend below)											
Lab ID	**Client ID**	**Matrix**	**Collection Date**	**Hold**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
2006A30-001	B1-3.0	Soil	6/19/2020 09:35	☐	B	A	B	B	B	B	A		B			
2006A30-002	B1-4.0	Soil	6/19/2020 09:40	☑	B	A	B	B	B	B	A	A	B			
2006A30-003	B1-5.0	Soil	6/19/2020 10:50	☐	B	A	B	B	B	B	A		B			
2006A30-004	B2-2.0	Soil	6/19/2020 10:20	☐	B	A	B	B	B	B	A		B			
2006A30-005	B2-4.0	Soil	6/19/2020 10:25	☐	B	A	B	B	B	B	A		B			
2006A30-006	B3-2.0	Soil	6/19/2020 11:30	☐	B	A	B	B	B	B	A		B			
2006A30-007	B3-4.0	Soil	6/19/2020 11:32	☐	B	A	B	B	B	B	A		B			
2006A30-008	B4-2.0	Soil	6/19/2020 11:57	☐	B	A	B	B	B	B	A		B			
2006A30-009	B4-4.0	Soil	6/19/2020 12:04	☐	B	A	B	B	B	B	A		B			

Test Legend:

1	**8081pcB_ESL_LL_S**	2	**8260B_SCAN-SIM_E**	3	**8270_SCSM_GPC_S**	4	**CAM17MS_TTLC_S**
5	**G-MBTEX_S**	6	**PERmoist_S**	7	**PRDisposal Fee**	8	**PRHOLD**
9	**TPH(DMO)_S**	10		11		12	

Project Manager: Angela Rydelius **Prepared by: Tina Perez**

The following SampIDs: 001B, 002B, 003B, 004B, 005B, 006B, 007B, 008B, 009B contain testgroup Multi Range_S.

Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com. P&D always gets charged $67 multi range price despite the extra analytes

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL

Project: 0772; The Phoenix 801 Pine Street Oakland, CA

Work Order: 2006A30

Client Contact: Paul King

QC Level: LEVEL 2

Contact's Email: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com. P&D always gets charged $67 multi range price despite the extra analytes

Date Logged: 6/19/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ▨ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2006A30-001A	B1-3.0	Soil	SW8260B (VOCs, Scan SIM) (Encore)	2	Encore Sampler	☐	6/19/2020 9:35	5 days		☐	
2006A30-001B	B1-3.0	Soil	ASTM D2216-05 (Percent Moisture)	1	Stainless Steel tube 2"x6"	☐	6/19/2020 9:35	5 days		☐	
			Multi-Range TPH			☐		5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	
			SW8270C (Low Level SVOCs) with GPC Cleanup			☐		5 days		☐	
			SW8081A/8082 (OC Pesticides+PCBs) ESLs			☐		5 days		☐	
2006A30-002A	B1-4.0	Soil	SW8260B (VOCs, Scan SIM) (Encore)	2	Encore Sampler	☐	6/19/2020 9:40	5 days		☑	
2006A30-002B	B1-4.0	Soil	ASTM D2216-05 (Percent Moisture)	1	Stainless Steel tube 2"x6"	☐	6/19/2020 9:40	5 days		☑	
			Multi-Range TPH			☐		5 days		☑	
			SW6020 (CAM 17)			☐		5 days		☑	
			SW8270C (Low Level SVOCs) with GPC Cleanup			☐		5 days		☑	
			SW8081A/8082 (OC Pesticides+PCBs) ESLs			☐		5 days		☑	
2006A30-003A	B1-5.0	Soil	SW8260B (VOCs, Scan SIM) (Encore)	2	Encore Sampler	☐	6/19/2020 10:50	5 days		☐	
2006A30-003B	B1-5.0	Soil	ASTM D2216-05 (Percent Moisture)	1	Stainless Steel tube 2"x6"	☐	6/19/2020 10:50	5 days		☐	
			Multi-Range TPH			☐		5 days		☐	

NOTES:
- **STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**
- **MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.**

WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL

Project: 0772; The Phoenix 801 Pine Street Oakland, CA

Work Order: 2006A30

Client Contact: Paul King

QC Level: LEVEL 2

Contact's Email: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com. P&D always

Date Logged: 6/19/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ▨ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2006A30-003B	B1-5.0	Soil	SW6020 (CAM 17)	1	Stainless Steel tube 2"x6"	☐	6/19/2020 10:50	5 days		☐	
			SW8270C (Low Level SVOCs) with GPC Cleanup			☐		5 days		☐	
			SW8081A/8082 (OC Pesticides+PCBs) ESLs			☐		5 days		☐	
2006A30-004A	B2-2.0	Soil	SW8260B (VOCs, Scan SIM) (Encore)	2	Encore Sampler	☐	6/19/2020 10:20	5 days		☐	
2006A30-004B	B2-2.0	Soil	ASTM D2216-05 (Percent Moisture)	1	Stainless Steel tube 2"x6"	☐	6/19/2020 10:20	5 days		☐	
			Multi-Range TPH			☐		5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	
			SW8270C (Low Level SVOCs) with GPC Cleanup			☐		5 days		☐	
			SW8081A/8082 (OC Pesticides+PCBs) ESLs			☐		5 days		☐	
2006A30-005A	B2-4.0	Soil	SW8260B (VOCs, Scan SIM) (Encore)	2	Encore Sampler	☐	6/19/2020 10:25	5 days		☐	
2006A30-005B	B2-4.0	Soil	ASTM D2216-05 (Percent Moisture)	1	Stainless Steel tube 2"x6"	☐	6/19/2020 10:25	5 days		☐	
			Multi-Range TPH			☐		5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	
			SW8270C (Low Level SVOCs) with GPC Cleanup			☐		5 days		☐	

NOTES: **- STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL

Client Contact: Paul King

Contact's Email: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com

Project: 0772; The Phoenix 801 Pine Street Oakland, CA

Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com. P&D always

Work Order: 2006A30

QC Level: LEVEL 2

Date Logged: 6/19/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ▨ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2006A30-005B	B2-4.0	Soil	SW8081A/8082 (OC Pesticides+PCBs) ESLs	1	Stainless Steel tube 2"x6"	☐	6/19/2020 10:25	5 days		☐	
2006A30-006A	B3-2.0	Soil	SW8260B (VOCs, Scan SIM) (Encore)	2	Encore Sampler	☐	6/19/2020 11:30	5 days		☐	
2006A30-006B	B3-2.0	Soil	ASTM D2216-05 (Percent Moisture)	1	Stainless Steel tube 2"x6"	☐	6/19/2020 11:30	5 days		☐	
			Multi-Range TPH			☐		5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	
			SW8270C (Low Level SVOCs) with GPC Cleanup			☐		5 days		☐	
			SW8081A/8082 (OC Pesticides+PCBs) ESLs			☐		5 days		☐	
2006A30-007A	B3-4.0	Soil	SW8260B (VOCs, Scan SIM) (Encore)	2	Encore Sampler	☐	6/19/2020 11:32	5 days		☐	
2006A30-007B	B3-4.0	Soil	ASTM D2216-05 (Percent Moisture)	1	Stainless Steel tube 2"x6"	☐	6/19/2020 11:32	5 days		☐	
			Multi-Range TPH			☐		5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	
			SW8270C (Low Level SVOCs) with GPC Cleanup			☐		5 days		☐	
			SW8081A/8082 (OC Pesticides+PCBs) ESLs			☐		5 days		☐	
2006A30-008A	B4-2.0	Soil	SW8260B (VOCs, Scan SIM) (Encore)	2	Encore Sampler	☐	6/19/2020 11:57	5 days		☐	
2006A30-008B	B4-2.0	Soil	Multi-Range TPH	1	Stainless Steel tube 2"x6"	☐	6/19/2020 11:57	5 days		☐	

NOTES:
- **STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**
- **MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.**

WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL
Project: 0772; The Phoenix 801 Pine Street Oakland, CA
Work Order: 2006A30
Client Contact: Paul King
QC Level: LEVEL 2
Contact's Email: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com
Comments: Always send reports to: lab@pdenviro.com; Paul.King@pdenviro.com; pdking0000@aol.com. P&D always gets charged $67 multi-range price despite the extra analytes
Date Logged: 6/19/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ▨ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2006A30-008B	B4-2.0	Soil	ASTM D2216-05 (Percent Moisture)	1	Stainless Steel tube 2"x6"	☐	6/19/2020 11:57	5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	
			SW8270C (Low Level SVOCs) with GPC Cleanup			☐		5 days		☐	
			SW8081A/8082 (OC Pesticides+PCBs) ESLs			☐		5 days		☐	
2006A30-009A	B4-4.0	Soil	SW8260B (VOCs, Scan SIM) (Encore)	2	Encore Sampler	☐	6/19/2020 12:04	5 days		☐	
2006A30-009B	B4-4.0	Soil	ASTM D2216-05 (Percent Moisture)	1	Stainless Steel tube 2"x6"	☐	6/19/2020 12:04	5 days		☐	
			Multi-Range TPH			☐		5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	
			SW8270C (Low Level SVOCs) with GPC Cleanup			☐		5 days		☐	
			SW8081A/8082 (OC Pesticides+PCBs) ESLs			☐		5 days		☐	

NOTES:

- **STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**
- **MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.**

CHAIN OF CUSTODY RECORD

2006A30

PAGE 1 OF 1

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME: The Phoenix
801 Pine Street
Oakland, CA

SAMPLED BY: (PRINTED & SIGNATURE)

ANALYSIS(ES):

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	TPH-Multirange (G, D, MO)	VOCs by 8260 ESL Encore *	SVOCs by 8270 w/ GPC cleanup	OCPs + PCBs by 8081/8082 with ESL cleanup	CAM17 Metals	Percent Moisture			PRESERVATIVE	REMARKS
B1-3.0	6/19/20	0935	SOIL		3	X	X	X	X	X	X			ICE	Normal Turnaround Time
B1-4.0 *		0940		HOLD 6/22/2020 *	3	X	X	X	X	X	X				
B2-2.0		1020			3	X	X	X	X	X	X				
B2-4.0		1025			3	X	X	X	X	X	X				
B3-2.0		1130			3	X	X	X	X	X	X				
B3-4.0		1132			3	X	X	X	X	X	X				
B4-2.0		1157			3	X	X	X	X	X	X				
B4-4.0		1204			3	X	X	X	X	X	X				
B1-5.0		1050			3	X	X	X	X	X	X				

RELINQUISHED BY: (SIGNATURE)	DATE 6/19/20	TIME 14:24	RECEIVED BY: (SIGNATURE)	Total No. of Samples (This Shipment) 27 Total No. of Containers (This Shipment) 27	LABORATORY: McCampbell Analytical, Inc.
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	LABORATORY CONTACT: Angela Rydelius	LABORATORY PHONE NUMBER: (877) 252-9262
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES (X) NO	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: Please report results in wet & dry weights.

* use both Encores for VOC's.

7.0 °C wet

CHAIN OF CUSTODY RECORD

2006A30

PAGE 1 OF 1

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME: The Phoenix
801 Pine Street
Oakland, CA

SAMPLED BY: (PRINTED & SIGNATURE)

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): TPH-Multirange (G,D,MO)	VOCs by 8260 ESL Encore	SVOCs by 8270 w/ GPC cleanup	OCPs + PCBs by 8081/8082 with ESL cleanup	CAM 17 Metals	Percent Moisture			PRESERVATIVE	REMARKS
B1-3.0	6/19/20	0935	SOIL		3	X	X	X	X	X	X			ICE	Normal Turnaround Time
B1-4.0		0940			3	X	X	X	X	X	X				
B2-2.0		1020			3	X	X	X	X	X	X				
B2-4.0		1025			3	X	X	X	X	X	X				
B3-2.0		1130			3	X	X	X	X	X	X				
B3-4.0		1132			3	X	X	X	X	X	X				
B4-2.0		1157			3	X	X	X	X	X	X				
B4-4.0		1204			3	X	X	X	X	X	X				
B1-5.0		1050			3	X	X	X	X	X	X				

RELINQUISHED BY: (SIGNATURE)	DATE 6/19/20	TIME 14:24	RECEIVED BY: (SIGNATURE)	27 Total No. of Samples (This Shipment) 27 Total No. of Containers (This Shipment)
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	LABORATORY CONTACT: Angela Rydelius
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES [✓ NO]

LABORATORY: McCampbell Analytical, Inc.

LABORATORY PHONE NUMBER: (877) 252-9262

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: Please report results in wet + dry weights.

* use both Encores for VOC's.

7.0 °C wet

Sample Receipt Checklist

Client Name: **P & D Environmental**
Project: **0772; The Phoenix 801 Pine Street Oakland, CA**

WorkOrder №: **2006A30** Matrix: Soil
Carrier: Client Drop-In

Date and Time Received: **6/19/2020 14:24**
Date Logged: **6/19/2020**
Received by: Tina Perez
Logged by: Tina Perez

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Sample IDs noted by Client on COC?	Yes ☑	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐	
Sampler's name noted on COC?	Yes ☐	No ☑	
COC agrees with Quote?	Yes ☐	No ☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	NA ☐
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		
Sample/Temp Blank temperature	Temp: 7°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
UCMR Samples:			
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes ☐	No ☐	NA ☑

Comments:

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number:	429907
Report Level:	II
Report Date:	07/07/2020

Analytical Report *prepared for:*

Michael Bass-Deschenes
P&D Environmental
55 Santa Clara Ave.
Suite 240
Oakland, CA 94610

Project: 0772 - The Phoenix 801 Pine St. Oakland, Ca

Authorized for release by:

John Goyette, Director, Client Services
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038

Sample Summary

Michael Bass-Deschenes
P&D Environmental
55 Santa Clara Ave.
Suite 240
Oakland, CA 94610

Lab Job #: 429907
Project No: 0772
Location: The Phoenix 801 Pine St. Oakland, Ca
Date Received: 06/22/20

Sample ID	Lab ID	Collected	Matrix
SG1	429907-001	06/17/20 11:06	Air
SG2	429907-002	06/18/20 17:22	Air
SG3	429907-003	06/17/20 15:16	Air
SG4	429907-004	06/18/20 12:59	Air
SG4-DUP	429907-005	06/18/20 12:59	Air
SG5	429907-006	06/18/20 10:30	Air
SG6	429907-007	06/18/20 09:22	Air
SG6-DUP	429907-008	06/18/20 09:22	Air
SG7	429907-009	06/18/20 14:41	Air
SG8	429907-010	06/18/20 15:41	Air
SG9	429907-011	06/22/20 09:22	Air
SG11	429907-012	06/17/20 18:10	Air
SG12	429907-013	06/18/20 16:31	Air
SG13	429907-014	06/22/20 10:47	Air
SG14	429907-015	06/22/20 13:48	Air
SG15	429907-016	06/22/20 14:40	Air
SG17	429907-017	06/22/20 17:37	Air
SG18	429907-018	06/17/20 17:00	Air
SG19	429907-019	06/17/20 16:02	Air
SG20	429907-020	06/17/20 14:12	Air
SG21	429907-021	06/22/20 12:14	Air

Case Narrative

P&D Environmental	Lab Job Number:	429907
55 Santa Clara Ave.	Project No:	0772
Suite 240	Location:	The Phoenix 801 Pine St. Oakland, Ca
Oakland, CA 94610	Date Received:	06/22/20
Michael Bass-Deschenes		

This data package contains sample and QC results for twenty one air samples, requested for the above referenced project on 06/23/20. The samples were received intact.

Volatile Organics in Air by MS (EPA TO-15):
High ICAL percent RSD (relative standard deviation) was observed for 1,3,5-trimethylbenzene in the calibration analyzed 06/05/20 18:09; affected data was qualified with "b". No other analytical problems were encountered.

Volatile Organics in Air GC (ASTM D1946):
No analytical problems were encountered.

CHAIN OF CUSTODY RECORD 429907

PAGE 1 OF 5

P&D ENVIRONMENTAL, INC.

55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME: THE PHOENIX
801 PINE ST
OAKLAND, CA

SAMPLED BY: (PRINTED & SIGNATURE) MICHAEL BASS-DESCHENES Michael Bass-Deschenes

	SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION INIT. VAC	FINAL VAC	SUMMA #	PID (PPM)	NUMBER OF CONTAINERS	ANALYSIS(ES): VOCS TO-15	OXYGEN, CARBON DIOXIDE, AND +HELIUM ASTM D-1946							PRESERVATIVE	REMARKS	
1	SG1	6/17/20	110000	SOIL/GAS	-29		447		1	X	X							NONE	NORMAL	TAT
		6/17/20	110623	"		-5		0												
2	SG2	6/18/20	171500	"	-30		518		1	X	X							"	"	"
		6/18/20	172216	"		-5		12												
3	SG3	6/17/20	150900	"	-28		516		1	X	X							"	"	"
		6/17/20	151604	"		-5		0												
4	SG4	6/18/20	124500	"	-29		520		1	X	X							"	"	"
		6/18/20	125901	"		-5		0												
5	SG4-DUP	6/18/20	124500	"	-29		126		1	X	X							"	"	"
		6/18/20	125901	"		-5		0												

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)		
Michael Bass-Deschenes	6/22	19:00		Total No. of Samples (This Shipment): 21 Total No. of Containers (This Shipment): 21	LABORATORY: ENTHALPY ANALYTICAL
RELINQUISHED BY: (SIGNATURE) 6/23/20 13:33	DATE 6/24/20	TIME 1204	RECEIVED BY: (SIGNATURE)	LABORATORY CONTACT: WILL RICE	LABORATORY PHONE NUMBER: (510) 204-2221
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES [✓ NO]	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS:

CHAIN OF CUSTODY RECORD 429907

PAGE 2 OF 5

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME: THE PHOENIX
801 PINE ST.
OAKLAND, CA

SAMPLED BY: (PRINTED & SIGNATURE) MICHAEL BASS-DESCHENES Michael Bass-Deschenes

	SAMPLE NUMBER	DATE	TIME	TYPE	INIT VAC	FINAL VAC	SUMMA #	PID (PPM)	NUMBER OF CONTAINERS	ANALYSIS(ES): VOCs BY TO-15	OXYGEN, CARBON DIOXIDE, AND HELIUM BY ASTM D-1946						PRESERVATIVE	REMARKS
6	SG5	6/18/20	102500	SOIL GAS	-30		422		1	X	X						NONE	NORMAL TAT
		6/18/20	103053	"		-5		29										
7	SG6	6/18/20	091000	"	-29		194		1	X	X						"	" "
		6/18/20	092244	"		-5		63										
8	SG6-DUP	6/18/20	091000	"	-29		141		1	X	X						"	" "
		6/18/20	092244	"		-5		63										
9	SG7	6/18/20	143500	"	-29		436											
		6/18/20	144131	"		-5		0	1	X	X						"	" "
10	SG8	6/18/20	153500	"	-30		433		1	X	X						"	" "
		6/18/20	154118	"		-5		0										

RELINQUISHED BY: (SIGNATURE) Michael Bass-Deschenes	DATE 6/22	TIME 19:30	RECEIVED BY: (SIGNATURE)	Total No. of Samples (This Shipment)	21	LABORATORY: ENTHALPY ANALYTICAL
				Total No. of Containers (This Shipment)	21	
RELINQUISHED BY: (SIGNATURE) 6/23/20 13:33	DATE 6/22/20	TIME 1209	RECEIVED BY: (SIGNATURE)	LABORATORY CONTACT: WILL RICE		LABORATORY PHONE NUMBER: (510) 204-2221
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES [✓ NO]		

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS:

CHAIN OF CUSTODY RECORD

429907

PAGE 3 OF 5

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME: THE PHOENIX
801 PINE ST
OAKLAND, CA

SAMPLED BY: (PRINTED & SIGNATURE) MICHAEL BASS-DESCHENES Michael Bass-Deschenes

	SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION INIT VAC	FINAL VAC	SUMMA #	PID (PPM)	NUMBER OF CONTAINERS	ANALYSIS(ES): VOC BY TO-15	OXYGEN, CARBON DIOXIDE, AND HELIUM BY ASTM D-1946	PRESERVATIVE	REMARKS
11	SG9	6/22/20	091300	SOIL GAS	-30		263		1	X	X	NONE	NORMAL TAT
		6/22/20	092241	"		-5		16					
12	SG11	6/17/20	174500	"	-30		514		1	X	X	"	" "
		6/17/20	181002	"		-8		0					
13	SG12	6/18/20	162500	"	-30		064						
		6/18/20	163144	"		-5		0	1	X	X	"	" "
14	SG13	6/22/20	102400	"	-30		104						
		6/22/20	104730	"		-5		10	1	X	X	"	" "
15	SG14	6/22/20	134000	"	-30		049						
		6/22/20	134809	"		-5		0	1	X	X	"	" "

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)
Michael Bass-Deschenes	6/22	19:00	
6/23/20 13:33	6/24/20	1200	
			RECEIVED FOR LABORATORY BY: (SIGNATURE)

Total No. of Samples (This Shipment): 21
Total No. of Containers (This Shipment): 21

LABORATORY: ENTHALPY ANALYTICAL

LABORATORY CONTACT: WILL RICE

LABORATORY PHONE NUMBER: (510) 204-2221

SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES [✓ NO]

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS:

CHAIN OF CUSTODY RECORD

429909

PAGE 4 OF 5

P&D ENVIRONMENTAL, INC.

55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME: THE PHOENIX
801 PINE ST
OAKLAND, CA

SAMPLED BY: (PRINTED & SIGNATURE) MICHAEL BASS-DESCHENES Michael Bass-Deschenes

	SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION INIT VAC	FINAL VAC	SUMMA #	PID (PPM)	NUMBER OF CONTAINERS	ANALYSIS(ES): VOCs BY TO-15	OXYGEN, CARBON DIOXIDE, AND HELIUM BY ASTM D1946							PRESERVATIVE	REMARKS
16	SG15	6/22/20	143500	Soil/Gas	-29		088		1	X	X							NONE	NORMAL TAT
		6/22/20	144018	"		-5		0											
17	SG17	6/22/20	170000	"	-30		299		1	X	X							"	" "
		6/22/20	173748	"		-5		0											
18	SG18	6/17/20	165500	"	-29		397												
		6/17/20	170004	"		-5		0	1	X	X							"	" "
19	SG19	6/17/20	155500	"	-29		253		1	X	X							"	" "
		6/17/20	160202	"		-5		0											
20	SG20	6/17/20	140500	"	-28		130		1	X	X							"	" "
		6/17/20	141211	"		-5		0											

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)		
Michael Bass-Deschenes	6/22	10:00		Total No. of Samples (This Shipment): 21 Total No. of Containers (This Shipment): 21	LABORATORY: ENTHALPY ANALYTICAL
RELINQUISHED BY: (SIGNATURE) 6/23/20 13:33	DATE 6/24/20	TIME 1204	RECEIVED BY: (SIGNATURE)	LABORATORY CONTACT: WILL RICE	LABORATORY PHONE NUMBER: (510) 204-2221
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES (x) NO	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS:

CHAIN OF CUSTODY RECORD 429907

PAGE 5 OF 5

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0772

PROJECT NAME:
THE PHOENIX
801 PINE ST
OAKLAND, CA

SAMPLED BY: (PRINTED & SIGNATURE)
MICHAEL BASS-DESCHENES Michael Bass-Deschenes

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION INIT VAC	FINAL VAC	SUMMA #	PID (PPM)	NUMBER OF CONTAINERS	ANALYSIS(ES): VOC BY TO-15	OXYGEN, CARBON DIOXIDE AND HELIUM BY ASTM D-1946						PRESERVATIVE	REMARKS
21 SG21	6/22/20	114500	SOIL GAS	-30		271		1	X	X						NONE	NORMAL TAT
	6/22/20	121430	"		-5		8										

RELINQUISHED BY: (SIGNATURE) Michael Bass-Deschenes	DATE 6/22	TIME 19:00	RECEIVED BY: (SIGNATURE)	Total No. of Samples (This Shipment) 21 Total No. of Containers (This Shipment) 21	LABORATORY: ENTHALPY ANALYTICAL
RELINQUISHED BY: (SIGNATURE) 6/23/20 13:33	DATE 6/24/20	TIME 1204	RECEIVED BY: (SIGNATURE)	LABORATORY CONTACT: WILL RICE	LABORATORY PHONE NUMBER: (510) 204-2221
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES [✓ NO]	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS:

ENTHALPY
ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: P&D ENVIRONMENTAL

Project:

Date Received: 6/24/2

Sampler's Name Present: ☐ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☐ Yes, How many? ______ ☑ No (skip section 2)

Sample Temp (°C) (No Cooler): AMBIENT

Sample Temp (°C), One from each cooler: #1: ______ #2: ______ #3: ______ #4: ______

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: GLS

Section 3

Was the cooler packed with: ☐ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other ______

Cooler Temp (°C): #1: ______ #2: ______ #3: ______ #4: ______

Section 4	YES	NO	N/A
Was a COC received?	✓		▨
Are sample IDs present?	✓		▨
Are sampling dates & times present?	✓		▨
Is a relinquished signature present?	✓		▨
Are the tests required clearly indicated on the COC?	✓		▨
Are custody seals present?		✓	▨
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		▨
Did all bottle labels agree with COC? (ID, dates and times)	✓		▨
Were the samples collected in the correct containers for the required tests?	✓		▨
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		▨

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: ______ Date/Time ______

☐ Email (email sent to/on): ______ / ______

Project Manager's response:

Completed By: ______

Date: 6/24/2

Enthalpy Analytical, a subsidiary of Montrose Environmental Group ,Inc.
931 W. Barkley Ave, Orange, CA 92868 • T: (714) 771-6900 • F: (714) 538-1209
www.enthalpy.com/socal
Sample Acceptance Checklist – Rev 4, 8/8/2017

GLS

800-322-5555
www.gls-us.com

Ship From
ENTHALPY ANALYTICAL, LLC
PROJECT MANAGEMENT
2323 FIFTH STREET
BERKELEY, CA 94710

Tracking #: 549457831

CPS

Ship To
ENTHALPY ANALYTICAL (ORANGE)
SAMPLE RECEIVING
931 W BARKLEY AVE.
ORANGE, CA 92868

ORANGE

S92868A

COD: $0.00
Weight: 0 lb(s)
Reference:

Delivery Instructions:

Signature Type: STANDARD

22410431

ORC CA927-CI1

Print Date: 6/23/2020 1:38 PM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.
Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

Volatile Organics in Air

Lab #: 429907
Project#: 0772
Client: P&D Environmental
Location: The Phoenix 801 Pine St. Oakland, Ca

Field ID: SG1
Batch#: 248315
Prep: METHOD
Lab ID: 429907-001
Sampled: 06/17/20 11:06
Analysis: EPA TO-15
Matrix: Air
Received: 06/22/20
Analyst: GVO
Diln Fac: 2.000
Analyzed: 06/27/20 02:46

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,4-Dioxane	ND	0.40	ppbv	ND	1.4	ug/m3
Propylene	ND	0.40	ppbv	ND	0.69	ug/m3
Freon 12	**0.57**	0.40	ppbv	2.8	2.0	ug/m3
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3
Chloromethane	ND	0.40	ppbv	ND	0.83	ug/m3
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3
1,3-Butadiene	ND	0.40	ppbv	ND	0.88	ug/m3
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3
Trichlorofluoromethane	**1.6**	0.40	ppbv	9.1	2.2	ug/m3
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
Freon 113	ND	0.40	ppbv	ND	3.1	ug/m3
Acetone	**4.6**	4.0	ppbv	11	9.5	ug/m3
Carbon Disulfide	ND	0.40	ppbv	ND	1.2	ug/m3
Isopropanol (IPA)	ND	2.0	ppbv	ND	4.9	ug/m3
Methylene Chloride	**2.7**	1.0	ppbv	9.4	3.5	ug/m3
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3
n-Hexane	ND	0.40	ppbv	ND	1.4	ug/m3
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3
cis-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
2-Butanone	ND	2.0	ppbv	ND	5.9	ug/m3
Ethyl Acetate	ND	1.0	ppbv	ND	3.6	ug/m3
Chloroform	ND	0.40	ppbv	ND	2.0	ug/m3
1,1,1-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Cyclohexane	ND	0.40	ppbv	ND	1.4	ug/m3
Carbon Tetrachloride	ND	0.40	ppbv	ND	2.5	ug/m3
Benzene	ND	0.40	ppbv	ND	1.3	ug/m3
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
n-Heptane	ND	0.40	ppbv	ND	1.6	ug/m3
Trichloroethene	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3
Toluene	ND	0.40	ppbv	ND	1.5	ug/m3
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Tetrachloroethene	ND	0.40	ppbv	ND	2.7	ug/m3
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	**Result (V)**	**RL (V)**	**Units (V)**	**Result (M)**	**RL (M)**	**Units (M)**
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3
Ethylbenzene	ND	1.0	ppbv	ND	4.3	ug/m3
m,p-Xylenes	ND	0.80	ppbv	ND	3.5	ug/m3
o-Xylene	ND	0.40	ppbv	ND	1.7	ug/m3
Styrene	ND	1.0	ppbv	ND	4.3	ug/m3
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
4-Ethyltoluene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3,5-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,2,4-Trimethylbenzene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
Benzyl chloride	ND	1.0	ppbv	ND	5.2	ug/m3
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,2,4-Trichlorobenzene	ND	2.0	ppbv	ND	15	ug/m3
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3
Xylene (total)	ND	0.40	ppbv	ND	1.7	ug/m3

Surrogate	**%REC**	**Limits**	**Units (M)**
Bromofluorobenzene	101	60-140	ug/m3

Legend

ND:	Not Detected
RL (V):	Reporting Limit
Result (M):	Result in mass units
Result (V):	Result in volume units

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID: SG2 **Batch#:** 248315 **Prep:** METHOD

Lab ID: 429907-002 **Sampled:** 06/18/20 17:22 **Analysis:** EPA TO-15

Matrix: Air **Received:** 06/22/20 **Analyst:** GVO

Diln Fac: 4.000 **Analyzed:** 06/26/20 18:07

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,4-Dioxane	ND	0.80	ppbv	ND	2.9	ug/m3
Propylene	ND	0.80	ppbv	ND	1.4	ug/m3
Freon 12	**0.82**	0.80	ppbv	4.1	4.0	ug/m3
Freon 114	ND	0.80	ppbv	ND	5.6	ug/m3
Chloromethane	ND	0.80	ppbv	ND	1.7	ug/m3
Vinyl Chloride	ND	0.80	ppbv	ND	2.0	ug/m3
1,3-Butadiene	ND	0.80	ppbv	ND	1.8	ug/m3
Bromomethane	ND	0.80	ppbv	ND	3.1	ug/m3
Chloroethane	ND	0.80	ppbv	ND	2.1	ug/m3
Trichlorofluoromethane	**1.4**	0.80	ppbv	7.8	4.5	ug/m3
1,1-Dichloroethene	ND	0.80	ppbv	ND	3.2	ug/m3
Freon 113	ND	0.80	ppbv	ND	6.1	ug/m3
Acetone	**11**	8.0	ppbv	26	19	ug/m3
Carbon Disulfide	ND	0.80	ppbv	ND	2.5	ug/m3
Isopropanol (IPA)	ND	4.0	ppbv	ND	9.8	ug/m3
Methylene Chloride	ND	2.0	ppbv	ND	6.9	ug/m3
trans-1,2-Dichloroethene	ND	0.80	ppbv	ND	3.2	ug/m3
MTBE	ND	0.80	ppbv	ND	2.9	ug/m3
n-Hexane	ND	0.80	ppbv	ND	2.8	ug/m3
1,1-Dichloroethane	ND	0.80	ppbv	ND	3.2	ug/m3
Vinyl Acetate	ND	4.0	ppbv	ND	14	ug/m3
cis-1,2-Dichloroethene	ND	0.80	ppbv	ND	3.2	ug/m3
2-Butanone	ND	4.0	ppbv	ND	12	ug/m3
Ethyl Acetate	ND	2.0	ppbv	ND	7.2	ug/m3
Chloroform	ND	0.80	ppbv	ND	3.9	ug/m3
1,1,1-Trichloroethane	ND	0.80	ppbv	ND	4.4	ug/m3
Cyclohexane	ND	0.80	ppbv	ND	2.8	ug/m3
Carbon Tetrachloride	ND	0.80	ppbv	ND	5.0	ug/m3
Benzene	ND	0.80	ppbv	ND	2.6	ug/m3
1,2-Dichloroethane	ND	0.80	ppbv	ND	3.2	ug/m3
n-Heptane	ND	0.80	ppbv	ND	3.3	ug/m3
Trichloroethene	**130**	0.80	ppbv	680	4.3	ug/m3
1,2-Dichloropropane	ND	0.80	ppbv	ND	3.7	ug/m3
Bromodichloromethane	ND	0.80	ppbv	ND	5.4	ug/m3
cis-1,3-Dichloropropene	ND	0.80	ppbv	ND	3.6	ug/m3
4-Methyl-2-Pentanone	ND	0.80	ppbv	ND	3.3	ug/m3
Toluene	ND	0.80	ppbv	ND	3.0	ug/m3
trans-1,3-Dichloropropene	ND	0.80	ppbv	ND	3.6	ug/m3
1,1,2-Trichloroethane	ND	0.80	ppbv	ND	4.4	ug/m3
Tetrachloroethene	**7.0**	0.80	ppbv	48	5.4	ug/m3
2-Hexanone	ND	2.0	ppbv	ND	8.2	ug/m3

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
Dibromochloromethane	ND	0.80	ppbv	ND	6.8	ug/m3
1,2-Dibromoethane	ND	0.80	ppbv	ND	6.1	ug/m3
Chlorobenzene	ND	0.80	ppbv	ND	3.7	ug/m3
Ethylbenzene	ND	2.0	ppbv	ND	8.7	ug/m3
m,p-Xylenes	ND	1.6	ppbv	ND	6.9	ug/m3
o-Xylene	ND	0.80	ppbv	ND	3.5	ug/m3
Styrene	ND	2.0	ppbv	ND	8.5	ug/m3
Bromoform	ND	0.80	ppbv	ND	8.3	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.80	ppbv	ND	5.5	ug/m3
4-Ethyltoluene	ND	2.0	ppbv	ND	9.8	ug/m3
1,3,5-Trimethylbenzene	ND	0.80	ppbv	ND	3.9	ug/m3
1,2,4-Trimethylbenzene	ND	2.0	ppbv	ND	9.8	ug/m3
1,3-Dichlorobenzene	ND	0.80	ppbv	ND	4.8	ug/m3
1,4-Dichlorobenzene	ND	0.80	ppbv	ND	4.8	ug/m3
Benzyl chloride	ND	2.0	ppbv	ND	10	ug/m3
1,2-Dichlorobenzene	ND	0.80	ppbv	ND	4.8	ug/m3
1,2,4-Trichlorobenzene	ND	4.0	ppbv	ND	30	ug/m3
Hexachlorobutadiene	ND	0.80	ppbv	ND	8.5	ug/m3
Naphthalene	ND	4.0	ppbv	ND	21	ug/m3
Xylene (total)	ND	0.80	ppbv	ND	3.5	ug/m3

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	100	60-140	ug/m3

Legend

ND:	Not Detected
RL (V):	Reporting Limit
Result (M):	Result in mass units
Result (V):	Result in volume units

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID:	SG3	**Batch#:**	248315	**Prep:**	METHOD
Lab ID:	429907-003	**Sampled:**	06/17/20 15:16	**Analysis:**	EPA TO-15
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO
Diln Fac:	2.000	**Analyzed:**	06/27/20 04:17		

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,4-Dioxane	ND	0.40	ppbv	ND	1.4	ug/m3
Propylene	ND	0.40	ppbv	ND	0.69	ug/m3
Freon 12	**0.53**	0.40	ppbv	2.6	2.0	ug/m3
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3
Chloromethane	ND	0.40	ppbv	ND	0.83	ug/m3
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3
1,3-Butadiene	ND	0.40	ppbv	ND	0.88	ug/m3
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3
Trichlorofluoromethane	**0.94**	0.40	ppbv	5.3	2.2	ug/m3
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
Freon 113	ND	0.40	ppbv	ND	3.1	ug/m3
Acetone	**12**	4.0	ppbv	28	9.5	ug/m3
Carbon Disulfide	ND	0.40	ppbv	ND	1.2	ug/m3
Isopropanol (IPA)	ND	2.0	ppbv	ND	4.9	ug/m3
Methylene Chloride	ND	1.0	ppbv	ND	3.5	ug/m3
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3
n-Hexane	ND	0.40	ppbv	ND	1.4	ug/m3
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3
cis-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
2-Butanone	ND	2.0	ppbv	ND	5.9	ug/m3
Ethyl Acetate	ND	1.0	ppbv	ND	3.6	ug/m3
Chloroform	ND	0.40	ppbv	ND	2.0	ug/m3
1,1,1-Trichloroethane	**4.1**	0.40	ppbv	22	2.2	ug/m3
Cyclohexane	ND	0.40	ppbv	ND	1.4	ug/m3
Carbon Tetrachloride	ND	0.40	ppbv	ND	2.5	ug/m3
Benzene	ND	0.40	ppbv	ND	1.3	ug/m3
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
n-Heptane	ND	0.40	ppbv	ND	1.6	ug/m3
Trichloroethene	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3
Toluene	ND	0.40	ppbv	ND	1.5	ug/m3
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Tetrachloroethene	**13**	0.40	ppbv	89	2.7	ug/m3
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3
Ethylbenzene	ND	1.0	ppbv	ND	4.3	ug/m3
m,p-Xylenes	ND	0.80	ppbv	ND	3.5	ug/m3
o-Xylene	ND	0.40	ppbv	ND	1.7	ug/m3
Styrene	ND	1.0	ppbv	ND	4.3	ug/m3
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
4-Ethyltoluene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3,5-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,2,4-Trimethylbenzene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
Benzyl chloride	ND	1.0	ppbv	ND	5.2	ug/m3
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,2,4-Trichlorobenzene	ND	2.0	ppbv	ND	15	ug/m3
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3
Xylene (total)	ND	0.40	ppbv	ND	1.7	ug/m3

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	98	60-140	ug/m3

Legend

ND:	Not Detected
RL (V):	Reporting Limit
Result (M):	Result in mass units
Result (V):	Result in volume units

ENTHALPY ANALYTICAL

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID:	SG4	**Batch#:**	248315	**Prep:**	METHOD
Lab ID:	429907-004	**Sampled:**	06/18/20 12:59	**Analysis:**	EPA TO-15
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO
Diln Fac:	40.00	**Analyzed:**	06/26/20 16:40		

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,4-Dioxane	ND	8.0	ppbv	ND	29	ug/m3
Propylene	ND	8.0	ppbv	ND	14	ug/m3
Freon 12	ND	8.0	ppbv	ND	40	ug/m3
Freon 114	ND	8.0	ppbv	ND	56	ug/m3
Chloromethane	ND	8.0	ppbv	ND	17	ug/m3
Vinyl Chloride	ND	8.0	ppbv	ND	20	ug/m3
1,3-Butadiene	ND	8.0	ppbv	ND	18	ug/m3
Bromomethane	ND	8.0	ppbv	ND	31	ug/m3
Chloroethane	ND	8.0	ppbv	ND	21	ug/m3
Trichlorofluoromethane	ND	8.0	ppbv	ND	45	ug/m3
1,1-Dichloroethene	ND	8.0	ppbv	ND	32	ug/m3
Freon 113	ND	8.0	ppbv	ND	61	ug/m3
Acetone	ND	80	ppbv	ND	190	ug/m3
Carbon Disulfide	ND	8.0	ppbv	ND	25	ug/m3
Isopropanol (IPA)	ND	40	ppbv	ND	98	ug/m3
Methylene Chloride	ND	20	ppbv	ND	69	ug/m3
trans-1,2-Dichloroethene	ND	8.0	ppbv	ND	32	ug/m3
MTBE	ND	8.0	ppbv	ND	29	ug/m3
n-Hexane	ND	8.0	ppbv	ND	28	ug/m3
1,1-Dichloroethane	ND	8.0	ppbv	ND	32	ug/m3
Vinyl Acetate	ND	40	ppbv	ND	140	ug/m3
cis-1,2-Dichloroethene	ND	8.0	ppbv	ND	32	ug/m3
2-Butanone	ND	40	ppbv	ND	120	ug/m3
Ethyl Acetate	ND	20	ppbv	ND	72	ug/m3
Chloroform	ND	8.0	ppbv	ND	39	ug/m3
1,1,1-Trichloroethane	ND	8.0	ppbv	ND	44	ug/m3
Cyclohexane	ND	8.0	ppbv	ND	28	ug/m3
Carbon Tetrachloride	ND	8.0	ppbv	ND	50	ug/m3
Benzene	ND	8.0	ppbv	ND	26	ug/m3
1,2-Dichloroethane	ND	8.0	ppbv	ND	32	ug/m3
n-Heptane	ND	8.0	ppbv	ND	33	ug/m3
Trichloroethene	ND	8.0	ppbv	ND	43	ug/m3
1,2-Dichloropropane	ND	8.0	ppbv	ND	37	ug/m3
Bromodichloromethane	ND	8.0	ppbv	ND	54	ug/m3
cis-1,3-Dichloropropene	ND	8.0	ppbv	ND	36	ug/m3
4-Methyl-2-Pentanone	ND	8.0	ppbv	ND	33	ug/m3
Toluene	ND	8.0	ppbv	ND	30	ug/m3
trans-1,3-Dichloropropene	ND	8.0	ppbv	ND	36	ug/m3
1,1,2-Trichloroethane	ND	8.0	ppbv	ND	44	ug/m3
Tetrachloroethene	**750**	8.0	ppbv	5,100	54	ug/m3
2-Hexanone	ND	20	ppbv	ND	82	ug/m3

ENTHALPY ANALYTICAL

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
Dibromochloromethane	ND	8.0	ppbv	ND	68	ug/m3
1,2-Dibromoethane	ND	8.0	ppbv	ND	61	ug/m3
Chlorobenzene	ND	8.0	ppbv	ND	37	ug/m3
Ethylbenzene	ND	20	ppbv	ND	87	ug/m3
m,p-Xylenes	ND	16	ppbv	ND	69	ug/m3
o-Xylene	ND	8.0	ppbv	ND	35	ug/m3
Styrene	ND	20	ppbv	ND	85	ug/m3
Bromoform	ND	8.0	ppbv	ND	83	ug/m3
1,1,2,2-Tetrachloroethane	ND	8.0	ppbv	ND	55	ug/m3
4-Ethyltoluene	ND	20	ppbv	ND	98	ug/m3
1,3,5-Trimethylbenzene	ND	8.0	ppbv	ND	39	ug/m3
1,2,4-Trimethylbenzene	ND	20	ppbv	ND	98	ug/m3
1,3-Dichlorobenzene	ND	8.0	ppbv	ND	48	ug/m3
1,4-Dichlorobenzene	ND	8.0	ppbv	ND	48	ug/m3
Benzyl chloride	ND	20	ppbv	ND	100	ug/m3
1,2-Dichlorobenzene	ND	8.0	ppbv	ND	48	ug/m3
1,2,4-Trichlorobenzene	ND	40	ppbv	ND	300	ug/m3
Hexachlorobutadiene	ND	8.0	ppbv	ND	85	ug/m3
Naphthalene	ND	40	ppbv	ND	210	ug/m3
Xylene (total)	ND	8.0	ppbv	ND	35	ug/m3

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	90	60-140	ug/m3

Legend

ND:	Not Detected
RL (V):	Reporting Limit
Result (M):	Result in mass units
Result (V):	Result in volume units

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID:	SG4-DUP	**Batch#:**	248315	**Prep:**	METHOD
Lab ID:	429907-005	**Sampled:**	06/18/20 12:59	**Analysis:**	EPA TO-15
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO
Diln Fac:	40.00	**Analyzed:**	06/26/20 19:34		

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,4-Dioxane	ND	8.0	ppbv	ND	29	ug/m3
Propylene	ND	8.0	ppbv	ND	14	ug/m3
Freon 12	ND	8.0	ppbv	ND	40	ug/m3
Freon 114	ND	8.0	ppbv	ND	56	ug/m3
Chloromethane	ND	8.0	ppbv	ND	17	ug/m3
Vinyl Chloride	ND	8.0	ppbv	ND	20	ug/m3
1,3-Butadiene	ND	8.0	ppbv	ND	18	ug/m3
Bromomethane	ND	8.0	ppbv	ND	31	ug/m3
Chloroethane	ND	8.0	ppbv	ND	21	ug/m3
Trichlorofluoromethane	ND	8.0	ppbv	ND	45	ug/m3
1,1-Dichloroethene	ND	8.0	ppbv	ND	32	ug/m3
Freon 113	ND	8.0	ppbv	ND	61	ug/m3
Acetone	ND	80	ppbv	ND	190	ug/m3
Carbon Disulfide	ND	8.0	ppbv	ND	25	ug/m3
Isopropanol (IPA)	ND	40	ppbv	ND	98	ug/m3
Methylene Chloride	ND	20	ppbv	ND	69	ug/m3
trans-1,2-Dichloroethene	ND	8.0	ppbv	ND	32	ug/m3
MTBE	ND	8.0	ppbv	ND	29	ug/m3
n-Hexane	ND	8.0	ppbv	ND	28	ug/m3
1,1-Dichloroethane	ND	8.0	ppbv	ND	32	ug/m3
Vinyl Acetate	ND	40	ppbv	ND	140	ug/m3
cis-1,2-Dichloroethene	ND	8.0	ppbv	ND	32	ug/m3
2-Butanone	ND	40	ppbv	ND	120	ug/m3
Ethyl Acetate	ND	20	ppbv	ND	72	ug/m3
Chloroform	ND	8.0	ppbv	ND	39	ug/m3
1,1,1-Trichloroethane	ND	8.0	ppbv	ND	44	ug/m3
Cyclohexane	ND	8.0	ppbv	ND	28	ug/m3
Carbon Tetrachloride	ND	8.0	ppbv	ND	50	ug/m3
Benzene	ND	8.0	ppbv	ND	26	ug/m3
1,2-Dichloroethane	ND	8.0	ppbv	ND	32	ug/m3
n-Heptane	ND	8.0	ppbv	ND	33	ug/m3
Trichloroethene	ND	8.0	ppbv	ND	43	ug/m3
1,2-Dichloropropane	ND	8.0	ppbv	ND	37	ug/m3
Bromodichloromethane	ND	8.0	ppbv	ND	54	ug/m3
cis-1,3-Dichloropropene	ND	8.0	ppbv	ND	36	ug/m3
4-Methyl-2-Pentanone	ND	8.0	ppbv	ND	33	ug/m3
Toluene	ND	8.0	ppbv	ND	30	ug/m3
trans-1,3-Dichloropropene	ND	8.0	ppbv	ND	36	ug/m3
1,1,2-Trichloroethane	ND	8.0	ppbv	ND	44	ug/m3
Tetrachloroethene	**750**	8.0	ppbv	5,100	54	ug/m3
2-Hexanone	ND	20	ppbv	ND	82	ug/m3

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
Dibromochloromethane	ND	8.0	ppbv	ND	68	ug/m3
1,2-Dibromoethane	ND	8.0	ppbv	ND	61	ug/m3
Chlorobenzene	ND	8.0	ppbv	ND	37	ug/m3
Ethylbenzene	ND	20	ppbv	ND	87	ug/m3
m,p-Xylenes	ND	16	ppbv	ND	69	ug/m3
o-Xylene	ND	8.0	ppbv	ND	35	ug/m3
Styrene	ND	20	ppbv	ND	85	ug/m3
Bromoform	ND	8.0	ppbv	ND	83	ug/m3
1,1,2,2-Tetrachloroethane	ND	8.0	ppbv	ND	55	ug/m3
4-Ethyltoluene	ND	20	ppbv	ND	98	ug/m3
1,3,5-Trimethylbenzene	ND	8.0	ppbv	ND	39	ug/m3
1,2,4-Trimethylbenzene	ND	20	ppbv	ND	98	ug/m3
1,3-Dichlorobenzene	ND	8.0	ppbv	ND	48	ug/m3
1,4-Dichlorobenzene	ND	8.0	ppbv	ND	48	ug/m3
Benzyl chloride	ND	20	ppbv	ND	100	ug/m3
1,2-Dichlorobenzene	ND	8.0	ppbv	ND	48	ug/m3
1,2,4-Trichlorobenzene	ND	40	ppbv	ND	300	ug/m3
Hexachlorobutadiene	ND	8.0	ppbv	ND	85	ug/m3
Naphthalene	ND	40	ppbv	ND	210	ug/m3
Xylene (total)	ND	8.0	ppbv	ND	35	ug/m3

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	95	60-140	ug/m3

Legend

ND:	Not Detected
RL (V):	Reporting Limit
Result (M):	Result in mass units
Result (V):	Result in volume units

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID:	SG5	**Batch#:**	248315	**Prep:**	METHOD
Lab ID:	429907-006	**Sampled:**	06/18/20 10:30	**Analysis:**	EPA TO-15
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO
Diln Fac:	2.000	**Analyzed:**	06/27/20 05:06		

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,4-Dioxane	ND	0.40	ppbv	ND	1.4	ug/m3
Propylene	ND	0.40	ppbv	ND	0.69	ug/m3
Freon 12	**0.56**	0.40	ppbv	2.8	2.0	ug/m3
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3
Chloromethane	ND	0.40	ppbv	ND	0.83	ug/m3
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3
1,3-Butadiene	ND	0.40	ppbv	ND	0.88	ug/m3
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3
Trichlorofluoromethane	**0.46**	0.40	ppbv	2.6	2.2	ug/m3
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
Freon 113	ND	0.40	ppbv	ND	3.1	ug/m3
Acetone	**7.6**	4.0	ppbv	18	9.5	ug/m3
Carbon Disulfide	ND	0.40	ppbv	ND	1.2	ug/m3
Isopropanol (IPA)	**6.9**	2.0	ppbv	17	4.9	ug/m3
Methylene Chloride	**1.6**	1.0	ppbv	5.5	3.5	ug/m3
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3
n-Hexane	ND	0.40	ppbv	ND	1.4	ug/m3
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3
cis-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
2-Butanone	ND	2.0	ppbv	ND	5.9	ug/m3
Ethyl Acetate	ND	1.0	ppbv	ND	3.6	ug/m3
Chloroform	ND	0.40	ppbv	ND	2.0	ug/m3
1,1,1-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Cyclohexane	ND	0.40	ppbv	ND	1.4	ug/m3
Carbon Tetrachloride	ND	0.40	ppbv	ND	2.5	ug/m3
Benzene	ND	0.40	ppbv	ND	1.3	ug/m3
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
n-Heptane	ND	0.40	ppbv	ND	1.6	ug/m3
Trichloroethene	**8.0**	0.40	ppbv	43	2.1	ug/m3
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3
Toluene	ND	0.40	ppbv	ND	1.5	ug/m3
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Tetrachloroethene	**1.1**	0.40	ppbv	7.2	2.7	ug/m3
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3
Ethylbenzene	ND	1.0	ppbv	ND	4.3	ug/m3
m,p-Xylenes	ND	0.80	ppbv	ND	3.5	ug/m3
o-Xylene	ND	0.40	ppbv	ND	1.7	ug/m3
Styrene	ND	1.0	ppbv	ND	4.3	ug/m3
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
4-Ethyltoluene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3,5-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,2,4-Trimethylbenzene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
Benzyl chloride	ND	1.0	ppbv	ND	5.2	ug/m3
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,2,4-Trichlorobenzene	ND	2.0	ppbv	ND	15	ug/m3
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3
Xylene (total)	ND	0.40	ppbv	ND	1.7	ug/m3

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	96	60-140	ug/m3

Legend

ND: Not Detected

RL (V): Reporting Limit

Result (M): Result in mass units

Result (V): Result in volume units

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID:	SG6	**Batch#:**	248315	**Prep:**	METHOD
Lab ID:	429907-007	**Sampled:**	06/18/20 09:22	**Analysis:**	EPA TO-15
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO
Diln Fac:	40.00	**Analyzed:**	06/26/20 20:59		

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,4-Dioxane	ND	8.0	ppbv	ND	29	ug/m3
Propylene	ND	8.0	ppbv	ND	14	ug/m3
Freon 12	ND	8.0	ppbv	ND	40	ug/m3
Freon 114	ND	8.0	ppbv	ND	56	ug/m3
Chloromethane	ND	8.0	ppbv	ND	17	ug/m3
Vinyl Chloride	ND	8.0	ppbv	ND	20	ug/m3
1,3-Butadiene	ND	8.0	ppbv	ND	18	ug/m3
Bromomethane	ND	8.0	ppbv	ND	31	ug/m3
Chloroethane	ND	8.0	ppbv	ND	21	ug/m3
Trichlorofluoromethane	**26**	8.0	ppbv	140	45	ug/m3
1,1-Dichloroethene	ND	8.0	ppbv	ND	32	ug/m3
Freon 113	ND	8.0	ppbv	ND	61	ug/m3
Acetone	ND	80	ppbv	ND	190	ug/m3
Carbon Disulfide	ND	8.0	ppbv	ND	25	ug/m3
Isopropanol (IPA)	ND	40	ppbv	ND	98	ug/m3
Methylene Chloride	ND	20	ppbv	ND	69	ug/m3
trans-1,2-Dichloroethene	ND	8.0	ppbv	ND	32	ug/m3
MTBE	ND	8.0	ppbv	ND	29	ug/m3
n-Hexane	ND	8.0	ppbv	ND	28	ug/m3
1,1-Dichloroethane	ND	8.0	ppbv	ND	32	ug/m3
Vinyl Acetate	ND	40	ppbv	ND	140	ug/m3
cis-1,2-Dichloroethene	ND	8.0	ppbv	ND	32	ug/m3
2-Butanone	ND	40	ppbv	ND	120	ug/m3
Ethyl Acetate	ND	20	ppbv	ND	72	ug/m3
Chloroform	ND	8.0	ppbv	ND	39	ug/m3
1,1,1-Trichloroethane	ND	8.0	ppbv	ND	44	ug/m3
Cyclohexane	ND	8.0	ppbv	ND	28	ug/m3
Carbon Tetrachloride	ND	8.0	ppbv	ND	50	ug/m3
Benzene	ND	8.0	ppbv	ND	26	ug/m3
1,2-Dichloroethane	ND	8.0	ppbv	ND	32	ug/m3
n-Heptane	ND	8.0	ppbv	ND	33	ug/m3
Trichloroethene	**610**	8.0	ppbv	3,300	43	ug/m3
1,2-Dichloropropane	ND	8.0	ppbv	ND	37	ug/m3
Bromodichloromethane	ND	8.0	ppbv	ND	54	ug/m3
cis-1,3-Dichloropropene	ND	8.0	ppbv	ND	36	ug/m3
4-Methyl-2-Pentanone	ND	8.0	ppbv	ND	33	ug/m3
Toluene	ND	8.0	ppbv	ND	30	ug/m3
trans-1,3-Dichloropropene	ND	8.0	ppbv	ND	36	ug/m3
1,1,2-Trichloroethane	ND	8.0	ppbv	ND	44	ug/m3
Tetrachloroethene	ND	8.0	ppbv	ND	54	ug/m3
2-Hexanone	ND	20	ppbv	ND	82	ug/m3

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
Dibromochloromethane	ND	8.0	ppbv	ND	68	ug/m3
1,2-Dibromoethane	ND	8.0	ppbv	ND	61	ug/m3
Chlorobenzene	ND	8.0	ppbv	ND	37	ug/m3
Ethylbenzene	ND	20	ppbv	ND	87	ug/m3
m,p-Xylenes	ND	16	ppbv	ND	69	ug/m3
o-Xylene	ND	8.0	ppbv	ND	35	ug/m3
Styrene	ND	20	ppbv	ND	85	ug/m3
Bromoform	ND	8.0	ppbv	ND	83	ug/m3
1,1,2,2-Tetrachloroethane	ND	8.0	ppbv	ND	55	ug/m3
4-Ethyltoluene	ND	20	ppbv	ND	98	ug/m3
1,3,5-Trimethylbenzene	ND	8.0	ppbv	ND	39	ug/m3
1,2,4-Trimethylbenzene	ND	20	ppbv	ND	98	ug/m3
1,3-Dichlorobenzene	ND	8.0	ppbv	ND	48	ug/m3
1,4-Dichlorobenzene	ND	8.0	ppbv	ND	48	ug/m3
Benzyl chloride	ND	20	ppbv	ND	100	ug/m3
1,2-Dichlorobenzene	ND	8.0	ppbv	ND	48	ug/m3
1,2,4-Trichlorobenzene	ND	40	ppbv	ND	300	ug/m3
Hexachlorobutadiene	ND	8.0	ppbv	ND	85	ug/m3
Naphthalene	ND	40	ppbv	ND	210	ug/m3
Xylene (total)	ND	8.0	ppbv	ND	35	ug/m3

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	93	60-140	ug/m3

Legend

ND: Not Detected
RL (V): Reporting Limit
Result (M): Result in mass units
Result (V): Result in volume units

ENTHALPY ANALYTICAL

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID:	SG6-DUP	**Batch#:**	248315	**Prep:**	METHOD
Lab ID:	429907-008	**Sampled:**	06/18/20 09:22	**Analysis:**	EPA TO-15
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO
Diln Fac:	40.00	**Analyzed:**	06/26/20 21:41		

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,4-Dioxane	ND	8.0	ppbv	ND	29	ug/m3
Propylene	ND	8.0	ppbv	ND	14	ug/m3
Freon 12	ND	8.0	ppbv	ND	40	ug/m3
Freon 114	ND	8.0	ppbv	ND	56	ug/m3
Chloromethane	ND	8.0	ppbv	ND	17	ug/m3
Vinyl Chloride	ND	8.0	ppbv	ND	20	ug/m3
1,3-Butadiene	ND	8.0	ppbv	ND	18	ug/m3
Bromomethane	ND	8.0	ppbv	ND	31	ug/m3
Chloroethane	ND	8.0	ppbv	ND	21	ug/m3
Trichlorofluoromethane	**25**	8.0	ppbv	140	45	ug/m3
1,1-Dichloroethene	ND	8.0	ppbv	ND	32	ug/m3
Freon 113	ND	8.0	ppbv	ND	61	ug/m3
Acetone	ND	80	ppbv	ND	190	ug/m3
Carbon Disulfide	ND	8.0	ppbv	ND	25	ug/m3
Isopropanol (IPA)	ND	40	ppbv	ND	98	ug/m3
Methylene Chloride	ND	20	ppbv	ND	69	ug/m3
trans-1,2-Dichloroethene	ND	8.0	ppbv	ND	32	ug/m3
MTBE	ND	8.0	ppbv	ND	29	ug/m3
n-Hexane	ND	8.0	ppbv	ND	28	ug/m3
1,1-Dichloroethane	ND	8.0	ppbv	ND	32	ug/m3
Vinyl Acetate	ND	40	ppbv	ND	140	ug/m3
cis-1,2-Dichloroethene	ND	8.0	ppbv	ND	32	ug/m3
2-Butanone	ND	40	ppbv	ND	120	ug/m3
Ethyl Acetate	ND	20	ppbv	ND	72	ug/m3
Chloroform	ND	8.0	ppbv	ND	39	ug/m3
1,1,1-Trichloroethane	ND	8.0	ppbv	ND	44	ug/m3
Cyclohexane	ND	8.0	ppbv	ND	28	ug/m3
Carbon Tetrachloride	ND	8.0	ppbv	ND	50	ug/m3
Benzene	ND	8.0	ppbv	ND	26	ug/m3
1,2-Dichloroethane	ND	8.0	ppbv	ND	32	ug/m3
n-Heptane	ND	8.0	ppbv	ND	33	ug/m3
Trichloroethene	**590**	8.0	ppbv	3,200	43	ug/m3
1,2-Dichloropropane	ND	8.0	ppbv	ND	37	ug/m3
Bromodichloromethane	ND	8.0	ppbv	ND	54	ug/m3
cis-1,3-Dichloropropene	ND	8.0	ppbv	ND	36	ug/m3
4-Methyl-2-Pentanone	ND	8.0	ppbv	ND	33	ug/m3
Toluene	ND	8.0	ppbv	ND	30	ug/m3
trans-1,3-Dichloropropene	ND	8.0	ppbv	ND	36	ug/m3
1,1,2-Trichloroethane	ND	8.0	ppbv	ND	44	ug/m3
Tetrachloroethene	ND	8.0	ppbv	ND	54	ug/m3
2-Hexanone	ND	20	ppbv	ND	82	ug/m3

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
Dibromochloromethane	ND	8.0	ppbv	ND	68	ug/m3
1,2-Dibromoethane	ND	8.0	ppbv	ND	61	ug/m3
Chlorobenzene	ND	8.0	ppbv	ND	37	ug/m3
Ethylbenzene	ND	20	ppbv	ND	87	ug/m3
m,p-Xylenes	ND	16	ppbv	ND	69	ug/m3
o-Xylene	ND	8.0	ppbv	ND	35	ug/m3
Styrene	ND	20	ppbv	ND	85	ug/m3
Bromoform	ND	8.0	ppbv	ND	83	ug/m3
1,1,2,2-Tetrachloroethane	ND	8.0	ppbv	ND	55	ug/m3
4-Ethyltoluene	ND	20	ppbv	ND	98	ug/m3
1,3,5-Trimethylbenzene	ND	8.0	ppbv	ND	39	ug/m3
1,2,4-Trimethylbenzene	ND	20	ppbv	ND	98	ug/m3
1,3-Dichlorobenzene	ND	8.0	ppbv	ND	48	ug/m3
1,4-Dichlorobenzene	ND	8.0	ppbv	ND	48	ug/m3
Benzyl chloride	ND	20	ppbv	ND	100	ug/m3
1,2-Dichlorobenzene	ND	8.0	ppbv	ND	48	ug/m3
1,2,4-Trichlorobenzene	ND	40	ppbv	ND	300	ug/m3
Hexachlorobutadiene	ND	8.0	ppbv	ND	85	ug/m3
Naphthalene	ND	40	ppbv	ND	210	ug/m3
Xylene (total)	ND	8.0	ppbv	ND	35	ug/m3

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	92	60-140	ug/m3

Legend

ND: Not Detected
RL (V): Reporting Limit
Result (M): Result in mass units
Result (V): Result in volume units

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID:	SG7	**Batch#:**	248315	**Prep:**	METHOD
Lab ID:	429907-009	**Sampled:**	06/18/20 14:41	**Analysis:**	EPA TO-15
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO
Diln Fac:	2.000	**Analyzed:**	06/27/20 05:55		

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,4-Dioxane	ND	0.40	ppbv	ND	1.4	ug/m3
Propylene	ND	0.40	ppbv	ND	0.69	ug/m3
Freon 12	**0.54**	0.40	ppbv	2.7	2.0	ug/m3
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3
Chloromethane	ND	0.40	ppbv	ND	0.83	ug/m3
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3
1,3-Butadiene	ND	0.40	ppbv	ND	0.88	ug/m3
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3
Trichlorofluoromethane	ND	0.40	ppbv	ND	2.2	ug/m3
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
Freon 113	ND	0.40	ppbv	ND	3.1	ug/m3
Acetone	**11**	4.0	ppbv	26	9.5	ug/m3
Carbon Disulfide	ND	0.40	ppbv	ND	1.2	ug/m3
Isopropanol (IPA)	ND	2.0	ppbv	ND	4.9	ug/m3
Methylene Chloride	ND	1.0	ppbv	ND	3.5	ug/m3
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3
n-Hexane	ND	0.40	ppbv	ND	1.4	ug/m3
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3
cis-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
2-Butanone	ND	2.0	ppbv	ND	5.9	ug/m3
Ethyl Acetate	ND	1.0	ppbv	ND	3.6	ug/m3
Chloroform	ND	0.40	ppbv	ND	2.0	ug/m3
1,1,1-Trichloroethane	**4.9**	0.40	ppbv	27	2.2	ug/m3
Cyclohexane	ND	0.40	ppbv	ND	1.4	ug/m3
Carbon Tetrachloride	ND	0.40	ppbv	ND	2.5	ug/m3
Benzene	ND	0.40	ppbv	ND	1.3	ug/m3
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
n-Heptane	ND	0.40	ppbv	ND	1.6	ug/m3
Trichloroethene	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3
Toluene	ND	0.40	ppbv	ND	1.5	ug/m3
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Tetrachloroethene	**8.9**	0.40	ppbv	60	2.7	ug/m3
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3
Ethylbenzene	ND	1.0	ppbv	ND	4.3	ug/m3
m,p-Xylenes	ND	0.80	ppbv	ND	3.5	ug/m3
o-Xylene	ND	0.40	ppbv	ND	1.7	ug/m3
Styrene	ND	1.0	ppbv	ND	4.3	ug/m3
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
4-Ethyltoluene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3,5-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,2,4-Trimethylbenzene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
Benzyl chloride	ND	1.0	ppbv	ND	5.2	ug/m3
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,2,4-Trichlorobenzene	ND	2.0	ppbv	ND	15	ug/m3
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3
Xylene (total)	ND	0.40	ppbv	ND	1.7	ug/m3

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	98	60-140	ug/m3

Legend

ND: Not Detected

RL (V): Reporting Limit

Result (M): Result in mass units

Result (V): Result in volume units

ENTHALPY ANALYTICAL

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID:	SG8	**Batch#:**	248315	**Prep:**	METHOD
Lab ID:	429907-010	**Sampled:**	06/18/20 15:41	**Analysis:**	EPA TO-15
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO
Diln Fac:	2.000	**Analyzed:**	06/27/20 06:44		

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,4-Dioxane	ND	0.40	ppbv	ND	1.4	ug/m3
Propylene	ND	0.40	ppbv	ND	0.69	ug/m3
Freon 12	**0.53**	0.40	ppbv	2.6	2.0	ug/m3
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3
Chloromethane	ND	0.40	ppbv	ND	0.83	ug/m3
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3
1,3-Butadiene	ND	0.40	ppbv	ND	0.88	ug/m3
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3
Trichlorofluoromethane	**0.41**	0.40	ppbv	2.3	2.2	ug/m3
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
Freon 113	ND	0.40	ppbv	ND	3.1	ug/m3
Acetone	**5.6**	4.0	ppbv	13	9.5	ug/m3
Carbon Disulfide	ND	0.40	ppbv	ND	1.2	ug/m3
Isopropanol (IPA)	ND	2.0	ppbv	ND	4.9	ug/m3
Methylene Chloride	ND	1.0	ppbv	ND	3.5	ug/m3
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3
n-Hexane	ND	0.40	ppbv	ND	1.4	ug/m3
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3
cis-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
2-Butanone	ND	2.0	ppbv	ND	5.9	ug/m3
Ethyl Acetate	ND	1.0	ppbv	ND	3.6	ug/m3
Chloroform	**1.2**	0.40	ppbv	6.1	2.0	ug/m3
1,1,1-Trichloroethane	**6.1**	0.40	ppbv	33	2.2	ug/m3
Cyclohexane	ND	0.40	ppbv	ND	1.4	ug/m3
Carbon Tetrachloride	**4.5**	0.40	ppbv	28	2.5	ug/m3
Benzene	ND	0.40	ppbv	ND	1.3	ug/m3
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
n-Heptane	ND	0.40	ppbv	ND	1.6	ug/m3
Trichloroethene	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3
Toluene	ND	0.40	ppbv	ND	1.5	ug/m3
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Tetrachloroethene	**0.54**	0.40	ppbv	3.7	2.7	ug/m3
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3
Ethylbenzene	ND	1.0	ppbv	ND	4.3	ug/m3
m,p-Xylenes	ND	0.80	ppbv	ND	3.5	ug/m3
o-Xylene	ND	0.40	ppbv	ND	1.7	ug/m3
Styrene	ND	1.0	ppbv	ND	4.3	ug/m3
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
4-Ethyltoluene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3,5-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,2,4-Trimethylbenzene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
Benzyl chloride	ND	1.0	ppbv	ND	5.2	ug/m3
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,2,4-Trichlorobenzene	ND	2.0	ppbv	ND	15	ug/m3
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3
Xylene (total)	ND	0.40	ppbv	ND	1.7	ug/m3

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	99	60-140	ug/m3

Legend

ND:	Not Detected
RL (V):	Reporting Limit
Result (M):	Result in mass units
Result (V):	Result in volume units

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID:	SG9	**Batch#:**	248315	**Prep:**	METHOD
Lab ID:	429907-011	**Sampled:**	06/22/20 09:22	**Analysis:**	EPA TO-15
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO
Diln Fac:	2.000	**Analyzed:**	06/27/20 07:32		

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,4-Dioxane	ND	0.40	ppbv	ND	1.4	ug/m3
Propylene	ND	0.40	ppbv	ND	0.69	ug/m3
Freon 12	**0.54**	0.40	ppbv	2.6	2.0	ug/m3
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3
Chloromethane	ND	0.40	ppbv	ND	0.83	ug/m3
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3
1,3-Butadiene	ND	0.40	ppbv	ND	0.88	ug/m3
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3
Trichlorofluoromethane	**0.51**	0.40	ppbv	2.9	2.2	ug/m3
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
Freon 113	ND	0.40	ppbv	ND	3.1	ug/m3
Acetone	**8.6**	4.0	ppbv	20	9.5	ug/m3
Carbon Disulfide	ND	0.40	ppbv	ND	1.2	ug/m3
Isopropanol (IPA)	ND	2.0	ppbv	ND	4.9	ug/m3
Methylene Chloride	ND	1.0	ppbv	ND	3.5	ug/m3
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3
n-Hexane	ND	0.40	ppbv	ND	1.4	ug/m3
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3
cis-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
2-Butanone	ND	2.0	ppbv	ND	5.9	ug/m3
Ethyl Acetate	ND	1.0	ppbv	ND	3.6	ug/m3
Chloroform	ND	0.40	ppbv	ND	2.0	ug/m3
1,1,1-Trichloroethane	**1.3**	0.40	ppbv	7.0	2.2	ug/m3
Cyclohexane	ND	0.40	ppbv	ND	1.4	ug/m3
Carbon Tetrachloride	ND	0.40	ppbv	ND	2.5	ug/m3
Benzene	ND	0.40	ppbv	ND	1.3	ug/m3
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
n-Heptane	ND	0.40	ppbv	ND	1.6	ug/m3
Trichloroethene	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3
Toluene	ND	0.40	ppbv	ND	1.5	ug/m3
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Tetrachloroethene	**6.3**	0.40	ppbv	42	2.7	ug/m3
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3
Ethylbenzene	ND	1.0	ppbv	ND	4.3	ug/m3
m,p-Xylenes	ND	0.80	ppbv	ND	3.5	ug/m3
o-Xylene	ND	0.40	ppbv	ND	1.7	ug/m3
Styrene	ND	1.0	ppbv	ND	4.3	ug/m3
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
4-Ethyltoluene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3,5-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,2,4-Trimethylbenzene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
Benzyl chloride	ND	1.0	ppbv	ND	5.2	ug/m3
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,2,4-Trichlorobenzene	ND	2.0	ppbv	ND	15	ug/m3
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3
Xylene (total)	ND	0.40	ppbv	ND	1.7	ug/m3

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	101	60-140	ug/m3

Legend

ND:	Not Detected
RL (V):	Reporting Limit
Result (M):	Result in mass units
Result (V):	Result in volume units

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID:	SG11	**Batch#:**	248315	**Prep:**	METHOD
Lab ID:	429907-012	**Sampled:**	06/17/20 18:10	**Analysis:**	EPA TO-15
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO
Diln Fac:	40.00	**Analyzed:**	06/27/20 03:28		

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,4-Dioxane	ND	8.0	ppbv	ND	29	ug/m3
Propylene	ND	8.0	ppbv	ND	14	ug/m3
Freon 12	ND	8.0	ppbv	ND	40	ug/m3
Freon 114	ND	8.0	ppbv	ND	56	ug/m3
Chloromethane	ND	8.0	ppbv	ND	17	ug/m3
Vinyl Chloride	ND	8.0	ppbv	ND	20	ug/m3
1,3-Butadiene	ND	8.0	ppbv	ND	18	ug/m3
Bromomethane	ND	8.0	ppbv	ND	31	ug/m3
Chloroethane	ND	8.0	ppbv	ND	21	ug/m3
Trichlorofluoromethane	ND	8.0	ppbv	ND	45	ug/m3
1,1-Dichloroethene	ND	8.0	ppbv	ND	32	ug/m3
Freon 113	ND	8.0	ppbv	ND	61	ug/m3
Acetone	ND	80	ppbv	ND	190	ug/m3
Carbon Disulfide	ND	8.0	ppbv	ND	25	ug/m3
Isopropanol (IPA)	ND	40	ppbv	ND	98	ug/m3
Methylene Chloride	ND	20	ppbv	ND	69	ug/m3
trans-1,2-Dichloroethene	ND	8.0	ppbv	ND	32	ug/m3
MTBE	ND	8.0	ppbv	ND	29	ug/m3
n-Hexane	ND	8.0	ppbv	ND	28	ug/m3
1,1-Dichloroethane	ND	8.0	ppbv	ND	32	ug/m3
Vinyl Acetate	ND	40	ppbv	ND	140	ug/m3
cis-1,2-Dichloroethene	ND	8.0	ppbv	ND	32	ug/m3
2-Butanone	ND	40	ppbv	ND	120	ug/m3
Ethyl Acetate	ND	20	ppbv	ND	72	ug/m3
Chloroform	ND	8.0	ppbv	ND	39	ug/m3
1,1,1-Trichloroethane	ND	8.0	ppbv	ND	44	ug/m3
Cyclohexane	ND	8.0	ppbv	ND	28	ug/m3
Carbon Tetrachloride	ND	8.0	ppbv	ND	50	ug/m3
Benzene	ND	8.0	ppbv	ND	26	ug/m3
1,2-Dichloroethane	ND	8.0	ppbv	ND	32	ug/m3
n-Heptane	ND	8.0	ppbv	ND	33	ug/m3
Trichloroethene	ND	8.0	ppbv	ND	43	ug/m3
1,2-Dichloropropane	ND	8.0	ppbv	ND	37	ug/m3
Bromodichloromethane	ND	8.0	ppbv	ND	54	ug/m3
cis-1,3-Dichloropropene	ND	8.0	ppbv	ND	36	ug/m3
4-Methyl-2-Pentanone	ND	8.0	ppbv	ND	33	ug/m3
Toluene	ND	8.0	ppbv	ND	30	ug/m3
trans-1,3-Dichloropropene	ND	8.0	ppbv	ND	36	ug/m3
1,1,2-Trichloroethane	ND	8.0	ppbv	ND	44	ug/m3
Tetrachloroethene	**310**	8.0	ppbv	2,100	54	ug/m3
2-Hexanone	ND	20	ppbv	ND	82	ug/m3

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
Dibromochloromethane	ND	8.0	ppbv	ND	68	ug/m3
1,2-Dibromoethane	ND	8.0	ppbv	ND	61	ug/m3
Chlorobenzene	ND	8.0	ppbv	ND	37	ug/m3
Ethylbenzene	ND	20	ppbv	ND	87	ug/m3
m,p-Xylenes	ND	16	ppbv	ND	69	ug/m3
o-Xylene	ND	8.0	ppbv	ND	35	ug/m3
Styrene	ND	20	ppbv	ND	85	ug/m3
Bromoform	ND	8.0	ppbv	ND	83	ug/m3
1,1,2,2-Tetrachloroethane	ND	8.0	ppbv	ND	55	ug/m3
4-Ethyltoluene	ND	20	ppbv	ND	98	ug/m3
1,3,5-Trimethylbenzene	ND	8.0	ppbv	ND	39	ug/m3
1,2,4-Trimethylbenzene	ND	20	ppbv	ND	98	ug/m3
1,3-Dichlorobenzene	ND	8.0	ppbv	ND	48	ug/m3
1,4-Dichlorobenzene	ND	8.0	ppbv	ND	48	ug/m3
Benzyl chloride	ND	20	ppbv	ND	100	ug/m3
1,2-Dichlorobenzene	ND	8.0	ppbv	ND	48	ug/m3
1,2,4-Trichlorobenzene	ND	40	ppbv	ND	300	ug/m3
Hexachlorobutadiene	ND	8.0	ppbv	ND	85	ug/m3
Naphthalene	ND	40	ppbv	ND	210	ug/m3
Xylene (total)	ND	8.0	ppbv	ND	35	ug/m3

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	101	60-140	ug/m3

Legend

ND:	Not Detected
RL (V):	Reporting Limit
Result (M):	Result in mass units
Result (V):	Result in volume units

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID:	SG12	**Batch#:**	248355	**Prep:**	METHOD
Lab ID:	429907-013	**Sampled:**	06/18/20 16:31	**Analysis:**	EPA TO-15
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	PXT
Diln Fac:	2.000	**Analyzed:**	06/27/20 21:05		

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)	Qual
1,4-Dioxane	ND	0.40	ppbv	ND	1.4	ug/m3	
Propylene	ND	0.40	ppbv	ND	0.69	ug/m3	
Freon 12	**0.47**	0.40	ppbv	2.3	2.0	ug/m3	
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3	
Chloromethane	ND	0.40	ppbv	ND	0.83	ug/m3	
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3	
1,3-Butadiene	ND	0.40	ppbv	ND	0.88	ug/m3	
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3	
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3	
Trichlorofluoromethane	ND	0.40	ppbv	ND	2.2	ug/m3	
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3	
Freon 113	ND	0.40	ppbv	ND	3.1	ug/m3	
Acetone	ND	4.0	ppbv	ND	9.5	ug/m3	
Carbon Disulfide	ND	0.40	ppbv	ND	1.2	ug/m3	
Isopropanol (IPA)	ND	2.0	ppbv	ND	4.9	ug/m3	
Methylene Chloride	ND	1.0	ppbv	ND	3.5	ug/m3	
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3	
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3	
n-Hexane	ND	0.40	ppbv	ND	1.4	ug/m3	
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3	
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3	
cis-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3	
2-Butanone	ND	2.0	ppbv	ND	5.9	ug/m3	
Ethyl Acetate	ND	1.0	ppbv	ND	3.6	ug/m3	
Chloroform	ND	0.40	ppbv	ND	2.0	ug/m3	
1,1,1-Trichloroethane	**2.9**	0.40	ppbv	16	2.2	ug/m3	
Cyclohexane	ND	0.40	ppbv	ND	1.4	ug/m3	
Carbon Tetrachloride	ND	0.40	ppbv	ND	2.5	ug/m3	
Benzene	**0.77**	0.40	ppbv	2.5	1.3	ug/m3	
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3	
n-Heptane	ND	0.40	ppbv	ND	1.6	ug/m3	
Trichloroethene	ND	0.40	ppbv	ND	2.1	ug/m3	
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3	
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3	
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3	
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3	
Toluene	**5.2**	0.40	ppbv	20	1.5	ug/m3	
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3	
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3	
Tetrachloroethene	**74**	0.40	ppbv	500	2.7	ug/m3	
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3	

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)	Qual
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3	
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3	
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3	
Ethylbenzene	**6.3**	1.0	ppbv	28	4.3	ug/m3	
m,p-Xylenes	**33**	0.80	ppbv	140	3.5	ug/m3	
o-Xylene	**13**	0.40	ppbv	55	1.7	ug/m3	
Styrene	ND	1.0	ppbv	ND	4.3	ug/m3	
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3	
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3	
4-Ethyltoluene	**7.9**	1.0	ppbv	39	4.9	ug/m3	
1,3,5-Trimethylbenzene	**14**	0.40	ppbv	69	2.0	ug/m3	b
1,2,4-Trimethylbenzene	**39**	1.0	ppbv	190	4.9	ug/m3	
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3	
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3	
Benzyl chloride	ND	1.0	ppbv	ND	5.2	ug/m3	
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3	
1,2,4-Trichlorobenzene	ND	2.0	ppbv	ND	15	ug/m3	
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3	
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3	
Xylene (total)	**46**	0.40	ppbv	200	1.7	ug/m3	

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	98	60-140	ug/m3

Legend

ND:	Not Detected
RL (V):	Reporting Limit
Result (M):	Result in mass units
Result (V):	Result in volume units
b:	See narrative

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID:	SG13	**Batch#:**	248355	**Prep:**	METHOD
Lab ID:	429907-014	**Sampled:**	06/22/20 10:47	**Analysis:**	EPA TO-15
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	PXT
Diln Fac:	2.000	**Analyzed:**	06/27/20 21:54		

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,4-Dioxane	ND	0.40	ppbv	ND	1.4	ug/m3
Propylene	ND	0.40	ppbv	ND	0.69	ug/m3
Freon 12	**0.40**	0.40	ppbv	2.0	2.0	ug/m3
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3
Chloromethane	ND	0.40	ppbv	ND	0.83	ug/m3
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3
1,3-Butadiene	ND	0.40	ppbv	ND	0.88	ug/m3
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3
Trichlorofluoromethane	ND	0.40	ppbv	ND	2.2	ug/m3
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
Freon 113	ND	0.40	ppbv	ND	3.1	ug/m3
Acetone	**7.9**	4.0	ppbv	19	9.5	ug/m3
Carbon Disulfide	ND	0.40	ppbv	ND	1.2	ug/m3
Isopropanol (IPA)	ND	2.0	ppbv	ND	4.9	ug/m3
Methylene Chloride	**2.0**	1.0	ppbv	7.0	3.5	ug/m3
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3
n-Hexane	ND	0.40	ppbv	ND	1.4	ug/m3
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3
cis-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
2-Butanone	ND	2.0	ppbv	ND	5.9	ug/m3
Ethyl Acetate	ND	1.0	ppbv	ND	3.6	ug/m3
Chloroform	ND	0.40	ppbv	ND	2.0	ug/m3
1,1,1-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Cyclohexane	ND	0.40	ppbv	ND	1.4	ug/m3
Carbon Tetrachloride	ND	0.40	ppbv	ND	2.5	ug/m3
Benzene	ND	0.40	ppbv	ND	1.3	ug/m3
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
n-Heptane	ND	0.40	ppbv	ND	1.6	ug/m3
Trichloroethene	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3
Toluene	ND	0.40	ppbv	ND	1.5	ug/m3
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Tetrachloroethene	**0.78**	0.40	ppbv	5.3	2.7	ug/m3
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3
Ethylbenzene	ND	1.0	ppbv	ND	4.3	ug/m3
m,p-Xylenes	ND	0.80	ppbv	ND	3.5	ug/m3
o-Xylene	ND	0.40	ppbv	ND	1.7	ug/m3
Styrene	ND	1.0	ppbv	ND	4.3	ug/m3
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
4-Ethyltoluene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3,5-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,2,4-Trimethylbenzene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
Benzyl chloride	ND	1.0	ppbv	ND	5.2	ug/m3
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,2,4-Trichlorobenzene	ND	2.0	ppbv	ND	15	ug/m3
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3
Xylene (total)	ND	0.40	ppbv	ND	1.7	ug/m3

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	96	60-140	ug/m3

Legend

ND:	Not Detected
RL (V):	Reporting Limit
Result (M):	Result in mass units
Result (V):	Result in volume units

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID:	SG14	**Batch#:**	248355	**Prep:**	METHOD
Lab ID:	429907-015	**Sampled:**	06/22/20 13:48	**Analysis:**	EPA TO-15
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	PXT
Diln Fac:	2.000	**Analyzed:**	06/27/20 22:42		

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,4-Dioxane	ND	0.40	ppbv	ND	1.4	ug/m3
Propylene	ND	0.40	ppbv	ND	0.69	ug/m3
Freon 12	ND	0.40	ppbv	ND	2.0	ug/m3
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3
Chloromethane	ND	0.40	ppbv	ND	0.83	ug/m3
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3
1,3-Butadiene	ND	0.40	ppbv	ND	0.88	ug/m3
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3
Trichlorofluoromethane	ND	0.40	ppbv	ND	2.2	ug/m3
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
Freon 113	ND	0.40	ppbv	ND	3.1	ug/m3
Acetone	**78**	4.0	ppbv	190	9.5	ug/m3
Carbon Disulfide	**1.7**	0.40	ppbv	5.2	1.2	ug/m3
Isopropanol (IPA)	ND	2.0	ppbv	ND	4.9	ug/m3
Methylene Chloride	ND	1.0	ppbv	ND	3.5	ug/m3
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3
n-Hexane	**0.64**	0.40	ppbv	2.3	1.4	ug/m3
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3
cis-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
2-Butanone	**37**	2.0	ppbv	110	5.9	ug/m3
Ethyl Acetate	ND	1.0	ppbv	ND	3.6	ug/m3
Chloroform	ND	0.40	ppbv	ND	2.0	ug/m3
1,1,1-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Cyclohexane	ND	0.40	ppbv	ND	1.4	ug/m3
Carbon Tetrachloride	ND	0.40	ppbv	ND	2.5	ug/m3
Benzene	ND	0.40	ppbv	ND	1.3	ug/m3
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
n-Heptane	ND	0.40	ppbv	ND	1.6	ug/m3
Trichloroethene	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3
Toluene	ND	0.40	ppbv	ND	1.5	ug/m3
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Tetrachloroethene	**1.6**	0.40	ppbv	11	2.7	ug/m3
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3
Ethylbenzene	ND	1.0	ppbv	ND	4.3	ug/m3
m,p-Xylenes	ND	0.80	ppbv	ND	3.5	ug/m3
o-Xylene	ND	0.40	ppbv	ND	1.7	ug/m3
Styrene	ND	1.0	ppbv	ND	4.3	ug/m3
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
4-Ethyltoluene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3,5-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,2,4-Trimethylbenzene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
Benzyl chloride	ND	1.0	ppbv	ND	5.2	ug/m3
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,2,4-Trichlorobenzene	ND	2.0	ppbv	ND	15	ug/m3
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3
Xylene (total)	ND	0.40	ppbv	ND	1.7	ug/m3

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	98	60-140	ug/m3

Legend

ND:	Not Detected
RL (V):	Reporting Limit
Result (M):	Result in mass units
Result (V):	Result in volume units

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID:	SG15	**Batch#:**	248355	**Prep:**	METHOD
Lab ID:	429907-016	**Sampled:**	06/22/20 14:40	**Analysis:**	EPA TO-15
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	PXT
Diln Fac:	2.000	**Analyzed:**	06/27/20 23:31		

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,4-Dioxane	ND	0.40	ppbv	ND	1.4	ug/m3
Propylene	ND	0.40	ppbv	ND	0.69	ug/m3
Freon 12	**0.45**	0.40	ppbv	2.2	2.0	ug/m3
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3
Chloromethane	**0.66**	0.40	ppbv	1.4	0.83	ug/m3
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3
1,3-Butadiene	ND	0.40	ppbv	ND	0.88	ug/m3
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3
Trichlorofluoromethane	**0.48**	0.40	ppbv	2.7	2.2	ug/m3
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
Freon 113	ND	0.40	ppbv	ND	3.1	ug/m3
Acetone	**23**	4.0	ppbv	54	9.5	ug/m3
Carbon Disulfide	ND	0.40	ppbv	ND	1.2	ug/m3
Isopropanol (IPA)	**6.0**	2.0	ppbv	15	4.9	ug/m3
Methylene Chloride	**2.2**	1.0	ppbv	7.6	3.5	ug/m3
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3
n-Hexane	ND	0.40	ppbv	ND	1.4	ug/m3
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3
cis-1,2-Dichloroethene	**0.71**	0.40	ppbv	2.8	1.6	ug/m3
2-Butanone	ND	2.0	ppbv	ND	5.9	ug/m3
Ethyl Acetate	ND	1.0	ppbv	ND	3.6	ug/m3
Chloroform	ND	0.40	ppbv	ND	2.0	ug/m3
1,1,1-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Cyclohexane	ND	0.40	ppbv	ND	1.4	ug/m3
Carbon Tetrachloride	ND	0.40	ppbv	ND	2.5	ug/m3
Benzene	ND	0.40	ppbv	ND	1.3	ug/m3
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
n-Heptane	ND	0.40	ppbv	ND	1.6	ug/m3
Trichloroethene	**1.8**	0.40	ppbv	9.5	2.1	ug/m3
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3
Toluene	ND	0.40	ppbv	ND	1.5	ug/m3
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Tetrachloroethene	**20**	0.40	ppbv	140	2.7	ug/m3
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3
Ethylbenzene	ND	1.0	ppbv	ND	4.3	ug/m3
m,p-Xylenes	ND	0.80	ppbv	ND	3.5	ug/m3
o-Xylene	ND	0.40	ppbv	ND	1.7	ug/m3
Styrene	ND	1.0	ppbv	ND	4.3	ug/m3
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
4-Ethyltoluene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3,5-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,2,4-Trimethylbenzene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
Benzyl chloride	ND	1.0	ppbv	ND	5.2	ug/m3
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,2,4-Trichlorobenzene	ND	2.0	ppbv	ND	15	ug/m3
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3
Xylene (total)	ND	0.40	ppbv	ND	1.7	ug/m3

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	98	60-140	ug/m3

Legend

ND:	Not Detected
RL (V):	Reporting Limit
Result (M):	Result in mass units
Result (V):	Result in volume units

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772
Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID: SG17
Lab ID: 429907-017
Matrix: Air
Diln Fac: 2.000
Batch#: 248515
Sampled: 06/22/20 17:37
Received: 06/22/20
Analyzed: 07/01/20 15:04
Prep: METHOD
Analysis: EPA TO-15
Analyst: GVO

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,4-Dioxane	ND	0.40	ppbv	ND	1.4	ug/m3
Propylene	ND	0.40	ppbv	ND	0.69	ug/m3
Freon 12	**0.47**	0.40	ppbv	2.3	2.0	ug/m3
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3
Chloromethane	ND	0.40	ppbv	ND	0.83	ug/m3
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3
1,3-Butadiene	ND	0.40	ppbv	ND	0.88	ug/m3
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3
Trichlorofluoromethane	ND	0.40	ppbv	ND	2.2	ug/m3
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
Freon 113	ND	0.40	ppbv	ND	3.1	ug/m3
Acetone	**5.4**	4.0	ppbv	13	9.5	ug/m3
Carbon Disulfide	ND	0.40	ppbv	ND	1.2	ug/m3
Isopropanol (IPA)	ND	2.0	ppbv	ND	4.9	ug/m3
Methylene Chloride	ND	1.0	ppbv	ND	3.5	ug/m3
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3
n-Hexane	ND	0.40	ppbv	ND	1.4	ug/m3
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3
cis-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
2-Butanone	ND	2.0	ppbv	ND	5.9	ug/m3
Ethyl Acetate	ND	1.0	ppbv	ND	3.6	ug/m3
Chloroform	**3.5**	0.40	ppbv	17	2.0	ug/m3
1,1,1-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Cyclohexane	ND	0.40	ppbv	ND	1.4	ug/m3
Carbon Tetrachloride	ND	0.40	ppbv	ND	2.5	ug/m3
Benzene	ND	0.40	ppbv	ND	1.3	ug/m3
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
n-Heptane	ND	0.40	ppbv	ND	1.6	ug/m3
Trichloroethene	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3
Toluene	ND	0.40	ppbv	ND	1.5	ug/m3
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Tetrachloroethene	ND	0.40	ppbv	ND	2.7	ug/m3
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3
Ethylbenzene	ND	1.0	ppbv	ND	4.3	ug/m3
m,p-Xylenes	ND	0.80	ppbv	ND	3.5	ug/m3
o-Xylene	ND	0.40	ppbv	ND	1.7	ug/m3
Styrene	ND	1.0	ppbv	ND	4.3	ug/m3
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
4-Ethyltoluene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3,5-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,2,4-Trimethylbenzene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
Benzyl chloride	ND	1.0	ppbv	ND	5.2	ug/m3
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,2,4-Trichlorobenzene	ND	2.0	ppbv	ND	15	ug/m3
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3
Xylene (total)	ND	0.40	ppbv	ND	1.7	ug/m3

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	97	60-140	ug/m3

Legend

ND:	Not Detected
RL (V):	Reporting Limit
Result (M):	Result in mass units
Result (V):	Result in volume units

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID:	SG18	**Batch#:**	248400	**Prep:**	METHOD
Lab ID:	429907-018	**Sampled:**	06/17/20 17:00	**Analysis:**	EPA TO-15
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO
Diln Fac:	2.000	**Analyzed:**	06/29/20 12:26		

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,4-Dioxane	ND	0.40	ppbv	ND	1.4	ug/m3
Propylene	ND	0.40	ppbv	ND	0.69	ug/m3
Freon 12	ND	0.40	ppbv	ND	2.0	ug/m3
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3
Chloromethane	ND	0.40	ppbv	ND	0.83	ug/m3
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3
1,3-Butadiene	ND	0.40	ppbv	ND	0.88	ug/m3
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3
Trichlorofluoromethane	**0.42**	0.40	ppbv	2.4	2.2	ug/m3
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
Freon 113	ND	0.40	ppbv	ND	3.1	ug/m3
Acetone	**6.7**	4.0	ppbv	16	9.5	ug/m3
Carbon Disulfide	ND	0.40	ppbv	ND	1.2	ug/m3
Isopropanol (IPA)	ND	2.0	ppbv	ND	4.9	ug/m3
Methylene Chloride	**1.3**	1.0	ppbv	4.5	3.5	ug/m3
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3
n-Hexane	ND	0.40	ppbv	ND	1.4	ug/m3
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3
cis-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
2-Butanone	ND	2.0	ppbv	ND	5.9	ug/m3
Ethyl Acetate	ND	1.0	ppbv	ND	3.6	ug/m3
Chloroform	ND	0.40	ppbv	ND	2.0	ug/m3
1,1,1-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Cyclohexane	ND	0.40	ppbv	ND	1.4	ug/m3
Carbon Tetrachloride	ND	0.40	ppbv	ND	2.5	ug/m3
Benzene	ND	0.40	ppbv	ND	1.3	ug/m3
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
n-Heptane	ND	0.40	ppbv	ND	1.6	ug/m3
Trichloroethene	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3
Toluene	ND	0.40	ppbv	ND	1.5	ug/m3
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Tetrachloroethene	ND	0.40	ppbv	ND	2.7	ug/m3
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3
Ethylbenzene	ND	1.0	ppbv	ND	4.3	ug/m3
m,p-Xylenes	ND	0.80	ppbv	ND	3.5	ug/m3
o-Xylene	ND	0.40	ppbv	ND	1.7	ug/m3
Styrene	ND	1.0	ppbv	ND	4.3	ug/m3
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
4-Ethyltoluene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3,5-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,2,4-Trimethylbenzene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
Benzyl chloride	ND	1.0	ppbv	ND	5.2	ug/m3
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,2,4-Trichlorobenzene	ND	2.0	ppbv	ND	15	ug/m3
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3
Xylene (total)	ND	0.40	ppbv	ND	1.7	ug/m3

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	93	60-140	ug/m3

Legend

ND:	Not Detected
RL (V):	Reporting Limit
Result (M):	Result in mass units
Result (V):	Result in volume units

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID:	SG19	**Batch#:**	248400	**Prep:**	METHOD
Lab ID:	429907-019	**Sampled:**	06/17/20 16:02	**Analysis:**	EPA TO-15
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO
Diln Fac:	2.000	**Analyzed:**	06/29/20 13:14		

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,4-Dioxane	ND	0.40	ppbv	ND	1.4	ug/m3
Propylene	ND	0.40	ppbv	ND	0.69	ug/m3
Freon 12	ND	0.40	ppbv	ND	2.0	ug/m3
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3
Chloromethane	ND	0.40	ppbv	ND	0.83	ug/m3
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3
1,3-Butadiene	ND	0.40	ppbv	ND	0.88	ug/m3
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3
Trichlorofluoromethane	**0.63**	0.40	ppbv	3.5	2.2	ug/m3
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
Freon 113	ND	0.40	ppbv	ND	3.1	ug/m3
Acetone	**6.6**	4.0	ppbv	16	9.5	ug/m3
Carbon Disulfide	ND	0.40	ppbv	ND	1.2	ug/m3
Isopropanol (IPA)	**4.1**	2.0	ppbv	10	4.9	ug/m3
Methylene Chloride	ND	1.0	ppbv	ND	3.5	ug/m3
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3
n-Hexane	ND	0.40	ppbv	ND	1.4	ug/m3
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3
cis-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
2-Butanone	ND	2.0	ppbv	ND	5.9	ug/m3
Ethyl Acetate	ND	1.0	ppbv	ND	3.6	ug/m3
Chloroform	ND	0.40	ppbv	ND	2.0	ug/m3
1,1,1-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Cyclohexane	ND	0.40	ppbv	ND	1.4	ug/m3
Carbon Tetrachloride	ND	0.40	ppbv	ND	2.5	ug/m3
Benzene	ND	0.40	ppbv	ND	1.3	ug/m3
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
n-Heptane	ND	0.40	ppbv	ND	1.6	ug/m3
Trichloroethene	**0.54**	0.40	ppbv	2.9	2.1	ug/m3
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3
Toluene	ND	0.40	ppbv	ND	1.5	ug/m3
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Tetrachloroethene	**1.2**	0.40	ppbv	8.0	2.7	ug/m3
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3
Ethylbenzene	ND	1.0	ppbv	ND	4.3	ug/m3
m,p-Xylenes	ND	0.80	ppbv	ND	3.5	ug/m3
o-Xylene	ND	0.40	ppbv	ND	1.7	ug/m3
Styrene	ND	1.0	ppbv	ND	4.3	ug/m3
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
4-Ethyltoluene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3,5-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,2,4-Trimethylbenzene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
Benzyl chloride	ND	1.0	ppbv	ND	5.2	ug/m3
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,2,4-Trichlorobenzene	ND	2.0	ppbv	ND	15	ug/m3
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3
Xylene (total)	ND	0.40	ppbv	ND	1.7	ug/m3

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	93	60-140	ug/m3

Legend

ND:	Not Detected
RL (V):	Reporting Limit
Result (M):	Result in mass units
Result (V):	Result in volume units

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID:	SG20	**Batch#:**	248400	**Prep:**	METHOD
Lab ID:	429907-020	**Sampled:**	06/17/20 14:12	**Analysis:**	EPA TO-15
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO
Diln Fac:	2.000	**Analyzed:**	06/29/20 14:06		

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,4-Dioxane	ND	0.40	ppbv	ND	1.4	ug/m3
Propylene	ND	0.40	ppbv	ND	0.69	ug/m3
Freon 12	**0.62**	0.40	ppbv	3.1	2.0	ug/m3
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3
Chloromethane	**1.1**	0.40	ppbv	2.2	0.83	ug/m3
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3
1,3-Butadiene	ND	0.40	ppbv	ND	0.88	ug/m3
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3
Trichlorofluoromethane	**0.41**	0.40	ppbv	2.3	2.2	ug/m3
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
Freon 113	ND	0.40	ppbv	ND	3.1	ug/m3
Acetone	**8.6**	4.0	ppbv	20	9.5	ug/m3
Carbon Disulfide	ND	0.40	ppbv	ND	1.2	ug/m3
Isopropanol (IPA)	**8.3**	2.0	ppbv	21	4.9	ug/m3
Methylene Chloride	**40**	1.0	ppbv	140	3.5	ug/m3
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3
n-Hexane	**3.2**	0.40	ppbv	11	1.4	ug/m3
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3
cis-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
2-Butanone	ND	2.0	ppbv	ND	5.9	ug/m3
Ethyl Acetate	ND	1.0	ppbv	ND	3.6	ug/m3
Chloroform	ND	0.40	ppbv	ND	2.0	ug/m3
1,1,1-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Cyclohexane	ND	0.40	ppbv	ND	1.4	ug/m3
Carbon Tetrachloride	ND	0.40	ppbv	ND	2.5	ug/m3
Benzene	ND	0.40	ppbv	ND	1.3	ug/m3
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
n-Heptane	ND	0.40	ppbv	ND	1.6	ug/m3
Trichloroethene	**4.7**	0.40	ppbv	25	2.1	ug/m3
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3
Toluene	ND	0.40	ppbv	ND	1.5	ug/m3
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Tetrachloroethene	**19**	0.40	ppbv	130	2.7	ug/m3
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3
Ethylbenzene	ND	1.0	ppbv	ND	4.3	ug/m3
m,p-Xylenes	ND	0.80	ppbv	ND	3.5	ug/m3
o-Xylene	ND	0.40	ppbv	ND	1.7	ug/m3
Styrene	ND	1.0	ppbv	ND	4.3	ug/m3
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
4-Ethyltoluene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3,5-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,2,4-Trimethylbenzene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
Benzyl chloride	ND	1.0	ppbv	ND	5.2	ug/m3
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,2,4-Trichlorobenzene	ND	2.0	ppbv	ND	15	ug/m3
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3
Xylene (total)	ND	0.40	ppbv	ND	1.7	ug/m3

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	95	60-140	ug/m3

	Legend
ND:	Not Detected
RL (V):	Reporting Limit
Result (M):	Result in mass units
Result (V):	Result in volume units

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID:	SG21	**Batch#:**	248400	**Prep:**	METHOD
Lab ID:	429907-021	**Sampled:**	06/22/20 12:14	**Analysis:**	EPA TO-15
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO
Diln Fac:	2.000	**Analyzed:**	06/29/20 14:55		

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,4-Dioxane	ND	0.40	ppbv	ND	1.4	ug/m3
Propylene	ND	0.40	ppbv	ND	0.69	ug/m3
Freon 12	**0.51**	0.40	ppbv	2.5	2.0	ug/m3
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3
Chloromethane	ND	0.40	ppbv	ND	0.83	ug/m3
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3
1,3-Butadiene	ND	0.40	ppbv	ND	0.88	ug/m3
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3
Trichlorofluoromethane	**0.66**	0.40	ppbv	3.7	2.2	ug/m3
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
Freon 113	ND	0.40	ppbv	ND	3.1	ug/m3
Acetone	**35**	4.0	ppbv	83	9.5	ug/m3
Carbon Disulfide	**1.1**	0.40	ppbv	3.3	1.2	ug/m3
Isopropanol (IPA)	ND	2.0	ppbv	ND	4.9	ug/m3
Methylene Chloride	ND	1.0	ppbv	ND	3.5	ug/m3
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3
n-Hexane	ND	0.40	ppbv	ND	1.4	ug/m3
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3
cis-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
2-Butanone	ND	2.0	ppbv	ND	5.9	ug/m3
Ethyl Acetate	ND	1.0	ppbv	ND	3.6	ug/m3
Chloroform	**2.0**	0.40	ppbv	9.7	2.0	ug/m3
1,1,1-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Cyclohexane	ND	0.40	ppbv	ND	1.4	ug/m3
Carbon Tetrachloride	ND	0.40	ppbv	ND	2.5	ug/m3
Benzene	**0.54**	0.40	ppbv	1.7	1.3	ug/m3
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
n-Heptane	ND	0.40	ppbv	ND	1.6	ug/m3
Trichloroethene	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3
Toluene	**3.2**	0.40	ppbv	12	1.5	ug/m3
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Tetrachloroethene	**0.58**	0.40	ppbv	4.0	2.7	ug/m3
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3

Volatile Organics in Air

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3
Ethylbenzene	ND	1.0	ppbv	ND	4.3	ug/m3
m,p-Xylenes	**2.4**	0.80	ppbv	10	3.5	ug/m3
o-Xylene	**1.7**	0.40	ppbv	7.6	1.7	ug/m3
Styrene	ND	1.0	ppbv	ND	4.3	ug/m3
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
4-Ethyltoluene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3,5-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,2,4-Trimethylbenzene	ND	1.0	ppbv	ND	4.9	ug/m3
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
Benzyl chloride	ND	1.0	ppbv	ND	5.2	ug/m3
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,2,4-Trichlorobenzene	ND	2.0	ppbv	ND	15	ug/m3
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3
Xylene (total)	**4.2**	0.40	ppbv	18	1.7	ug/m3

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	103	60-140	ug/m3

Legend

ND:	Not Detected
RL (V):	Reporting Limit
Result (M):	Result in mass units
Result (V):	Result in volume units

Volatile Organics in Air: Batch QC

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Type:	BLANK	**Diln Fac:**	1.000	**Prep:**	METHOD
Lab ID:	QC874425	**Batch#:**	248315	**Analysis:**	EPA TO-15
Matrix:	Air	**Analyzed:**	06/26/20 12:19	**Analyst:**	GVO

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,4-Dioxane	ND	0.20	ppbv	ND	0.72	ug/m3
Propylene	ND	0.20	ppbv	ND	0.34	ug/m3
Freon 12	ND	0.20	ppbv	ND	0.99	ug/m3
Freon 114	ND	0.20	ppbv	ND	1.4	ug/m3
Chloromethane	ND	0.20	ppbv	ND	0.41	ug/m3
Vinyl Chloride	ND	0.20	ppbv	ND	0.51	ug/m3
1,3-Butadiene	ND	0.20	ppbv	ND	0.44	ug/m3
Bromomethane	ND	0.20	ppbv	ND	0.78	ug/m3
Chloroethane	ND	0.20	ppbv	ND	0.53	ug/m3
Trichlorofluoromethane	ND	0.20	ppbv	ND	1.1	ug/m3
1,1-Dichloroethene	ND	0.20	ppbv	ND	0.79	ug/m3
Freon 113	ND	0.20	ppbv	ND	1.5	ug/m3
Acetone	ND	2.0	ppbv	ND	4.8	ug/m3
Carbon Disulfide	ND	0.20	ppbv	ND	0.62	ug/m3
Isopropanol (IPA)	ND	1.0	ppbv	ND	2.5	ug/m3
Methylene Chloride	ND	0.50	ppbv	ND	1.7	ug/m3
trans-1,2-Dichloroethene	ND	0.20	ppbv	ND	0.79	ug/m3
MTBE	ND	0.20	ppbv	ND	0.72	ug/m3
n-Hexane	ND	0.20	ppbv	ND	0.70	ug/m3
1,1-Dichloroethane	ND	0.20	ppbv	ND	0.81	ug/m3
Vinyl Acetate	ND	1.0	ppbv	ND	3.5	ug/m3
cis-1,2-Dichloroethene	ND	0.20	ppbv	ND	0.79	ug/m3
2-Butanone	ND	1.0	ppbv	ND	2.9	ug/m3
Ethyl Acetate	ND	0.50	ppbv	ND	1.8	ug/m3
Chloroform	ND	0.20	ppbv	ND	0.98	ug/m3
1,1,1-Trichloroethane	ND	0.20	ppbv	ND	1.1	ug/m3
Cyclohexane	ND	0.20	ppbv	ND	0.69	ug/m3
Carbon Tetrachloride	ND	0.20	ppbv	ND	1.3	ug/m3
Benzene	ND	0.20	ppbv	ND	0.64	ug/m3
1,2-Dichloroethane	ND	0.20	ppbv	ND	0.81	ug/m3
n-Heptane	ND	0.20	ppbv	ND	0.82	ug/m3
Trichloroethene	ND	0.20	ppbv	ND	1.1	ug/m3
1,2-Dichloropropane	ND	0.20	ppbv	ND	0.92	ug/m3
Bromodichloromethane	ND	0.20	ppbv	ND	1.3	ug/m3
cis-1,3-Dichloropropene	ND	0.20	ppbv	ND	0.91	ug/m3
4-Methyl-2-Pentanone	ND	0.20	ppbv	ND	0.82	ug/m3
Toluene	ND	0.20	ppbv	ND	0.75	ug/m3
trans-1,3-Dichloropropene	ND	0.20	ppbv	ND	0.91	ug/m3
1,1,2-Trichloroethane	ND	0.20	ppbv	ND	1.1	ug/m3
Tetrachloroethene	ND	0.20	ppbv	ND	1.4	ug/m3
2-Hexanone	ND	0.50	ppbv	ND	2.0	ug/m3
Dibromochloromethane	ND	0.20	ppbv	ND	1.7	ug/m3

Volatile Organics in Air: Batch QC

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,2-Dibromoethane	ND	0.20	ppbv	ND	1.5	ug/m3
Chlorobenzene	ND	0.20	ppbv	ND	0.92	ug/m3
Ethylbenzene	ND	0.50	ppbv	ND	2.2	ug/m3
m,p-Xylenes	ND	0.40	ppbv	ND	1.7	ug/m3
o-Xylene	ND	0.20	ppbv	ND	0.87	ug/m3
Styrene	ND	0.50	ppbv	ND	2.1	ug/m3
Bromoform	ND	0.20	ppbv	ND	2.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.20	ppbv	ND	1.4	ug/m3
4-Ethyltoluene	ND	0.50	ppbv	ND	2.5	ug/m3
1,3,5-Trimethylbenzene	ND	0.20	ppbv	ND	0.98	ug/m3
1,2,4-Trimethylbenzene	ND	0.50	ppbv	ND	2.5	ug/m3
1,3-Dichlorobenzene	ND	0.20	ppbv	ND	1.2	ug/m3
1,4-Dichlorobenzene	ND	0.20	ppbv	ND	1.2	ug/m3
Benzyl chloride	ND	0.50	ppbv	ND	2.6	ug/m3
1,2-Dichlorobenzene	ND	0.20	ppbv	ND	1.2	ug/m3
1,2,4-Trichlorobenzene	ND	1.0	ppbv	ND	7.4	ug/m3
Hexachlorobutadiene	ND	0.20	ppbv	ND	2.1	ug/m3
Naphthalene	ND	1.0	ppbv	ND	5.2	ug/m3
Xylene (total)	ND	0.20	ppbv	ND	0.87	ug/m3

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	97	60-140	ug/m3

Legend

ND:	Not Detected
RL (V):	Reporting Limit
Result (M):	Result in mass units
Result (V):	Result in volume units

Volatile Organics in Air: Batch QC

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID:	SG2	**Diln Fac:**	4.000	**Prep:**	METHOD
Type:	SDUP	**Batch#:**	248315	**Analysis:**	EPA TO-15
MSS Lab ID:	429907-002	**Sampled:**	06/18/20 17:22	**Analyst:**	GVO
Lab ID:	QC874426	**Received:**	06/22/20		
Matrix:	Air	**Analyzed:**	06/26/20 18:52		

Analyte	MSS Result	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)	RPD	Lim
1,4-Dioxane	<0.8000	ND	0.8000	ppbv	ND	2.883	ug/m3	NC	30
Propylene	<0.8000	ND	0.8000	ppbv	ND	1.377	ug/m3	NC	30
Freon 12	0.8209	ND	0.8000	ppbv	ND	3.956	ug/m3	NC	30
Freon 114	<0.8000	ND	0.8000	ppbv	ND	5.593	ug/m3	NC	30
Chloromethane	<0.8000	ND	0.8000	ppbv	ND	1.652	ug/m3	NC	30
Vinyl Chloride	<0.8000	ND	0.8000	ppbv	ND	2.045	ug/m3	NC	30
1,3-Butadiene	<0.8000	ND	0.8000	ppbv	ND	1.770	ug/m3	NC	30
Bromomethane	<0.8000	ND	0.8000	ppbv	ND	3.106	ug/m3	NC	30
Chloroethane	<0.8000	ND	0.8000	ppbv	ND	2.111	ug/m3	NC	30
Trichlorofluoromethane	1.382	**1.368**	0.8000	ppbv	7.687	4.495	ug/m3	1	30
1,1-Dichloroethene	<0.8000	ND	0.8000	ppbv	ND	3.172	ug/m3	NC	30
Freon 113	<0.8000	ND	0.8000	ppbv	ND	6.131	ug/m3	NC	30
Acetone	10.83	**10.69**	8.000	ppbv	25.39	19.00	ug/m3	1	30
Carbon Disulfide	<0.8000	ND	0.8000	ppbv	ND	2.491	ug/m3	NC	30
Isopropanol (IPA)	<4.000	ND	4.000	ppbv	ND	9.832	ug/m3	NC	30
Methylene Chloride	<2.000	ND	2.000	ppbv	ND	6.947	ug/m3	NC	30
trans-1,2-Dichloroethene	<0.8000	ND	0.8000	ppbv	ND	3.172	ug/m3	NC	30
MTBE	<0.8000	ND	0.8000	ppbv	ND	2.884	ug/m3	NC	30
n-Hexane	<0.8000	ND	0.8000	ppbv	ND	2.820	ug/m3	NC	30
1,1-Dichloroethane	<0.8000	ND	0.8000	ppbv	ND	3.238	ug/m3	NC	30
Vinyl Acetate	<4.000	ND	4.000	ppbv	ND	14.08	ug/m3	NC	30
cis-1,2-Dichloroethene	<0.8000	ND	0.8000	ppbv	ND	3.172	ug/m3	NC	30
2-Butanone	<4.000	ND	4.000	ppbv	ND	11.80	ug/m3	NC	30
Ethyl Acetate	<2.000	ND	2.000	ppbv	ND	7.207	ug/m3	NC	30
Chloroform	<0.8000	ND	0.8000	ppbv	ND	3.906	ug/m3	NC	30
1,1,1-Trichloroethane	<0.8000	ND	0.8000	ppbv	ND	4.365	ug/m3	NC	30
Cyclohexane	<0.8000	ND	0.8000	ppbv	ND	2.754	ug/m3	NC	30
Carbon Tetrachloride	<0.8000	ND	0.8000	ppbv	ND	5.033	ug/m3	NC	30
Benzene	<0.8000	ND	0.8000	ppbv	ND	2.556	ug/m3	NC	30
1,2-Dichloroethane	<0.8000	ND	0.8000	ppbv	ND	3.238	ug/m3	NC	30
n-Heptane	<0.8000	ND	0.8000	ppbv	ND	3.279	ug/m3	NC	30
Trichloroethene	126.0	**126.0**	0.8000	ppbv	677.3	4.299	ug/m3	0	30
1,2-Dichloropropane	<0.8000	ND	0.8000	ppbv	ND	3.697	ug/m3	NC	30
Bromodichloromethane	<0.8000	ND	0.8000	ppbv	ND	5.360	ug/m3	NC	30
cis-1,3-Dichloropropene	<0.8000	ND	0.8000	ppbv	ND	3.631	ug/m3	NC	30
4-Methyl-2-Pentanone	<0.8000	ND	0.8000	ppbv	ND	3.277	ug/m3	NC	30
Toluene	<0.8000	ND	0.8000	ppbv	ND	3.015	ug/m3	NC	30
trans-1,3-Dichloropropene	<0.8000	ND	0.8000	ppbv	ND	3.631	ug/m3	NC	30
1,1,2-Trichloroethane	<0.8000	ND	0.8000	ppbv	ND	4.365	ug/m3	NC	30
Tetrachloroethene	7.021	**6.674**	0.8000	ppbv	45.27	5.426	ug/m3	5	30

Volatile Organics in Air: Batch QC

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	MSS Result	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)	RPD	Lim
2-Hexanone	<2.000	ND	2.000	ppbv	ND	8.193	ug/m3	NC	30
Dibromochloromethane	<0.8000	ND	0.8000	ppbv	ND	6.815	ug/m3	NC	30
1,2-Dibromoethane	<0.8000	ND	0.8000	ppbv	ND	6.147	ug/m3	NC	30
Chlorobenzene	<0.8000	ND	0.8000	ppbv	ND	3.683	ug/m3	NC	30
Ethylbenzene	<2.000	ND	2.000	ppbv	ND	8.684	ug/m3	NC	30
m,p-Xylenes	<1.600	ND	1.600	ppbv	ND	6.948	ug/m3	NC	30
o-Xylene	<0.8000	ND	0.8000	ppbv	ND	3.474	ug/m3	NC	30
Styrene	<2.000	ND	2.000	ppbv	ND	8.519	ug/m3	NC	30
Bromoform	<0.8000	ND	0.8000	ppbv	ND	8.269	ug/m3	NC	30
1,1,2,2-Tetrachloroethane	<0.8000	ND	0.8000	ppbv	ND	5.492	ug/m3	NC	30
4-Ethyltoluene	<2.000	ND	2.000	ppbv	ND	9.832	ug/m3	NC	30
1,3,5-Trimethylbenzene	<0.8000	ND	0.8000	ppbv	ND	3.933	ug/m3	NC	30
1,2,4-Trimethylbenzene	<2.000	ND	2.000	ppbv	ND	9.832	ug/m3	NC	30
1,3-Dichlorobenzene	<0.8000	ND	0.8000	ppbv	ND	4.810	ug/m3	NC	30
1,4-Dichlorobenzene	<0.8000	ND	0.8000	ppbv	ND	4.810	ug/m3	NC	30
Benzyl chloride	<2.000	ND	2.000	ppbv	ND	10.35	ug/m3	NC	30
1,2-Dichlorobenzene	<0.8000	ND	0.8000	ppbv	ND	4.810	ug/m3	NC	30
1,2,4-Trichlorobenzene	<4.000	ND	4.000	ppbv	ND	29.68	ug/m3	NC	30
Hexachlorobutadiene	<0.8000	ND	0.8000	ppbv	ND	8.532	ug/m3	NC	30
Naphthalene	<4.000	ND	4.000	ppbv	ND	20.97	ug/m3	NC	30

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	104	60-140	ug/m3

Legend

NC:	Not Calculated
ND:	Not Detected
RL (V):	Reporting Limit
RPD:	Relative Percent Difference
Result (M):	Result in mass units
Result (V):	Result in volume units

Volatile Organics in Air: Batch QC

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Type:	BLANK	**Diln Fac:**	1.000	**Prep:**	METHOD
Lab ID:	QC874531	**Batch#:**	248355	**Analysis:**	EPA TO-15
Matrix:	Air	**Analyzed:**	06/27/20 12:19	**Analyst:**	PXT

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,4-Dioxane	ND	0.20	ppbv	ND	0.72	ug/m3
Propylene	ND	0.20	ppbv	ND	0.34	ug/m3
Freon 12	ND	0.20	ppbv	ND	0.99	ug/m3
Freon 114	ND	0.20	ppbv	ND	1.4	ug/m3
Chloromethane	ND	0.20	ppbv	ND	0.41	ug/m3
Vinyl Chloride	ND	0.20	ppbv	ND	0.51	ug/m3
1,3-Butadiene	ND	0.20	ppbv	ND	0.44	ug/m3
Bromomethane	ND	0.20	ppbv	ND	0.78	ug/m3
Chloroethane	ND	0.20	ppbv	ND	0.53	ug/m3
Trichlorofluoromethane	ND	0.20	ppbv	ND	1.1	ug/m3
1,1-Dichloroethene	ND	0.20	ppbv	ND	0.79	ug/m3
Freon 113	ND	0.20	ppbv	ND	1.5	ug/m3
Acetone	ND	2.0	ppbv	ND	4.8	ug/m3
Carbon Disulfide	ND	0.20	ppbv	ND	0.62	ug/m3
Isopropanol (IPA)	ND	1.0	ppbv	ND	2.5	ug/m3
Methylene Chloride	ND	0.50	ppbv	ND	1.7	ug/m3
trans-1,2-Dichloroethene	ND	0.20	ppbv	ND	0.79	ug/m3
MTBE	ND	0.20	ppbv	ND	0.72	ug/m3
n-Hexane	ND	0.20	ppbv	ND	0.70	ug/m3
1,1-Dichloroethane	ND	0.20	ppbv	ND	0.81	ug/m3
Vinyl Acetate	ND	1.0	ppbv	ND	3.5	ug/m3
cis-1,2-Dichloroethene	ND	0.20	ppbv	ND	0.79	ug/m3
2-Butanone	ND	1.0	ppbv	ND	2.9	ug/m3
Ethyl Acetate	ND	0.50	ppbv	ND	1.8	ug/m3
Chloroform	ND	0.20	ppbv	ND	0.98	ug/m3
1,1,1-Trichloroethane	ND	0.20	ppbv	ND	1.1	ug/m3
Cyclohexane	ND	0.20	ppbv	ND	0.69	ug/m3
Carbon Tetrachloride	ND	0.20	ppbv	ND	1.3	ug/m3
Benzene	ND	0.20	ppbv	ND	0.64	ug/m3
1,2-Dichloroethane	ND	0.20	ppbv	ND	0.81	ug/m3
n-Heptane	ND	0.20	ppbv	ND	0.82	ug/m3
Trichloroethene	ND	0.20	ppbv	ND	1.1	ug/m3
1,2-Dichloropropane	ND	0.20	ppbv	ND	0.92	ug/m3
Bromodichloromethane	ND	0.20	ppbv	ND	1.3	ug/m3
cis-1,3-Dichloropropene	ND	0.20	ppbv	ND	0.91	ug/m3
4-Methyl-2-Pentanone	ND	0.20	ppbv	ND	0.82	ug/m3
Toluene	ND	0.20	ppbv	ND	0.75	ug/m3
trans-1,3-Dichloropropene	ND	0.20	ppbv	ND	0.91	ug/m3
1,1,2-Trichloroethane	ND	0.20	ppbv	ND	1.1	ug/m3
Tetrachloroethene	ND	0.20	ppbv	ND	1.4	ug/m3
2-Hexanone	ND	0.50	ppbv	ND	2.0	ug/m3
Dibromochloromethane	ND	0.20	ppbv	ND	1.7	ug/m3

Volatile Organics in Air: Batch QC

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,2-Dibromoethane	ND	0.20	ppbv	ND	1.5	ug/m3
Chlorobenzene	ND	0.20	ppbv	ND	0.92	ug/m3
Ethylbenzene	ND	0.50	ppbv	ND	2.2	ug/m3
m,p-Xylenes	ND	0.40	ppbv	ND	1.7	ug/m3
o-Xylene	ND	0.20	ppbv	ND	0.87	ug/m3
Styrene	ND	0.50	ppbv	ND	2.1	ug/m3
Bromoform	ND	0.20	ppbv	ND	2.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.20	ppbv	ND	1.4	ug/m3
4-Ethyltoluene	ND	0.50	ppbv	ND	2.5	ug/m3
1,3,5-Trimethylbenzene	ND	0.20	ppbv	ND	0.98	ug/m3
1,2,4-Trimethylbenzene	ND	0.50	ppbv	ND	2.5	ug/m3
1,3-Dichlorobenzene	ND	0.20	ppbv	ND	1.2	ug/m3
1,4-Dichlorobenzene	ND	0.20	ppbv	ND	1.2	ug/m3
Benzyl chloride	ND	0.50	ppbv	ND	2.6	ug/m3
1,2-Dichlorobenzene	ND	0.20	ppbv	ND	1.2	ug/m3
1,2,4-Trichlorobenzene	ND	1.0	ppbv	ND	7.4	ug/m3
Hexachlorobutadiene	ND	0.20	ppbv	ND	2.1	ug/m3
Naphthalene	ND	1.0	ppbv	ND	5.2	ug/m3
Xylene (total)	ND	0.20	ppbv	ND	0.87	ug/m3

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	98	60-140	ug/m3

Legend

ND:	Not Detected
RL (V):	Reporting Limit
Result (M):	Result in mass units
Result (V):	Result in volume units

Volatile Organics in Air: Batch QC

Lab #: 429907 **Project#:** 0772
Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID: SG15 **Diln Fac:** 2.000 **Prep:** METHOD
Type: SDUP **Batch#:** 248355 **Analysis:** EPA TO-15
MSS Lab ID: 429907-016 **Sampled:** 06/22/20 14:40 **Analyst:** PXT
Lab ID: QC874532 **Received:** 06/22/20
Matrix: Air **Analyzed:** 06/28/20 08:34

Analyte	MSS Result	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)	RPD	Lim
1,4-Dioxane	<0.4000	ND	0.4000	ppbv	ND	1.441	ug/m3	NC	30
Propylene	<0.4000	ND	0.4000	ppbv	ND	0.6884	ug/m3	NC	30
Freon 12	0.4465	**0.4474**	0.4000	ppbv	2.213	1.978	ug/m3	0	30
Freon 114	<0.4000	ND	0.4000	ppbv	ND	2.796	ug/m3	NC	30
Chloromethane	0.6591	**0.6950**	0.4000	ppbv	1.435	0.8260	ug/m3	5	30
Vinyl Chloride	<0.4000	ND	0.4000	ppbv	ND	1.022	ug/m3	NC	30
1,3-Butadiene	<0.4000	ND	0.4000	ppbv	ND	0.8849	ug/m3	NC	30
Bromomethane	<0.4000	ND	0.4000	ppbv	ND	1.553	ug/m3	NC	30
Chloroethane	<0.4000	ND	0.4000	ppbv	ND	1.055	ug/m3	NC	30
Trichlorofluoromethane	0.4789	**0.4895**	0.4000	ppbv	2.750	2.247	ug/m3	2	30
1,1-Dichloroethene	<0.4000	ND	0.4000	ppbv	ND	1.586	ug/m3	NC	30
Freon 113	<0.4000	ND	0.4000	ppbv	ND	3.065	ug/m3	NC	30
Acetone	22.64	**23.62**	4.000	ppbv	56.10	9.502	ug/m3	4	30
Carbon Disulfide	<0.4000	ND	0.4000	ppbv	ND	1.245	ug/m3	NC	30
Isopropanol (IPA)	6.031	**6.570**	2.000	ppbv	16.15	4.916	ug/m3	9	30
Methylene Chloride	2.187	**2.213**	1.000	ppbv	7.686	3.474	ug/m3	1	30
trans-1,2-Dichloroethene	<0.4000	ND	0.4000	ppbv	ND	1.586	ug/m3	NC	30
MTBE	<0.4000	ND	0.4000	ppbv	ND	1.442	ug/m3	NC	30
n-Hexane	<0.4000	ND	0.4000	ppbv	ND	1.410	ug/m3	NC	30
1,1-Dichloroethane	<0.4000	ND	0.4000	ppbv	ND	1.619	ug/m3	NC	30
Vinyl Acetate	<2.000	ND	2.000	ppbv	ND	7.042	ug/m3	NC	30
cis-1,2-Dichloroethene	0.7130	**0.8081**	0.4000	ppbv	3.204	1.586	ug/m3	13	30
2-Butanone	<2.000	ND	2.000	ppbv	ND	5.898	ug/m3	NC	30
Ethyl Acetate	<1.000	ND	1.000	ppbv	ND	3.604	ug/m3	NC	30
Chloroform	<0.4000	ND	0.4000	ppbv	ND	1.953	ug/m3	NC	30
1,1,1-Trichloroethane	<0.4000	ND	0.4000	ppbv	ND	2.182	ug/m3	NC	30
Cyclohexane	<0.4000	ND	0.4000	ppbv	ND	1.377	ug/m3	NC	30
Carbon Tetrachloride	<0.4000	ND	0.4000	ppbv	ND	2.517	ug/m3	NC	30
Benzene	<0.4000	ND	0.4000	ppbv	ND	1.278	ug/m3	NC	30
1,2-Dichloroethane	<0.4000	ND	0.4000	ppbv	ND	1.619	ug/m3	NC	30
n-Heptane	<0.4000	ND	0.4000	ppbv	ND	1.639	ug/m3	NC	30
Trichloroethene	1.765	**1.818**	0.4000	ppbv	9.770	2.150	ug/m3	3	30
1,2-Dichloropropane	<0.4000	ND	0.4000	ppbv	ND	1.848	ug/m3	NC	30
Bromodichloromethane	<0.4000	ND	0.4000	ppbv	ND	2.680	ug/m3	NC	30
cis-1,3-Dichloropropene	<0.4000	ND	0.4000	ppbv	ND	1.815	ug/m3	NC	30
4-Methyl-2-Pentanone	<0.4000	ND	0.4000	ppbv	ND	1.639	ug/m3	NC	30
Toluene	<0.4000	ND	0.4000	ppbv	ND	1.507	ug/m3	NC	30
trans-1,3-Dichloropropene	<0.4000	ND	0.4000	ppbv	ND	1.815	ug/m3	NC	30
1,1,2-Trichloroethane	<0.4000	ND	0.4000	ppbv	ND	2.182	ug/m3	NC	30
Tetrachloroethene	20.11	**21.04**	0.4000	ppbv	142.7	2.713	ug/m3	5	30

Volatile Organics in Air: Batch QC

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	MSS Result	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)	RPD	Lim
2-Hexanone	<1.000	ND	1.000	ppbv	ND	4.097	ug/m3	NC	30
Dibromochloromethane	<0.4000	ND	0.4000	ppbv	ND	3.407	ug/m3	NC	30
1,2-Dibromoethane	<0.4000	ND	0.4000	ppbv	ND	3.073	ug/m3	NC	30
Chlorobenzene	<0.4000	ND	0.4000	ppbv	ND	1.841	ug/m3	NC	30
Ethylbenzene	<1.000	ND	1.000	ppbv	ND	4.342	ug/m3	NC	30
m,p-Xylenes	<0.8000	ND	0.8000	ppbv	ND	3.474	ug/m3	NC	30
o-Xylene	<0.4000	ND	0.4000	ppbv	ND	1.737	ug/m3	NC	30
Styrene	<1.000	ND	1.000	ppbv	ND	4.260	ug/m3	NC	30
Bromoform	<0.4000	ND	0.4000	ppbv	ND	4.135	ug/m3	NC	30
1,1,2,2-Tetrachloroethane	<0.4000	ND	0.4000	ppbv	ND	2.746	ug/m3	NC	30
4-Ethyltoluene	<1.000	ND	1.000	ppbv	ND	4.916	ug/m3	NC	30
1,3,5-Trimethylbenzene	<0.4000	ND	0.4000	ppbv	ND	1.966	ug/m3	NC	30
1,2,4-Trimethylbenzene	<1.000	ND	1.000	ppbv	ND	4.916	ug/m3	NC	30
1,3-Dichlorobenzene	<0.4000	ND	0.4000	ppbv	ND	2.405	ug/m3	NC	30
1,4-Dichlorobenzene	<0.4000	ND	0.4000	ppbv	ND	2.405	ug/m3	NC	30
Benzyl chloride	<1.000	ND	1.000	ppbv	ND	5.177	ug/m3	NC	30
1,2-Dichlorobenzene	<0.4000	ND	0.4000	ppbv	ND	2.405	ug/m3	NC	30
1,2,4-Trichlorobenzene	<2.000	ND	2.000	ppbv	ND	14.84	ug/m3	NC	30
Hexachlorobutadiene	<0.4000	ND	0.4000	ppbv	ND	4.266	ug/m3	NC	30
Naphthalene	<2.000	ND	2.000	ppbv	ND	10.48	ug/m3	NC	30

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	96	60-140	ug/m3

Legend

NC:	Not Calculated
ND:	Not Detected
RL (V):	Reporting Limit
RPD:	Relative Percent Difference
Result (M):	Result in mass units
Result (V):	Result in volume units

Volatile Organics in Air: Batch QC

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Type:	BLANK	**Diln Fac:**	1.000	**Prep:**	METHOD
Lab ID:	QC874676	**Batch#:**	248400	**Analysis:**	EPA TO-15
Matrix:	Air	**Analyzed:**	06/29/20 11:31	**Analyst:**	GVO

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,4-Dioxane	ND	0.20	ppbv	ND	0.72	ug/m3
Propylene	ND	0.20	ppbv	ND	0.34	ug/m3
Freon 12	ND	0.20	ppbv	ND	0.99	ug/m3
Freon 114	ND	0.20	ppbv	ND	1.4	ug/m3
Chloromethane	ND	0.20	ppbv	ND	0.41	ug/m3
Vinyl Chloride	ND	0.20	ppbv	ND	0.51	ug/m3
1,3-Butadiene	ND	0.20	ppbv	ND	0.44	ug/m3
Bromomethane	ND	0.20	ppbv	ND	0.78	ug/m3
Chloroethane	ND	0.20	ppbv	ND	0.53	ug/m3
Trichlorofluoromethane	ND	0.20	ppbv	ND	1.1	ug/m3
1,1-Dichloroethene	ND	0.20	ppbv	ND	0.79	ug/m3
Freon 113	ND	0.20	ppbv	ND	1.5	ug/m3
Acetone	ND	2.0	ppbv	ND	4.8	ug/m3
Carbon Disulfide	ND	0.20	ppbv	ND	0.62	ug/m3
Isopropanol (IPA)	ND	1.0	ppbv	ND	2.5	ug/m3
Methylene Chloride	ND	0.50	ppbv	ND	1.7	ug/m3
trans-1,2-Dichloroethene	ND	0.20	ppbv	ND	0.79	ug/m3
MTBE	ND	0.20	ppbv	ND	0.72	ug/m3
n-Hexane	ND	0.20	ppbv	ND	0.70	ug/m3
1,1-Dichloroethane	ND	0.20	ppbv	ND	0.81	ug/m3
Vinyl Acetate	ND	1.0	ppbv	ND	3.5	ug/m3
cis-1,2-Dichloroethene	ND	0.20	ppbv	ND	0.79	ug/m3
2-Butanone	ND	1.0	ppbv	ND	2.9	ug/m3
Ethyl Acetate	ND	0.50	ppbv	ND	1.8	ug/m3
Chloroform	ND	0.20	ppbv	ND	0.98	ug/m3
1,1,1-Trichloroethane	ND	0.20	ppbv	ND	1.1	ug/m3
Cyclohexane	ND	0.20	ppbv	ND	0.69	ug/m3
Carbon Tetrachloride	ND	0.20	ppbv	ND	1.3	ug/m3
Benzene	ND	0.20	ppbv	ND	0.64	ug/m3
1,2-Dichloroethane	ND	0.20	ppbv	ND	0.81	ug/m3
n-Heptane	ND	0.20	ppbv	ND	0.82	ug/m3
Trichloroethene	ND	0.20	ppbv	ND	1.1	ug/m3
1,2-Dichloropropane	ND	0.20	ppbv	ND	0.92	ug/m3
Bromodichloromethane	ND	0.20	ppbv	ND	1.3	ug/m3
cis-1,3-Dichloropropene	ND	0.20	ppbv	ND	0.91	ug/m3
4-Methyl-2-Pentanone	ND	0.20	ppbv	ND	0.82	ug/m3
Toluene	ND	0.20	ppbv	ND	0.75	ug/m3
trans-1,3-Dichloropropene	ND	0.20	ppbv	ND	0.91	ug/m3
1,1,2-Trichloroethane	ND	0.20	ppbv	ND	1.1	ug/m3
Tetrachloroethene	ND	0.20	ppbv	ND	1.4	ug/m3
2-Hexanone	ND	0.50	ppbv	ND	2.0	ug/m3
Dibromochloromethane	ND	0.20	ppbv	ND	1.7	ug/m3

Volatile Organics in Air: Batch QC

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,2-Dibromoethane	ND	0.20	ppbv	ND	1.5	ug/m3
Chlorobenzene	ND	0.20	ppbv	ND	0.92	ug/m3
Ethylbenzene	ND	0.50	ppbv	ND	2.2	ug/m3
m,p-Xylenes	ND	0.40	ppbv	ND	1.7	ug/m3
o-Xylene	ND	0.20	ppbv	ND	0.87	ug/m3
Styrene	ND	0.50	ppbv	ND	2.1	ug/m3
Bromoform	ND	0.20	ppbv	ND	2.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.20	ppbv	ND	1.4	ug/m3
4-Ethyltoluene	ND	0.50	ppbv	ND	2.5	ug/m3
1,3,5-Trimethylbenzene	ND	0.20	ppbv	ND	0.98	ug/m3
1,2,4-Trimethylbenzene	ND	0.50	ppbv	ND	2.5	ug/m3
1,3-Dichlorobenzene	ND	0.20	ppbv	ND	1.2	ug/m3
1,4-Dichlorobenzene	ND	0.20	ppbv	ND	1.2	ug/m3
Benzyl chloride	ND	0.50	ppbv	ND	2.6	ug/m3
1,2-Dichlorobenzene	ND	0.20	ppbv	ND	1.2	ug/m3
1,2,4-Trichlorobenzene	ND	1.0	ppbv	ND	7.4	ug/m3
Hexachlorobutadiene	ND	0.20	ppbv	ND	2.1	ug/m3
Naphthalene	ND	1.0	ppbv	ND	5.2	ug/m3
Xylene (total)	ND	0.20	ppbv	ND	0.87	ug/m3

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	95	60-140	ug/m3

Legend

ND: Not Detected
RL (V): Reporting Limit
Result (M): Result in mass units
Result (V): Result in volume units

Volatile Organics in Air: Batch QC

Lab #: 429907 **Project#:** 0772
Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID:	ZZZZZZZZZZ	**Diln Fac:**	12.00	**Prep:**	METHOD
Type:	SDUP	**Batch#:**	248400	**Analysis:**	EPA TO-15
MSS Lab ID:	430138-001	**Sampled:**	06/27/20 16:48	**Analyst:**	GVO
Lab ID:	QC874677	**Received:**	06/29/20		
Matrix:	Air	**Analyzed:**	06/29/20 17:06		

Analyte	MSS Result	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)	RPD	Lim
1,4-Dioxane	<2.400	ND	2.400	ppbv	ND	8.648	ug/m3	NC	30
Propylene	<2.400	ND	2.400	ppbv	ND	4.131	ug/m3	NC	30
Freon 12	<2.400	ND	2.400	ppbv	ND	11.87	ug/m3	NC	30
Freon 114	<2.400	ND	2.400	ppbv	ND	16.78	ug/m3	NC	30
Chloromethane	<2.400	ND	2.400	ppbv	ND	4.956	ug/m3	NC	30
Vinyl Chloride	<2.400	ND	2.400	ppbv	ND	6.135	ug/m3	NC	30
1,3-Butadiene	<2.400	ND	2.400	ppbv	ND	5.310	ug/m3	NC	30
Bromomethane	<2.400	ND	2.400	ppbv	ND	9.319	ug/m3	NC	30
Chloroethane	<2.400	ND	2.400	ppbv	ND	6.333	ug/m3	NC	30
Trichlorofluoromethane	<2.400	ND	2.400	ppbv	ND	13.48	ug/m3	NC	30
1,1-Dichloroethene	<2.400	ND	2.400	ppbv	ND	9.516	ug/m3	NC	30
Freon 113	<2.400	ND	2.400	ppbv	ND	18.39	ug/m3	NC	30
Acetone	30.45	**31.51**	24.00	ppbv	74.85	57.01	ug/m3	3	30
Carbon Disulfide	<2.400	ND	2.400	ppbv	ND	7.473	ug/m3	NC	30
Isopropanol (IPA)	284.7	**319.0**	12.00	ppbv	784.0	29.49	ug/m3	11	30
Methylene Chloride	<6.000	ND	6.000	ppbv	ND	20.84	ug/m3	NC	30
trans-1,2-Dichloroethene	<2.400	ND	2.400	ppbv	ND	9.516	ug/m3	NC	30
MTBE	<2.400	ND	2.400	ppbv	ND	8.653	ug/m3	NC	30
n-Hexane	<2.400	ND	2.400	ppbv	ND	8.459	ug/m3	NC	30
1,1-Dichloroethane	<2.400	ND	2.400	ppbv	ND	9.714	ug/m3	NC	30
Vinyl Acetate	<12.00	ND	12.00	ppbv	ND	42.25	ug/m3	NC	30
cis-1,2-Dichloroethene	<2.400	ND	2.400	ppbv	ND	9.516	ug/m3	NC	30
2-Butanone	<12.00	ND	12.00	ppbv	ND	35.39	ug/m3	NC	30
Ethyl Acetate	<6.000	ND	6.000	ppbv	ND	21.62	ug/m3	NC	30
Chloroform	<2.400	ND	2.400	ppbv	ND	11.72	ug/m3	NC	30
1,1,1-Trichloroethane	<2.400	ND	2.400	ppbv	ND	13.09	ug/m3	NC	30
Cyclohexane	<2.400	ND	2.400	ppbv	ND	8.261	ug/m3	NC	30
Carbon Tetrachloride	<2.400	ND	2.400	ppbv	ND	15.10	ug/m3	NC	30
Benzene	<2.400	ND	2.400	ppbv	ND	7.668	ug/m3	NC	30
1,2-Dichloroethane	<2.400	ND	2.400	ppbv	ND	9.714	ug/m3	NC	30
n-Heptane	<2.400	ND	2.400	ppbv	ND	9.836	ug/m3	NC	30
Trichloroethene	<2.400	ND	2.400	ppbv	ND	12.90	ug/m3	NC	30
1,2-Dichloropropane	<2.400	ND	2.400	ppbv	ND	11.09	ug/m3	NC	30
Bromodichloromethane	<2.400	ND	2.400	ppbv	ND	16.08	ug/m3	NC	30
cis-1,3-Dichloropropene	<2.400	ND	2.400	ppbv	ND	10.89	ug/m3	NC	30
4-Methyl-2-Pentanone	<2.400	ND	2.400	ppbv	ND	9.832	ug/m3	NC	30
Toluene	<2.400	ND	2.400	ppbv	ND	9.044	ug/m3	NC	30
trans-1,3-Dichloropropene	<2.400	ND	2.400	ppbv	ND	10.89	ug/m3	NC	30
1,1,2-Trichloroethane	<2.400	ND	2.400	ppbv	ND	13.09	ug/m3	NC	30
Tetrachloroethene	<2.400	ND	2.400	ppbv	ND	16.28	ug/m3	NC	30

Volatile Organics in Air: Batch QC

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	MSS Result	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)	RPD	Lim
2-Hexanone	<6.000	ND	6.000	ppbv	ND	24.58	ug/m3	NC	30
Dibromochloromethane	<2.400	ND	2.400	ppbv	ND	20.44	ug/m3	NC	30
1,2-Dibromoethane	<2.400	ND	2.400	ppbv	ND	18.44	ug/m3	NC	30
Chlorobenzene	<2.400	ND	2.400	ppbv	ND	11.05	ug/m3	NC	30
Ethylbenzene	<6.000	ND	6.000	ppbv	ND	26.05	ug/m3	NC	30
m,p-Xylenes	<4.800	ND	4.800	ppbv	ND	20.84	ug/m3	NC	30
o-Xylene	<2.400	ND	2.400	ppbv	ND	10.42	ug/m3	NC	30
Styrene	<6.000	ND	6.000	ppbv	ND	25.56	ug/m3	NC	30
Bromoform	<2.400	ND	2.400	ppbv	ND	24.81	ug/m3	NC	30
1,1,2,2-Tetrachloroethane	<2.400	ND	2.400	ppbv	ND	16.48	ug/m3	NC	30
4-Ethyltoluene	<6.000	ND	6.000	ppbv	ND	29.50	ug/m3	NC	30
1,3,5-Trimethylbenzene	<2.400	ND	2.400	ppbv	ND	11.80	ug/m3	NC	30
1,2,4-Trimethylbenzene	<6.000	ND	6.000	ppbv	ND	29.50	ug/m3	NC	30
1,3-Dichlorobenzene	<2.400	ND	2.400	ppbv	ND	14.43	ug/m3	NC	30
1,4-Dichlorobenzene	<2.400	ND	2.400	ppbv	ND	14.43	ug/m3	NC	30
Benzyl chloride	<6.000	ND	6.000	ppbv	ND	31.06	ug/m3	NC	30
1,2-Dichlorobenzene	<2.400	ND	2.400	ppbv	ND	14.43	ug/m3	NC	30
1,2,4-Trichlorobenzene	<12.00	ND	12.00	ppbv	ND	89.05	ug/m3	NC	30
Hexachlorobutadiene	<2.400	ND	2.400	ppbv	ND	25.60	ug/m3	NC	30
Naphthalene	<12.00	ND	12.00	ppbv	ND	62.91	ug/m3	NC	30

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	96	60-140	ug/m3

Legend

NC:	Not Calculated
ND:	Not Detected
RL (V):	Reporting Limit
RPD:	Relative Percent Difference
Result (M):	Result in mass units
Result (V):	Result in volume units

Volatile Organics in Air: Batch QC

Lab #: 429907 **Project#:** 0772
Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Type: BLANK **Diln Fac:** 1.000 **Prep:** METHOD
Lab ID: QC874991 **Batch#:** 248515 **Analysis:** EPA TO-15
Matrix: Air **Analyzed:** 07/01/20 10:15 **Analyst:** GVO

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,4-Dioxane	ND	0.20	ppbv	ND	0.72	ug/m3
Propylene	ND	0.20	ppbv	ND	0.34	ug/m3
Freon 12	ND	0.20	ppbv	ND	0.99	ug/m3
Freon 114	ND	0.20	ppbv	ND	1.4	ug/m3
Chloromethane	ND	0.20	ppbv	ND	0.41	ug/m3
Vinyl Chloride	ND	0.20	ppbv	ND	0.51	ug/m3
1,3-Butadiene	ND	0.20	ppbv	ND	0.44	ug/m3
Bromomethane	ND	0.20	ppbv	ND	0.78	ug/m3
Chloroethane	ND	0.20	ppbv	ND	0.53	ug/m3
Trichlorofluoromethane	ND	0.20	ppbv	ND	1.1	ug/m3
1,1-Dichloroethene	ND	0.20	ppbv	ND	0.79	ug/m3
Freon 113	ND	0.20	ppbv	ND	1.5	ug/m3
Acetone	ND	2.0	ppbv	ND	4.8	ug/m3
Carbon Disulfide	ND	0.20	ppbv	ND	0.62	ug/m3
Isopropanol (IPA)	ND	1.0	ppbv	ND	2.5	ug/m3
Methylene Chloride	ND	0.50	ppbv	ND	1.7	ug/m3
trans-1,2-Dichloroethene	ND	0.20	ppbv	ND	0.79	ug/m3
MTBE	ND	0.20	ppbv	ND	0.72	ug/m3
n-Hexane	ND	0.20	ppbv	ND	0.70	ug/m3
1,1-Dichloroethane	ND	0.20	ppbv	ND	0.81	ug/m3
Vinyl Acetate	ND	1.0	ppbv	ND	3.5	ug/m3
cis-1,2-Dichloroethene	ND	0.20	ppbv	ND	0.79	ug/m3
2-Butanone	ND	1.0	ppbv	ND	2.9	ug/m3
Ethyl Acetate	ND	0.50	ppbv	ND	1.8	ug/m3
Chloroform	ND	0.20	ppbv	ND	0.98	ug/m3
1,1,1-Trichloroethane	ND	0.20	ppbv	ND	1.1	ug/m3
Cyclohexane	ND	0.20	ppbv	ND	0.69	ug/m3
Carbon Tetrachloride	ND	0.20	ppbv	ND	1.3	ug/m3
Benzene	ND	0.20	ppbv	ND	0.64	ug/m3
1,2-Dichloroethane	ND	0.20	ppbv	ND	0.81	ug/m3
n-Heptane	ND	0.20	ppbv	ND	0.82	ug/m3
Trichloroethene	ND	0.20	ppbv	ND	1.1	ug/m3
1,2-Dichloropropane	ND	0.20	ppbv	ND	0.92	ug/m3
Bromodichloromethane	ND	0.20	ppbv	ND	1.3	ug/m3
cis-1,3-Dichloropropene	ND	0.20	ppbv	ND	0.91	ug/m3
4-Methyl-2-Pentanone	ND	0.20	ppbv	ND	0.82	ug/m3
Toluene	ND	0.20	ppbv	ND	0.75	ug/m3
trans-1,3-Dichloropropene	ND	0.20	ppbv	ND	0.91	ug/m3
1,1,2-Trichloroethane	ND	0.20	ppbv	ND	1.1	ug/m3
Tetrachloroethene	ND	0.20	ppbv	ND	1.4	ug/m3
2-Hexanone	ND	0.50	ppbv	ND	2.0	ug/m3
Dibromochloromethane	ND	0.20	ppbv	ND	1.7	ug/m3

Volatile Organics in Air: Batch QC

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,2-Dibromoethane	ND	0.20	ppbv	ND	1.5	ug/m3
Chlorobenzene	ND	0.20	ppbv	ND	0.92	ug/m3
Ethylbenzene	ND	0.50	ppbv	ND	2.2	ug/m3
m,p-Xylenes	ND	0.40	ppbv	ND	1.7	ug/m3
o-Xylene	ND	0.20	ppbv	ND	0.87	ug/m3
Styrene	ND	0.50	ppbv	ND	2.1	ug/m3
Bromoform	ND	0.20	ppbv	ND	2.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.20	ppbv	ND	1.4	ug/m3
4-Ethyltoluene	ND	0.50	ppbv	ND	2.5	ug/m3
1,3,5-Trimethylbenzene	ND	0.20	ppbv	ND	0.98	ug/m3
1,2,4-Trimethylbenzene	ND	0.50	ppbv	ND	2.5	ug/m3
1,3-Dichlorobenzene	ND	0.20	ppbv	ND	1.2	ug/m3
1,4-Dichlorobenzene	ND	0.20	ppbv	ND	1.2	ug/m3
Benzyl chloride	ND	0.50	ppbv	ND	2.6	ug/m3
1,2-Dichlorobenzene	ND	0.20	ppbv	ND	1.2	ug/m3
1,2,4-Trichlorobenzene	ND	1.0	ppbv	ND	7.4	ug/m3
Hexachlorobutadiene	ND	0.20	ppbv	ND	2.1	ug/m3
Naphthalene	ND	1.0	ppbv	ND	5.2	ug/m3
Xylene (total)	ND	0.20	ppbv	ND	0.87	ug/m3

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	98	60-140	ug/m3

Legend

ND:	Not Detected
RL (V):	Reporting Limit
Result (M):	Result in mass units
Result (V):	Result in volume units

Volatile Organics in Air: Batch QC

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID:	ZZZZZZZZZZ	**Diln Fac:**	2.000	**Prep:**	METHOD
Type:	SDUP	**Batch#:**	248515	**Analysis:**	EPA TO-15
MSS Lab ID:	430138-011	**Sampled:**	06/27/20 17:08	**Analyst:**	GVO
Lab ID:	QC874992	**Received:**	06/29/20		
Matrix:	Air	**Analyzed:**	07/01/20 13:28		

Analyte	MSS Result	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)	RPD	Lim
1,4-Dioxane	<0.4000	ND	0.4000	ppbv	ND	1.441	ug/m3	NC	30
Propylene	<0.4000	ND	0.4000	ppbv	ND	0.6884	ug/m3	NC	30
Freon 12	0.4645	**0.4750**	0.4000	ppbv	2.349	1.978	ug/m3	2	30
Freon 114	<0.4000	ND	0.4000	ppbv	ND	2.796	ug/m3	NC	30
Chloromethane	0.6025	**0.6257**	0.4000	ppbv	1.292	0.8260	ug/m3	4	30
Vinyl Chloride	<0.4000	ND	0.4000	ppbv	ND	1.022	ug/m3	NC	30
1,3-Butadiene	<0.4000	ND	0.4000	ppbv	ND	0.8849	ug/m3	NC	30
Bromomethane	<0.4000	ND	0.4000	ppbv	ND	1.553	ug/m3	NC	30
Chloroethane	<0.4000	ND	0.4000	ppbv	ND	1.055	ug/m3	NC	30
Trichlorofluoromethane	<0.4000	ND	0.4000	ppbv	ND	2.247	ug/m3	NC	30
1,1-Dichloroethene	<0.4000	ND	0.4000	ppbv	ND	1.586	ug/m3	NC	30
Freon 113	<0.4000	ND	0.4000	ppbv	ND	3.065	ug/m3	NC	30
Acetone	7.774	**7.774**	4.000	ppbv	18.47	9.502	ug/m3	0	30
Carbon Disulfide	<0.4000	ND	0.4000	ppbv	ND	1.245	ug/m3	NC	30
Isopropanol (IPA)	10.76	**10.57**	2.000	ppbv	25.98	4.916	ug/m3	2	30
Methylene Chloride	<1.000	ND	1.000	ppbv	ND	3.474	ug/m3	NC	30
trans-1,2-Dichloroethene	<0.4000	ND	0.4000	ppbv	ND	1.586	ug/m3	NC	30
MTBE	<0.4000	ND	0.4000	ppbv	ND	1.442	ug/m3	NC	30
n-Hexane	<0.4000	ND	0.4000	ppbv	ND	1.410	ug/m3	NC	30
1,1-Dichloroethane	<0.4000	ND	0.4000	ppbv	ND	1.619	ug/m3	NC	30
Vinyl Acetate	<2.000	ND	2.000	ppbv	ND	7.042	ug/m3	NC	30
cis-1,2-Dichloroethene	<0.4000	ND	0.4000	ppbv	ND	1.586	ug/m3	NC	30
2-Butanone	<2.000	ND	2.000	ppbv	ND	5.898	ug/m3	NC	30
Ethyl Acetate	<1.000	ND	1.000	ppbv	ND	3.604	ug/m3	NC	30
Chloroform	<0.4000	ND	0.4000	ppbv	ND	1.953	ug/m3	NC	30
1,1,1-Trichloroethane	<0.4000	ND	0.4000	ppbv	ND	2.182	ug/m3	NC	30
Cyclohexane	<0.4000	ND	0.4000	ppbv	ND	1.377	ug/m3	NC	30
Carbon Tetrachloride	<0.4000	ND	0.4000	ppbv	ND	2.517	ug/m3	NC	30
Benzene	<0.4000	ND	0.4000	ppbv	ND	1.278	ug/m3	NC	30
1,2-Dichloroethane	<0.4000	ND	0.4000	ppbv	ND	1.619	ug/m3	NC	30
n-Heptane	<0.4000	ND	0.4000	ppbv	ND	1.639	ug/m3	NC	30
Trichloroethene	<0.4000	ND	0.4000	ppbv	ND	2.150	ug/m3	NC	30
1,2-Dichloropropane	<0.4000	ND	0.4000	ppbv	ND	1.848	ug/m3	NC	30
Bromodichloromethane	<0.4000	ND	0.4000	ppbv	ND	2.680	ug/m3	NC	30
cis-1,3-Dichloropropene	<0.4000	ND	0.4000	ppbv	ND	1.815	ug/m3	NC	30
4-Methyl-2-Pentanone	<0.4000	ND	0.4000	ppbv	ND	1.639	ug/m3	NC	30
Toluene	<0.4000	ND	0.4000	ppbv	ND	1.507	ug/m3	NC	30
trans-1,3-Dichloropropene	<0.4000	ND	0.4000	ppbv	ND	1.815	ug/m3	NC	30
1,1,2-Trichloroethane	<0.4000	ND	0.4000	ppbv	ND	2.182	ug/m3	NC	30
Tetrachloroethene	<0.4000	ND	0.4000	ppbv	ND	2.713	ug/m3	NC	30

Volatile Organics in Air: Batch QC

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Analyte	MSS Result	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)	RPD	Lim
2-Hexanone	<1.000	ND	1.000	ppbv	ND	4.097	ug/m3	NC	30
Dibromochloromethane	<0.4000	ND	0.4000	ppbv	ND	3.407	ug/m3	NC	30
1,2-Dibromoethane	<0.4000	ND	0.4000	ppbv	ND	3.073	ug/m3	NC	30
Chlorobenzene	<0.4000	ND	0.4000	ppbv	ND	1.841	ug/m3	NC	30
Ethylbenzene	<1.000	ND	1.000	ppbv	ND	4.342	ug/m3	NC	30
m,p-Xylenes	<0.8000	ND	0.8000	ppbv	ND	3.474	ug/m3	NC	30
o-Xylene	<0.4000	ND	0.4000	ppbv	ND	1.737	ug/m3	NC	30
Styrene	<1.000	ND	1.000	ppbv	ND	4.260	ug/m3	NC	30
Bromoform	<0.4000	ND	0.4000	ppbv	ND	4.135	ug/m3	NC	30
1,1,2,2-Tetrachloroethane	<0.4000	ND	0.4000	ppbv	ND	2.746	ug/m3	NC	30
4-Ethyltoluene	<1.000	ND	1.000	ppbv	ND	4.916	ug/m3	NC	30
1,3,5-Trimethylbenzene	<0.4000	ND	0.4000	ppbv	ND	1.966	ug/m3	NC	30
1,2,4-Trimethylbenzene	<1.000	ND	1.000	ppbv	ND	4.916	ug/m3	NC	30
1,3-Dichlorobenzene	<0.4000	ND	0.4000	ppbv	ND	2.405	ug/m3	NC	30
1,4-Dichlorobenzene	<0.4000	ND	0.4000	ppbv	ND	2.405	ug/m3	NC	30
Benzyl chloride	<1.000	ND	1.000	ppbv	ND	5.177	ug/m3	NC	30
1,2-Dichlorobenzene	<0.4000	ND	0.4000	ppbv	ND	2.405	ug/m3	NC	30
1,2,4-Trichlorobenzene	<2.000	ND	2.000	ppbv	ND	14.84	ug/m3	NC	30
Hexachlorobutadiene	<0.4000	ND	0.4000	ppbv	ND	4.266	ug/m3	NC	30
Naphthalene	<2.000	ND	2.000	ppbv	ND	10.48	ug/m3	NC	30

Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	102	60-140	ug/m3

Legend

NC:	Not Calculated
ND:	Not Detected
RL (V):	Reporting Limit
RPD:	Relative Percent Difference
Result (M):	Result in mass units
Result (V):	Result in volume units

Reformed Gases by GC

Lab #: 429907 **Project#:** 0772
Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID: SG1 **Diln Fac:** 2.000 **Analyzed:** 06/29/20
Type: SAMPLE **Batch#:** 248439 **Prep:** METHOD
Lab ID: 429907-001 **Sampled:** 06/17/20 **Analysis:** ASTM D1946
Matrix: Air **Received:** 06/22/20 **Analyst:** GVO

Analyte	Result	RL	Units
Helium	ND	0.20	mol %
Carbon Dioxide	**6.7**	0.20	mol %
Oxygen	**14**	0.20	mol %
Methane	ND	0.20	mol %

Field ID: SG2 **Diln Fac:** 2.000 **Analyzed:** 06/29/20
Type: SAMPLE **Batch#:** 248439 **Prep:** METHOD
Lab ID: 429907-002 **Sampled:** 06/18/20 **Analysis:** ASTM D1946
Matrix: Air **Received:** 06/22/20 **Analyst:** GVO

Analyte	Result	RL	Units
Helium	ND	0.20	mol %
Carbon Dioxide	**3.6**	0.20	mol %
Oxygen	**18**	0.20	mol %
Methane	ND	0.20	mol %

Field ID: SG3 **Diln Fac:** 2.000 **Analyzed:** 06/29/20
Type: SAMPLE **Batch#:** 248439 **Prep:** METHOD
Lab ID: 429907-003 **Sampled:** 06/17/20 **Analysis:** ASTM D1946
Matrix: Air **Received:** 06/22/20 **Analyst:** GVO

Analyte	Result	RL	Units
Helium	ND	0.20	mol %
Carbon Dioxide	**5.8**	0.20	mol %
Oxygen	**15**	0.20	mol %
Methane	ND	0.20	mol %

Field ID: SG4 **Diln Fac:** 2.000 **Analyzed:** 06/29/20
Type: SAMPLE **Batch#:** 248439 **Prep:** METHOD
Lab ID: 429907-004 **Sampled:** 06/18/20 **Analysis:** ASTM D1946
Matrix: Air **Received:** 06/22/20 **Analyst:** GVO

Analyte	Result	RL	Units
Helium	ND	0.20	mol %
Carbon Dioxide	**5.0**	0.20	mol %
Oxygen	**16**	0.20	mol %
Methane	ND	0.20	mol %

Reformed Gases by GC

Lab #: 429907 **Project#:** 0772
Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID:	SG4-DUP	**Diln Fac:**	2.000	**Analyzed:**	06/29/20
Type:	SAMPLE	**Batch#:**	248439	**Prep:**	METHOD
Lab ID:	429907-005	**Sampled:**	06/18/20	**Analysis:**	ASTM D1946
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO

Analyte	Result	RL	Units
Helium	ND	0.20	mol %
Carbon Dioxide	**5.1**	0.20	mol %
Oxygen	**16**	0.20	mol %
Methane	ND	0.20	mol %

Field ID:	SG5	**Diln Fac:**	2.000	**Analyzed:**	06/29/20
Type:	SAMPLE	**Batch#:**	248439	**Prep:**	METHOD
Lab ID:	429907-006	**Sampled:**	06/18/20	**Analysis:**	ASTM D1946
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO

Analyte	Result	RL	Units
Helium	ND	0.20	mol %
Carbon Dioxide	**1.9**	0.20	mol %
Oxygen	**19**	0.20	mol %
Methane	ND	0.20	mol %

Field ID:	SG6	**Diln Fac:**	2.000	**Analyzed:**	06/29/20
Type:	SAMPLE	**Batch#:**	248439	**Prep:**	METHOD
Lab ID:	429907-007	**Sampled:**	06/18/20	**Analysis:**	ASTM D1946
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO

Analyte	Result	RL	Units
Helium	ND	0.20	mol %
Carbon Dioxide	**13**	0.20	mol %
Oxygen	**9.5**	0.20	mol %
Methane	ND	0.20	mol %

Field ID:	SG6-DUP	**Diln Fac:**	2.000	**Analyzed:**	06/29/20
Type:	SAMPLE	**Batch#:**	248439	**Prep:**	METHOD
Lab ID:	429907-008	**Sampled:**	06/18/20	**Analysis:**	ASTM D1946
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO

Analyte	Result	RL	Units
Helium	ND	0.20	mol %
Carbon Dioxide	**12**	0.20	mol %
Oxygen	**11**	0.20	mol %
Methane	ND	0.20	mol %

Reformed Gases by GC

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID:	SG7	**Diln Fac:**	2.000	**Analyzed:**	06/29/20
Type:	SAMPLE	**Batch#:**	248439	**Prep:**	METHOD
Lab ID:	429907-009	**Sampled:**	06/18/20	**Analysis:**	ASTM D1946
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO

Analyte	Result	RL	Units
Helium	ND	0.20	mol %
Carbon Dioxide	**4.8**	0.20	mol %
Oxygen	**16**	0.20	mol %
Methane	ND	0.20	mol %

Field ID:	SG8	**Diln Fac:**	2.000	**Analyzed:**	06/29/20
Type:	SAMPLE	**Batch#:**	248439	**Prep:**	METHOD
Lab ID:	429907-010	**Sampled:**	06/18/20	**Analysis:**	ASTM D1946
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO

Analyte	Result	RL	Units
Helium	ND	0.20	mol %
Carbon Dioxide	**4.7**	0.20	mol %
Oxygen	**16**	0.20	mol %
Methane	ND	0.20	mol %

Field ID:	SG9	**Diln Fac:**	2.000	**Analyzed:**	06/29/20
Type:	SAMPLE	**Batch#:**	248439	**Prep:**	METHOD
Lab ID:	429907-011	**Sampled:**	06/22/20	**Analysis:**	ASTM D1946
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO

Analyte	Result	RL	Units
Helium	ND	0.20	mol %
Carbon Dioxide	**3.7**	0.20	mol %
Oxygen	**18**	0.20	mol %
Methane	ND	0.20	mol %

Field ID:	SG11	**Diln Fac:**	2.000	**Analyzed:**	06/29/20
Type:	SAMPLE	**Batch#:**	248439	**Prep:**	METHOD
Lab ID:	429907-012	**Sampled:**	06/17/20	**Analysis:**	ASTM D1946
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO

Analyte	Result	RL	Units
Helium	ND	0.20	mol %
Carbon Dioxide	**5.0**	0.20	mol %
Oxygen	**16**	0.20	mol %
Methane	ND	0.20	mol %

Reformed Gases by GC

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID:	SG12	**Diln Fac:**	7.640	**Analyzed:**	06/29/20
Type:	SAMPLE	**Batch#:**	248439	**Prep:**	METHOD
Lab ID:	429907-013	**Sampled:**	06/18/20	**Analysis:**	ASTM D1946
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO

Analyte	Result	RL	Units
Helium	ND	0.76	mol %
Carbon Dioxide	**2.8**	0.76	mol %
Oxygen	**19**	0.76	mol %
Methane	ND	0.76	mol %

Field ID:	SG13	**Diln Fac:**	2.000	**Analyzed:**	06/29/20
Type:	SAMPLE	**Batch#:**	248439	**Prep:**	METHOD
Lab ID:	429907-014	**Sampled:**	06/22/20	**Analysis:**	ASTM D1946
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO

Analyte	Result	RL	Units
Helium	ND	0.20	mol %
Carbon Dioxide	**3.8**	0.20	mol %
Oxygen	**18**	0.20	mol %
Methane	ND	0.20	mol %

Field ID:	SG14	**Diln Fac:**	2.000	**Analyzed:**	06/29/20
Type:	SAMPLE	**Batch#:**	248439	**Prep:**	METHOD
Lab ID:	429907-015	**Sampled:**	06/22/20	**Analysis:**	ASTM D1946
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO

Analyte	Result	RL	Units
Helium	ND	0.20	mol %
Carbon Dioxide	**8.6**	0.20	mol %
Oxygen	**9.8**	0.20	mol %
Methane	ND	0.20	mol %

Field ID:	SG15	**Diln Fac:**	4.000	**Analyzed:**	06/29/20
Type:	SAMPLE	**Batch#:**	248439	**Prep:**	METHOD
Lab ID:	429907-016	**Sampled:**	06/22/20	**Analysis:**	ASTM D1946
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO

Analyte	Result	RL	Units
Helium	ND	0.40	mol %
Carbon Dioxide	**2.6**	0.40	mol %
Oxygen	**18**	0.40	mol %
Methane	ND	0.40	mol %

Reformed Gases by GC

Lab #: 429907 **Project#:** 0772
Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID: SG17 **Diln Fac:** 2.000 **Analyzed:** 06/29/20
Type: SAMPLE **Batch#:** 248439 **Prep:** METHOD
Lab ID: 429907-017 **Sampled:** 06/22/20 **Analysis:** ASTM D1946
Matrix: Air **Received:** 06/22/20 **Analyst:** GVO

Analyte	Result	RL	Units
Helium	ND	0.20	mol %
Carbon Dioxide	**0.88**	0.20	mol %
Oxygen	**17**	0.20	mol %
Methane	ND	0.20	mol %

Field ID: SG18 **Diln Fac:** 2.000 **Analyzed:** 06/29/20
Type: SAMPLE **Batch#:** 248439 **Prep:** METHOD
Lab ID: 429907-018 **Sampled:** 06/17/20 **Analysis:** ASTM D1946
Matrix: Air **Received:** 06/22/20 **Analyst:** GVO

Analyte	Result	RL	Units
Helium	ND	0.20	mol %
Carbon Dioxide	**5.5**	0.20	mol %
Oxygen	**16**	0.20	mol %
Methane	ND	0.20	mol %

Field ID: SG19 **Diln Fac:** 2.000 **Analyzed:** 06/29/20
Type: SAMPLE **Batch#:** 248439 **Prep:** METHOD
Lab ID: 429907-019 **Sampled:** 06/17/20 **Analysis:** ASTM D1946
Matrix: Air **Received:** 06/22/20 **Analyst:** GVO

Analyte	Result	RL	Units
Helium	ND	0.20	mol %
Carbon Dioxide	**4.1**	0.20	mol %
Oxygen	**17**	0.20	mol %
Methane	ND	0.20	mol %

Field ID: SG20 **Diln Fac:** 1.500 **Analyzed:** 06/29/20
Type: SAMPLE **Batch#:** 248439 **Prep:** METHOD
Lab ID: 429907-020 **Sampled:** 06/17/20 **Analysis:** ASTM D1946
Matrix: Air **Received:** 06/22/20 **Analyst:** GVO

Analyte	Result	RL	Units
Helium	ND	0.15	mol %
Carbon Dioxide	**1.7**	0.15	mol %
Oxygen	**19**	0.15	mol %
Methane	ND	0.15	mol %

Reformed Gases by GC

Lab #: 429907 **Project#:** 0772

Client: P&D Environmental **Location:** The Phoenix 801 Pine St. Oakland, Ca

Field ID:	SG21	**Diln Fac:**	2.000	**Analyzed:**	06/29/20
Type:	SAMPLE	**Batch#:**	248439	**Prep:**	METHOD
Lab ID:	429907-021	**Sampled:**	06/22/20	**Analysis:**	ASTM D1946
Matrix:	Air	**Received:**	06/22/20	**Analyst:**	GVO

Analyte	Result	RL	Units
Helium	ND	0.20	mol %
Carbon Dioxide	**4.3**	0.20	mol %
Oxygen	**17**	0.20	mol %
Methane	ND	0.20	mol %

Type:	BLANK	**Diln Fac:**	1.000	**Prep:**	METHOD
Lab ID:	QC874796	**Batch#:**	248439	**Analysis:**	ASTM D1946
Matrix:	Air	**Analyzed:**	06/29/20	**Analyst:**	GVO

Analyte	Result	RL	Units
Helium	ND	0.10	mol %
Carbon Dioxide	ND	0.10	mol %
Oxygen	ND	0.10	mol %
Methane	ND	0.10	mol %

Legend

ND: Not Detected

RL: Reporting Limit

Reformed Gases by GC: Batch QC

Lab #: 429907
Project#: 0772
Client: P&D Environmental
Location: The Phoenix 801 Pine St. Oakland, Ca

Field ID:	SG1	**Diln Fac:**	2.000	**Prep:**	METHOD
Type:	SDUP	**Batch#:**	248439	**Analysis:**	ASTM D1946
MSS Lab ID:	429907-001	**Sampled:**	06/17/20	**Analyst:**	GVO
Lab ID:	QC874797	**Received:**	06/22/20		
Matrix:	Air	**Analyzed:**	06/29/20		

Analyte	MSS Result	Result	RL	Units	RPD	Lim
Helium	<0.2000	<0.2000	0.2000	mol %	NC	20
Carbon Dioxide	6.700	**6.700**	0.2000	mol %	0	20
Oxygen	13.92	**13.90**	0.2000	mol %	0	20
Methane	<0.2000	<0.2000	0.2000	mol %	NC	20

Legend

NC: Not Calculated
RL: Reporting Limit
RPD: Relative Percent Difference

CORRECTIVE ACTION PLAN

County File # RO 0003269

The Phoenix

801 Pine Street

Oakland, CA

Prepared For:

Urban Designs, LLC

1201 Pine St. Suite 151

Oakland, CA 94607

Prepared By:

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Expiration 12/31/21

February 4, 2020

Project # 0772

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1.0 INTRODUCTION

This Corrective Action Plan (CAP) has been prepared by P&D Environmental, Inc. of Oakland, California (P&D) on behalf of Urban Designs, LLC (Owner) for activities associated with the redevelopment of the property identified for this project as The Phoenix at 801 Pine Street in Oakland, California (see ***Figure 1***). The site is bounded on the east by Pine Street, on the north by 9th Street, on the west by the sound barrier wall for the frontage road for Route 880 (The Nimitz Freeway), and on the south by 8th Street. The site is currently covered with concrete. No structures are located on the concrete at the site. The site is divided into four parcels (see ***Figure 2***).

The redevelopment project ("Project") consists of the removal of the existing concrete cover for the entire site and the construction of slab-on-grade multi-story mixed-use residential buildings (see ***Figure 2 and Appendix A***). No underground parking is proposed for development of the Site. This CAP presents proposed corrective actions associated with the Project. The proposed corrective actions include mitigation measures and were developed based on the conditions described in the Site Conceptual Model (SCM) which is included as ***Appendix B***.

Mitigation measures are intended to reduce exposure to workers and occupants at the Site and surrounding area by controlling potential exposure to contaminated environmental media and consist of engineering, institutional, and administrative controls.

Mitigation measures proposed as part of this CAP include the following:

Engineering Controls

1. Vapor Intrusion Mitigation System (VIMS) consisting of a vapor barrier, a vapor collection system with vents, and trench plugs (where necessary).

2. Onsite consolidation and capping in place.

Administrative Controls

3. Site Management Plan

Institutional Controls

4. Land use covenants / Deed restriction

In addition to the proposed corrective actions summarized above, this CAP proposes the following additional activities to (1) evaluate the effectiveness of the proposed corrective actions and (2) evaluate potential exposure risks to off-site receptors.

- Destruction of existing soil gas wells, installation of replacement wells, and monitoring and sampling of the replacement wells.

Offsite contamination will be addressed separately from the proposed corrective actions associated with this CAP.

1.1 Lead Regulatory Oversight Agency for Environmental Site Cleanup

Soil and groundwater at the Site has been impacted from historical onsite land use practices. Alameda County Department of Environmental Health's (ACDEH) Local Oversight Program for Hazardous Materials Releases (LOP) is the lead regulatory oversight agency for the environmental investigation and cleanup actions at the Site under Site Cleanup Program Case (SCP) No. RO0003269.

Following submittal of acceptable documentation of the implementation of corrective actions for development of the Site, ACDEH will document that the Site is suitable for the proposed residential use.

2.0 SUMMARY OF SITE CONCEPTUAL MODEL

This section provides a brief summary of site conditions. A detailed description of the physical setting, contaminant source, distribution, transport mechanisms, exposure pathways and receptors are provided in the SCM in ***Appendix B***.

2.1 Site History

The property is presently a vacant lot that is entirely covered with a concrete slab. The property is presently divided into four parcels (see Figure 2) and is presently scheduled for residential development beginning with development at Parcel 1.

A search of the State Water Resources Control Board's (SWRCB) Geotracker website lists the subject site address as 888 Cedar Street and as an active Leaking Underground Storage Tank (LUST) site. There are no documents associated with the Geotracker case for 888 Cedar Street, except for a directive letter from the Alameda County Department of Environmental Health (ACDEH) dated July 3, 2008 outlining Geotracker upload requirements for the site.

A search of the ACDEH Local Oversight Program's (LOP) website shows various miscellaneous historical documents and correspondence including the following documents:

- Preliminary Endangerment Assessment (PEA) Volume II for 800 Cedar Street dated November 1993 and prepared by On-Site Technologies (OST),
- Underground Storage Tank Closure Report for Cypress "B" Freeway Reconstruction Project - Phoenix 800 Area "T" dated November 27, 1995 and prepared by OGISO Environmental.

Review of the November 1993 PEA shows that On-Site Technologies reported that the site is located along a portion of the then proposed reconstruction of the I-880 Cypress structure by the California Department of Transportation (Caltrans). The original Cypress structure was demolished following its collapse during the Loma Prieta Earthquake in 1989. Additionally, the PEA identifies the following company names and past site activities:

- The Dunn Cracker Co. from approximately 1889 to 1902,
- California Bedding & Upholstery Co. from approximately 1902 to 1912,
- A soap factory from some period of time between 1912 and 1931,
- California Fireworks from approximately 1923 to 1927,
- Independent Iron Works from 1924 to approximately 1960,
- Pine Iron Works from some unknown time until 1990,
- J&A Machine shop from 1985 through at least the date of the PEA,
- Phoenix Iron Works from approximately 1970 through at least the date of the PEA,
- Michael Bondi Metal Design from 1985 through at least the date of the PEA,
- Cypress Auto Parts from 1970 through at least the date of the PEA, and
- Ivan's Auto Body, Unknown Plastic Bag Co., Vennell Steel, and Terminal Manufacturing were located at the subject site at unknown dates and for unknown durations.

A search of the Department of Toxic Substances Control (DTSC) Envirostor website shows that the site is listed as a Voluntary Cleanup site located at 800 Cedar Street and as an Inactive open case as of September 3, 2010. The Envirostor summary page for the site lists only diesel as a potential contaminant of concern and only soil for a potentially impacted media. The Envirostor summary page also states that the site is part of the Cypress Freeway Reconstruction Project as well as having been historically used as an iron works plant that occupied the entire block bounded by Shorey, 9th, Pine, and Cedar (no longer exists) Streets. When the iron works plant went out of business, the building was subdivided into 5 bays and subsequently leased to commercial tenants including machine shops, iron works, auto parts dismantlers, and other manufacturing. The subject site building is reported to have been demolished in July 1995.

Envirostor also references the approval of proposed excavation of 104 cubic yards of soil on January 13, 1998 and the last available activity listed is dated February 27, 2012 and states that sampling activities were complete and that results were expected in 60 days. Among the documents on Envirostor were the following:

- Site Investigation Report for Highway 880, Cypress Reconstruction - Area 4 dated August 28, 1992 and prepared by Geo/Resource Consultants, Inc.,
- Sampling and Analysis Plan Phase II Soil Investigation for 800 Cedar Street dated July 14, 2011 and prepared by Northgate Environmental Management, Inc. (Northgate)

Other documents obtained and reviewed by P&D are as follows:

- Site Investigation Report for 800 Cedar Street dated March 8, 2000 and prepared by IT Corporation,

- Phase II Soil Investigation Report for 800 Cedar Street dated November 9, 2011 and prepared by Northgate,
- Soil Stockpile Sampling Report for 800 Cedar Street dated December 31, 2013 and prepared by Geocon Consultants, Inc.

Historical investigation sample results were summarized by P&D in a December 1, 2017 Soil and Groundwater Management Plan (SGMP) for the site. Soil, groundwater, and soil gas have been impacted at the Site from historical Site use and potentially from off-site sources. Tabulated results of analytical data with figures showing the sample collection locations are provided in Appendix B of P&D's December 1, 2017 SGMP. Appendix A of the SGMP also contains figures that summarize contaminants historically detected at concentrations exceeding San Francisco Bay Regional Water Quality Control Board (SFRWQCB) February 2016 revision 3 Tier 1 screening levels.

P&D's September 5, 2017 Limited Subsurface Investigation Report (document 0772.R1) documents the installation and sampling of soil gas wells SG1 through SG3 and the collection of two groundwater grab samples designated GW1 and GW2 at the site during August 2017. P&D's February 14, 2019 Limited Subsurface Investigation Report documents subsequent delineation of the extent of Volatile Organic Compounds (VOCs) including tetrachloroethene (PCE) and trichloroethene (TCE) in soil, groundwater, and soil gas at the site.

2.2 Geology and Hydrogeology

Review of regional geologic maps from U. S. Geological Survey Professional Paper 943, "Flatland Deposits - Their Geology and Engineering Properties and Their Importance to Comprehensive Planning," by E. J. Helley and K. R. Lajoie, 1979, indicates that the subject site is underlain by Pleistocene beach and dune sand deposits (Merrit Sand) (Qps), which is described as loose well-sorted fine to medium sand. Immediately to the west of the western property boundary the subsurface materials are identified as Bay Mud (Qhbm), which is described as unconsolidated water-saturated dark plastic carbonaceous clay and silty clay.

The subsurface materials encountered in boreholes S1 through S9, GW3 through GW11, and SG4 through SG20 consisted of silty sand and silty clayey sand to the maximum depths explored of 11.5 feet bgs. Geologic cross sections for the site are provided in P&D's March 23, 2018 Limited Subsurface Investigation Work Plan (document 0772.W2).

Groundwater was not encountered during drilling in boreholes S1 through S9 or during hand augering boreholes SG4, SG5, SG8, SG9, and SG15 through SG20. Groundwater was first encountered during hand augering in boreholes GW3, GW4, GW5, GW6, GW7, GW8, GW9, GW10, and GW11 at depths of 9.5, 9.5, 9.5, 11.0, 8.5, 9.0, 9.0, 9.0, and 9.0 feet bgs, respectively. Groundwater was not encountered during hand augering in soil gas well boreholes SG4, SG5, and SG8 through SG14, and was encountered during hand augering in soil gas well boreholes SG6, SG6A, and SG7 at depths of 6.7, 5.0, and 6.8 feet bgs, respectively. The shallowest depth at which groundwater was subsequently encountered in boreholes GW3, GW4, GW5, GW6, GW7, GW8, GW9, GW10, and GW11 was at depths of 6.3, 7.0, 6.7, 6.9, 6.8, 6.8, 6.9, 9.0, and 9.4 feet bgs, respectively. The shallowest depth at which groundwater was subsequently encountered in soil gas well boreholes SG4, SG5, SG6, SG6A (no soil gas well was constructed in borehole SG6A), SG7, SG8 and SG9 was 5.5, 5.4, 5.9, 5.7, 5.6, 6.1 and 6.1 feet bgs, respectively.

The ground surface elevation at the site is approximately 11 feet above sea level. The San Francisco Bay is located approximately 3,800 feet to the north and approximately 5,500 feet to the west of the subject site, and the Oakland Inner Harbor which is connected to the San Francisco Bay is located approximately 5,500 feet to the south of the subject site. Based on site vicinity topography and the proximity of surface water bodies the groundwater flow direction at the site is presumed to be westerly towards the San Francisco Bay.

2.3 Chemicals of Potential Concern and Contaminant Distribution

Chemicals of Potential Concern (COPCs) detected at the Site include lead in surface soil and fill; petroleum hydrocarbons in soil, groundwater, and soil gas; chlorinated solvents in groundwater; and the chlorinated solvents tetrachloroethene (PCE) and trichloroethene (TCE) in soil gas.

Sample results associated with historical investigation of the site are summarized in ***Tables 1 through 3B of the SCM in Appendix B***, and the collection locations for the samples summarized in the tables are provided in ***Figures 6 through 12 of the SCM***. The distribution of metals, petroleum, and PCE in soil and groundwater at the site, and the distribution of PCE in soil gas at the Site are shown in ***6 through 12 of Appendix B of the SCM***.

2.4 Contaminant Fate and Transport

The COPCs can be grouped into three families as follows:

- Metals
- Petroleum Hydrocarbons
- Non-Petroleum Volatile Organic Compounds

Metals are not volatile and do not naturally degrade or attenuate. Metals can be transported in air attached to dust. Metals are soluble and can be transported in groundwater.

Petroleum hydrocarbons and the non-petroleum Volatile Organic Compounds (VOCs) are volatile, soluble, and will degrade or attenuate in the subsurface with appropriate conditions for degradation. Petroleum hydrocarbons will degrade with or without oxygen in the subsurface, but will degrade more quickly with greater amounts of oxygen in the subsurface. Non-petroleum VOCs will degrade in the subsurface with the appropriate conditions for degradation if the proper types of bacteria are present. The detected presence of PCE decomposition products at the Site indicates that the appropriate conditions and bacteria are present for subsurface PCE degradation.

Compounds that are volatile can move as vapors in soil gas. Because the petroleum hydrocarbons and the non-petroleum VOCs are soluble, they can also move in groundwater.

2.5 Receptors and Exposure Pathways

The receptors associated with the Project include the following:

- Onsite construction workers.
- Onsite post-construction site occupants and visitors.
- Neighbors.

Exposure pathways include the following:

- Inhalation of airborne dust and vapors during construction.
- Direct exposure to soil or groundwater during construction.
- Ingestion of soil or groundwater during construction.
- Post-construction inhalation of vapors resulting from vapor intrusion.
- Inhalation of vapors resulting from vapor intrusion migrating along preferential pathways.

During construction, exposure to metals may occur at the Site from direct exposure to lead in soil or at the Site or surrounding locations from inhalation of lead or cadmium in dust. Following the completion of construction and implementation of the proposed corrective actions there will be no complete pathways for exposure to metals.

During construction, exposure to petroleum hydrocarbons and non-petroleum VOCs may occur at the Site from direct exposure to these COPCs in soil at the Site or at surrounding locations from inhalation of these COPCs. Following the completion of construction and implementation of the proposed corrective actions there will be no complete pathways for exposure to these COPCs at the Site or at nearby locations other than from potential vapor intrusion.

3.0 PROPOSED CLEANUP GOALS

Cleanup goals for the proposed corrective actions are as follows:

3.1 Soil

Soil cleanup goals for COPCs detected in onsite soil are to remove or consolidate and encapsulate soil with COPC concentrations exceeding SFRWQCB July 2019 (revision 2) Table S-1 Soil Direct Exposure Human Health Risk Screening Levels for residential land use. The proposed corrective actions will eliminate exposure to COPCs in soil by capping the Site and subsequently implementing the post-construction Site Management Plan (SMP) administrative controls and institutional controls.

3.2 Groundwater

There are no cleanup goals for COPCs in onsite groundwater for the proposed corrective actions because exposure to COPCs in groundwater will be removed by capping the site and subsequent implementation of the post-construction SMP administrative and institutional controls.

3.3 Soil Gas

Post-construction exposure to COPCs in soil gas will be controlled by implementation of engineering and administrative controls. Soil gas cleanup goals will be assumed to have been achieved if (1) post-construction indoor air quality at the Site meets or exceeds the SFRWQCB July 2019 2016 (revision 2) Tier I Environmental Screening Levels (ESLs) for indoor air and (2) the migration of on-Site soil vapor is sufficiently controlled so as not to represent an unacceptable risk to indoor air quality at off-site locations.

4.0 PROPOSED CORRECTIVE ACTIONS

Detailed methods for implementation of proposed corrective actions identified in the CAP will be provided in a Corrective Action Implementation Plan (CAIP) for ACDEH review and approval prior to implementation of the CAP.

The proposed corrective actions are identified as follows.

4.1 Preliminary Activities

Prior to the implementation of the corrective actions identified in the CAP, preliminary activities that will be performed will include but not be limited to the following:

- Preparation and submittal for ACDEH review and approval of a construction Soil and Groundwater Management Plan (SGMP) as part of the CAIP.
- Preparation and submittal for ACDEH review and approval of a construction Demolition Plan for existing structures at the site as part of the CAIP.
- Preparation of a site-specific Health and Safety Plan (HASP).
- Obtain any necessary permits.
- Provide notifications to any permitting or regulatory agencies that require notification.
- Contractor pre-construction meetings to define contractor work scope and coordinate contractor schedule with inspectors, regulators, and other onsite contractors.

4.2 Mitigation Measures

The proposed remedial measures consist of excavation and on-Site consolidation of lead-impacted soil. Soil will be managed in accordance with the construction SGMP. The depth of removal for onsite consolidation of lead-impacted soil will be from the bottom of the existing concrete cover at the site to the bottom of the lead-impacted soil layer, which is approximately one to two feet thick.

Prior to implementation of remedial measures, a CAIP that includes detailed dimensions and drawings will be provided to the ACDEH for review and approval. Soil will be managed in accordance with the construction SGMP.

4.2.1 General Excavation Procedures

It is anticipated that excavation activities will be conducted using conventional earthmoving equipment (e.g., track- or tire-mounted excavators and scrapers), however, equipment selection and the means to implement the soil excavation will be at the discretion of the selected excavation contractor. All excavation and earth-work conducted as part of implementation of corrective actions or as part of the Project will be conducted in accordance with the requirements of the SGMP. The SGMP includes procedures and protocols to control and limit potential on-site and off-site exposure to contaminated environmental media during excavation and earth-moving activities. These exposure-limiting protocols include (1) procedures for handling, staging, and disposal of contaminated soil and groundwater; (2) dust and odor control and suppression measures; (3) air and dust monitoring requirements; and (4) storm water management policies.

The SGMP will also contain contingency measures in the event that unexpected conditions are encountered during excavation or earthmoving activities

4.2.2 Verification Sampling

Post-excavation confirmation soil samples will be collected from the bottom of the excavated area for the lead-impacted soil excavation area in accordance with a Sampling and Analysis Plan (SAP) that will be an attachment to the CAIP. The soil samples will be collected to document post-excavation lead soil concentrations and to verify that removal of lead-impacted soil has occurred. Groundwater encountered in the soil excavation areas will be managed in accordance with procedures identified in the SGMP. The SAP will include Standard Operating Procedures (SOPs) for collection of soil and groundwater samples during implementation of the proposed remedial corrective actions.

4.2.3 Over-Excavation Sampling

Additional lead-impacted soil excavation will be performed at locations where post-excavation confirmation soil samples indicate that cleanup goals have not been met. The area of impacted soil excavations will be expanded until subsequent verification sampling confirms that cleanup goals are met or until further excavation is no longer practicable.

4.2.4 Soil and Groundwater Transportation and Disposal

Procedures for transportation and disposal of any soil or groundwater that are removed from the site will be included in the SGMP and referenced in the CAIP. The waste management procedures will include but not be limited to the following:

- Stockpiled soil management.

- Procedures for minimizing the spread of contaminated soil during remedial solution implementation.
- Groundwater containerization methods.
- Decontamination procedures.
- Transportation plan.
- Recording dates and weights or volumes of waste disposed of.
- Assembling and summarizing documentation of waste disposal such as manifests or flow meter totalizer logs.

4.2.5 Excavation Backfill and Soil Import

Following the completion of excavation of lead-impacted soil the excavated area will be backfilled and compacted using material that satisfies the requirements for imported material identified in a construction a Soil Import Management Plan (SIMP). The SIMP will be included as an element of the CAIP for evaluation of imported fill.

Elements of the SIMP will include but not be limited to the following:

- Sample collection frequency.
- Composite or discrete sample analysis.
- Sample analytical methods.
- Soil acceptance criteria.
- Documentation of the acceptability of soil for import to the Site.

Procedures for use of any soil from the Site that is used for backfilling the impacted areas of excavation will be identified in the SGMP.

Procedures for mitigating the spread of contaminated soil associated with trucks bringing clean fill to the site will be addressed in the SGMP.

Prior to initiation of foundation construction for the Project, the following document will be submitted for ACDEH review and approval:

1) Remedial Action Implementation Report (including imported soil acceptability documentation).

4.3 Engineering Controls

Engineering controls will consist of the installation of a Vapor Intrusion Mitigation System (VIMS) in conjunction with onsite consolidation of lead-impacted soil and capping of the site. Each of these is discussed below.

4.3.1 Vapor Intrusion Mitigation System

A VIMS will be designed to mitigate potential vapor intrusion and associated potential inhalation exposure. The Vapor Mitigation Engineering Controls (VMECs) will consist of a vapor barrier, a vapor collection system with a passive vent system that includes vents that extend to the roof and that can be converted to an active system in the future if necessary (see ***Figure 2***), and trench plugs to prevent preferential vapor migration in utility trenches. The VIMS will include subslab vapor sampling points, and the VIMS design will include placement of the vapor barrier beneath inhabited first floor structures, elevator pits, and first floor storage and utility rooms. A vapor recovery system will be placed beneath portions of the proposed site improvements where the vapor barrier is not installed (see ***Figure 2***). Sample specifications and drawings of the vapor barrier materials are provided in ***Appendix C***.

The locations of underground utilities for the Project have not yet been identified. Trench plugs will be installed at the time of site development in utility trenches at the Project property boundary or where potential utility trench vapor intrusion concerns are identified to mitigate potential preferential vapor intrusion along utilities in utility trenches.

Engineering design and supporting engineering calculations for each of the elements of the VIMS will be provided as an element of the VMEC Basis of Design Report, Plan & Specifications which will be an element of the CAIP or will be provided to the ACDEH for review and approval under separate cover. The VMEC Basis of Design Report will include a Construction Quality Assurance Quality Control (CQA/QC) plan that will contain elements that will include but not be limited to the following:

- Procedures used for verification of VMEC construction in accordance with the VMEC design.
- Dates of inspections and documentation of testing performed.
- Results of inspections and testing.

Prior to initiation of foundation construction for the Project, the following documents will be submitted to the ACDEH for review and approval:

1) VMEC Basis of Design Report, Plans, & Specifications (including CQA/QC plan).
2) VMEC Record Report of Construction and Performance Evaluation.

After installation of the VIMS, but before occupancy of the site, the following document will be prepared and submitted to ACDEH for review and approval.

3) VIMS Operations and Maintenance Plan.

The elements in the VIMS Operations and Maintenance Plan will include but not be limited to the following:

- VIMS monitoring procedures.
- VIMS monitoring frequency.
- Analysis to be performed for performance evaluation samples.
- Criteria for amendments to the VIMS based on the performance monitoring results.
- Record keeping and reporting requirements.

4.3.2 Onsite Consolidation and Capping In Place

Following the completion of lead-impacted soil excavation, on-Site consolidation of lead-impacted soil, excavated area backfilling, and installation of the VIMS, the area of onsite consolidation of lead-impacted soil will be capped with the roadway and parking area surface cover to mitigate exposure to subsurface lead at the Site.

Direct exposure to lead will be controlled by installation of the hardscape roadway and parking area surface cover cap at the Site. Non-biodegradable woven geotextile fabric will be placed below, around, and above soil that is consolidated onsite as an excavation marker. Procedures associated with work below the excavation marker will be identified in the SMP.

The proposed locations of consolidated soils and hardscape will be described in the CAIP. Implementation of proposed remedial actions will not be conducted prior to ACDEH's review and approval of the CAIP.

4.4 Administrative Controls

Prior to occupancy of the Site, a SMP will be developed and submitted to ACDEH for review and approval. The SMP will be implemented as an administrative control. The elements of the SMP will include but not be limited to the following:

- Procedures for penetrating and repairing the vapor barrier.
- Procedures for excavation beneath the vapor barrier or the consolidated soil marker woven geotextile fabric.
- Procedures and frequency for vapor monitoring associated with the VIMS.
- Criteria for changing the VIMS from a passive system to an active system.
- Record keeping and reporting requirements associated with administration of the SMP.

4.5 Institutional Controls

Land use covenants will be summarized in a deed restriction document that will be prepared for review and approval by the ACDEH. The land use covenants will identify land use restrictions based on Site conditions identified in a Remedial Action Implementation Report documenting implementation of the CAP, and will provide conditions that will be required to be satisfied for future amendment of the land use restrictions. Upon approval of the land use restriction document by the ACDEH the land use restriction document will be recorded at the County

Recorder's Office and copies of the recorded document along with documentation of the recordation will be provided to the ACDEH.
Prior to occupancy, the following documents will be submitted for ACDEH review and approval:

1) Record Report of Construction for Hardscape Cap
2) VMEC Operations and Maintenance Plan
3) SMP, including documentation of Institutional Controls

4.6 Additional CAP-Related Activities

The following additional CAP-related activities are proposed to (1) evaluate the effectiveness of the proposed corrective actions and (2) evaluate potential exposure risks to off-site receptors:

4.6.1 Destruction of Existing Wells and Installation of Replacement Wells

All of the existing groundwater monitoring wells and soil gas wells at the Site will be destroyed and replacement groundwater monitoring wells and soil gas wells will be installed in accordance with Alameda County Public Works Agency (ACPWA) requirements. A work plan identifying proposed replacement well locations will be provided to the ACDEH for review and approval prior to destruction and replacement of the existing soil gas wells.

5.0 PERFORMANCE EVALUATION AND OFFSITE EXPOSURE EVALUATION

The performance of remediation and mitigation measures will be evaluated as they relate to (1) closure of exposure pathways identified in the SCM and (2) cleanup goals. Monitoring and results evaluation will be performed as follows:

5.1 Dust and Vapors During Construction

Perimeter monitoring and monitoring of onsite personnel with instruments and sample collection for quantitative analysis will be performed for dust and vapors in accordance with the construction SGMP and the site-specific HASP for Site development. In addition, visual monitoring for dust will be performed.

Monitoring results exceedance criteria will be identified in the SGMP and site-specific HASP, and monitoring results exceedances will be addressed in accordance with procedures set forth in the SGMP and the site-specific HASP.

5.2 Groundwater Monitoring Evaluation Criteria

Groundwater monitoring well groundwater sample results from any groundwater monitoring wells will be compared with SFRWQCB July 2019 (revision 2) Table GW-3 Groundwater Vapor Intrusion Screening Levels for groundwater for residential land use.

Sample results exceeding screening levels for locations where a VIMS is not present will be further evaluated for evidence of potential vapor intrusion concerns.

5.3 Indoor Air and Vapor Verification Sampling

Post-construction indoor air and subsurface vapor monitoring will be performed in accordance with the post-construction SMP. Exceedance of monitoring criteria set forth in the SMP may include but not be limited to verification re-sampling or conversion of the passive vent system to an active vent system with subsequent confirmation sampling to ensure that the mitigation solution was effective.

6.0 PUBLIC NOTIFICATION

A Public Notice (fact sheet) describing the proposed corrective actions will be prepared and submitted for review and approval to the ACDEH. Upon approval by the ACDEH, the Public Notice will be distributed to the surrounding community within a 300-foot radius of the property (see ***Figure 1***) for a 30-day public comment period.

7.0 REPORTING

A project construction and reporting schedule will be submitted to ACDEH for review and approval and an updated schedule will be submitted as appropriate.

Prior to initiation of construction activities, the following documents will be submitted for ACDEH review and approval:

1) Corrective Action Implementation Plan (including a SGMP, SAP and SIMP)
2) HASP

Prior to initiation of foundation work, the following documents will be submitted for ACDEH review and approval:

1) Remedial Action Implementation Report (including soil import documentation)
2) VMEC Basis of Design Report, Plans, & Specifications (including CQA/QC plan)
3) VMEC Record Report of Construction and Performance Evaluation

Prior to occupancy, the following documents will be submitted for ACDEH review and approval:

1) Record Report of Construction for Hardscape Cap
2) VMEC Operations and Maintenance Plan
3) SMP, including documentation of Institutional Controls

Post occupancy, routine Operations and Maintenance Reports for the engineering controls, 5-year evaluations for the engineering controls, and as-needed updates to the SMP will be issued to ACDEH for review and approval as required in the SMP.

FIGURES

Figure 1
Site Vicinity Aerial Photograph
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

Figure 2
Site Map Showing Proposed First Floor Structure, Footprints, and Vapor Barrier/Vapor Vent System Locations
The Phoenix
801 Pine Street
Oakland, California

Base Map from:
Lea & Braze Engineering, Inc., Tentative Parcel Map 10835, 1/5/2018

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 50 100
Approximate Scale in Feet

N

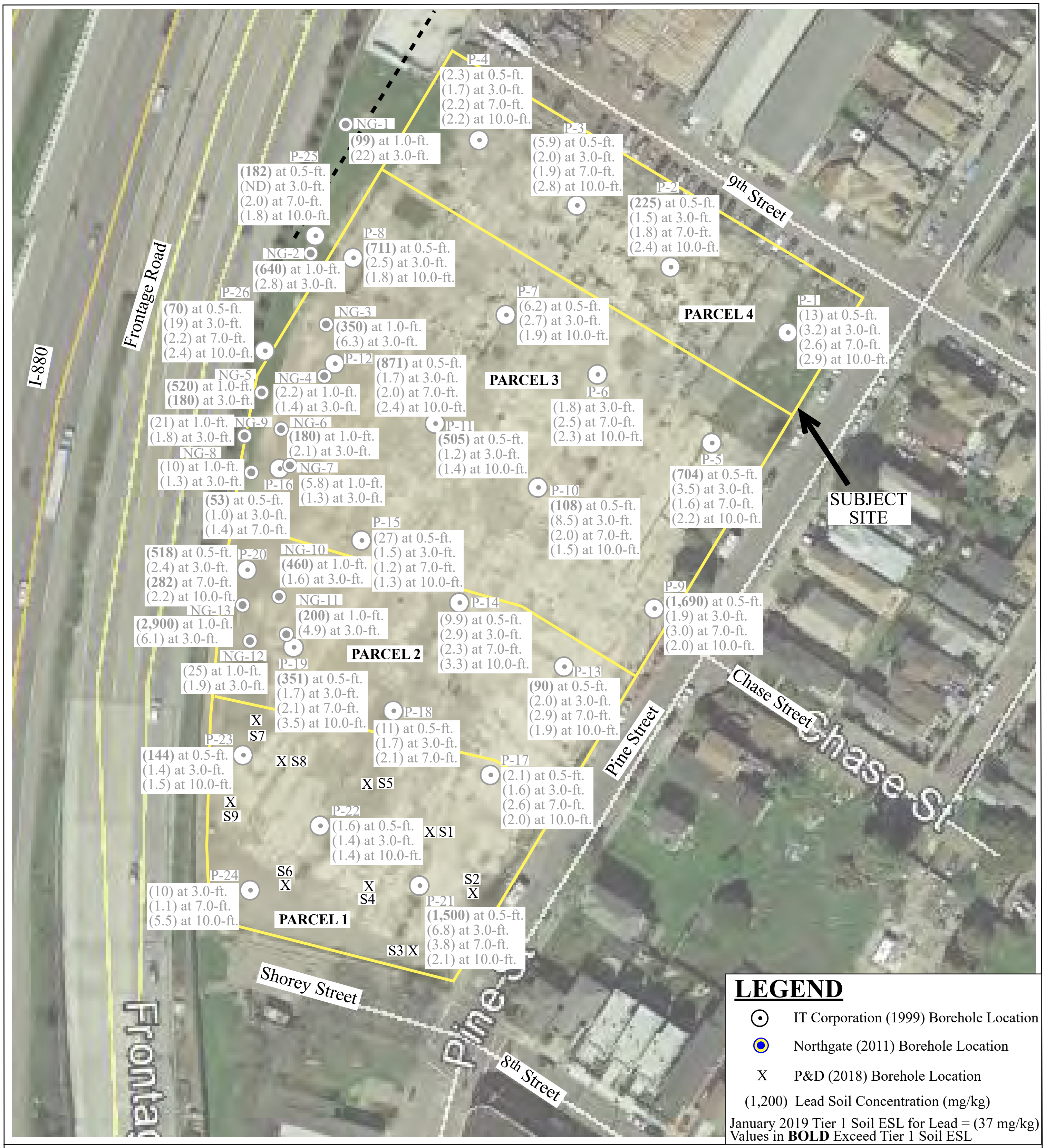


Figure 3
Site Aerial Photograph Showing Lead Concentrations In Historical Soil Samples
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 50 100
Approximate Scale in Feet

N

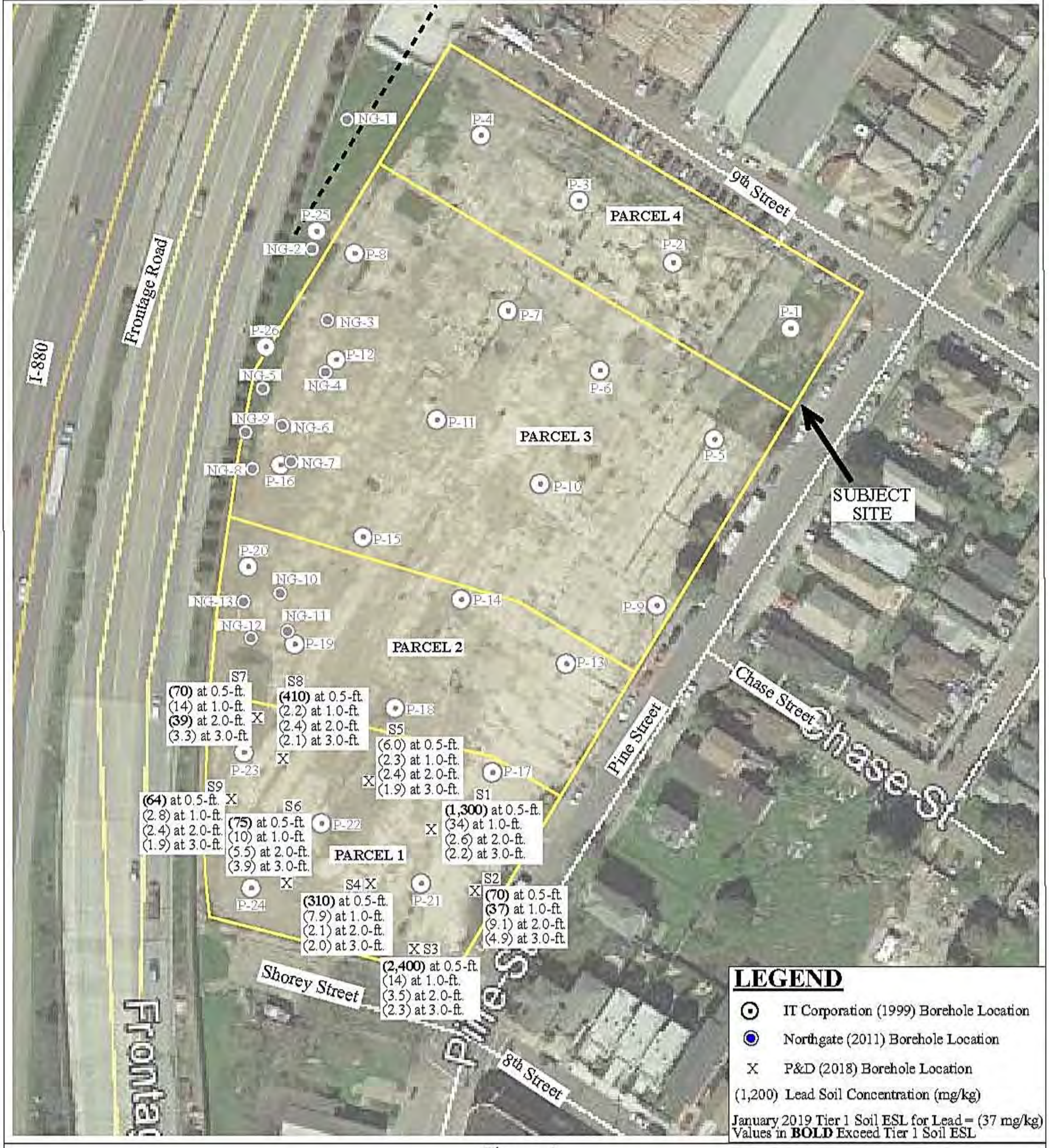


Figure 4
Site Aerial Photograph Showing Lead Concentrations In Most Recent Investigation Soil Samples
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

Figure 5

Site Map Showing Proposed First Floor Structure, Footprints, and Vapor Barrier/Vapor Vent System Locations, and PCE Soil Gas Isoconcentration Contours

The Phoenix
801 Pine Street
Oakland, California

Base Map from:
Lea & Braze Engineering, Inc., Tentative Parcel Map 10835, 1/5/2018

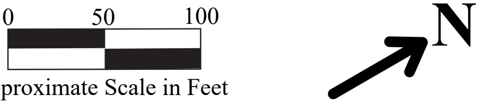
P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

Approximate Scale in Feet

Figure 6
Site Map Showing Proposed First Floor Structure, Footprints, and Vapor Barrier/Vapor Vent System Locations, and TCE Soil Gas Isoconcentration Contours
The Phoenix
801 Pine Street
Oakland, California

Base Map from:
Lea & Braze Engineering, Inc., Tentative Parcel Map
10835, 1/5/2018

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610



APPENDIX A

Selected Plan Set Drawings

- **Reference (5 pp)**
- **Civil (18 pp)**
- **Selected Structural**
  - **S1.00**
  - **S1.01**
  - **S2.01**
  - **S4.01**
  - **S4.02**
  - **S6.01**
  - **S6.03**
  - **S6.05**

SURVEYOR'S NOTES

THIS SURVEY WAS MADE ON THE GROUND AND CORRECTLY SHOWS THE AREA OF THE SUBJECT PROPERTY, THE LOCATION AND TYPE OF ALL BUILDINGS, STRUCTURES AND OTHER IMPROVEMENTS SITUATED ON THE SUBJECT PROPERTY.

EXCEPT AS SHOWN ON THIS SURVEY, THERE ARE NO VISIBLE OR RECORDED EASEMENTS OR RIGHTS-OF-WAY ACROSS THE SUBJECT PROPERTY OF WHICH THE UNDERSIGNED HAS BEEN ADVISED.

EXCEPT AS SHOWN ON THE SURVEY, THERE ARE NO ENCROACHMENTS ONTO ADJOINING PREMISES, STREETS, OR ALLEYS BY ANY BUILDING, STRUCTURES OR OTHER IMPROVEMENTS AT THE SUBJECT PROPERTY, AND NO ENCROACHMENTS ONTO THE SUBJECT PROPERTY BY BUILDINGS, STRUCTURES OR OTHER IMPROVEMENTS SITUATED ON ADJOINING PREMISES.

THE LOCATION OF EACH EASEMENT, RIGHT-OF-WAY, SERVITUDE OR OTHER MATTER AFFECTING THE SUBJECT PROPERTY AND LISTED IN THE PRELIMINARY TITLE REPORT UPDATE "C" ISSUED BY CHICAGO TITLE COMPANY, ORDER NUMBER 58209977-582-LE-DP, DATED AS OF MARCH 14, 2019 WITH RESPECT TO THE SUBJECT PROPERTY, HAS BEEN SHOWN ON THIS SURVEY, TOGETHER WITH APPROPRIATE RECORDING REFERENCES, TO THE EXTENT SUCH MATTERS CAN BE LOCATED. THE PROPERTY SHOWN ON THIS SURVEY IS THE SAME AS THE PROPERTY DESCRIBED IN THE TITLE REPORT.

LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF OAKLAND, IN THE COUNTY OF ALAMEDA, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

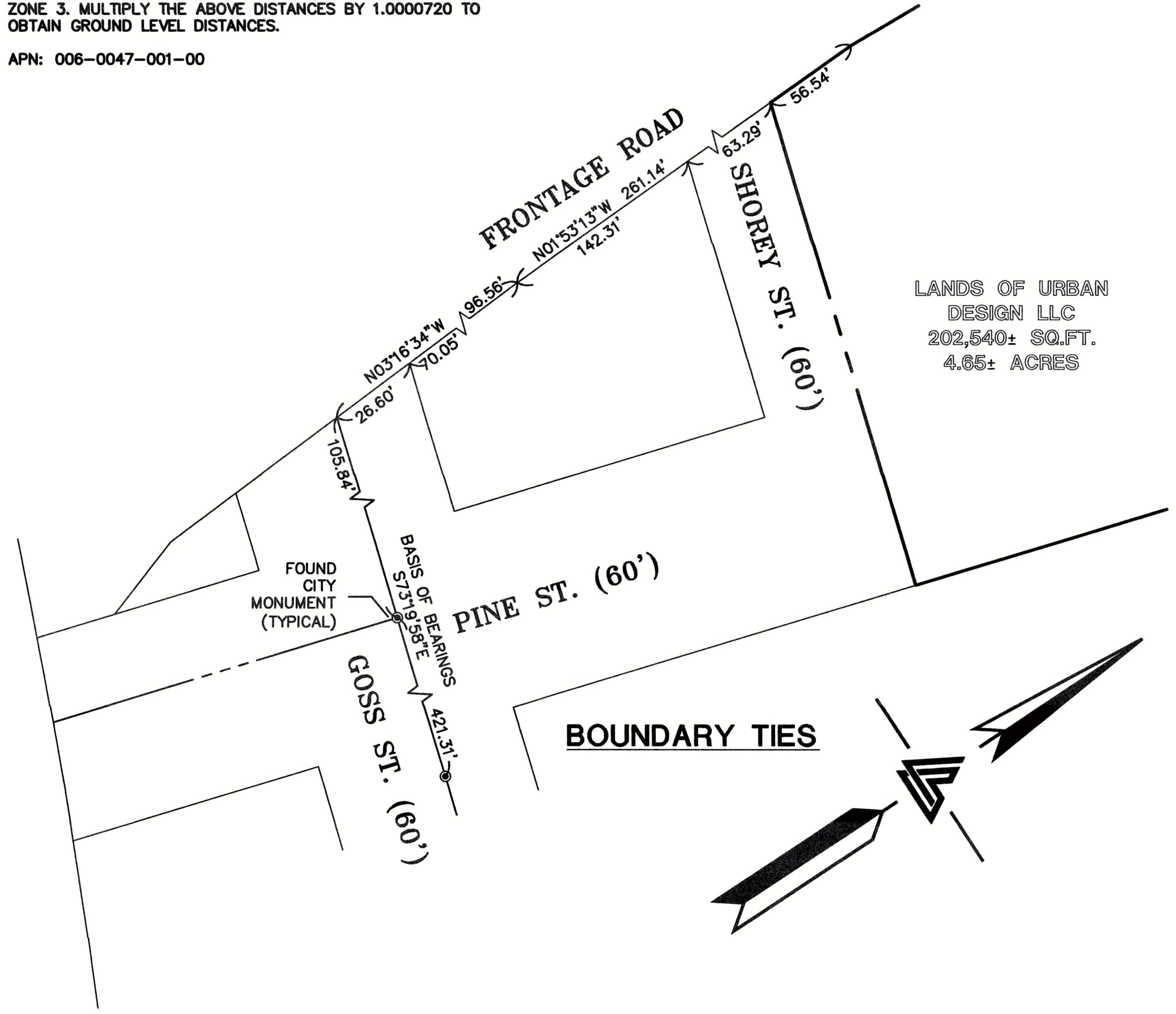
A PORTION OF THAT CERTAIN PARCEL OF LAND DESCRIBED IN "PARCEL 2 (50106-1)" OF THAT FINAL ORDER OF CONDEMNATION NO. 731654-0, RECORDED OCTOBER 10, 1997, UNDER SERIAL NO. 97266530, OFFICIAL RECORDS OF ALAMEDA COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE SOUTHEASTERLY LINE OF CEDAR STREET WITH THE SOUTHWESTERLY LINE OF 9TH STREET, DESCRIBED IN SAID PARCEL 2 (50106-1); THENCE SOUTHEASTERLY ALONG SAID LINE OF 9TH STREET S. 56° 32' 27" E., 361.97 FEET TO THE NORTHWESTERLY LINE OF PINE STREET; THENCE SOUTHWESTERLY ALONG SAID LINE OF PINE STREET S. 33° 26' 33" W., 602.77 FEET TO THE NORTHEASTERLY LINE OF SHOREY STREET; THENCE NORTHWESTERLY ALONG SAID LINE OF SHOREY STREET N. 73° 20' 49" W., 186.51 FEET; THENCE N. 01° 53' 13" W., 57.65 FEET; THENCE ALONG A TANGENT CURVE TO THE RIGHT WITH A RADIUS OF 1788.00 FEET, THROUGH AN ANGLE OF 11° 28' 37", AN ARC LENGTH OF 358.16 FEET TO THE SOUTHEASTERLY LINE OF CEDAR STREET; THENCE ALONG SAID LINE OF CEDAR STREET N. 33° 26' 33" E., 285.07 FEET TO THE POINT OF BEGINNING.

THERE SHALL BE NO ABUTTER'S RIGHTS OF ACCESS APPURTENANT TO THE ABOVE DESCRIBED REAL PROPERTY IN AND TO THE ADJACENT STATE FREEWAY.

THE BEARINGS AND DISTANCES USED IN THE ABOVE DESCRIPTION ARE ON THE CALIFORNIA COORDINATE SYSTEM, ZONE 3. MULTIPLY THE ABOVE DISTANCES BY 1.0000720 TO OBTAIN GROUND LEVEL DISTANCES.

APN: 006-0047-001-00



BOUNDARY TIES

NOTES

NO WARRANTY IS GIVEN OR IMPLIED BY THE SURVEYOR OF THIS MAP. THIS MAP WAS CREATED BY THE SURVEYOR FOR THE EXCLUSIVE USE FOR THE CLIENT OF CONTRACT AND THE CITY OF OAKLAND FOR PERMITTING PURPOSES. ANY OTHER USE OF THIS INFORMATION IS AT THE SOLE RESPONSIBILITY OF ITS USER.

THERE ARE NO EXISTING OR PROPOSED DRIVEWAYS

PUBLIC ADVISORY

THIS MAP IS BASED ON PRIVATE SURVEYS PERFORMED BY LICENSED PROFESSIONALS AND WILL NOT BE UPDATED OR CORRECTED BY THE CITY OF OAKLAND AFTER ITS FILING. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE BY THE CITY OF OAKLAND THAT THIS MAP AND THE SURVEY INFORMATION ON WHICH IT IS BASED IS CORRECT, ACCURATE, AND CURRENT, NOR THAT THE CITY WILL RETAIN FOR PUBLIC INSPECTION ANY RELATED INFORMATION WHICH MAY BE SUBSEQUENTLY SUBMITTED TO THE CITY, INCLUDING ALLEGED OR ACTUAL DISCREPANCIES, INACCURACIES, DEFICIENCIES, AND ERRORS.

BASIS OF SURVEY

THIS SURVEY IS BASED ON LINES AND DIMENSIONS AND FOUND MONUMENTS SHOWN ON THAT CERTAIN RECORD OF SURVEY R/S 1687, FILED IN BOOK 25 OF RECORDS OF SURVEY, AT PAGES 58-69, ALAMEDA COUNTY RECORDS AND THE LEGAL DESCRIPTION IN GRANT DEED DOCUMENT 2019090488, RECORDED MAY 16, 2019, OFFICIAL RECORDS OF ALAMEDA COUNTY.

SURVEYOR'S STATEMENT

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION AT THE REQUEST OF VIRGINIA HAMILTON AT OAKLAND ROSE FOUR, LLC.

I HEREBY STATE THAT ALL EXISTING GRADES UPON THIS PLAT ARE BASED UPON CITY OF OAKLAND DATUM.

I HEREBY FURTHER STATE THAT TO THE BEST OF MY KNOWLEDGE ALL PROVISIONS OF APPLICABLE STATE LAWS AND LOCAL ORDINANCES HAVE BEEN COMPLIED WITH.

I HEREBY FURTHER STATE THAT THE PARCEL DESIGNATED BY MY SURVEY AND SHOWN ON THIS MAP IS THE SAME AS DESCRIBED IN THAT GRANT DEED RECORDED DECEMBER 24, 2014, IN DOCUMENT NO. 2014313804, OFFICIAL RECORDS OF ALAMEDA COUNTY.

I FURTHER STATE THAT IN ACCORDANCE WITH THE PROFESSIONAL LAND SURVEYORS ACT THE PERFORMANCE OF THIS SURVEY DOES NOT REQUIRE A CORNER RECORD OR RECORD OF SURVEY TO BE FILED.

I HEREBY ACKNOWLEDGE THAT THIS SURVEY SHALL BE A PUBLIC RECORD AND MAY BE AVAILABLE FOR INSPECTION AND DISTRIBUTION TO THE GENERAL PUBLIC.

MICHAEL W. THOMPSON, PLS 9023

11-11-19
DATE

MICHAEL W. THOMPSON
No. 9023

LEA & BRAZE ENGINEERING, INC.
CIVIL ENGINEERS · LAND SURVEYORS

BAY AREA REGION
2495 INDUSTRIAL PKWY WEST
HAYWARD, CALIFORNIA 94545
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(F) (510) 887-3019

SACRAMENTO REGION
3017 DOUGLAS BLVD, # 300
ROSEVILLE, CA 95661
(P) (916)966-1338
(F) (916)797-7363

WWW.LEABRAZE.COM

800 CEDAR STREEET
OAKLAND, CALIFORNIA

ALAMEDA COUNTY
APN: 006-0047-001

BOUNDARY AND
TOPOGRAPHIC SURVEY

REVISIONS	BY
TOPO CONVERSION 11-11-19	DB

JOB NO:	2171135
DATE:	11-3-17
SCALE:	N/A
FIELD BY:	EH
DRAWN BY:	JN

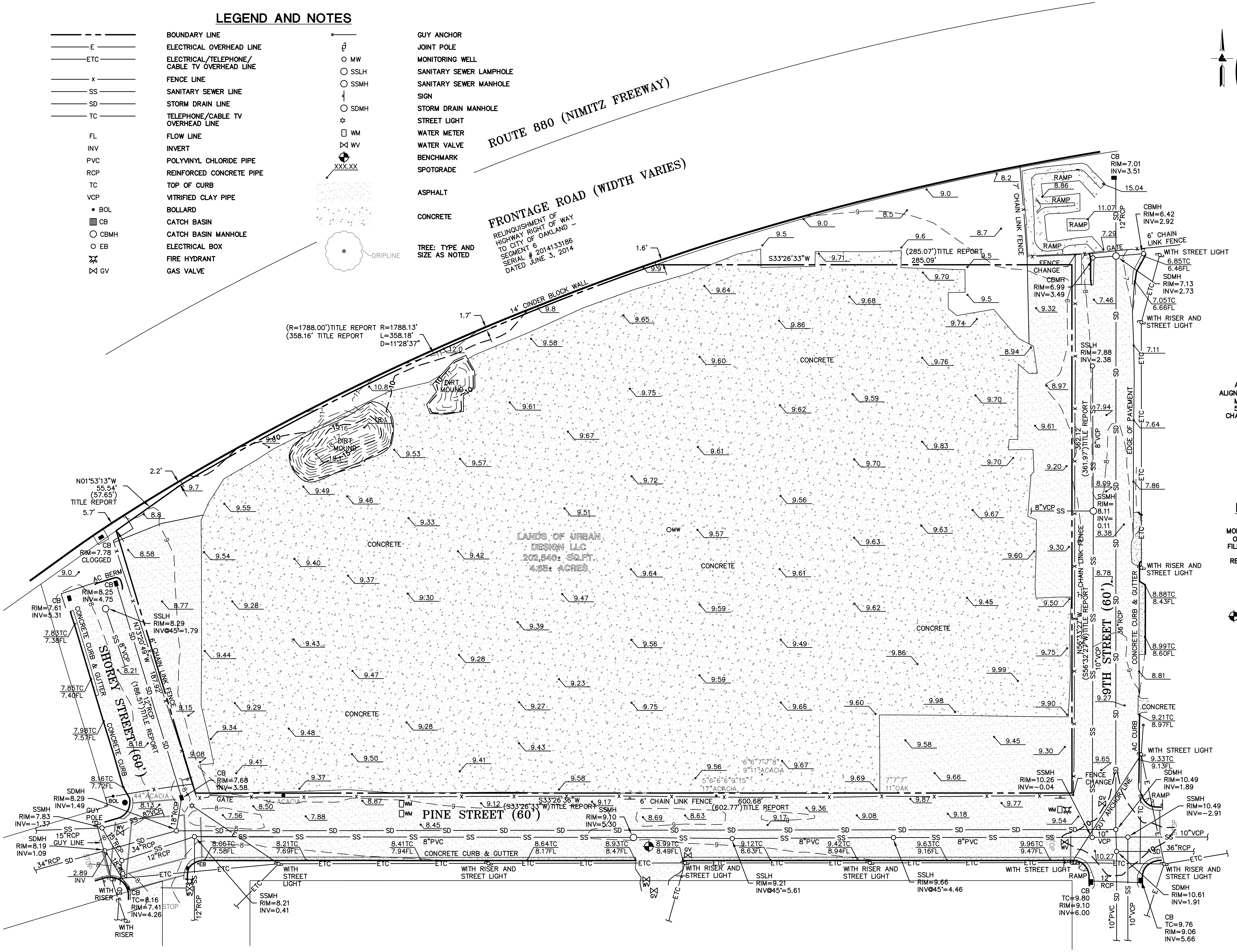
SHEET NO:

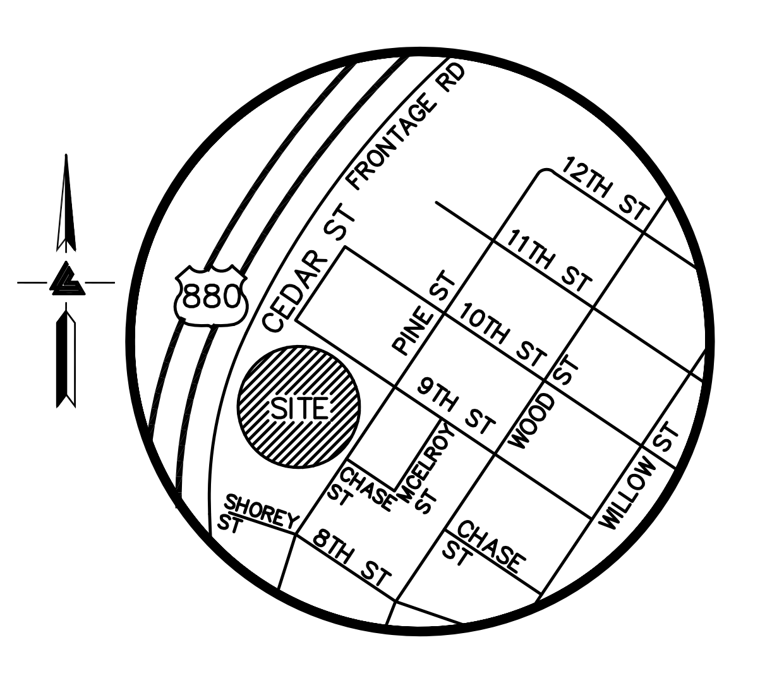
SU1

01 OF 02 SHEETS

LEGEND AND NOTES

▬ ▬ ─ ─ ▬ ▬	BOUNDARY LINE	←──	GUY ANCHOR
──── E ────	ELECTRICAL OVERHEAD LINE	∂	JOINT POLE
──── ETC ────	ELECTRICAL/TELEPHONE/ CABLE TV OVERHEAD LINE	○ MW	MONITORING WELL
──── x ────	FENCE LINE	○ SSLH	SANITARY SEWER LAMPHOLE
──── SS ────	SANITARY SEWER LINE	○ SSMH	SANITARY SEWER MANHOLE
──── SD ────	STORM DRAIN LINE	⫞	SIGN
──── TC ────	TELEPHONE/CABLE TV OVERHEAD LINE	○ SDMH	STORM DRAIN MANHOLE
FL	FLOW LINE	☼	STREET LIGHT
INV	INVERT	▯ WM	WATER METER
PVC	POLYVINYL CHLORIDE PIPE	⋈ WV	WATER VALVE
RCP	REINFORCED CONCRETE PIPE	⊕	BENCHMARK
TC	TOP OF CURB	XXX.XX	SPOTGRADE
VCP	VITRIFIED CLAY PIPE	░	ASPHALT
● BOL	BOLLARD	▨	CONCRETE
▥ CB	CATCH BASIN	✿ DRIPLINE	TREE: TYPE AND SIZE AS NOTED
○ CBMH	CATCH BASIN MANHOLE		
○ EB	ELECTRICAL BOX		
☼	FIRE HYDRANT		
⋈ GV	GAS VALVE		





VICINITY MAP

NO SCALE

NOTES

ALL DISTANCES AND DIMENSIONS ARE IN FEET AND DECIMALS OF A FOOT.

UNDERGROUND UTILITY LOCATION IS BASED ON SURFACE EVIDENCE.

BENCHMARK

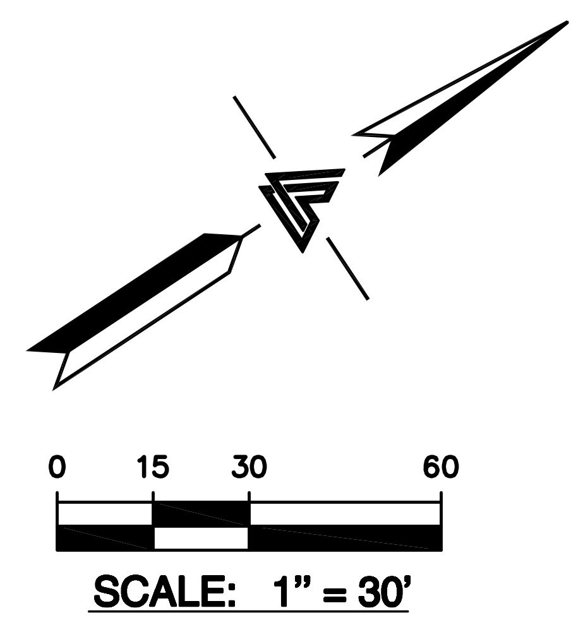
CITY OF OAKLAND BENCHMARK
BENCHMARK 23/F
A STANDARD CITY OF OAKLAND STREET ALIGNMENT MONUMENT (BRASS PIN IN CONCRETE MONUMENT UNDER STANDARD CASTING). 5 FEET NORTH OF THE CENTER LINE OF CHASE STREET AND 25.5 FEET EAST OF THE WEST LINE OF WOOD STREET.
ELEVATION = 9.475'
(CITY OF OAKLAND DATUM)

BASIS OF BEARINGS

THE BEARING N73°19'58"W ALONG THE MONUMENT LINE IN GOSS STREET AS SHOWN ON THAT RECORD OF SURVEY R/S 1687, FILED IN BOOK 25 OF RECORDS OF SURVEY AT PAGES 58-69, ALAMEDA COUNTY RECORDS, IS THE BASIS OF ALL BEARINGS SHOWN UPON THIS MAP.

⊕ SITE BENCHMARK

SURVEY CONTROL POINT
MAG NAIL SET IN ASPHALT
ELEVATION = 9.05'
(CITY OF OAKLAND DATUM)



SCALE: 1" = 30'

LEA & BRAZE ENGINEERING, INC.
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WWW.LEABRAZE.COM

800 CEDAR STREET
OAKLAND, CALIFORNIA

ALAMEDA COUNTY

APN: 006-0047-001

BOUNDARY AND TOPOGRAPHIC SURVEY

TOPO CONVERSION 11-11-19	DB
REVISIONS	BY

JOB NO:	2171135
DATE:	11-3-17
SCALE:	1" = 30'
FIELD BY:	EH
DRAWN BY:	JN
SHEET NO:	

SU2

02 OF 02 SHEETS

TENTATIVE PARCEL MAP
#10835

REFERENCES

THIS GRADING AND DRAINAGE PLAN IS SUPPLEMENTAL TO:

1. TOPOGRAPHIC SURVEY BY LEA & BRAZE ENGINEERING, INC., ENTITLED;
   "ALTA NSPS LAND TITLE SURVEY"
   800 PINE STREET
   OAKLAND, CA
   DATED: 11-03-17
   JOB#2171135
2. SITE PLAN BY HOLLIDAY DEVELOPMENT;
   "SITE PLAN"
   1201 PINE STREET #151
   OAKLAND, CA 94607

THE CONTRACTOR SHALL REFER TO THE ABOVE NOTED SURVEY AND PLAN, AND SHALL VERIFY BOTH EXISTING AND PROPOSED ITEMS ACCORDING TO THEM.

UTILITIES/SERVICES

WATER SUPPLY: EAST BAY MUNICIPAL UTILITY DISTRICT
SEWAGE: CITY OF OAKLAND
STORM DRAIN: CITY OF OAKLAND
GAS & ELECTRICAL: PG&E
TELEPHONE: AT&T
FIRE PREVENTION: OAKLAND FIRE DEPARTMENT

PROPERTY INFORMATION:

GROSS ACRES: 4.65±

PROJECT INTENT:

NEW RESIDENTIAL AND APPURTENANT SITE IMPROVEMENTS ON A ±4.65 ACRE SITE
801 PINE STREET – OAKLAND, CA
APN: 006-0047-001

OWNER'S INFORMATION

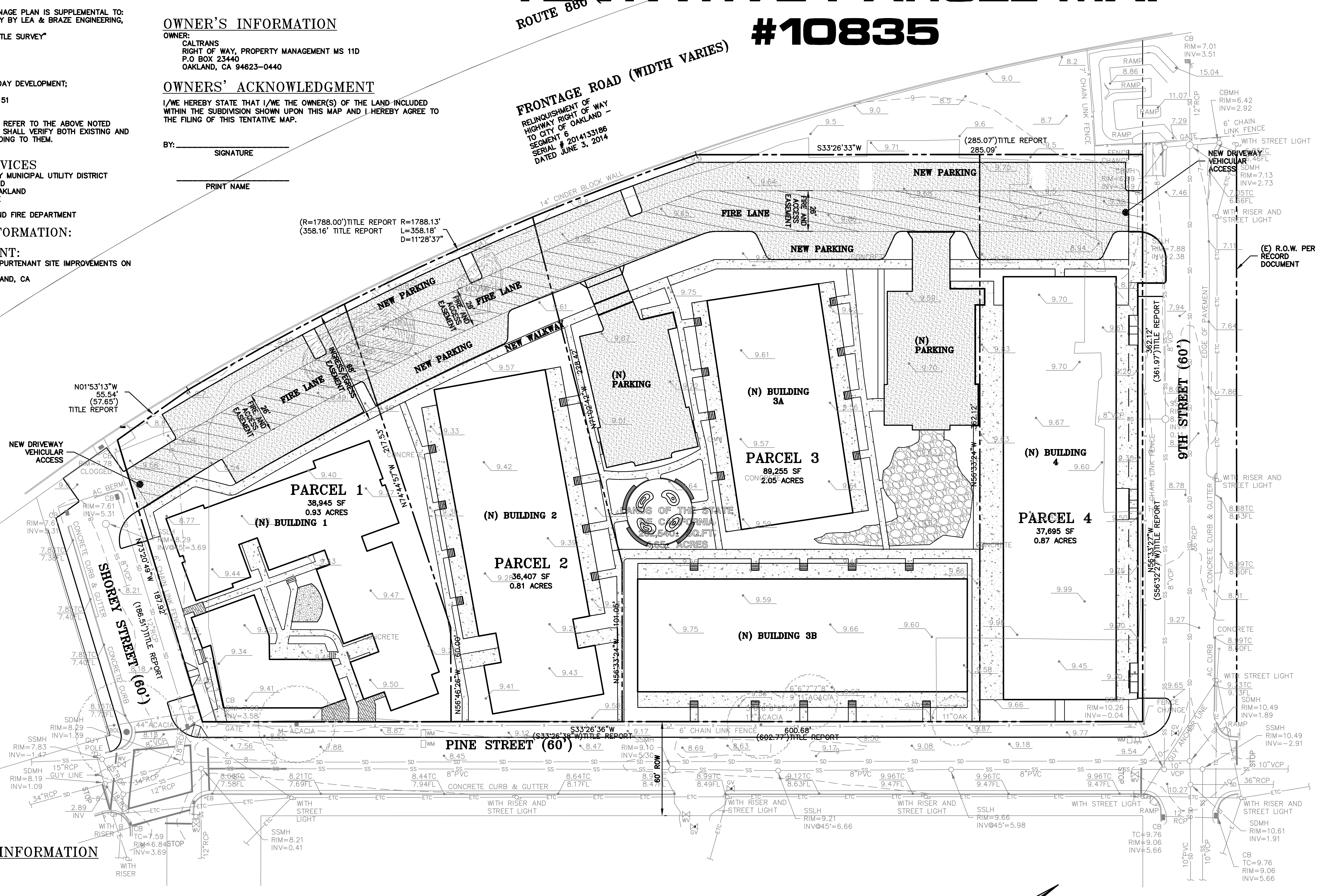
OWNER:
CALTRANS
RIGHT OF WAY, PROPERTY MANAGEMENT MS 11D
P.O BOX 23440
OAKLAND, CA 94623-0440

OWNERS' ACKNOWLEDGMENT

I/WE HEREBY STATE THAT I/WE THE OWNER(S) OF THE LAND INCLUDED WITHIN THE SUBDIVISION SHOWN UPON THIS MAP AND I HEREBY AGREE TO THE FILING OF THIS TENTATIVE MAP.

BY: ____________________
SIGNATURE

____
PRINT NAME



0 15 30 60
SCALE: 1" = 30'

SUBDIVIDER'S INFORMATION

SUBDIVIDER:
URBAN DESIGNS, LLC.
1201 PINE STREET #151
OAKLAND, CA 94607

SUBDIVIDER'S ACKNOWLEDGMENT

I/WE AGREE TO COMPLY WITH THE PROVISIONS OF THE CITY OF OAKLAND COMPREHENSIVE PLAN AND STATE OF CALIFORNIA MAP ACT AS THEY APPLY TO THE PROCESSING AND APPROVAL OF SAID MAP. ALL IMPROVEMENTS SHALL BE MADE IN ACCORDANCE WITH THE ALAMEDA COUNTY STANDARDS.
AS OWNER:

BY: ____________________
SIGNATURE

____
PRINT NAME

NOTES

ALL DISTANCES AND DIMENSIONS ARE IN FEET AND DECIMALS OF A FOOT.

UNDERGROUND UTILITY LOCATION IS BASED ON SURFACE EVIDENCE.

BENCHMARK

CITY OF OAKLAND BENCHMARK
BENCHMARK 23/F
A STANDARD CITY OF OAKLAND STREET ALIGNMENT MONUMENT (BRASS PIN IN CONCRETE MONUMENT UNDER STANDARD CASTING).
5 FEET NORTH OF THE CENTER LINE OF CHASE STREET AND 25.5 FEET EAST OF THE WEST LINE OF WOOD STREET.
ELEVATION = 9.475'
(CITY OF OAKLAND DATUM)

BASIS OF BEARINGS

THE BEARING N73°19'58"W ALONG THE MONUMENT LINE IN GOSS STREET AS SHOWN ON THAT RECORD OF SURVEY R/S 1687, FILED IN BOOK 25 OF RECORDS OF SURVEY AT PAGES 58-69, ALAMEDA COUNTY RECORDS, IS THE BASIS OF ALL BEARINGS SHOWN UPON THIS MAP.

SITE BENCHMARK

SURVEY CONTROL POINT
MAG NAIL SET IN ASPHALT
ELEVATION = 9.05'
(CITY OF OAKLAND DATUM)

SURVEYOR'S STATEMENT

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION AT THE REQUEST OF DAVID SCHENKER IN JULY 2018.

I HEREBY STATE THAT ALL EXISTING GRADES UPON THIS PLAT ARE BASED UPON CITY OF OAKLAND DATUM.

I HEREBY FURTHER STATE THAT TO THE BEST OF MY KNOWLEDGE ALL PROVISIONS OF APPLICABLE STATE LAWS AND LOCAL ORDINANCES HAVE BEEN COMPLIED WITH.

____________________ ____________________
JAMES TOBY, PLS 8102 DATE

JAMES TOBY
No. 8102
ORIGINAL SIGNATURES IN BLUE INK

PETER CARLINO
No. C79555
ORIGINAL SIGNATURES IN BLUE INK

LEA & BRAZE ENGINEERING, INC.
CIVIL ENGINEERS • LAND SURVEYORS

BAY AREA REGION
2495 INDUSTRIAL PKWY WEST
HAYWARD, CALIFORNIA 94545
(P) (510) 887-4086
(F) (510) 887-3019

SACRAMENTO REGION
3017 DOUGLAS BLVD, # 300
ROSEVILLE, CA 95661
(P) (916)966-1338
(F) (916)797-7363
WWW.LEABRAZE.COM

PHOENIX IRON WORKS
801 PINE STREET
OAKLAND, CALIFORNIA
PARCEL NUMBER: 10835
ALAMEDA COUNTY
APN: 006-0047-001

TENTATIVE
PARCEL MAP
10835

REVISIONS	BY
–	–
–	–
–	–
–	–
–	–

JOB NO:	2171535
DATE:	01-05-18
SCALE:	AS NOTED
DESIGN BY:	SN
DRAWN BY:	RP

SHEET NO:
PM-1
01 OF 01 SHEETS

Dec 12, 2018 – 11:19am – USER josterhout
N:\projects\2017_JOBS\2171535 CI\dwg\Parcel Map\2171535 PM.dwg

PARCEL MAP NO. 10835

FOR 4 LOT SUBDIVISION FOR RESIDENTIAL PURPOSES

CITY OF OAKLAND, ALAMEDA COUNTY, STATE OF CALIFORNIA

CONSISTING OF TWO (2) SHEETS OCT. 2019

BEING A SUBDIVISION OF THAT CERTAIN REAL PROPERTY AS SHOWN ON THAT CERTAIN GRANT DEED RECORDED MAY 16, 2019 AS DOCUMENT NO. 2019-090488, OFFICIAL RECORDS OF ALAMEDA COUNTY, STATE OF CALIFORNIA.

LEA & BRAZE ENGINEERING, INC.
CIVIL ENGINEERS • LAND SURVEYORS
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HAYWARD, CALIFORNIA 94545
(510) 887-4086
FAX (510) 887-3019
WWW.LEABRAZE.COM

OWNER'S STATEMENT

THE UNDERSIGNED HEREBY STATES THAT THEY ARE THE OWNERS OF THE LAND DELINEATED AND EMBRACED WITHIN THE EXTERIOR BOUNDARY LINES INDICATED UPON THE HEREIN EMBODIED MAP ENTITLED "PARCEL MAP NO. 10835"; THAT SAID OWNERS ACQUIRED TITLE TO SAID LAND BY VIRTUE OF THE GRANT DEED RECORDED MAY 16, 2019, AS DOCUMENT NO. 2019-090488, OFFICIAL RECORDS OF ALAMEDA COUNTY, STATE OF CALIFORNIA; AND THAT SAID OWNER DOES CONSENT TO THE PREPARATION AND THE FILING OF THIS MAP.

THIS MAP SHOWS ALL THE EASEMENTS OF RECORD ON THE PREMISES, OR OF RECORD.

WE HEREBY DESIGNATE THOSE AREAS SHOWN ON SAID MAP "E.V.A.E." (EMERGENCY VEHICLE ACCESS EASEMENT) AND "P.A.E." (PRIVATE ACCESS EASEMENT) FOR THE BENEFIT OF THE OWNERS OF PARCELS 1-4.

WE ALSO HEREBY DESIGNATE THOSE AREAS SHOWN ON SAID MAP AS "P.U.E." (PUBLIC UTILITY EASEMENT) TO CONSTRUCT AND MAINTAIN PUBLIC UTILITIES AND ALL THEIR APPURTENANCES THERETO UNDER, ON, AND OVER THE SAID STRIP OF LAND.

URBAN DESIGNS, LLC, A CALIFORNIA LIMITED LIABILITY COMPANY

BY:______________________ _______________
??
??
DATE

OWNER'S ACKNOWLEDGMENT

A NOTARY PUBLIC OR OTHER OFFICER COMPLETING THE CERTIFICATE VERIFIES ONLY THE IDENTITY OF THE INDIVIDUAL WHO SIGNED THE DOCUMENT TO WHICH THE CERTIFICATE IS ATTACHED AND NOT THE TRUTHFULNESS, ACCURACY, OR VALIDITY OF THAT DOCUMENT.

STATE OF CALIFORNIA)
COUNTY OF ______________)

ON ________________________________, 20__ BEFORE ME,________________ _________________ PERSONALLY APPEARED ___________________ WHO PROVED TO ME ON THE BASIS OF SATISFACTORY EVIDENCE TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE WITHIN INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME IN HIS AUTHORIZED CAPACITY, AND THAT BY HIS SIGNATURE ON THE INSTRUMENT THE PERSON EXECUTED THE INSTRUMENT.

I CERTIFY UNDER PENALTY OF PERJURY UNDER THE LAWS OF THE STATE OF CALIFORNIA THAT THE FOREGOING PARAGRAPH IS TRUE AND CORRECT.

WITNESS MY HAND AND OFFICIAL SEAL.

____
NOTARY PUBLIC IN AND FOR
SAID COUNTY AND STATE

(SEAL)

PRINCIPAL COUNTY OF BUSINESS: __________________

COMMISSION EXPIRES: ___________________________

COMMISSION # OF NOTARY: _______________________

BENEFICIARY STATEMENT

RAZA DEVELOPMENT FUND, AN ARIZONA NON-PROFIT CORPORATION, BENEFICIARY OF DEED OF TRUST AND FINANCING STATEMENT AS DOCUMENTS ARE RECORDED MAY 16, 2019 AS DOCUMENTS 2019090489 AND 2019090490 RESPECTFULLY, ENCUMBERING THE LAND HEREIN SHOWN, HEREBY CONSENTS ON BEHALF OF THE BENEFICIARY TO THE MAKING AND FILING OF THIS MAP.

BY:____

PRINTED NAME:___________________________________

TITLE: ____

BENEFICIARY'S ACKNOWLEDGMENT

A NOTARY PUBLIC OR OTHER OFFICER COMPLETING THIS CERTIFICATE VERIFIES ONLY THE IDENTITY OF THE INDIVIDUAL WHO SIGNED THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED AND NOT THE TRUTHFULNESS, ACCURACY OR VALIDITY OF THAT DOCUMENT.

STATE OF CALIFORNIA)
COUNTY OF __________)

ON ________________________________ 20__ BEFORE ME, (HERE INSERT NAME AND TITLE OF THE OFFICER), PERSONALLY APPEARED ______________ ______, WHO PROVED TO ME ON THE BASIS OF SATISFACTORY EVIDENCE TO BE THE PERSON(S) WHOSE NAME(S) IS/ARE SUBSCRIBED TO THE WITHIN INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE/SHE/THEY EXECUTED THE SAME IN HIS/HER/THEIR AUTHORIZED CAPACITY(IES), AND THAT BY HIS/HER/THEIR SIGNATURE(S) ON THE INSTRUMENT THE PERSON(S), OR THE ENTITY UPON BEHALF OF WHICH THE PERSON(S) ACTED, EXECUTED THE INSTRUMENT.

I CERTIFY UNDER PENALTY OF PERJURY UNDER THE LAWS OF THE STATE OF CALIFORNIA THAT THE FOREGOING PARAGRAPH IS TRUE AND CORRECT.

WITNESS MY HAND

SIGNATURE ____________________________________

NOTARY PUBLIC, STATE OF CA COMMISSION No.: _______________

MY COMMISSION EXPIRES:_________________

COUNTY OF PRINCIPAL PLACE OF BUSINESS:

CITY ENGINEER'S STATEMENT

I, WLADIMIR WLASSOWSKY, HAVING BEEN AUTHORIZED TO PERFORM THE FUNCTION OF THE CITY ENGINEER OF THE CITY OF OAKLAND, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, FOR THE PURPOSES OF REVIEWING SUBDIVISION MAPS, DO HEREBY CERTIFY THAT I HAVE EXAMINED THE HEREON EMBODIED PARCEL MAP ENTITLED "PARCEL MAP NO. 10404"; THAT THE SUBDIVISION AS SHOWN ON SAID PARCEL MAP IS SUBSTANTIALLY THE SAME AS THAT APPEARING ON THE TENTATIVE MAP AND ANY APPROVED ALTERATIONS THEREOF; THAT SAID PARCEL MAP COMPLIES WITH ALL PROVISIONS OF THE SUBDIVISION MAP ACT OF THE GOVERNMENT CODE OF THE STATE OF CALIFORNIA AND ANY LOCAL ORDINANCES APPLICABLE AT THE TIME OF APPROVAL OF THE TENTATIVE MAP.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND THIS ____ DAY OF _________ 20___.

WLADIMIR WLASSOSKY
No. 40013
CIVIL

____
WLADIMIR WLASSOWSKY, R.C.E. NO. 40013
ACTING CITY ENGINEER
CITY OF OAKLAND, ALAMEDA COUNTY
STATE OF CALIFORNIA

CITY SURVEYOR'S STATEMENT

I, GILBERT E. HAYES, HAVING BEEN AUTHORIZED TO PERFORM THE FUNCTION OF THE CITY SURVEYOR OF THE CITY OF OAKLAND, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, HEREBY CERTIFY THAT I HAVE EXAMINED THE HEREON EMBODIED PARCEL MAP ENTITLED "PARCEL MAP NO. 10735". I AM SATISFIED THAT THE MAP IS TECHNICALLY CORRECT.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND THIS ____ DAY OF _________ 20___.

GILBERT E. HAYES
No. 4700

____
GILBERT E. HAYES, P.L.S. NO. 4700
CITY SURVEYOR, CITY OF OAKLAND

SURVEYOR'S STATEMENT

I, GREG BRAZE, STATE THAT THIS MAP THIS WAS PREPARED BY ME OR UNDER MY DIRECTION AND IS BASED UPON A FIELD SURVEY IN CONFORMANCE WITH THE REQUIREMENTS OF THE SUBDIVISION MAP ACT AND LOCAL ORDINANCE AT THE REQUEST OF URBAN DESIGNS, LLC IN SEPT. OF 2019. I HEREBY STATE THAT ALL THE MONUMENTS ARE OF THE CHARACTER AND OCCUPY THE POSITIONS INDICATED; OR THAT THEY WILL BE SET ON OR BEFORE DECEMBER 2021; AND THAT THE MONUMENTS ARE OR WILL BE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, AND THAT THIS FINAL MAP SUBSTANTIALLY CONFORMS TO THE CONDITIONALLY APPROVED TENTATIVE MAP, IF ANY.

DATE:____
GREGORY F. BRAZE L.S. 7623

GREGORY F. BRAZE
No. 7623

CLERK OF THE BOARD OF SUPERVISOR'S STATEMENT

I, ANITA CAMPBELL-BELTON, CLERK OF THE BOARD OF SUPERVISORS OF THE COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DO HEREBY STATE THAT THE CERTIFICATES HAVE BEEN FILED AND DEPOSITS HAVE BEEN MADE IN CONFORMANCE WITH THE REQUIREMENTS OF SECTION 66492 AND 66493 OF THE GOVERNMENT CODE OF THE STATE OF CALIFORNIA.

DATED: _______________________

ANITA CAMPBELL-BELTON, CLERK OF THE
BOARD OF SUPERVISORS OF THE COUNTY
OF ALAMEDA, STATE OF CALIFORNIA

BY:____________________________
DEPUTY CLERK

COUNTY RECORDER'S STATEMENT

FILED THIS ________ DAY OF _____________________, 20__ AT ___________M, IN BOOK ______ OF MAPS, AT PAGE ______, AT THE REQUEST OF OLD REPUBLIC TITLE INSURANCE COMPANY.

STEVE MANNING
CLERK RECORDER IN AND FOR THE
COUNTY OF ALAMEDA, STATE OF CALIFORNIA

BY:____________________________
DEPUTY COUNTY RECORDER

JOB NO. 2171135SU/2171535CI

SHEET 1 OF 2

PARCEL MAP NO. 10835

FOR 4 LOT SUBDIVISION FOR RESIDENTIAL PURPOSES

CITY OF OAKLAND, ALAMEDA COUNTY, STATE OF CALIFORNIA

CONSISTING OF TWO (2) SHEETS **OCT. 2019**

BEING A SUBDIVISION OF THAT CERTAIN REAL PROPERTY AS SHOWN ON THAT CERTAIN GRANT DEED RECORDED MAY 16, 2019 AS DOCUMENT NO. 2019–090488, OFFICIAL RECORDS OF ALAMEDA COUNTY, STATE OF CALIFORNIA.

LEA & BRAZE ENGINEERING, INC.
CIVIL ENGINEERS • LAND SURVEYORS
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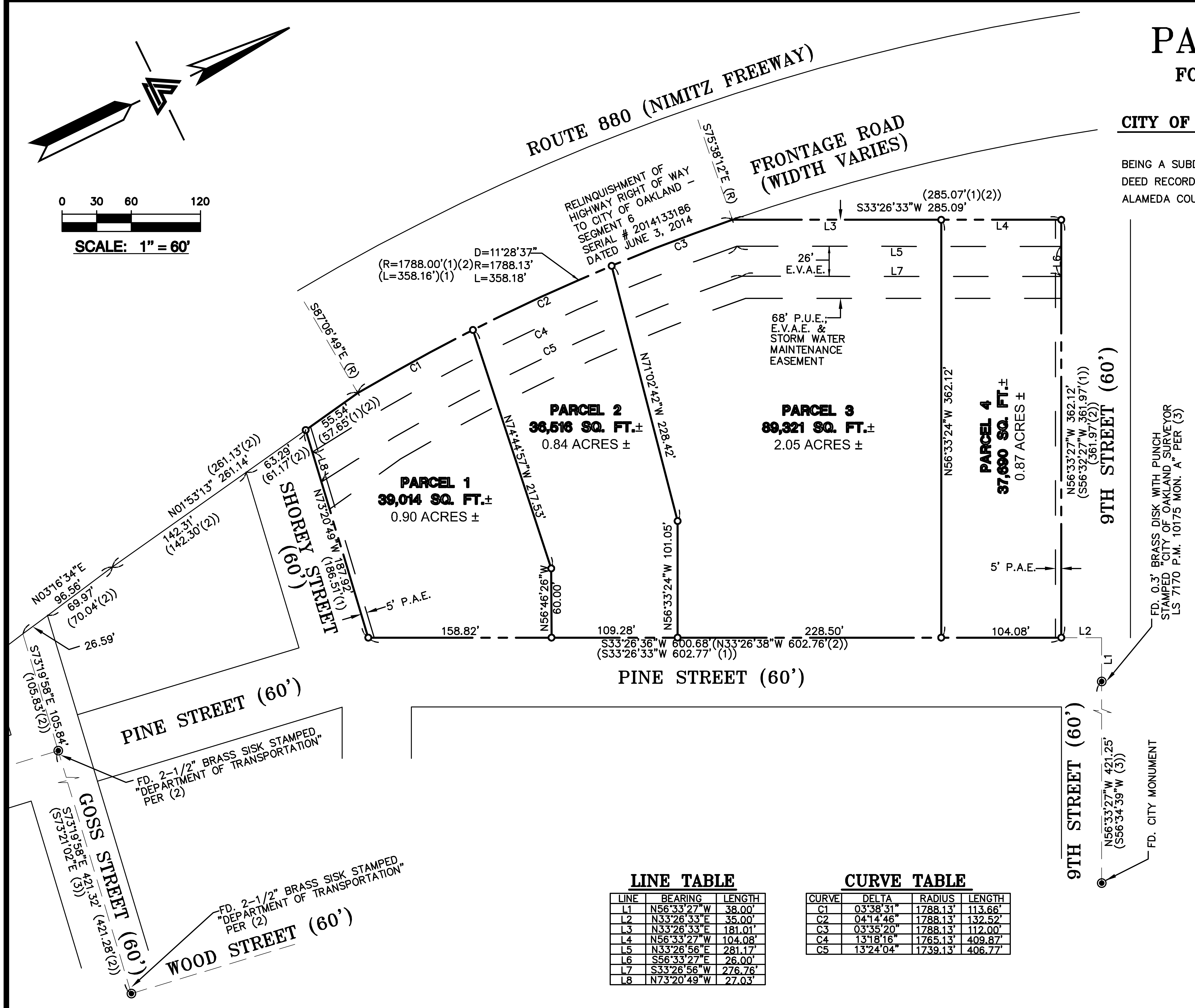
HAYWARD, CALIFORNIA 94545
(510) 887–4086
FAX (510) 887–3019
WWW.LEABRAZE.COM



LINE TABLE

LINE	BEARING	LENGTH
L1	N56°33'27"W	38.00'
L2	N33°26'33"E	35.00'
L3	N33°26'33"E	181.01'
L4	N56°33'27"W	104.08'
L5	N33°26'56"E	281.17'
L6	S56°33'27"E	26.00'
L7	S33°26'56"W	276.76'
L8	N73°20'49"W	27.03'

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH
C1	03°38'31"	1788.13'	113.66'
C2	04°14'46"	1788.13'	132.52'
C3	03°35'20"	1788.13'	112.00'
C4	13°18'16"	1765.13'	409.87'
C5	13°24'04"	1739.13'	406.77'

LEGEND

◉	FOUND MONUMENT AS NOTED
○	SET 3/4" IRON PIPE W/PLASTIC CAP "LS 7623"
P.A.E.	PEDESTRIAN ACCESS EASEMENT
P.U.E.	PUBLIC UTILITY EASEMENT
E.V.A.E.	EMERGENCY VEHICLE ACCESS EASEMENT
—— – – ——	ADJACENT PROPERTY LINE
—— – – ——	DISTINCTIVE BORDER LINE
—— —— ——	EASEMENT LINE
— — — — — —	TIE OR RADIAL LINE

NOTES:

1. OVERALL PROPERTY IS 202,541 SQ. FT. +/–, 4.649 ACRES
2. ALL DISTANCES ARE IN FEET AND DECIMALS THEREOF.

REFERENCES

(1) RECORD PER 2019–090488

(2) RECORD 25 MAPS 58

(3) RECORD 324 MAPS 94

BASIS OF BEARINGS

THE BEARING N73°19'58"W ALONG THE MONUMENT LINE IN GOSS STREET AS SHOWN ON THAT RECORD OF SURVEY R/S 1687, FILED IN BOOK 25 OF RECORDS OF SURVEY AT PAGES 58–69, ALAMEDA COUNTY RECORDS, IS THE BASIS OF ALL BEARINGS SHOWN UPON THIS MAP.

PHOENIX IRON WORKS
PHASE 1 - SUPPORTIVE HOUSING
800 CEDAR STREET
OAKLAND, CALIFORNIA

LEGEND

EXISTING	PROPOSED	DESCRIPTION
—— — — ——	—— — — ——	BOUNDARY
—— —— ——	—— —— ——	PROPERTY LINE
▬▬▬▬	▬▬▬▬	RETAINING WALL
▬▬▬▬	▬▬▬▬	LANDSCAPE RETAINING WALL
— · — · —	—— RW —— RW ——	RAINWATER TIGHTLINE
— — — — —	——SUB——	SUBDRAIN LINE
— · — · —	——TL——	TIGHTLINE
—— SD ——	—— SD ——	STORM DRAIN LINE
—— SS ——	—— SS ——	SANITARY SEWER LINE
—— W ——	—— W ——	WATER LINE
—— G ——	—— G ——	GAS LINE
—— P ——	—— P ——	PRESSURE LINE
—— JT ——	—— JT ——	JOINT TRENCH
— —— —	— —— —	SET BACK LINE
⇝ · ⇝ · ⇝	⇝ · ⇝ · ⇝	CONCRETE VALLEY GUTTER
⇝ · ⇝ · ⇝	⇝ · ⇝ · ⇝	EARTHEN SWALE
▥ CB	▥ CB	CATCH BASIN
▥ JB	▥ JB	JUNCTION BOX
• AD	• AD	AREA DRAIN
▥	▥	CURB INLET
○ SDMH	○ SDMH	STORM DRAIN MANHOLE
✲	✲	FIRE HYDRANT
○ SSMH	○ SSMH	SANITARY SEWER MANHOLE
⊦	⊦	STREET SIGN
× 222.57 INV	× 222.57 INV	SPOT ELEVATION
←	←	FLOW DIRECTION
	⬡ D	DEMOLISH/REMOVE
⊕	⊕	BENCHMARK
200	200	CONTOURS
☒	☒ XX" TREE	TREE TO BE REMOVED
	⇐	OVERLAND RELEASE

ABBREVIATIONS

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
ACC	ACCESSIBLE
AD	AREA DRAIN
BC	BEGINNING OF CURVE
B & D	BEARING & DISTANCE
BM	BENCHMARK
BW/FG GRADE	BOTTOM OF WALL/FINISH
CB	CATCH BASIN
C & G	CURB AND GUTTER
℄	CENTER LINE
CPP	CORRUGATED PLASTIC PIPE (SMOOTH INTERIOR)
CO	CLEANOUT
COTG	CLEANOUT TO GRADE
CONC	CONCRETE
CONST	CONSTRUCT or -TION
CONC COR	CONCRETE CORNER
CY	CUBIC YARD
D	DIAMETER
DI	DROP INLET
DIP	DUCTILE IRON PIPE
EA	EACH
EC	END OF CURVE
EG	EXISTING GRADE
EL	ELEVATIONS
EP	EDGE OF PAVEMENT
EQ	EQUIPMENT
EW	EACH WAY
(E)	EXISTING
FC	FACE OF CURB
FF	FINISHED FLOOR
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FS	FINISHED SURFACE
G	GAS
GA	GAGE OR GAUGE
GB	GRADE BREAK
HDPE	HIGH DENSITY CORRUGATED POLYETHYLENE PIPE
HORIZ	HORIZONTAL
HI PT	HIGH POINT
H&T	HUB & TACK
ID	INSIDE DIAMETER
INV	INVERT ELEVATION
JB	JUNCTION BOX
JT	JOINT TRENCH
JP	JOINT UTILITY POLE
L	LENGTH
LNDG	LANDING
LF	LINEAR FEET
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MON.	MONUMENT
(N)	NEW
NO.	NUMBER
NTS	NOT TO SCALE
O.C.	ON CENTER
O/	OVER
(PA)	PLANTING AREA
PED	PEDESTRIAN
PIV	POST INDICATOR VALVE
PSS	PUBLIC SERVICES EASEMENT
ℙ	PROPERTY LINE
PP	POWER POLE
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RIM	RIM ELEVATION
RW	RAINWATER
R/W	RIGHT OF WAY
S	SLOPE
S.A.D.	SEE ARCHITECTURAL DRAWINGS
SAN	SANITARY
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SHT	SHEET
S.L.D.	SEE LANDSCAPE DRAWINGS
SPEC	SPECIFICATION
SPD	SEE PLUMBING DRAWINGS
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
ST.	STREET
STA	STATION
STD	STANDARD
STRUCT	STRUCTURAL
T	TELEPHONE
TC	TOP OF CURB
TEMP	TEMPORARY
TP	TOP OF PAVEMENT
TW/FG	TOP OF WALL/FINISH GRADE
TYP	TYPICAL
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
W/	WITH
W, WL	WATER LINE
WM	WATER METER
WWF	WELDED WIRE FABRIC

NOTES

ALL DISTANCES AND DIMENSIONS ARE IN FEET AND DECIMALS OF A FOOT.

UNDERGROUND UTILITY LOCATION IS BASED ON SURFACE EVIDENCE.

⊕ SITE BENCHMARK

SURVEY CONTROL POINT
MAG NAIL SET IN ASPHALT
ELEVATION = 9.05'
(CITY OF OAKLAND DATUM)

BASIS OF BEARINGS

THE BEARING N73°19'58"W ALONG THE MONUMENT LINE IN GOSS STREET AS SHOWN ON THAT RECORD OF SURVEY R/S 1687, FILED IN BOOK 25 OF RECORDS OF SURVEY AT PAGES 58-69, ALAMEDA COUNTY RECORDS, IS THE BASIS OF ALL BEARINGS SHOWN UPON THIS MAP.

BENCHMARK

CITY OF OAKLAND BENCHMARK
BENCHMARK 23/F
A STANDARD CITY OF OAKLAND STREET ALIGNMENT MONUMENT (BRASS PIN IN CONCRETE MONUMENT UNDER STANDARD CASTING).
5 FEET NORTH OF THE CENTER LINE OF CHASE STREET AND 25.5 FEET EAST OF THE WEST LINE OF WOOD STREET.
ELEVATION = 9.475'
(CITY OF OAKLAND DATUM)

ENGINEER'S STATEMENT–GEOTECHNICAL DESIGN

INITIAL STATEMENT OF THE ENGINEER (DIVIDED RESPONSIBILITY)

I HAVE BEEN RETAINED BY HOLIDAY DEVELOPMENT TO BE IN RESPONSIBLE CHARGE OF THE PORTIONS OF GRADING WORK ENUMERATED BELOW. I WILL ASSUME FULL RESPONSIBILITY AS RESPONSIBILITY IS DEFINED IN SECTION 2-6.075 OF THE OAKLAND MUNICIPAL CODE FOR CARRYING OUT THE FOLLOWING TO THE BEST OF MY KNOWLEDGE AND ABILITY:

(A) ASSURING THAT TESTING AND INSPECTION REQUIRED FOR THE WORK IN PROGRESS AND THE COMPLETED WORK SHALL BE ACCOMPLISHED IN A PROFESSIONAL MANNER TO DETERMINE WHETHER ALL THE WORK IS BEING/WAS DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR OF PUBLIC WORKS.

(B) NOTIFYING THE APPLICANT, VERBALLY AND IN WRITING (WITH A COPY TO THE DIRECTOR OF PUBLIC WORKS), OF ANY WORK NOT BEING PERFORMED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.

(C) NOTIFYING THE APPLICANT, VERBALLY AND IN WRITING (WITH A COPY TO THE DIRECTOR OF PUBLIC WORKS), OF ANY WORK NOT MEETING THE REQUIREMENTS OF THE APPROVED PLANS AND SPECIFICATIONS.

(D) NOTIFYING THE APPLICANT, VERBALLY AND IN WRITING, OF THE MODIFICATION(S) REQUIRED IN HIS PERFORMANCE AND THE NECESSARY CORRECTIVE MEASURES TO BE TAKEN TO CURE ALL DEFICIENCIES.

(E) (BY PROJECT CIVIL ENGINEER)

(F) (BY PROJECT CIVIL ENGINEER)

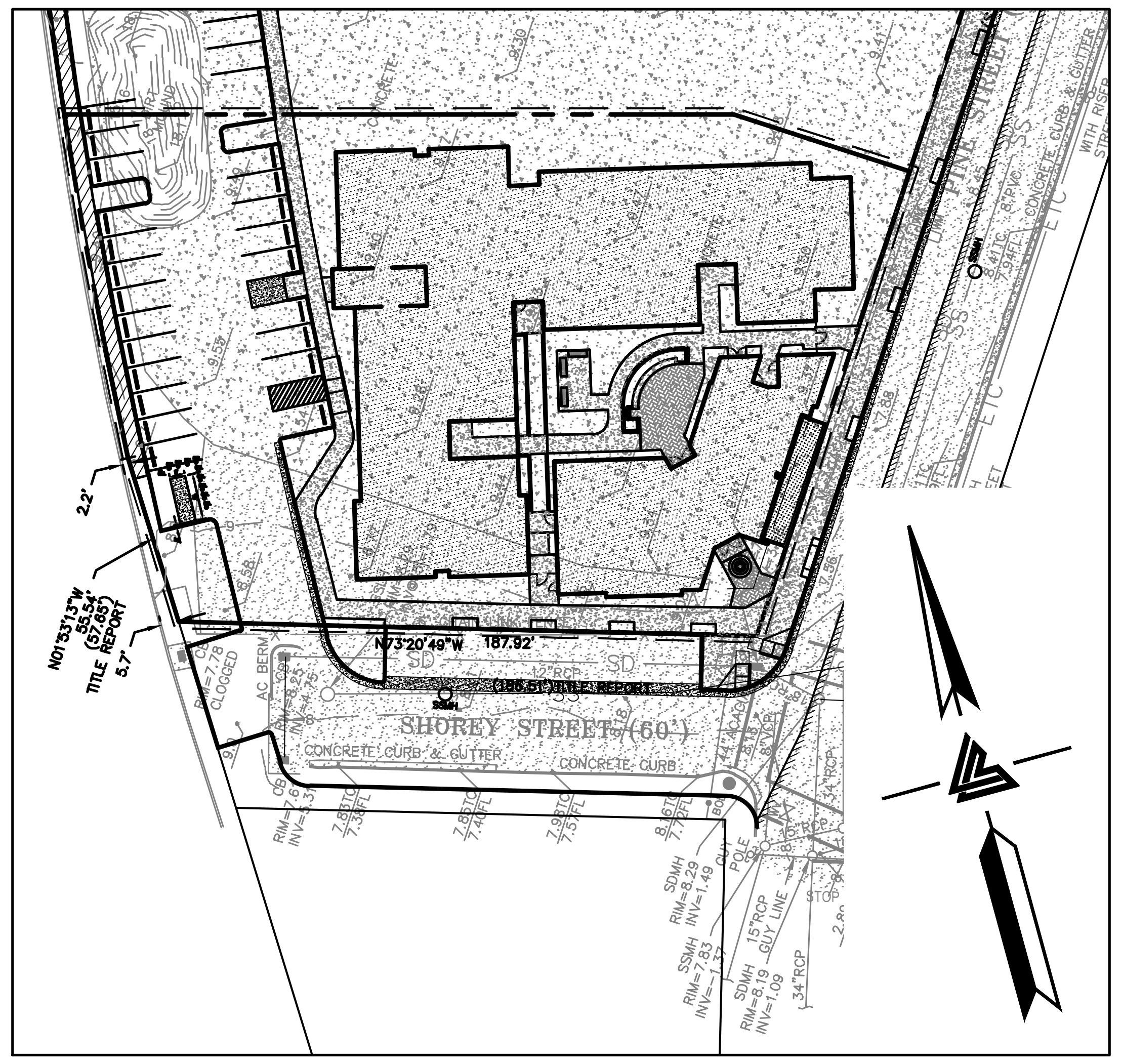
(G) (BY PROJECT CIVIL ENGINEER)

(H) (BY PROJECT CIVIL ENGINEER)

IF MY SERVICES ON THE JOB ARE TERMINATED, I WILL, AT SAID TIME OF TERMINATION, SUBMIT TO THE DIRECTOR OF PUBLIC WORKS, A STATEMENT OF PARTIAL COMPLETION ADDRESSING THE PROGRESS AND CONDITIONS OF ALL OF THE APPLICABLE ITEMS ABOVE AND ATTACH THERETO THE RESULTS OF SUCH INSPECTIONS AND TESTS WHICH HAVE BEEN COMPLETED.

SIGNED: ________________
REGISTERED CIVIL ENGINEER NO. _______ (EXP. ________)

(TO BE STAMPED AND SIGNED BY PROJECT GEOTECHNICAL CONSULTANT)



KEY MAP

1" = 50'

ESTIMATED EARTHWORK QUANTITIES

CUBIC YARDS	WITHIN BUILDING FOOTPRINT	OUTSIDE BUILDING FOOTPRINT	TOTAL CUBIC YARDS
CUT	0	0	0
FILL	2,040 CY		2,040 CY
IMPORT			2,040 CY

(1) EARTHWORK REPRESENTS IMPORT TO BACKFILL (E) FOUNDATIONS. SLABS ASSUMED AT 12" THICK.

NOTE:

GRADING QUANTITIES REPRESENT BANK YARDAGE. IT DOES NOT INCLUDE ANY SWELLING OR SHRINKAGE FACTORS AND IS INTENDED TO REPRESENT IN-SITU CONDITIONS. QUANTITIES DO NOT INCLUDE OVER-EXCAVATION, TRENCHING, STRUCTURAL FOUNDATIONS OR PIERS, OR POOL EXCAVATION (IF ANY). NOTE ADDITIONAL EARTHWORKS, SUCH AS KEYWAYS OR BENCHING MAY BE REQUIRED BY THE GEOTECHNICAL ENGINEER IN THE FIELD AT TIME OF CONSTRUCTION. CONTRACTOR TO VERIFY QUANTITIES.

DESIGNER'S STATEMENT

THIS PLOT PLAN CORRECTLY REPRESENTS A PLOT PLAN MADE BY ME OR UNDER MY DIRECTION.

I HEREBY STATE THAT TO THE BEST OF MY KNOWLEDGE ALL PROVISIONS OF APPLICABLE STATE LAWS AND LOCAL ORDINANCES HAVE BEEN COMPLIED WITH.

I HEREBY FURTHER STATE THAT ALL PROPOSED GRADES, ELEVATIONS, AND CONTOURS DELINEATED UPON THIS PLOT PLAN ARE BASED UPON A SURVEY BY LEA AND BRAZE ENGINEERING, DATED NOVEMBER 2017 AND, SUPPLEMENTAL INFORMATION BY OWNER, THAT WAS INDICATED THEREON BY THE SURVEYOR THEREOF AS BEING BASED UPON CITY OF OAKLAND DATUM.

SIGNED: PETER CARLINO
REGISTERED CIVIL ENGINEER NO. C79555 (EXP. 09-30-20)

ENGINEER'S STATEMENT – CIVIL DESIGN

INITIAL STATEMENT OF THE ENGINEER (DIVIDED RESPONSIBILITY)

I HAVE BEEN RETAINED BY HOLIDAY DEVELOPMENT TO BE IN RESPONSIBLE CHARGE OF THE PORTIONS OF GRADING WORK ENUMERATED BELOW. I WILL ASSUME FULL RESPONSIBILITY AS RESPONSIBILITY IS DEFINED IN SECTION 2-6.075 OF THE OAKLAND MUNICIPAL CODE FOR CARRYING OUT THE FOLLOWING TO THE BEST OF MY KNOWLEDGE AND ABILITY:

(A) (BY PROJECT GEOTECHNICAL CONSULTANT

(B) (BY PROJECT GEOTECHNICAL CONSULTANT)

(C) (BY PROJECT GEOTECHNICAL CONSULTANT)

(D) (BY PROJECT GEOTECHNICAL CONSULTANT)

(E) SUBMITTING AN AMENDED GRADING PLAN (THROUGH THE APPLICANT) TO THE DIRECTOR OF PUBLIC WORKS FOR HIS REVIEW AND APPROVAL FOR ANY SIGNIFICANT CHANGES CAUSED BY UNFORESEEN CONDITIONS, ALONG WITH A REPORT SETTING FORTH THE REASONS FOR THESE CHANGES AND THE RECOMMENDED CHANGES TO THE IMPROVEMENT PLANS ENGENDERED AS A RESULT OF THE AMENDED GRADING PLAN.

(F) NOTIFYING THE APPLICANT, VERBALLY AND IN WRITING (WITH A COPY TO THE DIRECTOR OF PUBLIC WORKS), OF ANY PORTION OF THE GRADING WORK AFFECTED BY THE AMENDED PLANS AND SHALL RECOMMEND WHETHER OR NOT THE APPLICANT SHOULD PROCEED WITH THE WORK BEFORE THE AMENDED PLANS ARE APPROVED BY THE DIRECTOR OF PUBLIC WORKS.

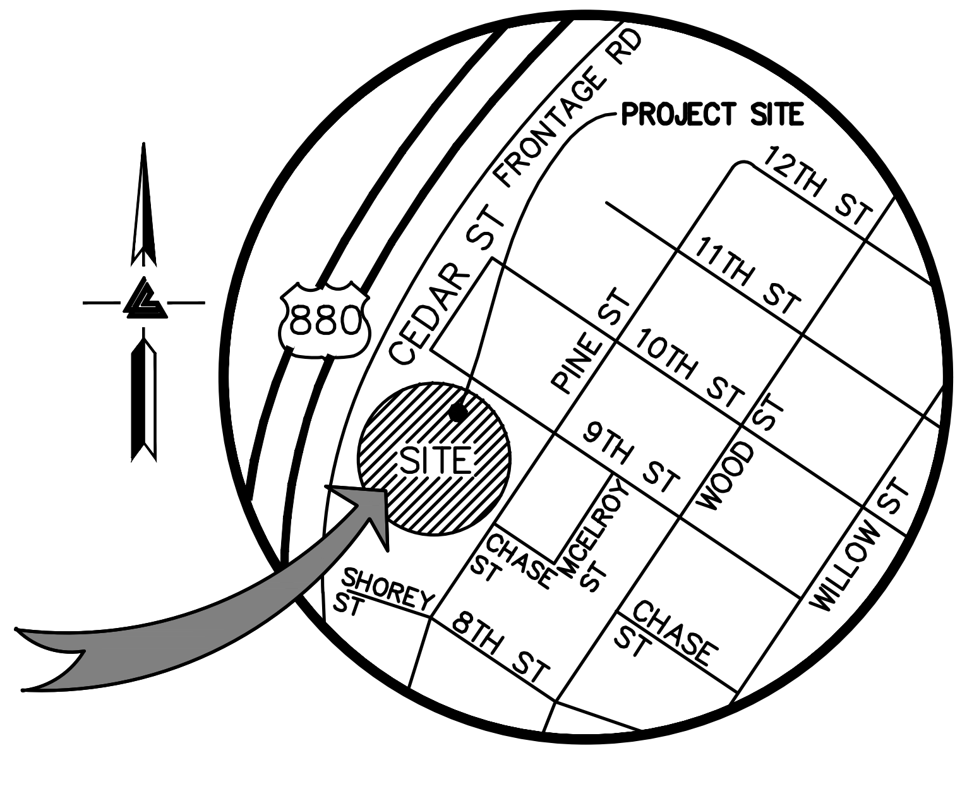
(G) SUBMITTING UPON THE APPLICANT'S SATISFACTORY COMPLETION OF WORK UNDER THE PERMIT, A STATEMENT OF COMPLETION PURSUANT TO SECTION 2-6.111 OF THE OAKLAND MUNICIPAL CODE WITH THE RESULTS OF ALL TESTS AND INSPECTIONS ATTACHED THERETO.

(H) STATING IN WRITING, ALONG WITH THE STATEMENT OF COMPLETION, THAT THE INTERIM EROSION CONTROL AND SEDIMENT CONTROL MEASURES APPEAR TO BE ADEQUATE IF PROPERLY MAINTAINED UNTIL THE PERMANENT EROSION CONTROL MEASURES ARE FULLY ESTABLISHED, IF ANY ARE REQUIRED.

IF MY SERVICES ON THE JOB ARE TERMINATED, I WILL, AT SAID TIME OF TERMINATION, SUBMIT TO THE DIRECTOR OF PUBLIC WORKS, A STATEMENT OF PARTIAL COMPLETION ADDRESSING THE PROGRESS AND CONDITIONS OF ALL OF THE APPLICABLE ITEMS ABOVE AND ATTACH THERETO THE RESULTS OF SUCH INSPECTIONS AND TESTS WHICH HAVE BEEN COMPLETED.

PETER CARLINO
No. C79555
CIVIL

SIGNED: PETER CARLINO
REGISTERED CIVIL ENGINEER NO. C79555 (EXP. 09-30-20)



VICINITY MAP

NO SCALE

OWNER'S INFORMATION

OWNER:
PHOENIX IRON WORKS
800 CEDAR STREET
OAKLAND, CA

APN: 006-0047-001

REFERENCES

THIS GRADING AND DRAINAGE PLAN IS SUPPLEMENTAL TO:

1. ALTA & TOPOGRAPHIC SURVEY BY LEA & BRAZE ENGINEERING, ENTITLED;
   "TOPOGRAPHIC SURVEY"
   800 CEDAR STREET
   OAKLAND, CA
   DATED: 11-3-17
   JOB# 2171135
2. SUBDIVISION IMPROVEMENTS PLANS AND FINAL MAP BY LEA & BRAZE ENGINEERING (CURRENTLY UNDER SEPARATE REVIEW)
3. SITE PLAN BY LOWNEY ARCHITECTS, ENTITLED:
   "SUPPORTIVE HOUSING"
   800 CEDAR STREET
   OAKLAND, CA
   DATED: 9-13-19
4. OVERALL SITE PLAN BY DAVID BAKER ARCHITECTS, ENTITLED:
   "OVERALL SITE PLAN"
   800 CEDAR STREET
   OAKLAND, CA
5. LANDSCAPE PLAN BY MILLER LANDSCAPE ARCHITECTS, ENTITLED:
   "LANDSCAPE AND IRRIGATION PLAN"
   800 CEDAR STREET
   OAKLAND, CA
   DATED: 10-04-19
6. SOILS REPORT BY ROCKRIDGE GEOTECHNICAL, ENTITLED:
   "PRELIMINARY GEOTECHNICAL INVESTIGATION "
   800 CEDAR STREET
   OAKLAND, CA
   DATED: 12-29-17
   JOB# 17-1404

THE CONTRACTOR SHALL REFER TO THE ABOVE NOTED SURVEY AND PLAN, AND SHALL VERIFY BOTH EXISTING AND PROPOSED ITEMS ACCORDING TO THEM.

*** BUILDING PAD NOTE:**
ADJUST PAD LEVEL AS REQUIRED. REFER TO STRUCTURAL PLANS FOR SLAB SECTION OR CRAWL SPACE DEPTH TO ESTABLISH PAD LEVEL.

UTILITY INFORMATION

STORMDRAIN:	CITY OF OAKLAND
SANITARY SEWER:	CITY OF OAKLAND
WASTE:	EAST BAY MUNICIPAL UTILITY DISTRICT
GAS/ELECTRIC:	PG&E
CABLE:	COMCAST
PHONE:	AT&T

NOTE:
FOR CONSTRUCTION STAKING SCHEDULING OR QUOTATIONS PLEASE CONTACT ALEX ABAYA AT LEA & BRAZE ENGINEERING (510)887-4086 EXT 116.
aabaya@leabraze.com

1-800-227-2600
CALL BEFORE YOU DIG
USA
UNDERGROUND SERVICE ALERT

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C-2.1	GRADING PLAN (AREA OF DETAIL)
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lowney arch
TEL 510.836.5400 URL lowneyarch.com
360 seventeenth street | suite 200 | oakland, california 94612

THE PHOENIX
801 PINE STREET, OAKLAND, CA

URBAN DESIGNS LLC
1201 Pine St, Suite 151
Oakland, CA 94607

OWNER
EBALDC
1825 San Pablo Avenue, Suite 200
Oakland, CA 94612

ARCHITECT
LOWNEY ARCHITECTURE
360 17th Street, Suite 200
Oakland, CA 94612
Phone: 510.836.5400

LEA & BRAZE ENGINEERING, INC.
CIVIL ENGINEERS • LAND SURVEYORS

BAY AREA REGION
2495 INDUSTRIAL PKWY WEST
HAYWARD, CALIFORNIA 94545
(P) (510) 887-4086
(F) (510) 887-3019

SACRAMENTO REGION
3017 DOUGLAS BLVD, # 300
ROSEVILLE, CA 95661
(P) (916)966-1338
(F) (916)797-7363

WWW.LEABRAZE.COM

STAMP

PETER CARLINO
No. C79555
CIVIL

#	DATE	ISSUES & REVISIONS	BY
	11-15-19	SITE PERMIT SET	

DRAWN BY: Author
PROJECT NUMBER: 18-010
SHEET ISSUE DATE: 10/14/19
SHEET TITLE:

TITLE SHEET

SHEET NUMBER

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SUBMITTAL SET 11-15-19

CAUTION:

1. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT FOR LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION– PHONE (800) 642–2444. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY WORK ON THIS SITE.
2. THE LOCATION, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS PLAN WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. (A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES). CONTRACTOR SHALL VERIFY LOCATION AND DEPTH PRIOR TO ANY EXCAVATION OR IMPROVEMENT.

GENERAL SITE NOTES:

1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING ON THIS WORK AND CONSIDER THE EXISTING CONDITIONS AND SITE CONSTRAINTS IN THE BID. CONTRACTOR SHALL BE IN THE POSSESSION OF AND FAMILIAR WITH ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS AND SPECIFICATIONS PRIOR TO SUBMITTING OF A BID.
2. ALL WORK IN THE PUBLIC RIGHT–OF–WAY SHALL CONFORM TO ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS & SPECIFICATIONS.
3. PRIOR TO BEGINNING WORK, AND AFTER INITIAL HORIZONTAL CONTROL STAKING, CONTRACTOR SHALL FIELD CHECK ALL ELEVATIONS MARKED WITH (E) AND REPORT ANY DISCREPANCIES GREATER THAN 0.05' TO OWNER'S PROJECT MANAGER AND CIVIL ENGINEER.
4. ALL GENERAL NOTES, SHEET NOTES, AND LEGEND NOTES FOUND IN THESE DOCUMENTS SHALL APPLY TYPICALLY THROUGHOUT. IF INCONSISTENCIES ARE FOUND IN THE VARIOUS NOTATIONS, NOTIFY THE ENGINEER IMMEDIATELY IN WRITING REQUESTING CLARIFICATION.
5. THESE DRAWINGS AND THEIR CONTENT ARE AND SHALL REMAIN THE PROPERTY OF LEA AND BRAZE ENGINEERING, INC. WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE NOT TO BE USED BY ANY PERSONS ON OTHER PROJECTS OR EXTENSIONS OF THE PROJECT EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO THE ENGINEER.
6. ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND TRADE STANDARDS WHICH GOVERN EACH PHASE OF WORK INCLUDING, BUT NOT LIMITED TO, CALIFORNIA MECHANICAL CODE, CALIFORNIA PLUMBING CODE, CALIFORNIA ELECTRICAL CODE, CALIFORNIA FIRE CODE, CALTRANS STANDARDS AND SPECIFICATIONS, AND ALL APPLICABLE STATE AND/OR LOCAL CODES AND/OR LEGISLATION.
7. COMMENCEMENT OF WORK BY THE CONTRACTOR AND/OR ANY SUBCONTRACTOR SHALL INDICATE KNOWLEDGE AND ACCEPTANCE OF ALL CONDITIONS DESCRIBED IN THESE CONSTRUCTION DOCUMENTS, OR EXISTING ON SITE, WHICH COULD AFFECT THEIR WORK.
8. DAMAGE TO ANY EXISTING SITE IMPROVEMENTS, UTILITIES AND/OR SERVICES TO REMAIN SHALL BE RESPONSIBLE OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
9. CONTRACTOR SHALL REPLACE ALL STRUCTURES AND GRATE LIDS FOR VAULTS, CATCH BASINS, ETC.., WITH VEHICULAR–RATED STRUCTURES IN ALL TRAFFIC ACCESSIBLE AREAS.
10. THE CONTRACTOR SHALL ADJUST TO FINAL GRADE ALL EXISTING AND/OR NEW MANHOLES, CURB INLETS, CATCH BASIN, VALVES, MONUMENT COVERS, AND OTHER CASTINGS WITHIN THE WORK AREA TO FINAL GRADE IN PAVEMENT AND LANDSCAPE AREAS UNLESS NOTED OTHERWISE.
11. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS AND THAT THE CONTRACTOR SHALL DEFEND INDEMNIFY AND HOLD THE OWNER, THE CONSULTING ENGINEER AND THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT. EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE CONSULTING ENGINEER.
12. EXISTING PEDESTRIAN WALKWAYS. BIKE PATHS AND ACCESSIBLE ACCESS PATHWAYS SHALL BE MAINTAINED, WHERE FEASIBLE, DURING CONSTRUCTION.
13. IF A CONFLICT ARISES BETWEEN THE SPECIFICATIONS AND THE PLANS NOTES, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
14. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE. INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
15. THE DUTY OF THE ENGINEERS TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE.
16. NEITHER THE FINAL PAYMENT, NOR THE PROVISIONS IN THE CONTRACT, NOR PARTIAL, NOR ENTIRE USE OR OCCUPANCY OF THE PREMISES BY THE OWNER SHALL CONSTITUTE AN ACCEPTANCE OF THE WORK NOT DONE IN ACCORDANCE WITH THE CONTRACT OR RELIEVES THE CONTRACTOR OF LIABILITY IN RESPECT TO ANY EXPRESS WARRANTIES OR RESPONSIBILITY FOR FAULTY MATERIAL OR WORKMANSHIP.
17. THE CONTRACTOR SHALL REMEDY ANY DEFECTS IN WORK AND PAY FOR ANY DAMAGE TO OTHER WORK RESULTING THERE FROM WHICH SHALL APPEAR WITHIN A PERIOD OF ONE (1) CALENDAR YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK.
18. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT BY ROCKRIDGE GEOTECHNICAL, DATED 12–29–17, JOB # 17–1404

SITE FENCING NOTES:

1. CONTRACTOR SHALL PROVIDE A CONSTRUCTION FENCE AROUND THE ENTIRE AREA OF DEMOLITION AND CONSTRUCTION, INCLUDING ALL STAGING, STORAGE, CONSTRUCTION OFFICE AND LAYDOWN AREAS.
2. FENCE LOCATION MAY BE ADJUSTED FROM TIME TO TIME AS CONSTRUCTION PROCEEDS TO EXCLUDE SOME AREAS WHERE CONSTRUCTION WORK IS NOT BEING ONE AND THE AREA IS NOT OBJECTIONABLE IN VISUAL APPEARANCE, AT THE DISCRETION AND APPROVAL OF THE DISTRICT STAFF.
3. CONSTRUCTION FENCE SHALL BE A MINIMUM OF A 6' HIGH GALVANIZED CHAIN LINK FENCE WITH GREEN WINDSCREEN FABRIC ON THE OUTSIDE OF THE FENCE.
4. CONTRACTOR SHALL REPLACE THE GREEN FABRIC AT LEAST ONCE A YEAR OR AT SUCH A TIME AS IT BECOMES TATTERED AND UNSIGHTLY DUE TO WIND OR CONSTRUCTION ACTIVITIES.

DEMOLITION NOTES:

1. CONTRACTOR IS TO COMPLY WITH ALL GENERAL AND STATE REQUIREMENTS INVOLVING THE REMOVAL AND DISPOSAL OF HAZARDOUS MATERIAL(S).
2. THE CONTRACTOR SHALL LOCATE AND CLEARLY MARK (AND THEN PRESERVE THESE MARKERS) FOR THE DURATION OF CONSTRUCTION OF ALL TELEPHONE, DATA, STREET LIGHT, SIGNAL LIGHT AND POWER FACILITIES THAT ARE IN OR NEAR THE AREA OF CONSTRUCTION.
3. CONTRACTOR'S BID IS TO INCLUDE ALL VISIBLE SURFACE AND ALL SUBSURFACE FEATURES IDENTIFIED TO BE REMOVED OR ABANDONED IN THESE DOCUMENTS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION, AND STATE JURISDICTIONS.
6. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH DISPOSAL OF MATERIALS.
7. BACKFILL ALL DEPRESSIONS AND TRENCHES FROM DEMOLITION OF FOUNDATIONS & UTILITIES TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
8. WITHIN LIMITS OF WORK, REMOVE CURBS, GUTTERS, LANDSCAPING, SIGNAGE, TREES, SCRUBS, ASPHALT, UNDERGROUND PIPES, ETC. AS INDICATED ON THE PLANS AND SPECIFICATIONS.
9. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIALS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
10. PRIOR TO BEGINNING DEMOLITION WORK ACTIVITIES, CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES OUTLINED IN THE EROSION PLAN & DETAILS.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING ALL DEMOLITION MATERIALS, OR STORING SELECTED ITEMS BY OWNER'S REPRESENTATIVE AT DESIGNATED LOCATIONS.
12. THE CONTRACTOR SHALL MAINTAIN ALL SAFETY DEVICES, AND SHALL BE RESPONSIBLE FOR CONFORMANCE TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS LAWS AND REGULATIONS.
13. THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING IMPROVEMENTS FACILITIES AND STRUCTURES WHICH ARE TO REMAIN. ANY ITEMS DAMAGED BY THE CONTRACTOR OR HIS AGENTS OF ANY ITEMS REMOVED FOR HIS USE SHALL BE REPLACED IN EQUAL OR BETTER CONDITION AS APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE.
14. COORDINATE WITH ELECTRICAL, MECHANICAL, LANDSCAPING AND ARCHITECTURAL DRAWINGS FOR UTILITY SHUT–DOWN / DISCONNECT LOCATIONS. CONTRACTOR IS TO SHUT OFF ALL UTILITIES AS NECESSARY PRIOR TO DEMOLITION. CONTRACTOR IS TO COORDINATE SERVICE INTERRUPTIONS WITH THE DEVELOPER / OWNER. DO NOT INTERRUPT SERVICES ADJACENT OFF–SITE OWNERS. ALSO SEE ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION SCOPE OF WORK.
15. DEMOLITION INCLUDES REMOVAL OF ALL ITEMS ASSOCIATED WITH THE UTILITY, RETAINING WALL, FENCE, TREE OR BUILDING, INCLUDING BUT NOT LIMITED TO FOOTINGS, VALVES, ROOTS, BACKFILL, ETC. AND SHALL INCLUDE PREPARING THE SITE FOR NEW UTILITIES, BUILDINGS, RETAINING WALLS, ETC.
16. ALL MATERIALS TO BE DEMOLISHED AND REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LAWFULLY DISPOSED OF OFF–SITE.
17. THE PLAN IS NOT INTENDED TO BE A COMPLETE CATALOGUE OF ALL EXISTING STRUCTURES AND UTILITIES. THIS PLAN INTENDS TO DISCLOSE GENERAL INFORMATION KNOWN BY THE ENGINEER AND TO SHOW THE LIMITS OF THE AREA WHERE WORK WILL BE PERFORMED. THIS PLAN SHOWS THE EXISTING FEATURES TAKEN FROM A FIELD SURVEY, FIELD INVESTIGATIONS AND AVAILABLE INFORMATION. THIS PLAN MAY OR MAY NOT ACCURATELY REFLECT THE TYPE OR EXTENT OF THE ITEMS TO BE ENCOUNTERED AS THEY ACTUALLY EXIST. WHERE EXISTING FEATURES ARE NOT SHOWN, IT IS IMPLIED THAT THEY ARE NOT TO BE DEMOLISHED OR REMOVED. THE CONTRACTOR SHALL PERFORM A THOROUGH FIELD INVESTIGATION AND REVIEW OF THE SITE WITHIN THE LIMIT OF WORK SHOWN IN THIS PLAN SET TO DETERMINE THE TYPE, QUANTITY AND EXTENT OF ANY AND ALL ITEMS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE EXTENT OF EXISTING STRUCTURES AND UTILITIES AND QUANTITY OR WORK INVOLVED IN REMOVING THESE ITEMS FROM THE SITE.
18. ALL ABANDONED BUILDINGS AND FOUNDATIONS, TREE (EXCEPT THOSE SPECIFIED TO REMAIN FOR LANDSCAPING PURPOSES), FENCES, VEGETATION AND ANY SURFACE DEBRIS SHALL BE REMOVED AND DISPOSED OF OFF THE SITE BY THE CONTRACTOR.
19. ALL ABANDONED SEPTIC TANKS AND ANY OTHER SUBSURFACE STRUCTURES EXISTING IN PROPOSED DEVELOPMENT AREAS SHALL BE REMOVED PRIOR TO ANY GRADING OR FILL OPERATION. ALL APPURTENANT DRAIN FIELDS AND OTHER CONNECTING LINES MUST ALSO BE TOTALLY REMOVED.
20. ALL ABANDONED UNDERGROUND IRRIGATION OR UTILITY LINES SHALL BE REMOVED OR DEMOLISHED. THE APPROPRIATE FINAL DISPOSITION OF SUCH LINES DEPEND UPON THEIR DEPTH AND LOCATION AND THE METHOD OF REMOVAL OR DEMOLITION SHALL BE DETERMINED BY THE SOILS ENGINEER. ONE OF THE FOLLOWING METHODS WILL BE USED:

A. EXCAVATE AND TOTALLY REMOVE THE UTILITY LINE FROM THE TRENCH.

B. EXCAVATE AND CRUSH THE UTILITY LINE IN THE TRENCH.

C. CAP THE ENDS OF THE UTILITY LINE WITH CONCRETE TO PREVENT THE ENTRANCE OF WATER. THE LOCATIONS AT WHICH THE UTILITY LINE WILL BE CAPPED WILL BE DETERMINED BY THE CITY ENGINEER. THE LENGTH OF THE CAP SHALL NOT BE LESS THAN FIVE FEET, AND THE CONCRETED MIX EMPLOYED SHALL HAVE MINIMUM SHRINKAGE.

EXISTING CONDITIONS:

1. EXISTING TOPOGRAPHIC SURVEY PERFORMED BY LEA & BRAZE ENGINEERING INC SURVEYING ON DECEMBER 2018 (JOB #2171135 SU) GRADES ENCOUNTERED ON–SITE MAY VARY FROM THOSE SHOWN. CONTRACTOR SHALL REVIEW THE PLANS AND CONDUCT FIELD INVESTIGATIONS AS REQUIRED TO VERIFY EXISTING CONDITIONS AT THE PROJECT SITE.

SURVEYOR'S NOTES:

THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF IT'S DELINEATE OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED. BUT WHICH ARE NOT SHOWN ON THIS SURVEY.

GRADING AND EARTHWORK NOTES:

1. ALL PAVED AREAS ARE TO SLOPE AT A MINIMUM OF 1 %. ACCESSIBLE STALLS AND LOADING ZONES ARE TO SLOPE AT A MAXIMUM OF 2% IN ANY DIRECTION AND ACCESSIBLE PATHWAYS ARE TO SLOPE AT A MAXIMUM OF 8.33% WITH A MAXIMUM CROSS SLOPE OF 2 %. ANY AREAS ON THE SITE NOT CONFORMING TO THESE BASIC RULES DUE TO EXISTING CONDITIONS OR DISCREPANCIES IN THE DOCUMENTS ARE TO BE REPORTED T OTHER ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH FORMWORK FOR CURBS AND/OR FLATWORK.
2. CONTRACTOR SHALL DETERMINE EARTHWORK QUANTITIES BASED ON THE TOPOGRAPHIC SURVEY, THE SOILS INVESTIGATION AND THE PROPOSED SURFACE GRADES AND BASE THE BID ACCORDINGLY. ANY DIFFERENCES BETWEEN THE STATE IN WHICH THE PROJECT SITE IS DELIVERED TO THE CONTRACTOR AND THESE DOCUMENTS SHOULD BE NOTED TO THE CIVIL ENGINEER.
3. ALL FILL SHALL BE COMPACTED PER THE CONSTRUCTION SPECIFICATIONS AND THE CONTRACTOR SHALL COORDINATE AND COMPLY WITH THE OWNERS TESTING AGENCY TO TAKE THE APPROPRIATE TEST TO VERIFY COMPACTION VALUES.
4. IMPORT SOILS MUST MEET THE REQUIREMENTS OF THE SOILS REPORT AND SPECIFICATIONS.
5. COORDINATE THE PLACEMENT OF ALL SLEEVES FOR LANDSCAPE IRRIGATION (WATER AND CONTROL WIRING) AND STREET LIGHTING PRIOR TO THE PLACEMENT OF ANY ASPHALT, BASEROCK, OR CONCRETE SURFACING. SEE LANDSCAPE AND SITE ELECTRICAL DRAWINGS.
6. DO NOT ADJUST GRADES ON THIS PLAN WITHOUT PRIOR WRITTEN APPROVAL OF ENGINEER
7. SPOT ELEVATIONS ARE TO FINISHED SURFACE.
8. TOP OF CONCRETE CURBS ARE 0.50" ABOVE TOP OF PAVING ELEVATIONS, U.N.O.
9. ROUGH GRADING TO BE WITHIN 0.1' AND FINISH GRADES ARE TO BE WITH IN 0.05'.
10. AFTER STAKING FOR HORIZONTAL CONTROL CONTRACTOR SHALL FIELD CHECK ALL ELEVATIONS MARKED WITH (E) AND REPORT ANY DISCREPANCIES GREATER THEN 0.05' TO ARCH/ENGR.
11. ALL EXISTING UTILITY STRUCTURES WITHIN THE AREA OF WORK SHALL HAVE THE LIDS, GRATES, COVERS, ETC. ADJUSTED TO BE FLUSH WITH FINISHED GRADES, CONTRACTOR SHALL IDENTIFY ALL SUCH ITEMS BY USE OF THESE PLANS AND THOROUGH FIELD INVESTIGATION.
12. GEOTECHNICAL CONSULTANT TO BE NOTIFIED OF DELIVERY OF ALL IMPORTED SOILS TO SITE FOR HIS/HER INSPECTION AND APPROVAL PRIOR TO PLACING BY CONTRACTOR.
13. THESE SPECIFICATIONS AND APPLICABLE PLANS PERTAIN TO AND INCLUDE ALL SITE GRADING AND EARTHWORK ASSOCIATED WITH THE PROJECT INCLUDING, BUT NOT LIMITED TO THE FURNISHING OF ALL LABOR, TOOLS AND EQUIPMENT NECESSARY FOR SITE CLEARING AND GRUBBING, SITE PREPARATION, DISPOSAL OF EXCESS OR UNSUITABLE MATERIAL, STRIPPING, KEYING, EXCAVATION, OVER EXCAVATION, RECOMPACTION PREPARATION FOR SOIL RECEIVING FILL, PAVEMENT, FOUNDATION OF SLABS, EXCAVATION, IMPORTATION OF ANY REQUIRED FILL MATERIAL, PROCESSING, PLACEMENT AND COMPACTION OF FILL AND SUBSIDIARY WORK NECESSARY TO COMPLETE THE GRADING TO CONFORM TO THE LINES, GRADING AND SLOPE SHOWN ON THE PROJECT GRADING PLANS.
14. ALL FILL MATERIALS SHALL BE DENSIFIED SO AS TO PRODUCE A DENSITY NOT LESS THAN 90% RELATIVE COMPACTION BASED UPON ASTM TEST DESIGNATION D1557. FIELD DENSITY TEST WILL BE PERFORMED IN ACCORDANCE WITH ASTM TEST DESIGNATION 2922 AND 3017. THE LOCATION AND FREQUENCY OF THE FIELD DENSITY TEST WILL BE AS DETERMINED BY THE SOIL ENGINEER. THE RESULTS OF THESE TEST AND COMPLIANCE WITH THE SPECIFICATIONS WILL BE THE BASIS UPON WHICH SATISFACTORY COMPLETION OF THE WORK WILL BE JUDGED BY THE SOIL ENGINEER. ALL CUT AND FILL SLOPES SHALL BE CONSTRUCTED AS SHOWN ON PLANS, BUT NO STEEPER THAN TWO (2) HORIZONTAL TO ONE (1) VERTICAL.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SATISFACTORY COMPLETION OF ALL THE EARTHWORK IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. NO DEVIATION FROM THESE SPECIFICATIONS SHALL BE MADE EXCEPT UPON WRITTEN APPROVAL BY THE SOILS ENGINEER. BOTH CUT AND FILL AREAS SHALL BE SURFACE COMPLETED TO THE SATISFACTION OF THE SOILS ENGINEER AT THE CONCLUSION OF ALL GRADING OPERATIONS AND PRIOR TO FINAL ACCEPTANCE. THE CONTRACTOR SHALL NOTIFY THE SOILS ENGINEER AT LEAST TWO (2) WORKING DAYS PRIOR TO DOING ANY SITE GRADING AND EARTHWORK INCLUDING CLEARING.

STORM DRAIN NOTES:

1. ALL STORM DRAIN PIPE SHALL BE PVC SDR 35, SLOPED AT 2% UNLESS OTHERWISE SPECIFIED ON THE PLANS. PIPE SHALL BE SIZED AS SPECIFIED ON THE PLANS. ALL DIRECTION CHANGES SHALL BE MADE WITH A WYE CONNECTION OR LONG SWEEP ELBOWS, REGULAR ELBOWS, AND TEE'S SHOULD BE AVOIDED.
2. USE DETECTABLE METALIZED WARNING TAPE APPROXIMATE 6" BELOW THE SURFACE. TAPE SHALL BE A BRIGHT COLOR AND IMPRINTED WITH "CAUTION– STORM DRAIN LINE BELOW", CALPICO TYPE 2 OR EQUAL.
3. PAINT THE TOP OF THE CURBS ADJACENT TO EACH CATCH BASIN INSTALLED UNDER THE WORK OR ADJACENT TO THIS SITE WITH THE WORDS "NO DUMPING". WORDING TO BE BLUE 4" HIGH LETTERS ON A PAINTED WHITE BACKGROUND.
4. ALL AREA DRAINS AND CATCH BASINS GRATES WITHIN PEDESTRIAN ACCESSIBLE AREAS SHALL MEET ADA REQUIREMENTS.
5. ALL TRENCHES SHALL BE BACKFILLED PER THE SPECIFICATIONS WITH APPROPRIATE TEST BY THE GEOTECHNICAL ENGINEER TO VERIFY COMPACTION VALUES.
6. FOR GRAVITY FLOW SYSTEMS CONTRACTOR SHALL VERIFY (POTHOLE IF NECESSARY) SIZE, MATERIAL, LOCATION AND DEPTH OF ALL SYSTEMS ARE TO BE CONNECTED TO OR CROSSED PRIOR TO TRENCHING OR INSTALLATION OF ANY GRAVITY FLOW SYSTEM.
7. COMPLETE SYSTEMS; ALL UTILITY SYSTEMS ARE DELINEATED IN SCHEMATIC MANNER ON THESE PLANS. CONTRACTOR IS TO PROVIDE ALL FITTINGS, ACCESSORIES, AND WORK NECESSARY TO COMPLETE THE UTILITY SYSTEM SO THAT IT IS FULLY FUNCTIONING FOR THE PURPOSE INTENDED.
8. PRIVATE STORM DRAIN LINE 4–INCH THROUGH 12– INCH WITH A MINIMUM OF TWO (2) FEET OF COVER IN NON–TRAFFIC AREAS SHALL BE POLYVINYL CHLORIDE (PVC) SDR 35.
9. PRIVATE STORM DRAIN LINE 6–INCH THROUGH 12–INCH WITH LESS THAN 3 FEET OF COVER IN VEHICULAR TRAFFIC AREAS SHALL BE POLYVINYL CHLORIDE (PVC) C900, RATED 150 PSI CLASS PIPE.

10 ALL DOWN SPOUTS SHALL DISCHARGE DIRECTLY ON TO ADJACENT IMPERVIOUS SURFACES OR SPLASH BLOCKS UNLESS OTHERWISE NOTED ON PLANS. SEE ARCHITECTURE PLANS FOR EXACT LOCATION OF THE DOWN SPOUTS.

STORM WATER POLLUTIONS PREVENTION REQUIREMENTS:

1. STORE, HANDLE, AND DISPOSE OF CONSTRUCTION MATERIALS AND WASTES PROPERLY, SO AS TO PREVENT THEIR CONTACT WITH STORMWATER.
2. CONTROL AND PREVENT THE DISCHARGE OF ALL POTENTIAL POLLUTANTS, INCLUDING SOLID WASTES, PAINTS, CONCRETE, PETROLEUM PRODUCTS, CHEMICALS, WASH WATER OR SEDIMENT, AND NON–STORMWATER DISCHARGES TO STORM DRAINS AND WATER COURSES.
3. USE SEDIMENT CONTROL OR FILTRATION TO REMOVE SEDIMENT FROM DEWATERING EFFLUENT.
4. AVOID CLEANING, FUELING, OR MAINTAINING VEHICLES ON SITE, EXCEPT IN A DESIGNATED AREA IN WHICH RUNOFF IS CONTAINED AND TREATED.
5. DELINEATE CLEARING LIMITS, EASEMENTS, SETBACKS, SENSITIVE OR CRITICAL AREAS, BUFFER ZONES, TREES AND DISCHARGE COURSE WITH FIELD MARKERS.
6. PROTECT ADJACENT PROPERTIES AND UNDISTURBED AREAS FROM CONSTRUCTION IMPACTS USING VEGETATIVE BUFFER STRIPS, SEDIMENT BARRIERS OF FILTERS, DIKES, MULCHING, OR OTHER MEASURES AS APPROPRIATE.
7. PERFORM CLEARING AND EARTH MOVING ACTIVITIES DURING DRY WEATHER TO THE MAXIMUM EXTENT PRACTICAL.
8. LIMIT AND TIME APPLICATIONS OF PESTICIDES AND FERTILIZERS TO PREVENT POLLUTED RUNOFF.
9. LIMIT CONSTRUCTION ACCESS ROUTES AND STABILIZE DESIGNATED ACCESS POINTS.
10. AVOID TRACKING DIRT OR MATERIALS OFF–SITE; CLEAN OFF–SITE PAVED AREAS AND SIDEWALKS USING DRY SWEEPING METHODS TO THE MAXIMUM EXTENT PRACTICAL.
11. ALL CONSTRUCTION ON OFF–SITE IMPROVEMENTS SHALL ADHERE TO BEST MANAGEMENT PRACTICES TO PREVENT DELETERIOUS MATERIALS OR POLLUTANTS FROM ENTERING THE CITY OR COUNTY STORM DRAIN SYSTEM.
12. SWEEP ALL GUTTERS AT THE END OF EACH WORKING DAY. GUTTERS SHALL BE KEPT CLEAN AFTER LEAVING CONSTRUCTION SITE.

SUPPLEMENTAL MEASURES:

A. THE PHRASE "NO DUMPING – DRAINS TO BAY" OR EQUALLY EFFECTIVE PHRASE MUST BE LABELED ON STORM DRAIN INLETS (BY STENCILING, BRANDING, OR PLAQUES) TO ALERT THE PUBLIC TO THE DESTINATION OF STORM WATER AND TO PREVENT DIRECT DISCHARGE OF POLLUTANTS INTO THE STORM DRAIN.

B. USING FILTRATION MATERIALS ON STORM DRAIN COVERS TO REMOVE SEDIMENT FROM DEWATERING EFFLUENT.

C. STABILIZING ALL DENUDED AREAS AND MAINTAINING EROSION CONTROL MEASURES CONTINUOUSLY FROM OCTOBER 15 AND APRIL 15.

D. REMOVING SPOILS PROMPTLY, AND AVOID STOCKPILING OF FILL MATERIALS, WHEN RAIN IS FORECAST. IF RAIN THREATENS, STOCKPILED SOILS AND OTHER MATERIALS SHALL BE COVERED WITH A TARP OR OTHER WATERPROOF MATERIAL.

E. STORING, HANDLING, AND DISPOSING OF CONSTRUCTION MATERIALS AND WASTES SO AS TO AVOID THEIR ENTRY TO THE STORM DRAIN SYSTEMS OR WATER BODY.

F. AVOIDING CLEANING, FUELING, OR MAINTAINING VEHICLES ON–SITE, EXCEPT IN AN AREA DESIGNATED TO CONTAIN AND TREAT RUNOFF.

SITE MAINTENANCE:

1. REMOVE ALL DIRT, GRAVEL, RUBBISH, REFUSE, AND GREEN WASTE FROM STREET PAVEMENT AND STORM DRAINS ADJOINING THE SITE. LIMIT CONSTRUCTION ACCESS ROUTES ONTO THE SITE AND PLACE GRAVEL PADS AT THESE LOCATIONS. DO NOT DRIVE VEHICLES AND EQUIPMENT OFF THE PAVED OR GRAVELED AREAS DURING WET WEATHER.
2. SWEEP OR VACUUM THE STREET PAVEMENT AND SIDEWALKS ADJOINING THE PROJECT SITE AND THE ON–SITE PAVED AREAS ON A DAILY BASIS. SCRAPE C CAKED–ON MUD AND DIRT FROM THESE AREAS BEFORE SWEEPING. CORNERS AND HARD TO REACH AREAS SHALL BE SWEPT MANUALLY.
3. CONTRACTOR SHALL: GATHER ALL CONSTRUCTION DEBRIS ON A REGULAR BASIS AND PLACE IT IN A DUMPSTER OR OTHER CONTAINER WHICH IS EMPTIED OR REMOVED ON A REGULAR BASIS. WHEN APPROPRIATE, USE TARPS ON THE GROUND TO COLLECT FALLEN DEBRIS OR SPLATTERS THAT COULD CONTRIBUTE TO STORM WATER RUNOFF POLLUTION.
4. IF THE STREET, SIDEWALKS AND/OR PARKING LOT ARE PRESSURE WASHED, DEBRIS MUST BE TRAPPED AND COLLECTED TO PREVENT ENTRY INTO THE STORM DRAIN SYSTEM. NO CLEANING AGENT MAY BE DISCHARGED INTO THE STORM DRAIN. IF ANY CLEANING AGENT OR DEGREASER IS USED, WASHED WATER MUST BE COLLECTED AND DISCHARGED TO THE SANITARY SEWER, SUBJECT TO THE APPROVAL OF THE OWNER'S PROJECT MANAGER, OR OTHERWISE DISPOSED OF THROUGH APPROVED DISPOSAL METHODS.
5. CREATE A CONTAINED AND COVERED AREA ON THE SITE FOR THE STORAGE OF BAGS, CEMENT, PAINTS, OILS, FERTILIZERS, PESTICIDES, OR OTHER MATERIAL USED ON THE SITE THAT HAVE THE POTENTIAL OF BEING WIND–BLOWN OR IN THE EVENT OF A MATERIAL SPILL.
6. NEVER CLEAN MACHINERY, EQUIPMENT OR TOOLS INTO A STREET, GUTTER OR STORM DRAIN.
7. ENSURE THAT CEMENT TRUCKS, PAINTERS, OR STUCCO/PLASTER FINISHING CONTRACTORS DO NOT DISCHARGE WASH WATER FROM EQUIPMENT, TOOLS OR RINSE CONTAINERS INTO GUTTERS OR DRAINS.
8. THE ON–SITE STORM DRAIN FACILITIES SHALL BE CLEANED A MINIMUM OF TWICE A YEAR AS FOLLOWS: IMMEDIATELY PRIOR TO OCTOBER 15TH AND ONCE IN JANUARY. ADDITIONAL CLEANING MAY BE REQUIRED IF FOUND NECESSARY BY THE CITY ENGINEER/INSPECTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR COST ASSOCIATED WITH CLEANING.
9. PREVENT DUST FROM LEAVING THE SITE AND ACCUMULATING ON ADJACENT AREAS AS REQUIRED IN THE DUST CONTROL NOTES ON THIS SHEET.
10. PREVENT SEDIMENT LADEN STORM RUN–OFF FROM LEAVING THE SITE OR ENTERING STORM DRAIN OR SANITARY SEWER SYSTEMS AS REQUIRED IN THE EROSION AND SEDIMENTATION CONTROL NOTES ON THIS SHEET.
11. MAINTAIN EXISTING TREES AND PLANTS THAT ARE TO REMAIN AS REQUIRED BY THE TREE AND PLANT PROTECTION NOTES ON THE SHEET.

NOTE:
THESE NOTES ARE INTENDED TO BE USED AS A GENERAL GUIDELINE. THE REFERENCED SOILS REPORT FOR THE PROJECT AND GOVERNING AGENCY GRADING ORDINANCE SHALL SUPERSEDE THESE NOTES. THE SOILS ENGINEER MAY MAKE ON–SITE RECOMMENDATIONS DURING GRADING OPERATIONS.

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#	DATE	ISSUES & REVISIONS	BY
	11-15-19	SITE PERMIT SET	

DRAWN BY: Author
PROJECT NUMBER: 18-010
SHEET ISSUE DATE: 10/14/19
SHEET TITLE:

GRADING SPECIFICATIONS

SHEET NUMBER

C-1.1

SUBMITTAL SET 11-15-19

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DUST CONTROL NOTES:

1. WATER TRUCKS SHALL BE PRESENT AND IN USE AT THE CONSTRUCTION SITE. ALL PORTIONS OF THE SITE SUBJECT TO BLOWING DUST SHALL BE WATERED AS OFTEN AS DEEMED NECESSARY BY THE APPROPRIATE GOVERNMENTAL AGENCY IN ORDER TO ENSURE PROPER CONTROL OF BLOWING DUST FOR THE DURATION OF THE PROJECT.
2. WATERING ASSOCIATED WITH ON-SITE CONSTRUCTION ACTIVITY SHALL TAKE PLACE BETWEEN THE ESTABLISHED CONSTRUCTION HOURS AND SHALL INCLUDE AT LEAST ONE LATE-AFTERNOON WATERING TO MINIMIZE THE EFFECTS OF BLOWING DUST.
3. ALL PUBLIC STREETS AND MEDIANS SOILED OR LITTERED DUE TO THIS CONSTRUCTION ACTIVITY SHALL BE CLEANED AND SWEPT ON A DAILY BASIS DURING THE WORK WEEK, OR AS OFTEN AS DEEMED NECESSARY BY THE OWNER'S ENGINEER/INSPECTOR, TO THE SATISFACTION OF THE CITY'S DEPARTMENT OF PUBLIC WORKS.
4. WATERING ON PUBLIC STREETS OR POWER WASHING SEDIMENTATION ON STREETS SHALL NOT OCCUR, UNLESS CONTRACTOR COLLECTS AND FILTERS THE WASH WATER PRIOR TO ITS ENTERING THE CITY'S STORM DRAIN SYSTEM.
5. ON-SITE PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS SHALL BE SWEPT DAILY WITH A WATER SWEEPER.
6. WHEEL WASHERS SHALL BE INSTALLED AND USED TO CLEAN ALL TRUCKS AND EQUIPMENT LEAVING THE CONSTRUCTION SITE. IF WHEEL WASHERS CANNOT BE INSTALLED, TIRES OR TRACKS OF ALL TRUCKS AND EQUIPMENT SHALL BE WASHED OFF BEFORE LEAVING THE CONSTRUCTION SITE.
7. GRADING OR ANY OTHER OPERATIONS THAT CREATES DUST SHALL BE STOPPED IMMEDIATELY IF DUST AFFECTS ADJACENT PROPERTIES. THE CONTRACTOR SHALL PROVIDE SUFFICIENT DUST CONTROL FOR THE ENTIRE PROJECT SITE IN ACCORDANCE WITH THE PROJECT SWPPP AT ALL TIMES. THE SITE SHALL BE SPRINKLERED AS NECESSARY TO PREVENT DUST NUISANCE. IN THE EVENT THAT THE CONTRACTOR NEGLECTS TO USE ADEQUATE MEASURES TO CONTROL DUST. THE CITY RESERVES THE RIGHT TO TAKE WHATEVER MEASURES ARE NECESSARY TO CONTROL DUST AND CHARGE THE COST TO THE CONTRACTOR.
8. THE PERMITEE IS RESPONSIBLE FOR DUST CONTROL MEASURES AND FOR OBTAINING ALL REQUIRED PERMITS AND APPROVALS. ALL GRADING OPERATIONS SHALL BE SUSPENDED DURING SECOND (OR WORSE) STAGE SMOG ALERTS.
9. ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS SHALL BE COVERED WITH TARPAULINS OR OTHER EFFECTIVE COVERS.

EARTHWORK QUANTITY NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE QUANTITIES OF ALL FORMS OF EARTHWORK ON THIS PROJECT AND BASING THE BID ON THOSE QUANTITIES WITH FULL KNOWLEDGE THAT ADDITIONAL PROCESSES – INCLUDING ENGINEERING – AND QUANTITIES ARE ALSO TO BE INCLUDED IN THE BID PER THE FOLLOWING NOTES.
2. THE CONTRACTOR SHALL MAKE AN INITIAL DETERMINATION OF THE QUANTITIES, BASED ON A DETAILED SITE VISIT. THE TOPOGRAPHIC SURVEY, THE GEOTECHNICAL REPORT, THE FINISH GRADES SHOWN ON THESE DRAWINGS, THE SIZE AND EXTENT OF FOOTINGS, THE PREPARATION AND MATERIALS USED FOR BUILDING SLABS, PAVEMENT SECTIONS, AND THE SIZE AND DEPTH OF UTILITY TRENCHES, INCLUDING THE UTILITY CONTRACTORS ANTICIPATED RE-USE OF EXISTING MATERIAL FOR BACKFILL IF ANY.
3. THE CONTRACTOR SHALL MEET THE GRADES SHOWN ON THE DRAWINGS, ADJUSTING THE AMOUNT OF IMPORT OR EXPORT AS REQUIRED TO DO SO. NO ASSUMPTIONS SHOULD BE MADE ABOUT THE SITE BALANCING. NO ADJUSTMENTS TO THE GRADE SHALL BE PERMITTED UNLESS SPECIFICALLY APPROVED BY THE ARCH/ENGR IN WRITING AFTER THE IMPACT OF ANY GRADE CHANGES (IMPACT TO RAMPS, STAIRS, WORK BY OTHERS, ETC.) HAS BEEN THOROUGHLY REVIEWED BY THE ARCH/ENGR. WHEN PREPARING THE EARTHWORK BIDS, DO NOT ASSUME ANY CHANGES TO THE FINISHED GRADES SHOWN ON THESE DRAWINGS WILL BE PERMITTED.

RECORD DRAWINGS:

1. THE CONTRACTOR SHALL KEEP UP-TO-DATE AND ACCURATE A COMPLETE RECORD SET OF PRINTS OF THE CONTRACT DRAWINGS SHOWING EVERY CHANGE FROM THE ORIGINAL DRAWINGS MADE DURING THE COURSE OF CONSTRUCTION INCLUDING EXACT FINAL LOCATION, ELEVATION, SIZES, MATERIALS, AND DESCRIPTION OF ALL WORK. RECORDS SHALL BE "REDLINED" ON A SET OF CONSTRUCTION PLAN DRAWINGS. PRINTS SHALL BE SUBMITTED TO THE CITY ENGINEER AND DEVELOPERS CIVIL ENGINEER PRIOR TO FINAL ACCEPTANCE FOR REVIEW AND APPROVAL BY THE CITY/TOWN ENGINEER AND DEVELOPER'S CIVIL ENGINEER.

SIGNING & STRIPING NOTES:

1. ALL SIGNING AND STRIPING TO BE PER CALTRANS STANDARDS UNLESS NOTED TO BE PER CITY STANDARDS.
2. ALL SIGNS FOR MOTORIST DIRECTIONS SHALL BE METAL WITH BEADED REFLECTIVE PAINT. SUPPORTING POSTS SHALL BE 2-1/2" DIAMETER GALVANIZED PIPE CAST INTO A 10" DIAMETER BY 24" DEEP CONCRETE FOOTING BOTTOM OF SIGN SHALL BE 72" ABOVE FINISH GRADE, UNLESS NOTED OTHERWISE.
3. WHERE THE FOLLOWING SYMBOLS OCCUR ON THE DRAWINGS PROVIDE THE SPECIFIED SIGNING AND/OR STRIPING.

A. PROVIDE A VAN ACCESSIBLE STALL WITH BOTH PAVEMENT MARKINGS AND FREE-STANDING SIGN AS IDENTIFIED IN DETAIL:

B. PROVIDE CALTRANS TYPE IV(L) (RSP A24A)

C. PROVIDE CALTRANS TYPE IV(R) (RSP A24A)

D. PROVIDE 1' WIDE x 10' LONG WHITE LINE W/ CALTRANS A24D STOP MARKER

E. FIRE LANE – MUST BE PAINTED RED WITH "FIRE LANE NO PARKING". 3" HEIGHT WHITE LETTER EVERY 25'.

F. LOADING AND UNLOADING ZONE – MUST BE PAINTED YELLOW WITH "LOADING / UNLOADING NO PARKING". 3" HEIGHT LETTER EVERY 25'.

4. TRAFFIC SHALL BE MAINTAINED AT ALL TIMES AND SHALL BE PROTECTED WITH ADEQUATE BARRICADES, LIGHTS, SIGNS AND WARNING DEVICES AS PER THE CURRENT STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, MANUAL OF TRAFFIC CONTROLS AND TO THE DIRECTION OF THE CITY'S INSPECTOR.

GENERAL UTILITY SYSTEM NOTES:

1. ALL TRENCHES SHALL BE BACKFILLED PER THE GEOTECHNICAL ENGINEER RECCOMMENDATIONS.
2. CLEAN OUTS, CATCH BASINS AND AREA DRAINS ARE TO BE ACCURATELY LOCATED BY THEIR RELATIONSHIP TO THE BUILDING, FLATWORK, ROOF DRAINS, AND/OR CURB LAYOUT, NOT BY THE LENGTH OF PIPE SPECIFIED IN THE DRAWINGS (WHICH IS APPROXIMATE).
3. CONTRACTOR SHALL STAKE LOCATION OF ABOVE GROUND UTILITY EQUIPMENT (BACKFLOW PREVENTOR, SATELLITE DISH, TRANSFORMER, GAS METER, ETC.) AND MEET WITH OWNER TO REVIEW LOCATION PRIOR TO INSTALLATION. PLANNING DEPARTMENT MUST SPECIFICALLY AGREE WITH LOCATION PRIOR TO PROCEEDING WITH THE INSTALLATION.
4. CONTRACTOR SHALL PREPARE AN ACCURATE COMPOSITE UTILITY PLAN THAT TAKES INTO ACCOUNT THE ACTUAL LOCATION OF EXISTING UTILITIES AS DETERMINED DURING THE DEMOLITION WORK. THE UTILITIES SHOWN ON THE CIVIL DRAWINGS, AND THE SITE POWER, CONDUITS AND LIGHTING SHOWN ON THE ELECTRICAL PLANS. THE FIRE SPRINKLER SYSTEM SHALL BE INCLUDED AS DESIGNED BY THE DESIGN/BUILD UNDERGROUND FIRE SPRINKLER CONTRACTOR.
5. CATHODIC PROTECTION MAY BE REQUIRED ON ALL METALLIC FITTINGS AND ASSEMBLIES THAT ARE IN CONTACT WITH SOIL, IF RECOMMENDED BY THE GEOTECHNICAL REPORT. CONTRACTOR IS RESPONSIBLE TO FULLY ENGINEER AND INSTALL THIS SYSTEM AND COORDINATE ANODE AND TEST STATION LOCATIONS WITH THE OWNER'S PROJECT MANAGER.
6. COMPLETE SYSTEMS: ALL UTILITY SYSTEMS ARE DELINEATED IN A SCHEMATIC MANNER ON THESE PLANS. CONTRACTOR IS TO PROVIDE ALL FITTINGS, ACCESSORIES, AND WORK NECESSARY TO COMPLETE THE UTILITY SYSTEM SO THAT IT IS FULLY FUNCTIONING FOR THE PURPOSE INTENDED.
7. UNDERGROUND UTILITIES OR STRUCTURES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS AND EXTENT BASED UPON RECORD INFORMATION. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE ON THE ACCURACY OR COMPLETENESS FOR THE INFORMATION SHOWN. THE OWNER, BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO, AGREES TO ASSUME LIABILITY AND TO HOLD THE UNDERSIGNED HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE UNDERSIGNED; NOT INDICATED ON THE PUBLIC RECORDS EXAMINED, LOCATED AT VARIANCE WITH THOSE REPORTED OR SHOWN ON RECORDS EXAMINED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES FROM DAMAGE DURING COMPACTION OF ROADWAY SUBGRADE AND PRIOR TO PLACEMENT OF FINAL PAVEMENT SECTIONS.
9. CONTRACTOR SHALL VERIFY ALL EXISTING INVERT ELEVATIONS FOR STORM DRAIN AND SANITARY SEWER CONSTRUCTION PRIOR TO COMMENCEMENT OF ANY WORK. ALL WORK FOR STORM AND SANITARY SEWER INSTALLATION SHALL BEGIN AT THE DOWNSTREAM CONNECTION POINT. THIS WILL ALLOW FOR ANY NECESSARY ADJUSTMENTS TO BE MADE PRIOR TO THE INSTALLATION OF THE ENTIRE LINE. IF THE CONTRACTOR FAILS TO BEGIN AT THE DOWNSTREAM CONNECTION POINT AND WORKS UP STREAM, HE SHALL PROCEED AT HIS OWN RISK AND BE RESPONSIBLE FOR ANY ADJUSTMENTS NECESSARY. CONTRACTOR SHALL VERIFY LOCATION OF SANITARY SEWER LATERAL WITH OWNER PRIOR TO CONSTRUCTION.
10. EXISTING UTILITY CROSSINGS OF THE NEW PIPELINE ARE SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. GAS, WATER AND SEWER, SERVICE LATERALS ARE SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE TYPE, SIZE, LOCATION, AND DEPTH OF ALL EXISTING UTILITIES (BOTH MAINS AND LATERALS) ARE CORRECT AS SHOWN. NO GUARANTEE IS MADE THAT ALL EXISTING UTILITIES (BOTH MAINS AND LATERALS) ARE SHOWN. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING AND SHALL PROTECT ALL EXISTING UTILITIES (BOTH MAINS AND LATERALS) FROM DAMAGE DUE TO HIS OPERATION.
11. CONTRACTOR SHALL UNCOVER AND EXPOSE ALL EXISTING UTILITY AND SEWER LINES WHERE THEY ARE TO BE CROSSED ABOVE OR BELOW BY THE NEW FACILITY BEING CONSTRUCTED IN ORDER TO VERIFY THE GRADE AND TO ENSURE THAT THERE IS SUFFICIENT CLEARANCE.

    VERTICAL SEPARATION REQUIREMENTS:
    A MINIMUM OF SIX (6) INCHES VERTICAL CLEARANCE SHALL BE PROVIDED BETWEEN CROSSING UTILITY PIPES, EXCEPT THAT THE MINIMUM VERTICAL CLEARANCE BETWEEN WATER AND SANITARY SEWER PIPELINES SHALL BE 12 INCHES AND ALL NEW WATER PIPES SHALL BE TYPICALLY INSTALLED TO CROSS ABOVE/OVER EXISTING SANITARY SEWER PIPELINES.

    WHERE NEW WATER PIPELINES ARE REQUIRED TO CROSS UNDER EXISTING AND/OR NEW SANITARY SEWER PIPELINES, THE MINIMUM VERTICAL SEPARATION SHALL BE 12 INCHES. WATER LINE PIPE ENDS SHALL BE INSTALLED NO CLOSER THAN 10' MINIMUM HORIZONTAL DISTANCE FROM CENTERLINE OF UTILITY CROSSINGS WHERE FEASIBLE.

    HORIZONTAL SEPARATION REQUIREMENTS:
12. A MINIMUM HORIZONTAL SEPARATION BETWEEN NEW PIPELINES AND ANY EXISTING UTILITIES SHALL BE 5' FEET EXCEPT THAT THE MINIMUM HORIZONTAL SEPARATION FOR WATER AND SANITARY SEWER PIPELINES SHALL BE 10' MINIMUM, UNLESS OTHERWISE NOTED.

    A MINIMUM HORIZONTAL SEPARATION BETWEEN NEW PIPELINES AND JOINT TRENCH SHALL BE 5 FEET.

    THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING APPROPRIATE UTILITIES AND REQUESTING VERIFICATION OF SERVICE POINTS, FIELD VERIFICATION OF LOCATION, SIZE, DEPTH, ETC. FOR ALL THEIR FACILITIES AND TO COORDINATE WORK SCHEDULES.

GENERAL UTILITY SYSTEM NOTES:

1. THE UNDERGROUND FIRE PROTECTION SYSTEM SHOWN ON THIS DRAWING IS SCHEMATIC AND IS NOT INTENDED TO BE AN INSTALLATION DRAWING. THE UTILITY DRAWING IN THIS SET OF DOCUMENTS SHALL NOT BE USED AS A BASE SHEET FOR SHOP DRAWINGS WITHOUT WRITTEN APPROVAL FROM THE CIVIL ENGINEER.
2. THE UNDERGROUND FIRE PROTECTION SYSTEM INSTALLER SHALL PREPARE SHOP DRAWINGS SHOWING ALL INFORMATION REQUIRED BY THE LOCAL FIRE MARSHALL, INCLUDING LOCATION, TYPE AND NUMBER OF ANGLES, THRUST BLOCKS, VALVES, FIRE HYDRANTS, PIV'S, FDC'S, BACKFLOW ASSEMBLIES, FLEXIBLE CONNECTIONS, VAULTS, AND FLOW CALCULATIONS TO FIRE HYDRANTS, AND SPRINKLER RISERS PER THE FIRE FLOW REQUIRED BY LOCAL FIRE DEPARTMENT.
3. SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL FIRE MARSHALL, THE RATING AGENCY, AND THE CIVIL ENGINEER, ALLOWING TIME TO REVIEW AND ACCEPTANCE, PRIOR TO START OF WORK.
4. THE UNDERGROUND FIRE PROTECTION INSTALLER SHALL OBTAIN ALL APPROVALS AND PERMITS PRIOR TO ORDERING MATERIALS, FABRICATING SYSTEMS OR ANY INSTALLATION.
5. BOTTOM OF BACKFLOW PREVENTOR OR ASSEMBLY TO BE INSTALLED NO GREATER OR LESS THEN 12" FROM FINISH GRADE UNLESS APPROVED BY CIVIL ENGINEER.
6. GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS AND EQUIPMENT LOCATIONS. RISER LOCATIONS ARE SHOWN ON ARCHITECTURAL AND PLUMBING DRAWINGS AND ARE TO BE COORDINATED WITH THE ACTUAL FIELD CONDITIONS.
7. INSTALL MONITORED TAMPER SWITCHES AT ALL PIV'S AND VALVES ON DECTOR CHECK ASSEMBLIES.
8. INSTALL DETECTABLE METALIZED WARNING TAPE APPROXIMATELY 6" -12" BELOW THE SURFACE, BLUE, IMPRINTED WITH "CAUTION– FIRE SERVICE LINE BELOW", CALPICO TYPE 2 OR EQUAL.
9. MIN. 5 FEET CLEARANCE FROM BACK OF CURB TO FH'S, PIV'S, AND FDC'S.
10. UNDERGROUND FIRE PROTECTION SYSTEM INCLUDING HYDRANT ASSEMBLY, P.I.V., F.D.C., FITTING PIPE AND THRUSTBLOCKES TO BE IN ACCORDANCE WITH LOCAL FIRE PROTECTION DISTRICT SPECIFICATIONS, REQUIREMENTS AND NOTES.

WATER NOTES:

1. WHERE WATER LINES HAVE TO CROSS SANITARY SEWER LINES, DO SO AT A 90 DEGREE ANGLE AND WATER LINES SHALL BE MINIMUM OF 12" ABOVE THE TOP OF THE SANITARY SEWER LINES.
2. WATER LINES ARE SHOWN SCHEMATICALLY; CONTRACTOR SHALL IDENTIFY EACH ANGLE AND/ OR BEND THAT MAY BE REQUIRED TO ACCOMPLISH THE INTENDED DESIGN.
3. USE DETECTABLE METALIZED WARNING TAPE APPROXIMATELY 6" BELOW THE SURFACE, TAPE SHALL BE A BRIGHT COLOR AND IMPRINTED WITH "CAUTION–WATER LINE BELOW", CALPICO TYPE 2 OR EQUAL.
4. ALL WATER SERVICE CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY/TOWN OR APPLICABLE WATER DISTRICT STANDARDS. .
5. PUBLIC AND PRIVATE WATER MAIN AND WATER SERVICE LINE 4-INCH THROUGH 12-INCH SHALL BE POLYVINYL CHLORIDE (PVC) AND SHALL MEET AWWA C900, RATED FOR 200 PSI CLASS PIPE WITH EPOXY COATED DUCTILE IRON FITTINGS AND FUSION EPOXY COATED GATE VALVES. ALL JOINTS SHALL FACTORY MANUFACTURED WITH BEL AND SPIGOT ENDS AND RUBBER GASKETS. NONMETALLIC WATER LINES HAVE TRACER WIRE INSTALLED PER CITY/TOWN STANDARDS
6. CONNECTION TO THE EXISTING WATER MAIN SHALL BE APPROVED BY THE CITY/TOWN. THE DEVELOPER SHALL PAY THE ACTUAL COSTS OF CONSTRUCTION. THE CONTRACTOR SHALL PERFORM ALL EXCAVATION PREPARE THE SITE, FURNISH ALL MATERIALS, INSTALL TAPPING TEE VALVE AND ALL THRUST BLOCKS. BACKFILL, RESTORE THE SURFACE, AND CLEANUP. THE CITY WILL PROVIDE THE DEVELOPER WITH A LIST OF APPROVED CONTRACTORS FOR MAKING WET TAPS. NONMETALLIC WATER LINES SHALL HAVE TRACER WIRES INSTALLED.
7. ALL WATER LINES 3" OR SMALLER SHALL BE TYPE K COPPER WITH SILVER BRAZED JOINTS. CONTRACTOR TO VERIFY PRESSURES FROM EXISTING LINES ARE ADEQUATE TO SERVICE BUILDINGS AS SPECIFIED BY THE PLUMBING PLANS.
8. ALL WATER LINES SHALL BE INSTALLED WITH 3' MINIMUM COVER.
9. ALL WATER VALVES SHALL BE PER CITY\WATER DISTRICT STANDARD.
10. ALL TEMPORARY AND/OR PERMANENT AIR-RELEASE AND BLOW-OFF VALVES SHALL BE PER CITY STANDARD AND AS DIRECTED BY THE CITY ENGINEER.
11. CONCRETE THRUST BLOCKS SHALL BE INSTALLED AT ALL TEES, CROSSES, BENDS (HORIZONTAL AND VERTICAL), AT SIZE CHANGES AND AT FIRE HYDRANTS PER CITY STANDARD. AWWA C600, SECTION 3.8 UNLESS NOTED OTHERWISE.
12. MECHANICALLY RESTRAINED JOINTS SHALL BE INSTALLED AT VERTICAL BENDS IN ACCORDANCE WITH CITY STANDARDS AND AS APPROVED BY THE CITY ENGINEER.
13. ALL WATER VALVES SHALL BE CLUSTERED, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER OR WATER DISTRICT.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTING AND DELIVERING WATER SAMPLES FOR ANALYSIS TO A CITY APPROVED LAB.
15. ALL ON AND OFF-SITE LANDSCAPE IRRIGATION SYSTEMS SHALL BE IN ACCORDANCE WITH THE LANDSCAPE ARCHITECTURAL PLANS AND SPECIFICATIONS AND SHALL BE CONNECTED TO THE EXISTING AND/OR NEW WATER SYSTEM AND METERED ACCORDINGLY.
16. INSTALL CITY/TOWN APPROVED PRESSURE REGULATOR AND REDUCED BACKFLOW PREVENTOR ON WATER LINE AT ENTRANCE TO BUILDING REFERENCE PLUMBING PLANS FOR MORE DETAIL.

SANITARY SEWER NOTES:

1. INSTALL DETECTABLE METALIZED WARNING TAPE APPROXIMATELY 6"-12" BELOW THE SERVICE IN NON-PAVED AREAS, AND AT THE BOTTOM OF BASEROCK FOR PAVED AREAS. GREEN IMPRINTED WITH "CAUTION– SANITARY SEWER LINE BELOW", CALPICO TYPE 2 OR EQUAL.
2. ALL SEWER WORK SHALL BE IN CONFORMANCE WITH THE CITY/TOWN OR APPROPRIATE SANITARY SEWER DISTRICT.
3. PUBLIC AND PRIVATE SANITARY SEWER MAIN AND SERVICE LINE 4-INCH THROUGH 8-INCH SHALL BE POLYVINYL CHLORIDE (PVC) SDR 26 SEWER PIPE.
4. WHERE CONNECTION IS TO BE MADE TO AN EXISTING SEWER OR STRUCTURE, SAID EXISTING SEWER OR STRUCTURE SHALL BE UNCOVERED AND CHECKED FOR LOCATION AND ELEVATION PRIOR TO STAKING NEW SEWER DEPTH AND LOCATION. ANY DISCREPANCY BETWEEN THE PLANS AND THE FIELD INFORMATION SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
5. MINIMUM SLOPE FOR SITE SANITARY SEWER PIPES SHALL BE CURRENT UPC REQUIREMENTS:
    - 4" 0 2%
    - 6" 0 1%
    - 8" & LARGER 0 0.5%
6. ALL LATERALS SHALL HAVE A CLEANOUT AT THE FACE OF THE BUILDING AND AT THE PROPERTY LINE, AS SHOWN ON THE PLANS AND PER THE CITY/TOWN STANDARDS OR APPROPRIATE SANITARY SEWER DISTRICT.

TREE/PLANT PROTECTION NOTES:

1. PRIOR TO BEGINNING CONSTRUCTION ON SITE, CONTRACTOR SHALL IDENTIFY, CONFIRM WITH OWNER AND PROTECT EXISTING TREES AND PLANTS DESIGNED AS TO REMAIN.
2. PROVIDE 6 FOOT TALL TREE PROTECTION FENCE WITH DISTINCTIVE MARKING VISIBLE TO CONSTRUCTION EQUIPMENT, ENCLOSING DRIP LINES OF TREES DESIGNED TO REMAIN.
3. WORK REQUIRED WITHIN FENCE LINE SHALL BE HELD TO A MINIMUM, AVOID USE OF HEAVY EQUIPMENT WITHIN FENCED AREA AND DO NOT PARK ANY VEHICLES UNDER DRIP LINE OF TREES. DO NOT STORE EQUIPMENT OR MATERIALS WITHIN FENCE LINE.
4. PRIOR TO REMOVING ROOTS AND BRANCHES LARGER THAN 2" IN DIAMETER OF TREES OR PLANTS THAT IS TO REMAIN, CONSULT WITH THE OWNER'S PROJECT MANAGER.
5. ANY GRADE CHANGES GREATER THAN 6" WITHIN THE DRIPLINE OF EXISTING TREES SHALL NOT BE MADE WITHOUT FIRST CONSULTING THE LANDSCAPE ARCHITECT / CIVIL ENGINEER.
6. PROTECT EXISTING TREES TO REMAIN FROM SPILLED CHEMICALS, FUEL OIL, MOTOR OIL, GASOLINE AND ALL OTHER CHEMICALLY INJURIOUS MATERIALS; AS WELL AS FROM PUDDLING OR CONTINUOUSLY RUNNING WATER. SHOULD A SPILL OCCUR, STOP WORK IN THAT AREA AND CONTACT THE CITY'S ENGINEER / INSPECTOR IMMEDIATELY. CONTRACTOR SHALL BE RESPONSIBLE TO MITIGATE DAMAGE FROM SPILLED MATERIAL AS WELL AS MATERIAL CLEAN UP.
7. PROVIDE TEMPORARY IRRIGATION TO ALL TREES AND PLANTS THAT ARE IN OR ADJACENT TO CONSTRUCTION AREAS WHERE EXISTING IRRIGATION SYSTEMS MAY BE AFFECTED BY THE CONSTRUCTION. ALSO PROVIDE TEMPORARY IRRIGATION TO RELOCATE TREES.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR ONGOING MAINTENANCE OF ALL TREES AND PLANTS DESIGNED TO REMAIN AND FOR MAINTENANCE OF RELOCATED TREES STOCKPILED DURING CONSTRUCTION. CONTRACTOR WILL BE REQUIRED TO REPLACE TREES OR PLANTS THAT DIE DUE TO LACK OF MAINTENANCE.
    WORK INCLUDING CLEARING.

HORIZONTAL CONTROL NOTES:

1. CONTRACTOR SHALL LAYOUT THE CONTROL FOR THE SITE AS SPECIFIED ON HORIZONTAL CONTROL SHEET. CONTRACTOR SHALL CLEARLY SET AND MARK EACH OF THE CONTROL POINTS. PROTECTING THE POINTS THROUGHOUT CONSTRUCTION.
2. ALL DIMENSIONS ON THE PLANS ARE IN FEET OR DECIMALS THERE OF UNLESS SPECIFICALLY CALLED OUT AS FEET AND INCHES.
3. ALL BUILDINGS, DRIVEWAYS AND PARKING LOTS ARE TO BE PARALLEL AND RIGHT ANGLES TO THE BASIS OF BEARINGS UNLESS IDENTIFIED OR CLEARLY SHOWN AS A DIFFERENT ANGLE.
4. ALL RETURN RADII AND CURB DATA ARE TO FACE OF CURB, UNLESS OTHERWISE SHOWN OR INDICATED.

PAVEMENT SECTION:

1. SEE SHEET C-3 FOR ALL PAVEMENT SECTIONS.
2. SEE STRUCTURAL DRAWINGS FOR BUILDING SLAB SECTIONS AND PAD PREPARATIONS.
3. SEE GRADING AND DETAIL SHEETS FOR FLATWORK SECTIONS AND BASE REQUIREMENTS.
4. EXISTING PAVEMENT SHALL BE TACK COATED PRIOR TO CONSTRUCTING NEW PAVEMENT.
5. THE FINAL OR SURFACE LAYER OF ASPHALT CONCRETE SHALL NOT BE PLACED UNTIL ALL ON-SITE IMPROVEMENTS HAVE BEEN COMPLETED, INCLUDING ALL GRADING, AND ALL UNACCEPTABLE CONCRETE WORK HAS BEEN REMOVED AND REPLACED. UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER AND/OR DEVELOPER'S CITY ENGINEER.
6. ALL PAVING SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF CALTRAN STANDARD SPECIFICATIONS.

<u>NOTE:</u>
THESE NOTES ARE INTENDED TO BE USED AS A GENERAL GUIDELINE. THE REFERENCED SOILS REPORT FOR THE PROJECT AND GOVERNING AGENCY GRADING ORDINANCE SHALL SUPERSEDE THESE NOTES. THE SOILS ENGINEER MAY MAKE ON-SITE RECOMMENDATIONS DURING GRADING OPERATIONS.

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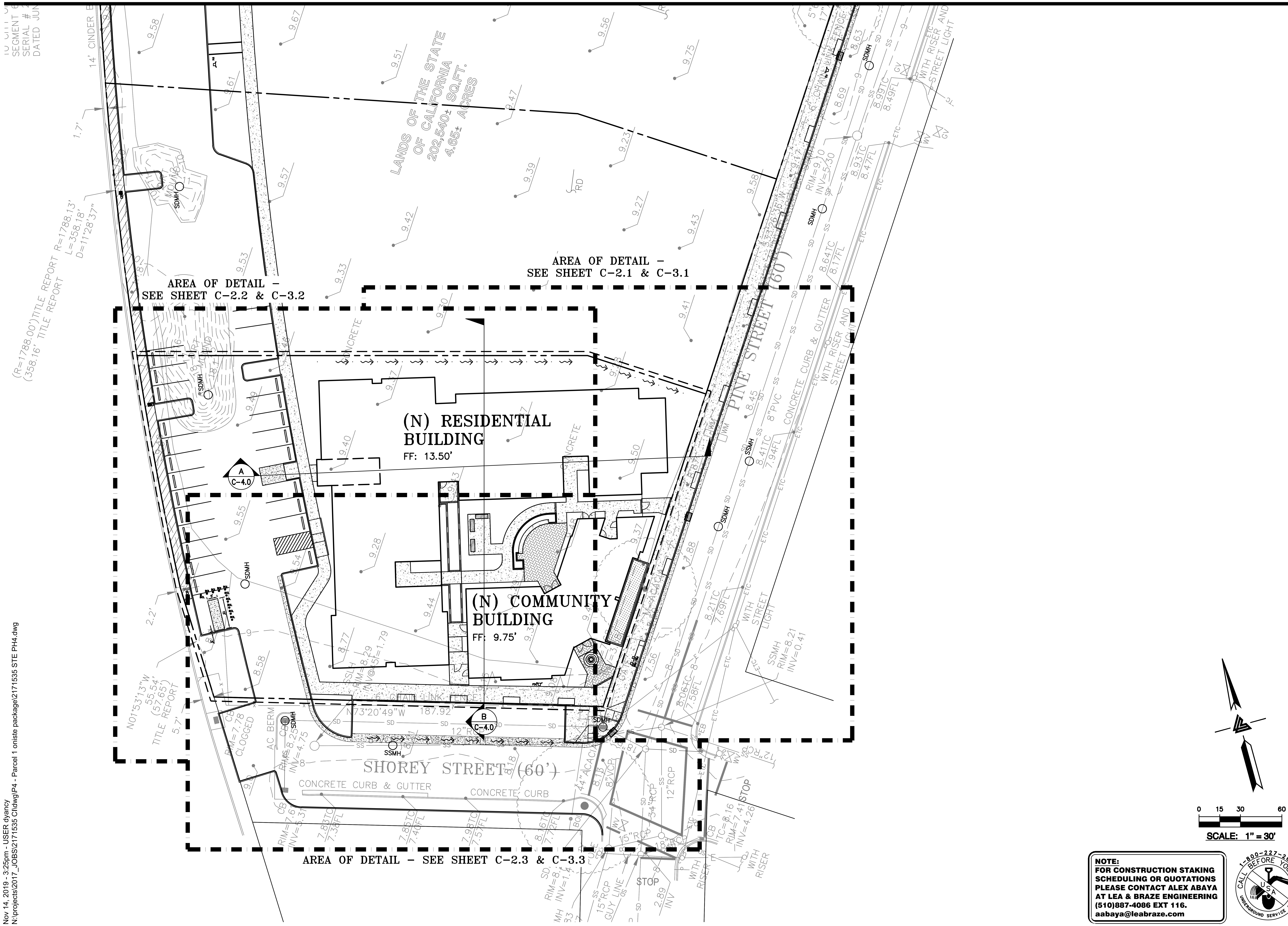
DRAWN BY: Author
PROJECT NUMBER: 18-010
SHEET ISSUE DATE: 10/14/19
SHEET TITLE:

GRADING SPECIFICATIONS

SHEET NUMBER
C-1.2



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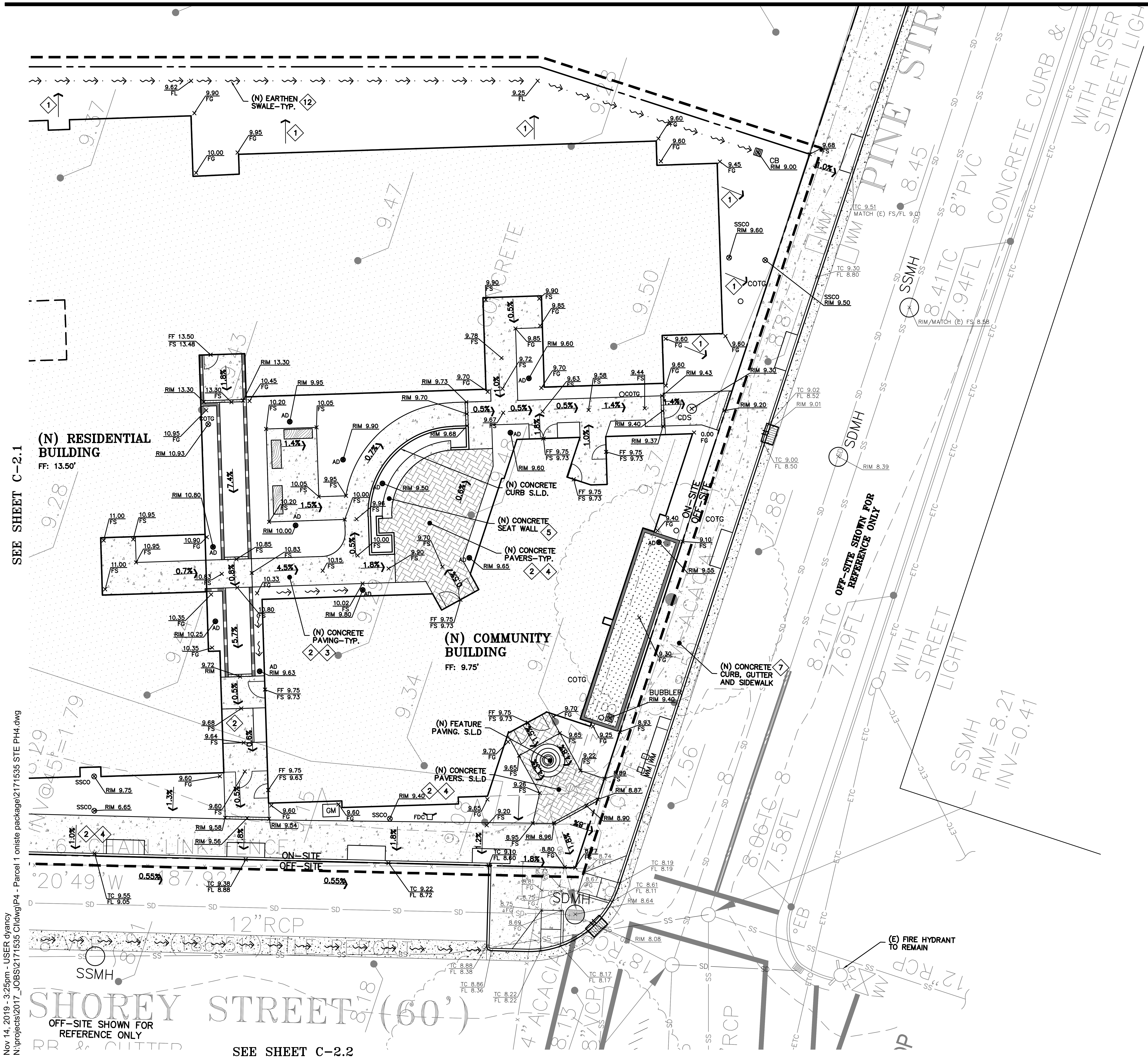
GRADING AND DRAINAGE PLAN (OVERALL)

SHEET NUMBER

C-2.0



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FLATWORK & GRADING KEYNOTES ◇1 TO ◇12

1. FINISHED GRADES AT BUILDING PERIMETER SHALL BE SLOPED AT A MINIMUM OF 5% FOR THE FIRST 10' AWAY FROM THE BUILDING
2. PROVIDE 2% (1% MIN.) SLOPE ACROSS FLAT WORK AND/OR PAVING PER CBC 2304.11.2. SLOPE TOWARDS POSITIVE DRAINAGE AS SHOWN ON PLAN.
3. (N) CONCRETE PAVING. S.L.D.
4. (N) CONCRETE PAVERS. S.L.D.
5. (N) CONCRETE SEAT WALL. S.L.D.
6. (N) 6" VERTICAL CURB. SEE DETAIL 5 ON SHEET C-6.0..
7. (N) CONCRETE CITY CURB, GUTTER & SIDEWALK. SEE CITY DETAIL S-1 ON SHEET C-6.1.
8. (N) ADA CURB RAMP PER CALTRANS STANDARD PLAN 2010. RSPA88A.
9. (N) ASPHALT CONCRETE (AC) PRIVATE DRIVEWAY.
10. (N) PARKING STALL PER CITY STANDARD DETAIL.
11. (N) HC STALLS PER ADA STANDARDS. 2% MAX CROSS SLOPE IN ALL DIRECTIONS.
12. CONSTRUCT (N) EARTHEN SWALE SLOPED AT 1% MINIMUM TOWARDS POSITIVE OUTFALL. SEE DETAIL 1 ON SHEET C-6.0.

LEGEND

⬚	(N) CONCRETE PAVING
⬚	(N) BUILDING
▨	(N) CONCRETE PAVERS
▨	(N) FLOW THROUGH PLANTER (PER C.3 STORM WATER)
⬚	(N) BIO-RETENTION AREA (PER C.3 STORM WATER)

0 5 10 20
SCALE: 1" = 10'

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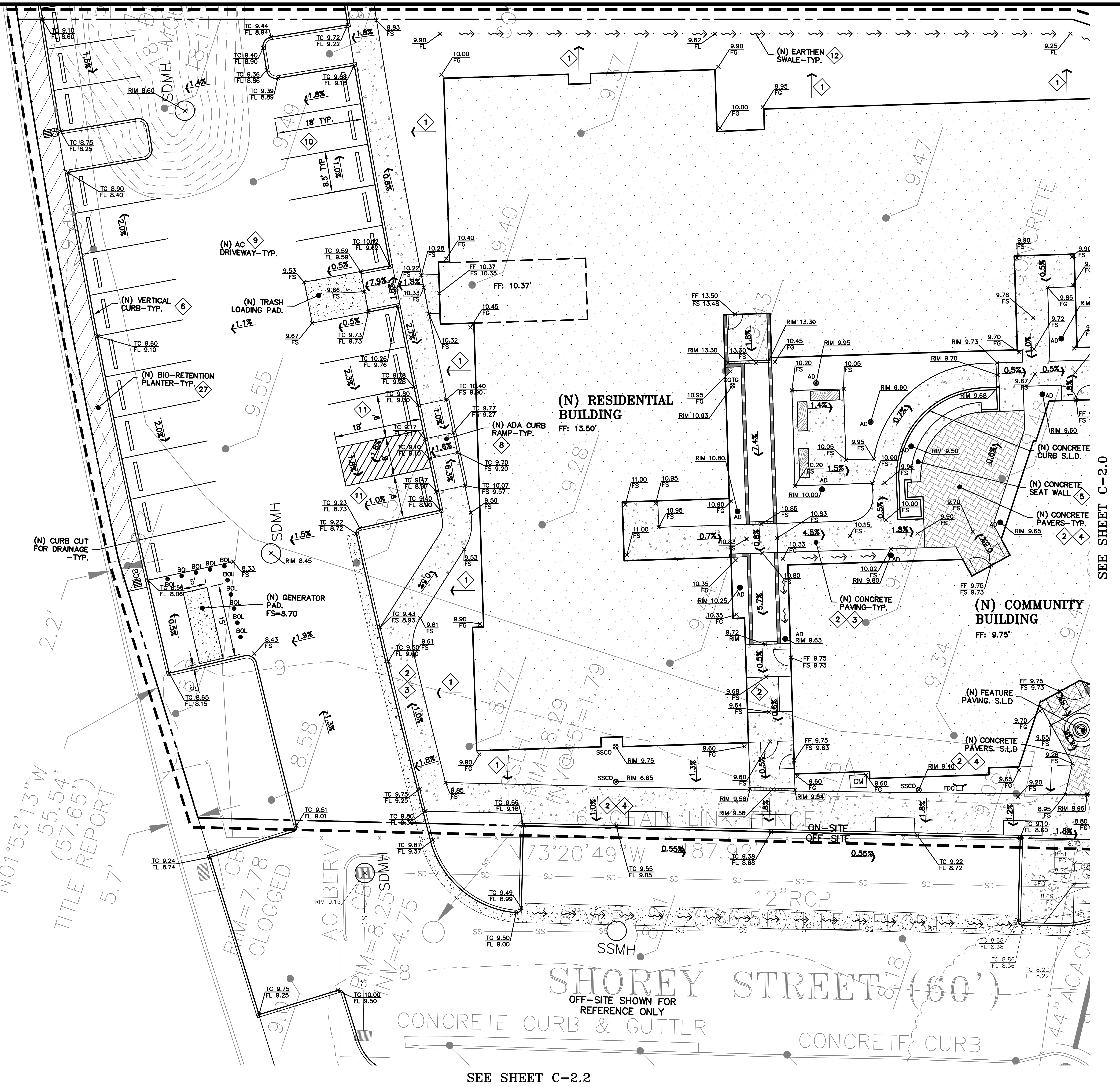
SHEET NUMBER
C-2.1



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FLATWORK & GRADING KEYNOTES ◇1 TO ◇12

- ◇1 FINISHED GRADES AT BUILDING PERIMETER SHALL BE SLOPED AT A MINIMUM OF 5% FOR THE FIRST 10' AWAY FROM THE BUILDING
- ◇2 PROVIDE 2% (1% MIN.) SLOPE ACROSS FLAT WORK AND/OR PAVING PER CBC 2304.11.2. SLOPE TOWARDS POSITIVE DRAINAGE AS SHOWN ON PLAN.
- ◇3 (N) CONCRETE PAVING. S.L.D.
- ◇4 (N) CONCRETE PAVERS. S.L.D.
- ◇5 (N) CONCRETE SEAT WALL. S.L.D.
- ◇6 (N) 6" VERTICAL CURB. SEE DETAIL 5 ON SHEET C–6.0..
- ◇7 (N) CONCRETE CITY CURB, GUTTER & SIDEWALK. SEE CITY DETAIL S–1 ON SHEET C–6.1.
- ◇8 (N) ADA CURB RAMP PER CALTRANS STANDARD PLAN 2010. RSPA88A.
- ◇9 (N) ASPHALT CONCRETE (AC) PRIVATE DRIVEWAY.
- ◇10 (N) PARKING STALL PER CITY STANDARD DETAIL.
- ◇11 (N) HC STALLS PER ADA STANDARDS. 2% MAX CROSS SLOPE IN ALL DIRECTIONS.
- ◇12 CONSTRUCT (N) EARTHEN SWALE SLOPED AT 1% MINIMUM TOWARDS POSITIVE OUTFALL. SEE DETAIL 1 ON SHEET C–6.0.

LEGEND

☐	(N) CONCRETE PAVING
░	(N) BUILDING
▨	(N) CONCRETE PAVERS
▧	(N) FLOW THROUGH PLANTER (PER C.3 STORM WATER)
░	(N) BIO-RETENTION AREA (PER C.3 STORM WATER)

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SCALE: 1" = 10'

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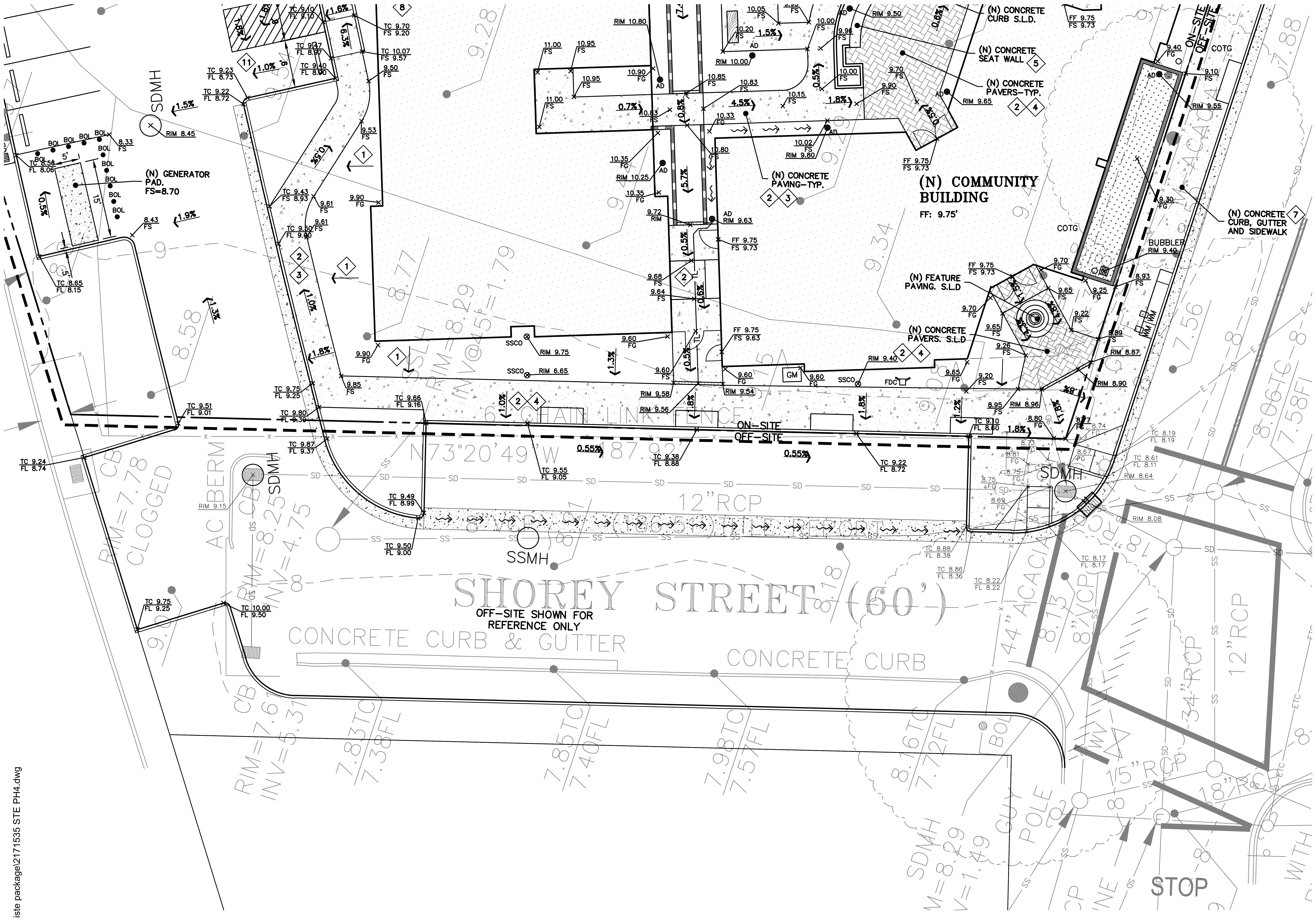
GRADING & DRAINAGE PLAN (AREA OF DETAIL)

SHEET NUMBER
C-2.2

SEE SHEET C-2.1 SEE SHEET C-2.0



FLATWORK & GRADING KEYNOTES ◇1 TO ◇12

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3. (N) CONCRETE PAVING. S.L.D.
4. (N) CONCRETE PAVERS. S.L.D.
5. (N) CONCRETE SEAT WALL. S.L.D.
6. (N) 6" VERTICAL CURB. SEE DETAIL 5 ON SHEET C-6.0..
7. (N) CONCRETE CITY CURB, GUTTER & SIDEWALK. SEE CITY DETAIL S-1 ON SHEET C-6.1.
8. (N) ADA CURB RAMP PER CALTRANS STANDARD PLAN 2010. RSPA88A.
9. (N) ASPHALT CONCRETE (AC) PRIVATE DRIVEWAY.
10. (N) PARKING STALL PER CITY STANDARD DETAIL.
11. (N) HC STALLS PER ADA STANDARDS. 2% MAX CROSS SLOPE IN ALL DIRECTIONS.
12. CONSTRUCT (N) EARTHEN SWALE SLOPED AT 1% MINIMUM TOWARDS POSITIVE OUTFALL. SEE DETAIL 1 ON SHEET C-6.0.

LEGEND

▨	(N) CONCRETE PAVING
▨	(N) BUILDING
▨	(N) CONCRETE PAVERS
▨	(N) FLOW THROUGH PLANTER (PER C.3 STORM WATER)
▨	(N) BIO-RETENTION AREA (PER C.3 STORM WATER)

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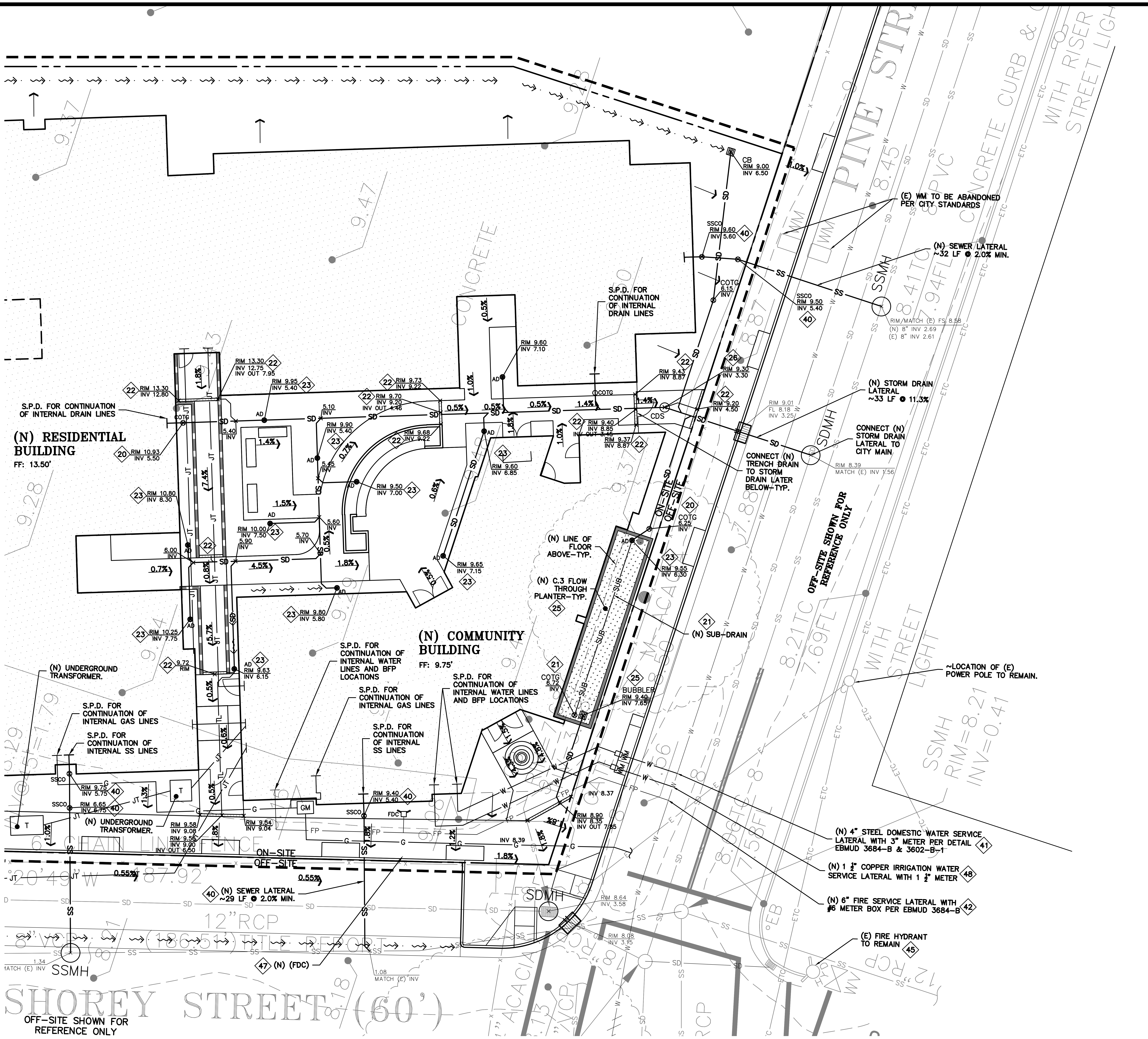
C-2.3

SEE SHEET C-3.1



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SEE SHEET C-3.2

STORM DRAIN KEYNOTES ⟨20⟩ TO ⟨28⟩

⟨20⟩ INSTALL (N) ON-SITE STORM DRAIN SYSTEM. USE MINIMUM 6" PVC (SDR 35) OR HDPE (ADS N-12 W/ SMOOTH INTERIOR WALLS). MAINTAIN 24" MINIMUM COVER AND SLOPED AT 1% MINIMUM AT ALL TIMES UNLESS OTHERWISE NOTED. PROVIDE CLEAN OUT TO GRADE AT MAJOR CHANGES IN DIRECTION. AVOID USING 90° BENDS AND INSTEAD USE (2) 45° BENDS AND WYE CONNECTIONS. SEE DETAIL 4 ON SHEET C-6.0.

⟨21⟩ INSTALL (N) SUBDRAIN. USE PERFORATED 4" PVC (SDR-35) WITH HOLES DOWN AND SLOPED AT 1% MINIMUM SURROUND WITH 3/4" DRAIN ROCK WRAPPED IN FILTER FABRIC (MIRAFI 140N). MIRADRAIN OR OTHER LEA & BRAZE PREAPPROVED DRAINAGE SYSTEM MAY ALSO BE USED. AVOID USING 90° BENDS AND INSTEAD USE (2) 45° BENDS AND WYE CONNECTIONS. PROVIDE CLEANOUT TO GRADE AT MAJOR CHANGES IN DIRECTION AND AT 100' MAXIMUM INTERVALS. SUBDRAIN SHALL REMAIN A DEDICATED SEPARATE SYSTEM UNTIL IT CONNECTS TO STORM DRAIN SYSTEM OR OUTFALL AS SHOWN. SEE DETAIL 4 ON C-6.0.

⟨22⟩ (N) SLOT DRAINS SHALL BE FILCOTEN PAVE SLOT TOP NW100 (4"). CONNECT TO NEAREST STORM DRAIN LINE. USE 6" PVC (SDR-35) OR HDPE (ADS N-12 W/ SMOOTH INTERIOR WALLS). SEE SHEET C-5.1.

⟨23⟩ INSTALL (N) 4" DIAMETER BRASS ATRIUM GRATE IN LANDSCAPE OR PLANTER AREAS (NDS PART 78B OR 90B FOR 6" DIAMETER BRASS ATRIUM GRATE). DO NOT USE PLASTIC GRATES. SEE DETAIL 2 ON C-6.0.

⟨24⟩ INSTALL (N) "CHRISTY V-24" CATCH BASIN W/ CONCRETE BOTTOM FLUSH W/ LOWEST OUTGOING INVERT. PLACE BOX ON 6" CLASS 2 AGGREGATE BASE MATERIAL. SEE DETAIL 3 ON SHEET C-6.0.

⟨25⟩ INSTALL (N) BUBBLER IN C.3 STORMWATER BIO-RETENTION PLANTER. SEE DETAIL 4 ON C-5.1.

⟨26⟩ (N) STORMWATER MECHANICAL UNIT (VSHS TYPTBL). SEE STORMWATER TREATMENT PLAN AND DETAILS, ON SHEETS C-5.0 & C-5.1.

⟨27⟩ (N) C.3 STORMWATER BIO-RETENTION PLANTER FOR (N) PRIVATE STREET & PARKING IMPROVEMENTS. SEE DETAIL 4 ON SHEET C-5.1.

⟨28⟩ (N) C.3 STORMWATER FLOW THROUGH PLANTERS. PROVIDE DEEPENED FOUNDATION ADJACENT FOR (N) BUILDING ADJACENT TO PLANTER. SEE DETAIL 2 ON SHEET C-5.1.

UTILITIES KEYNOTES ⟨40⟩ TO ⟨48⟩

⟨40⟩ INSTALL (N) SANITARY SEWER LATERALS. USE 8" PVC (SDR-26) SLOPED AT 2% MINIMUM. CONNECT TO (E) SEWER MAIN AS SHOWN. PROVIDE CLEANOUT TO GRADE AT BUILDING AND BEHIND PROPERTY LINE AND AT MAJOR CHANGES IN DIRECTION AS SHOWN. REUSE (E) LATERAL IF POSSIBLE. SEE DETAIL 6 ON SHEET C-6.0. CONNECT PER DISTRICT STANDARDS.

⟨41⟩ INSTALL (N) 4" DOMESTIC WATER SERVICE WITH BACK FLOW PREVENTION DEVICE. CONNECT PER DISTRICT STANDARDS.

⟨42⟩ INSTALL (N) 6" MINIMUM FIRE SERVICE LINE TO. DESIGN BY OTHERS OR AS DIRECTED BY FIRE SPRINKLER DESIGNER. CONNECT PER DISTRICT STANDARDS.

⟨43⟩ INSTALL (N) JOINT TRENCH FOR SERVICES INCLUDING GAS, CATV & ELECTRIC FROM NEAREST POINT OF CONNECTION. DESIGN BY OTHERS.

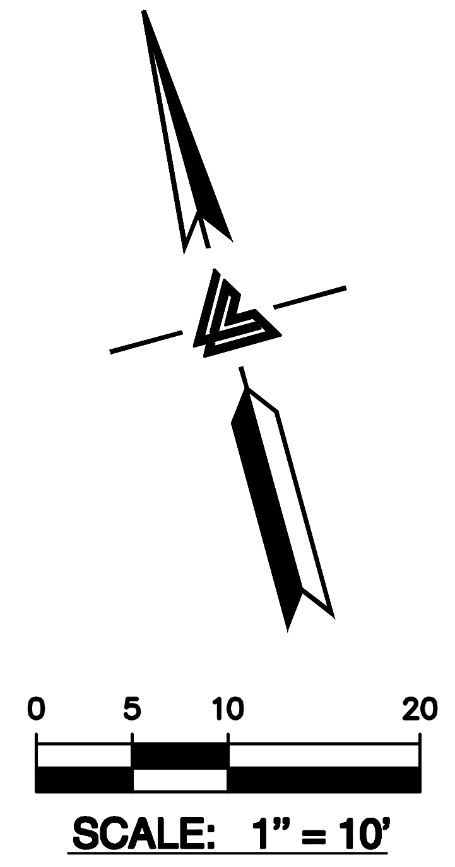
⟨44⟩ CONTRACTOR TO POTHOLE AND VERIFY POINT OF CONNECTIONS AND INVERT ELEVATIONS AS NESSESARY. CONTRACTOR TO POTHOLE & CONFIRM LOCATIONS & DEPTHS OF (E) UTILITIES PRIOR TO CONSTRUCTION & DOCUMENT INFORMATION FOR POTENTIAL CONFLICTS W/ PROPOSED LATERALS. SEE POTHOLING EXHIBIT, SHEET EX-1.

⟨45⟩ (E) FIRE HYDRANT TO REMAIN. CONTRACTOR TO PROTECT IN PLACE DURING CONSTRUCTION.

⟨46⟩ INSTALL (N) FIRE HYDRANT PER FIRE DEPARTMENT STANDARDS.

⟨47⟩ (N) FIRE DEPARTMENT CONNECTION (FDC) TO BE INSTALLED. REFER TO FIRE SPRINKLER PLANS FOR POINT OF CONNECTION AND BUILDING DESIGN.

⟨48⟩ INSTALL (N) 1 ½" COPPER IRRIGATION WATER SERVICE WITH 1 ½" METER. CONNECT PER DISTRICT STANDARDS.



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PROJECT NUMBER: 18-010
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UTILITY PLAN (AREA OF DETAIL)

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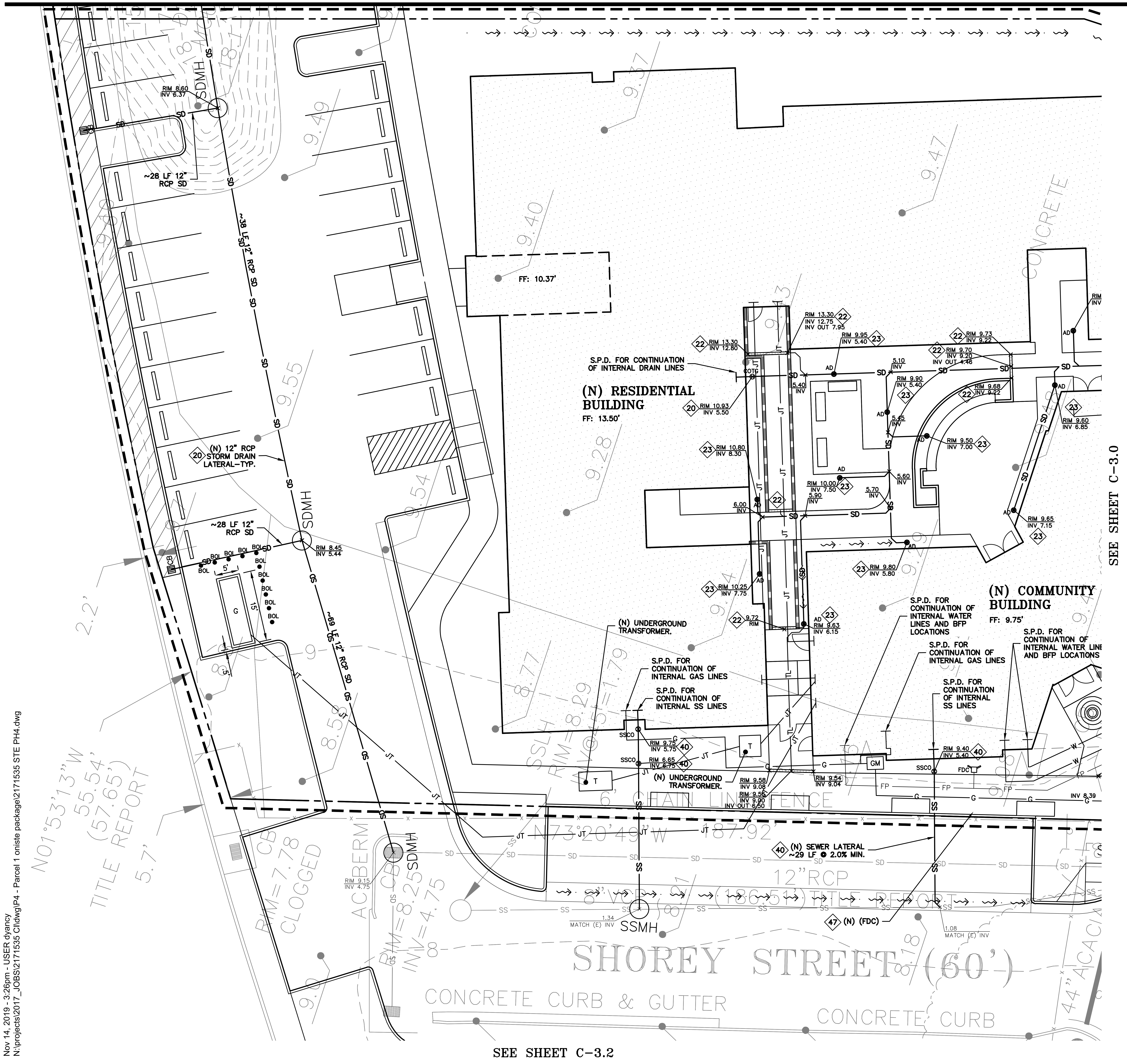
C-3.1



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STORM DRAIN KEYNOTES ⟨20⟩ TO ⟨28⟩

⟨20⟩ INSTALL (N) ON-SITE STORM DRAIN SYSTEM. USE MINIMUM 6" PVC (SDR 35) OR HDPE (ADS N-12 W/ SMOOTH INTERIOR WALLS). MAINTAIN 24" MINIMUM COVER AND SLOPED AT 1% MINIMUM AT ALL TIMES UNLESS OTHERWISE NOTED. PROVIDE CLEAN OUT TO GRADE AT MAJOR CHANGES IN DIRECTION. AVOID USING 90° BENDS AND INSTEAD USE (2) 45° BENDS AND WYE CONNECTIONS. SEE DETAIL 4 ON SHEET C-6.0.

⟨21⟩ INSTALL (N) SUBDRAIN. USE PERFORATED 4" PVC (SDR-35) WITH HOLES DOWN AND SLOPED AT 1% MINIMUM SURROUND WITH 3/4" DRAIN ROCK WRAPPED IN FILTER FABRIC (MIRAFI 140N). MIRADRAIN OR OTHER LEA & BRAZE PREAPPROVED DRAINAGE SYSTEM MAY ALSO BE USED. AVOID USING 90° BENDS AND INSTEAD USE (2) 45° BENDS AND WYE CONNECTIONS. PROVIDE CLEANOUT TO GRADE AT MAJOR CHANGES IN DIRECTION AND AT 100' MAXIMUM INTERVALS. SUBDRAIN SHALL REMAIN A DEDICATED SEPARATE SYSTEM UNTIL IT CONNECTS TO STORM DRAIN SYSTEM OR OUTFALL AS SHOWN. SEE DETAIL 4 ON C-6.0.

⟨22⟩ (N) SLOT DRAINS SHALL BE FILCOTEN PAVE SLOT TOP NW100 (4"). CONNECT TO NEAREST STORM DRAIN LINE. USE 6" PVC (SDR-35) OR HDPE (ADS N-12 W/ SMOOTH INTERIOR WALLS). SEE SHEET C-5.1.

⟨23⟩ INSTALL (N) 4" DIAMETER BRASS ATRIUM GRATE IN LANDSCAPE OR PLANTER AREAS (NDS PART 78B OR 90B FOR 6" DIAMETER BRASS ATRIUM GRATE). DO NOT USE PLASTIC GRATES. SEE DETAIL 2 ON C-6.0.

⟨24⟩ INSTALL (N) "CHRISTY V-24" CATCH BASIN W/ CONCRETE BOTTOM FLUSH W/ LOWEST OUTGOING INVERT. PLACE BOX ON 6" CLASS 2 AGGREGATE BASE MATERIAL. SEE DETAIL 3 ON SHEET C-6.0.

⟨25⟩ INSTALL (N) BUBBLER IN C.3 STORMWATER BIO-RETENTION PLANTER. SEE DETAIL 4 ON C-5.1.

⟨26⟩ (N) STORMWATER MECHANICAL UNIT (VSHS TYPTBL). SEE STORMWATER TREATMENT PLAN AND DETAILS, ON SHEETS C-5.0 & C-5.1.

⟨27⟩ (N) C.3 STORMWATER BIO-RETENTION PLANTER FOR (N) PRIVATE STREET & PARKING IMPROVEMENTS. SEE DETAIL 4 ON SHEET C-5.1.

⟨28⟩ (N) C.3 STORMWATER FLOW THROUGH PLANTERS. PROVIDE DEEPENED FOUNDATION ADJACENT FOR (N) BUILDING ADJACENT TO PLANTER. SEE DETAIL 2 ON SHEET C-5.1.

UTILITIES KEYNOTES ⟨40⟩ TO ⟨48⟩

⟨40⟩ INSTALL (N) SANITARY SEWER LATERALS. USE 8" PVC (SDR-26) SLOPED AT 2% MINIMUM. CONNECT TO (E) SEWER MAIN AS SHOWN. PROVIDE CLEANOUT TO GRADE AT BUILDING AND BEHIND PROPERTY LINE AND AT MAJOR CHANGES IN DIRECTION AS SHOWN. REUSE (E) LATERAL IF POSSIBLE. SEE DETAIL 6 ON SHEET C-6.0. CONNECT PER DISTRICT STANDARDS.

⟨41⟩ INSTALL (N) 4" DOMESTIC WATER SERVICE WITH BACK FLOW PREVENTION DEVICE. CONNECT PER DISTRICT STANDARDS.

⟨42⟩ INSTALL (N) 6" MINIMUM FIRE SERVICE LINE TO. DESIGN BY OTHERS OR AS DIRECTED BY FIRE SPRINKLER DESIGNER. CONNECT PER DISTRICT STANDARDS.

⟨43⟩ INSTALL (N) JOINT TRENCH FOR SERVICES INCLUDING GAS, CATV & ELECTRIC FROM NEAREST POINT OF CONNECTION. DESIGN BY OTHERS.

⟨44⟩ CONTRACTOR TO POTHOLE AND VERIFY POINT OF CONNECTIONS AND INVERT ELEVATIONS AS NESSESARY. CONTRACTOR TO POTHOLE & CONFIRM LOCATIONS & DEPTHS OF (E) UTILITIES PRIOR TO CONSTRUCTION & DOCUMENT INFORMATION FOR POTENTIAL CONFLICTS W/ PROPOSED LATERALS. SEE POTHOLING EXHIBIT, SHEET EX-1.

⟨45⟩ (E) FIRE HYDRANT TO REMAIN. CONTRACTOR TO PROTECT IN PLACE DURING CONSTRUCTION.

⟨46⟩ INSTALL (N) FIRE HYDRANT PER FIRE DEPARTMENT STANDARDS.

⟨47⟩ (N) FIRE DEPARTMENT CONNECTION (FDC) TO BE INSTALLED. REFER TO FIRE SPRINKLER PLANS FOR POINT OF CONNECTION AND BUILDING DESIGN.

⟨48⟩ INSTALL (N) 1 ½" COPPER IRRIGATION WATER SERVICE WITH 1 ½" METER. CONNECT PER DISTRICT STANDARDS.

0 5 10 20

SCALE: 1" = 10'

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UTILITY PLAN (AREA OF DETAIL)

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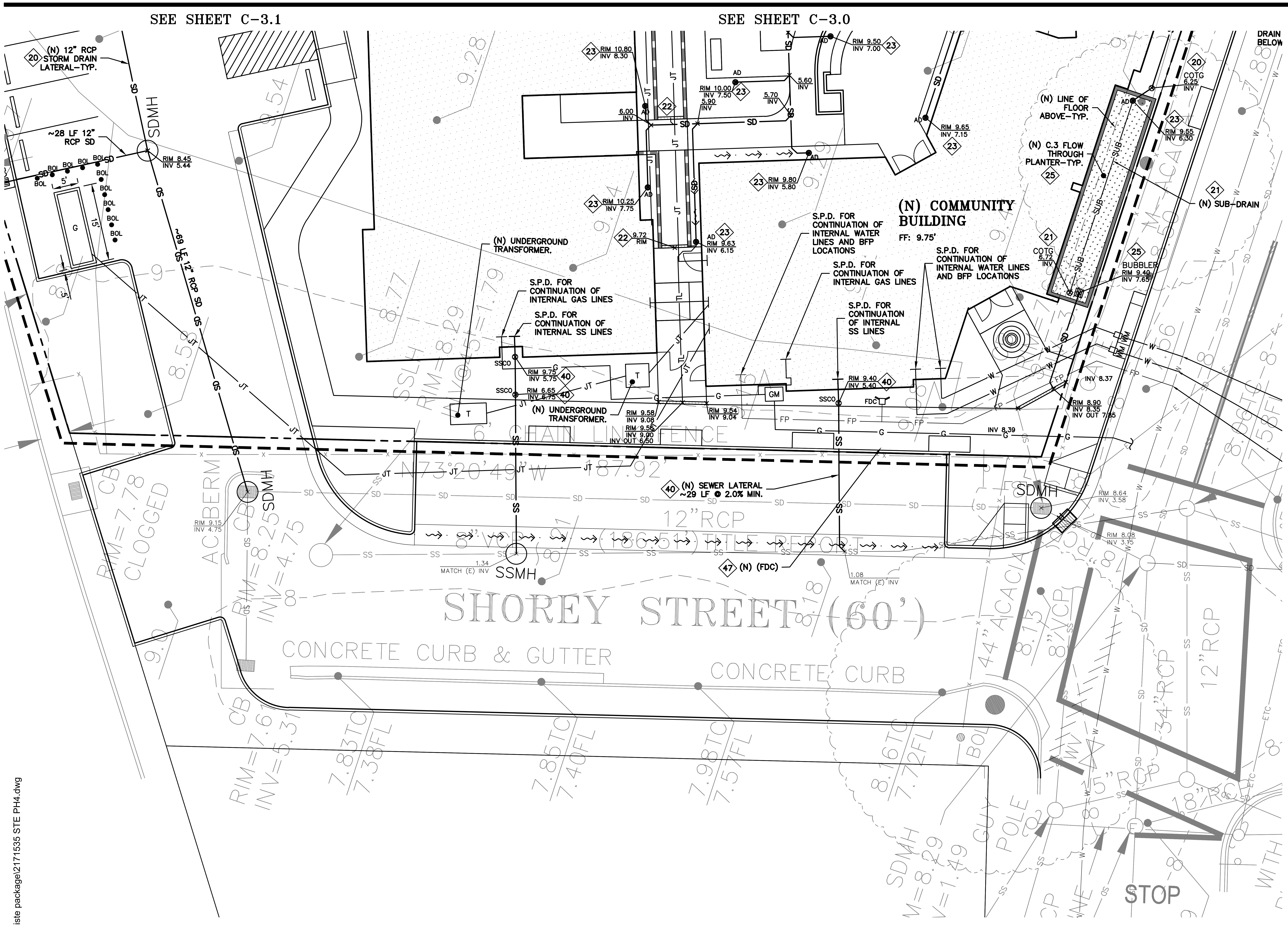

STORM DRAIN KEYNOTES 20 TO 28

20. INSTALL (N) ON-SITE STORM DRAIN SYSTEM. USE MINIMUM 6" PVC (SDR 35) OR HDPE (ADS N-12 W/ SMOOTH INTERIOR WALLS). MAINTAIN 24" MINIMUM COVER AND SLOPED AT 1% MINIMUM AT ALL TIMES UNLESS OTHERWISE NOTED. PROVIDE CLEAN OUT TO GRADE AT MAJOR CHANGES IN DIRECTION. AVOID USING 90° BENDS AND INSTEAD USE (2) 45° BENDS AND WYE CONNECTIONS. SEE DETAIL 4 ON SHEET C-6.0.

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25. INSTALL (N) BUBBLER IN C.3 STORMWATER BIO-RETENTION PLANTER. SEE DETAIL 4 ON C-5.1.

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UTILITIES KEYNOTES 40 TO 48

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SCALE: 1" = 10'

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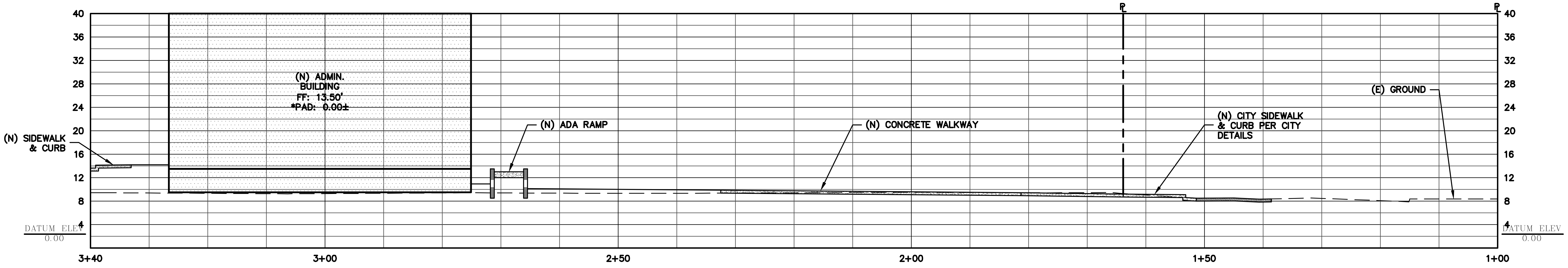
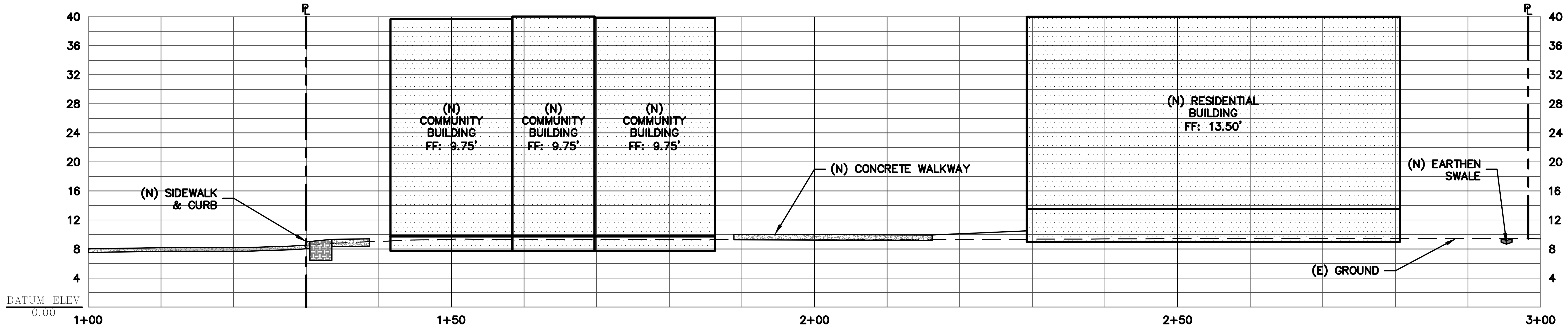


SITE SECTION A

SCALE: 1" = 10' HORIZ & VERT



SITE SECTION B

SCALE: 1" = 10' HORIZ & VERT

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SITE SECTIONS

SHEET NUMBER

C-4.0

DEVELOPMENT INFORMATION

Project Phase	Drainage Management Area	Treatment Type	Total DMA Area	Impervious Area	LID Treatment Area Required (SF)	LID Treatment Area Proposed (SF)	Form of Treatment	LID Treatment Excess Area (SF)	CDS Unit (CFS)
OFF-SITE	DMA 1A	LID	12,506	10,699	428	537	TA 1 Bio-Treatment	109	
PHASE 1	DMA 2	LID	5,066	4,332	173	230	TA 2 Flow Through Planter	57	
	DMA 3	Non-LID	21,434	15,077	N/A	N/A	TA 3 Mechanical Treatment	N/A	0.70
	Total	77% Non-LID & 23% LID	39,006	30,108	601	767		166	HS48

Model #

Q=CIA I= 2.26
Q= 0.70400868 A= 0.346120294 (DMA 3)

LEGEND:

—— SD ——	STORM DRAIN
▨	FLOW THOUGH PLANTER OR AT GRADE TREATMENT AREA (TA)
○CDS	(N) CDS STORM WATER TREATMENT SYSTEM (MECHANICAL TREATMENT)

GENERAL NOTES:

THIS PROJECT IS CONSIDERED A C.3. REGULATED PROJECT, AND WILL CREATE/ REPLACE APPROX 64,237 S.F. OF IMPERVIOUS AREA FROM THE TOTAL 76,817 S.F. OF PARCEL 1 AND PRIVATE DRIVE AREA.

SITE DESIGN MEASURES:

MINIMIZE LAND DISTURBANCE AND IMPERVIOUS SURFACES (ESPECIALLY PARKING LOTS)

SOURCE CONTROL MEASURES:

A. INSTALL STENCILING AT STORM DRAIN INLETS, SUCH AS "NO DUMPING – DRAINS TO BAY".

B. PLUMB INTERIOR FLOOR DRAINS TO SANITARY SEWER.

C. PLUMB INTERIOR PARKING GARAGE FLOOR DRAINS TO SANITARY SEWER.

D. INCORPORATE SUSTAINABLE LANDSCAPING PRACTICES, USE EFFICIENT IRRIGATION SYSTEMS TO MINIMIZE RUNOFF, PROMOTE SURFACE INFILTRATION, MINIMIZE THE USE OF PESTICIDES AND FERTILIZERS, AND OTHER PRACTICES OF BAY AREA FRIENDLY LANDSCAPING.

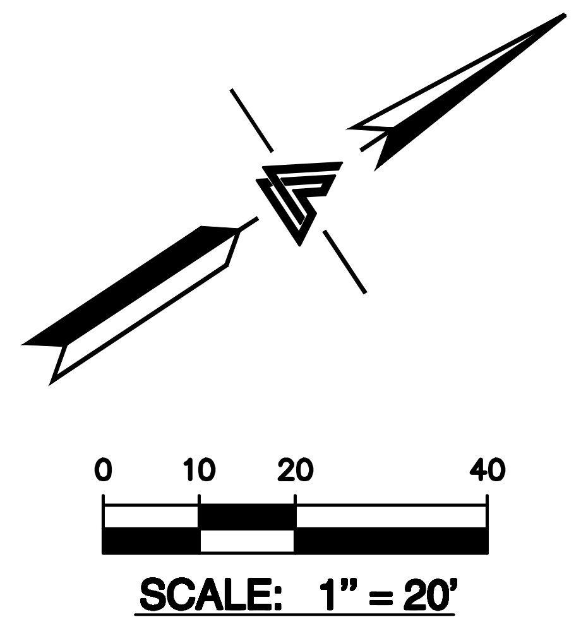
E. DISCHARGE FIRE SPRINKLER TEST WATER TO ON–SITE VEGETATED AREAS OR TO THE SANITARY SEWER IF DISCHARGE ON–SITE VEGETATED AREAS IS NOT FEASIBLE.

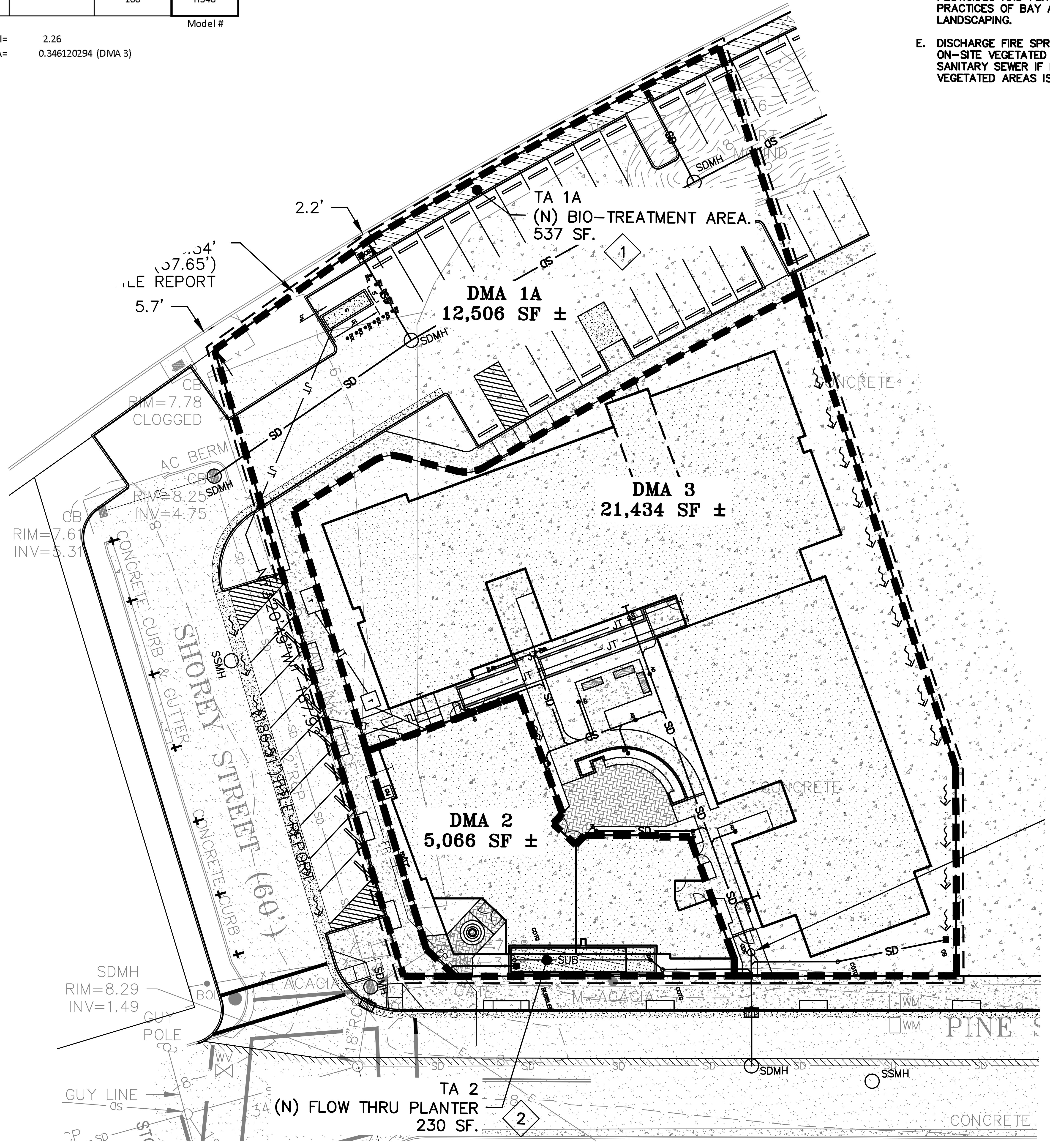
PLAN NOTES:

① (N) FLOW THROUGH PLANTER OR AT GRADE BIO–RETENTION TREATMENT AREA FOR C.3 STORM WATER TREATMENT.

② PROPOSED ROOF DRAINS SHOWN CONCEPTUALLY AND ARE TO BE COORDINATED WITH ARCHITECTURAL ROOF PLANS. ROOF PLANS TO BE DIRECTED TO DESIGNATED FLOW THROUGH PLANTER AREAS.

③ PROPOSED STORM WATER RUN–OFF TO BE DIRECTED TO ROOF DRAINS AND TO THE MECHANICAL TREATMENT UNIT.





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CONCEPTUAL STORMWATER TREATMENT AND MANAGEMENT PLAN

DRAWN BY: Author
PROJECT NUMBER: 18-010
SHEET ISSUE DATE: 10/14/19
SHEET TITLE:

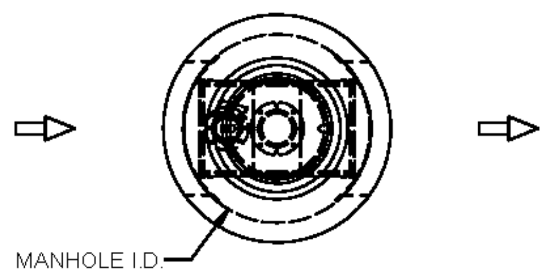
SHEET NUMBER AS NOTED

C-5.0

SUBMITTAL SET 11-15-19

This CADD file is for the purpose of specifying stormwater treatment equipment to be furnished by CONTECH Stormwater Solutions and may only be transferred to other documents exactly as provided by CONTECH Stormwater Solutions. Title block information, **excluding** the CONTECH Stormwater Solutions logo and the VortSentry HS Stormwater Treatment System designation and patent number, may be deleted if necessary. Revisions to any part of this CADD file without prior coordination with CONTECH Stormwater Solutions shall be considered unauthorized use of proprietary information.

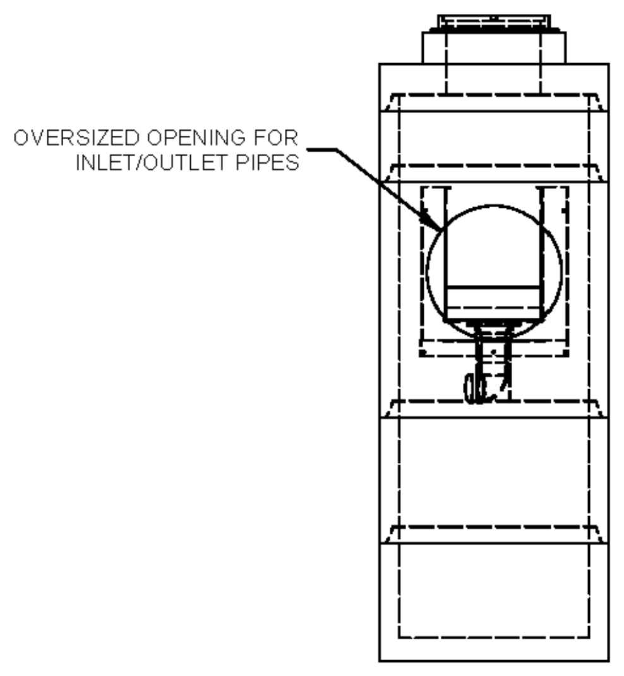
THE VORTSENTRY HS CONTROL SECTION SHALL BE STENCILED WITH THE CONTECH STORMWATER SOLUTIONS NAME AND LOGO. PIPE OPENINGS SHALL BE STENCILED "INLET" OR "OUTLET" AS APPROPRIATE



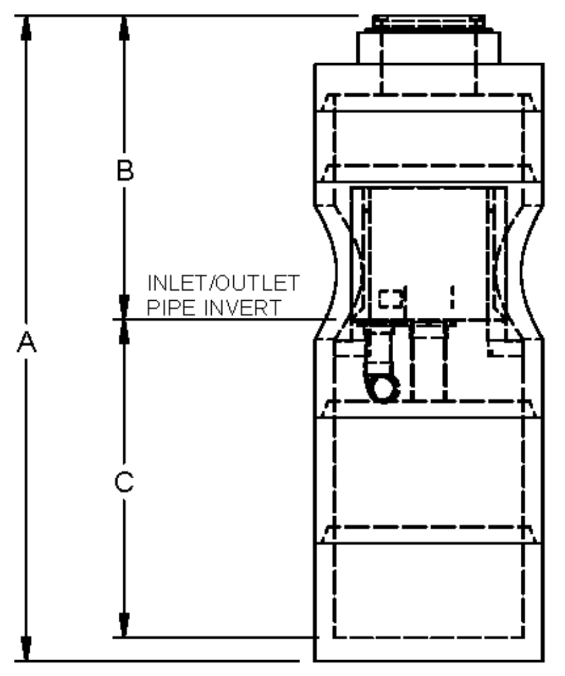
PLAN

NOTES:

1. STORMWATER TREATMENT SYSTEM (SWTS) SHALL REMOVE 80% OF A SEDIMENT GRADATION WITH AN AVERAGE PARTICLE SIZE OF 240 MICRONS AT THE DESIGNATED TREATMENT FLOW RATE LISTED IN THE TABLE FOR EACH CORRESPONDING MODEL.
2. SWTS REMOVAL EFFICIENCY CLAIM SHALL BE CORROBORATED BY FULL SCALE LABORATORY TEST PERFORMANCE DATA.
3. SWTS MAINTENANCE RECOMMENDATION SHALL BE SUPPORTED BY FULL SCALE WASH-OUT TESTING.
4. SWTS SHALL PROVIDE INTERNAL BYPASS OF FLOWS THAT EXCEED THE TREATMENT FLOW RATE.
5. SWTS MAXIMUM HYDRAULIC CAPACITY MAY VARY DEPENDING UPON THE INLET PIPE DIAMETER, MATERIAL AND SLOPE.
6. SWTS INVERTS IN AND OUT SHALL BE AT THE SAME ELEVATION. INLET AND OUTLET PIPES MUST BE 180° FROM EACH OTHER.
7. MINIMUM RIM TO INVERT DISTANCE MAY BE REDUCED DEPENDING UPON ACTUAL PIPE DIAMETER. CONTACT CONTECH STORMWATER SOLUTIONS FOR SITE SPECIFIC INFORMATION.
8. PIPE SIZE MAY BE SMALLER THAN THE MAXIMUM PIPE SHOWN ON THE TABLE; SEE SITE PLAN FOR PIPE SIZE.
9. PURCHASER SHALL NOT BE RESPONSIBLE FOR ASSEMBLY OF INTERNAL COMPONENTS.
10. ACCESS FRAME AND COVER SUPPLIED WITH SYSTEM, NOT INSTALLED. SWTS MAY ALSO HAVE A GRATED INLET COVER (NOT SHOWN).
11. PURCHASER TO PREPARE EXCAVATION AND PROVIDE LIFTING EQUIPMENT.
12. VORTSENTRY HS BY CONTECH STORMWATER SOLUTIONS; PORTLAND, OR (800) 548-4667; SCARBOROUGH, ME (877) 907-8676; LINTHICUM, MD (866) 740-3318.



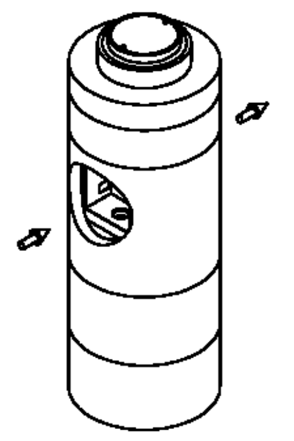
LEFT SIDE



ELEVATION

VortSentry Model	Manhole Diameter (ID)		Total Treatment Flow Rate		Typical Total Distance Rim to Outside Bottom A		Typical Distance Rim to Invert B		Typical Depth Below Invert (Inside) C		Approximate Minimum Distance Rim to Invert (See Note 7)		Maximum Pipe Diameter (ID)	
	ft	mm	cfs	l/s	ft	m	ft	m	ft	mm	ft	m	in	mm
HS36	3	900	0.55	15.6	10.16	3.10	4.08	1.24	5.5833	1702	3.00	0.91	18	450
HS48	4	1200	1.20	34.0	13.25	4.04	6.00	1.83	6.75	2057	4.00	1.22	24	600
HS60	5	1500	2.20	62.3	16.38	4.99	6.50	1.98	9.21	2807	4.82	1.47	30	750
HS72	6	1800	3.70	104.8	16.56	5.05	6.75	2.06	9.15	2788	5.59	1.70	36	900
HS84	7	2100	5.60	158.6	18.85	5.75	7.75	2.36	10.35	3156	4.77	1.45	42	1050
HS96	8	2400	8.10	229.4	20.87	6.36	8.50	2.59	11.54	3518	6.91	2.11	48	1200

FOR INFORMATIONAL PURPOSES ONLY - NOT INTENDED FOR CONSTRUCTION



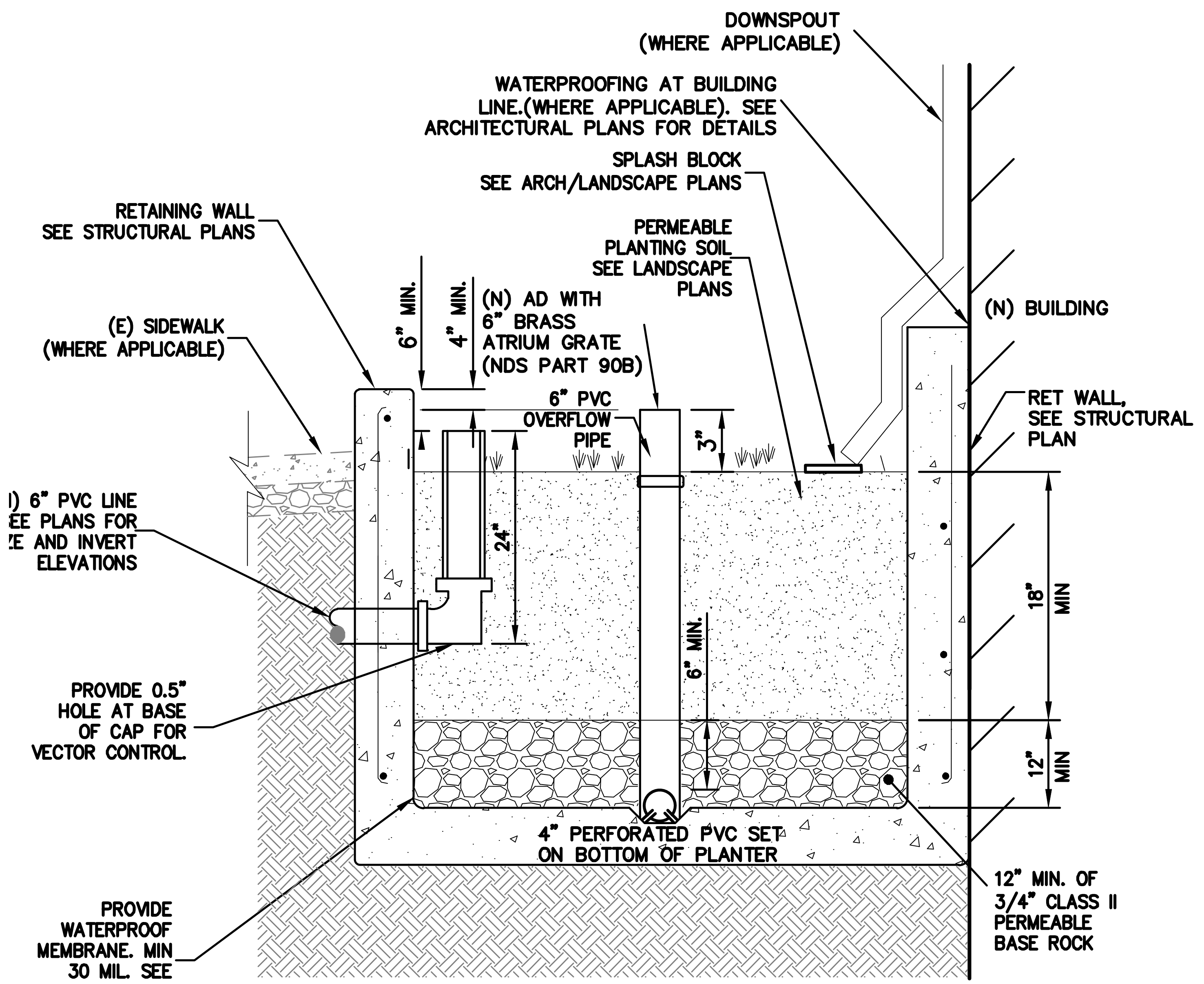
ASSEMBLED VIEW

SP

TYPICAL DETAIL WITH SIZING TABLE
STORMWATER TREATMENT SYSTEM
VORTSENTRY® HS US PATENT PENDING

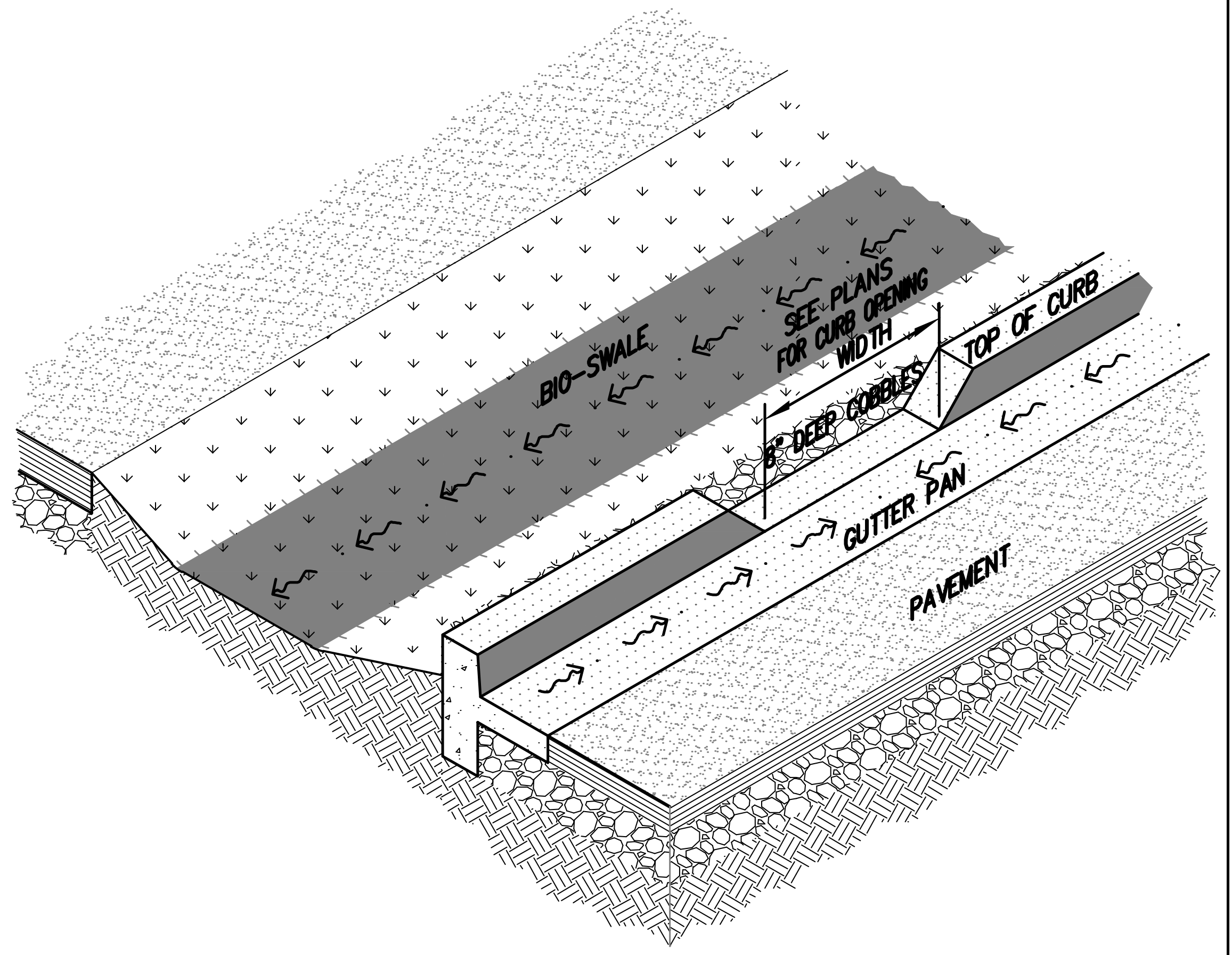
CONTECH® STORMWATER SOLUTIONS INC.
contechstormwater.com

SCALE: NONE
DRAWN: NDG
CHECKED: GWB
FILE NAME: VSHS TYPTBL
DATE: 8/17/07



2 BIO-RETENTION DETAIL
C-5.1

NTS



3 BIO-SWALE CURB OPENING DETAIL
C-5.1

NTS

lowney arch

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360 seventeenth street | suite 200 | oakland, california 94612

THE PHOENIX

801 PINE STREET, OAKLAND, CA

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SACRAMENTO REGION
3017 DOUGLAS BLVD, # 300
ROSEVILLE, CA 95661
(P) (916)966-1338
(F) (916)797-7363

WWW.LEABRAZE.COM

STAMP

REGISTERED PROFESSIONAL ENGINEER
PETER CARLINO
No. C79555
CIVIL
STATE OF CALIFORNIA
ORIGINAL SIGNATURES IN BLUE INK

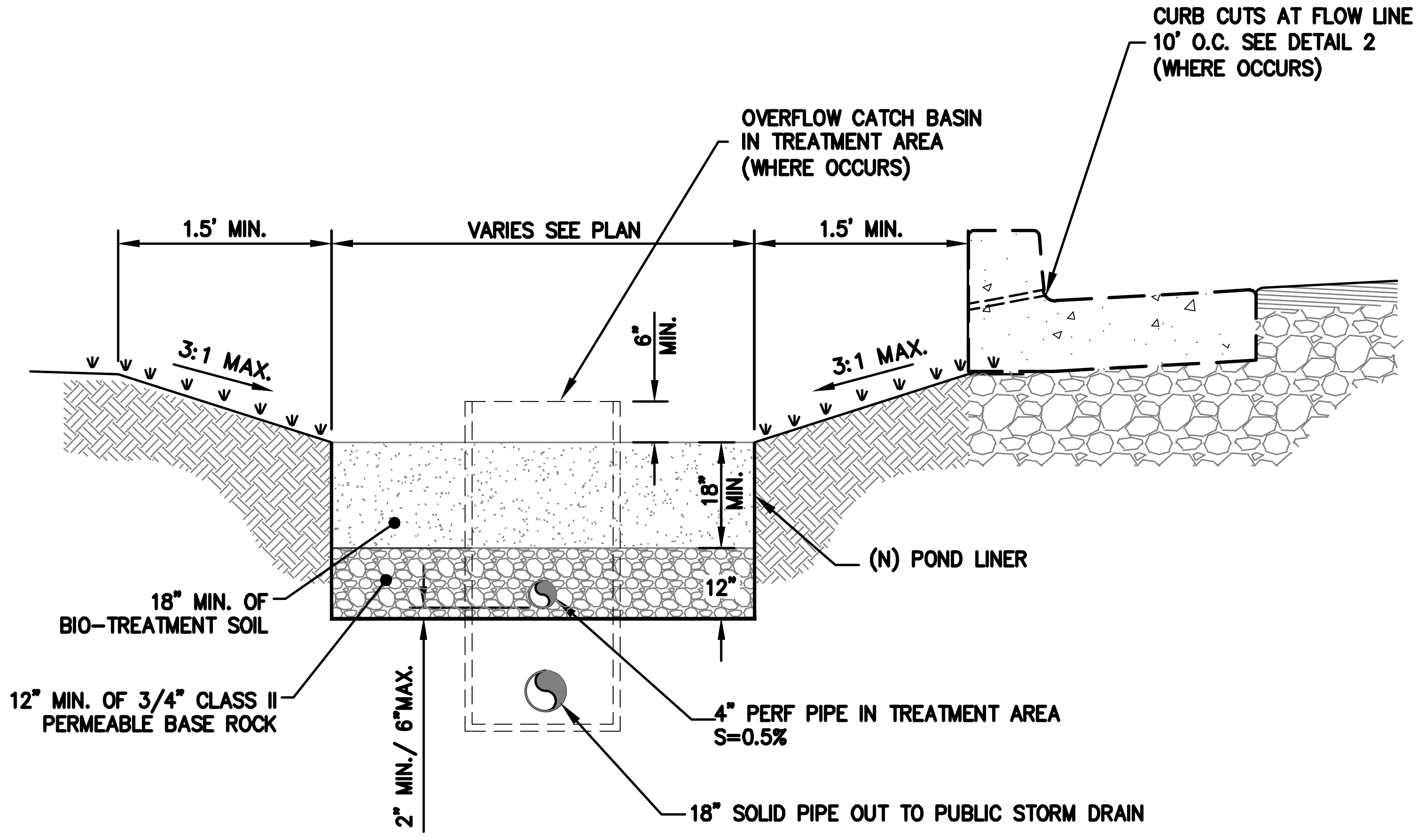
#	DATE	ISSUES & REVISIONS	BY
	11-15-19	SITE PERMIT SET	

STORMWATER
TREATMENT AND
MANAGEMENT
DETAILS

DRAWN BY: Author
PROJECT NUMBER: 18-010
SHEET ISSUE DATE: 10/14/19
SHEET TITLE:

SHEET NUMBER NTS

C-5.1



4 BIO-RETENTION DETAIL
C-5.1

NTS

Nov 14, 2019 - 3:27pm - USER dyancy
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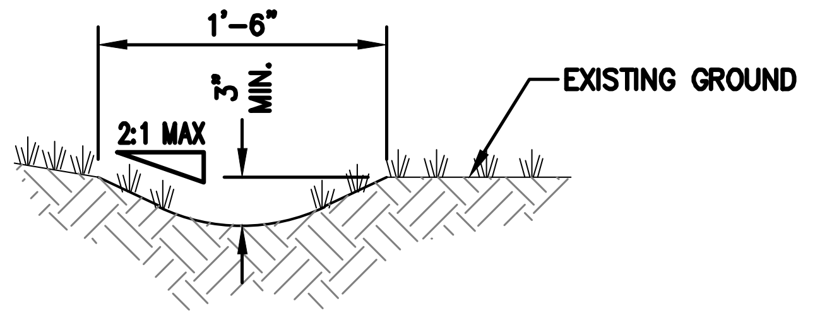
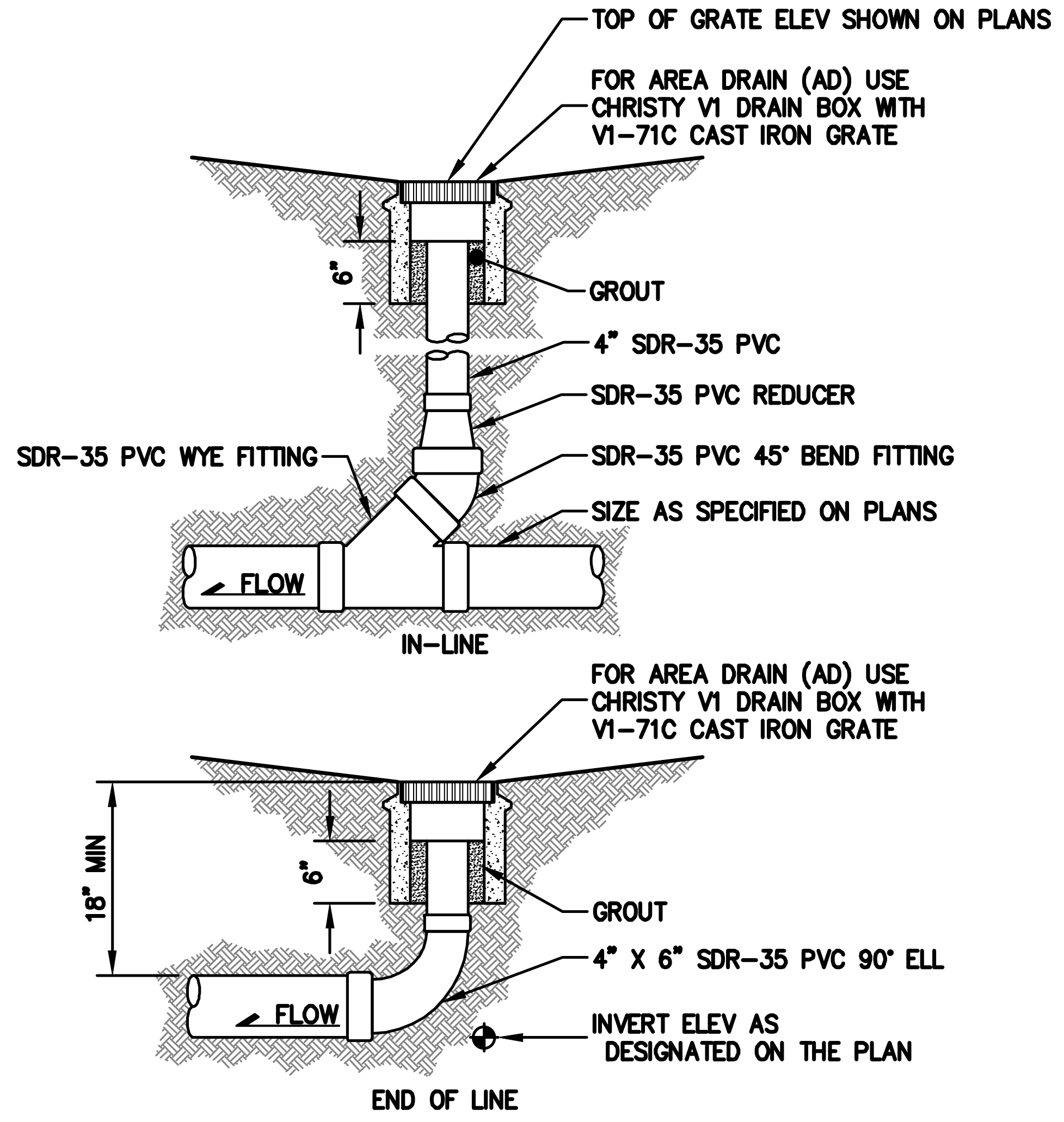
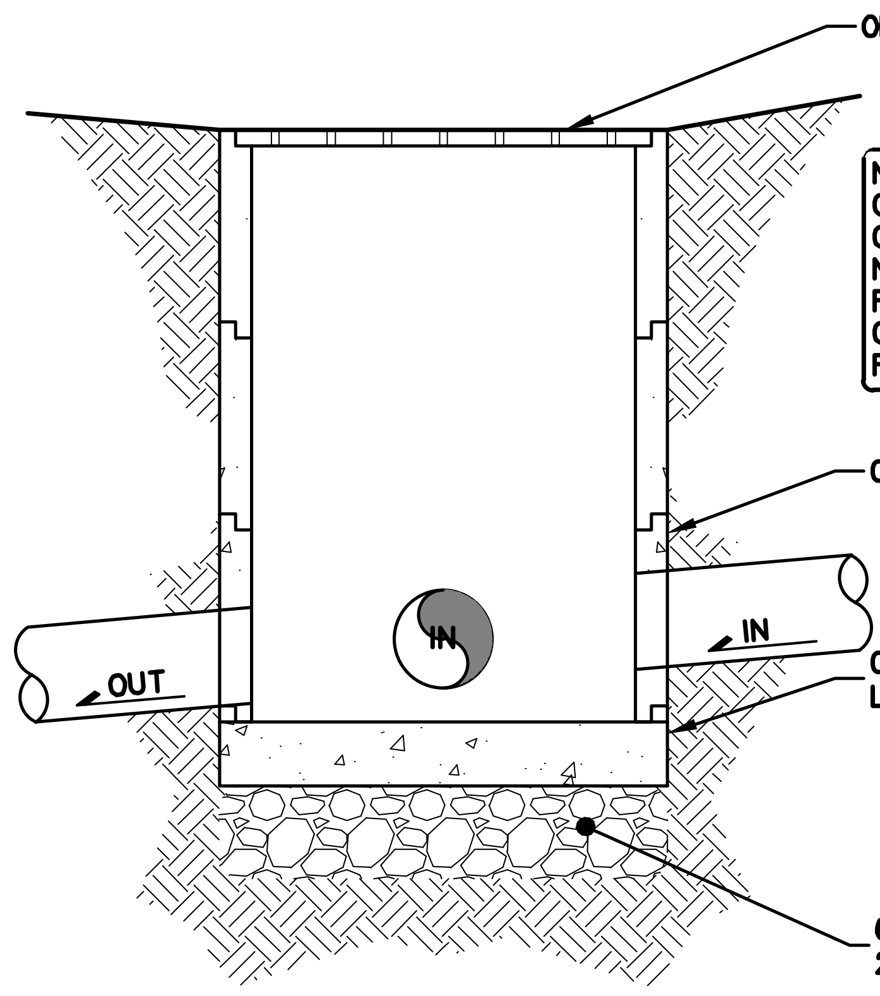


1 EARTHEN SWALE DETAIL
C-6.0
NTS



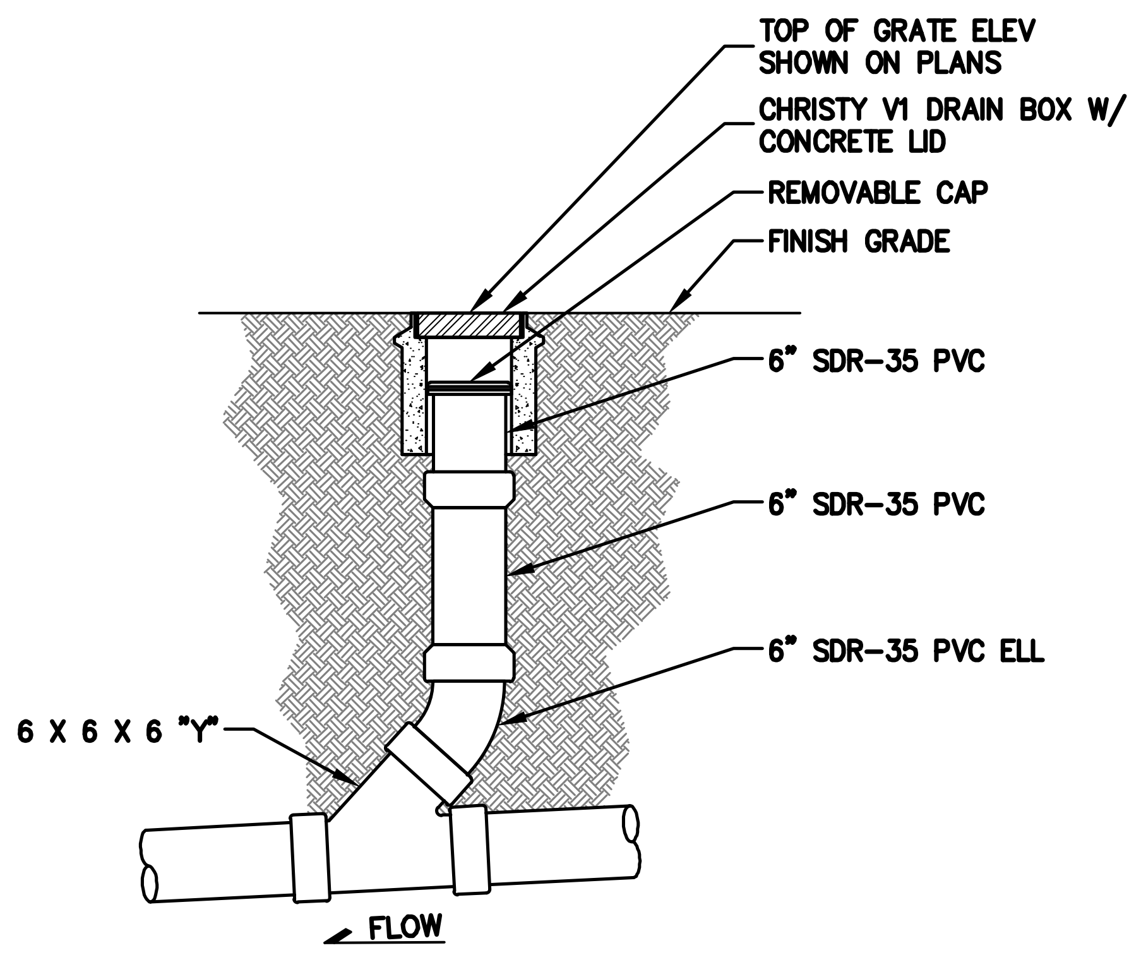
NOTE:
GLUED FITTINGS MAY BE SUBSTITUTED FOR GASKETED FITTINGS AT THE OPTION OF THE INSTALLATION CONTRACTOR.

2 AREA DRAIN
C-6.0
NTS

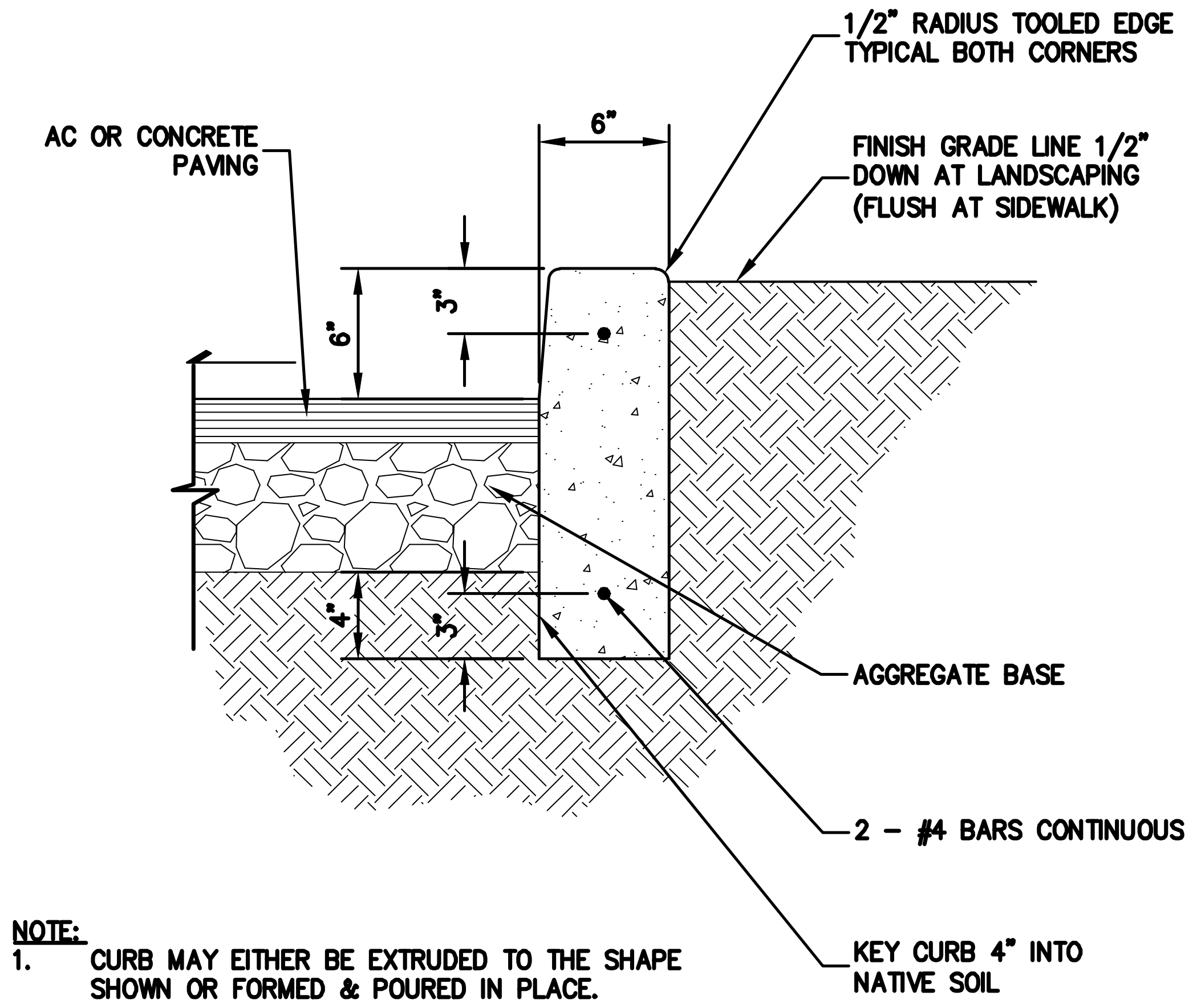


NOTE:
CONTRACTOR SHALL NOTIFY OWNER IN WRITING OF THE NEED FOR PERIODIC AND REGULAR INSPECTION AND CLEARING OF CATCH BASINS FOR LONG TERM PERFORMANCE.

3 CATCH BASIN
C-6.0
NTS

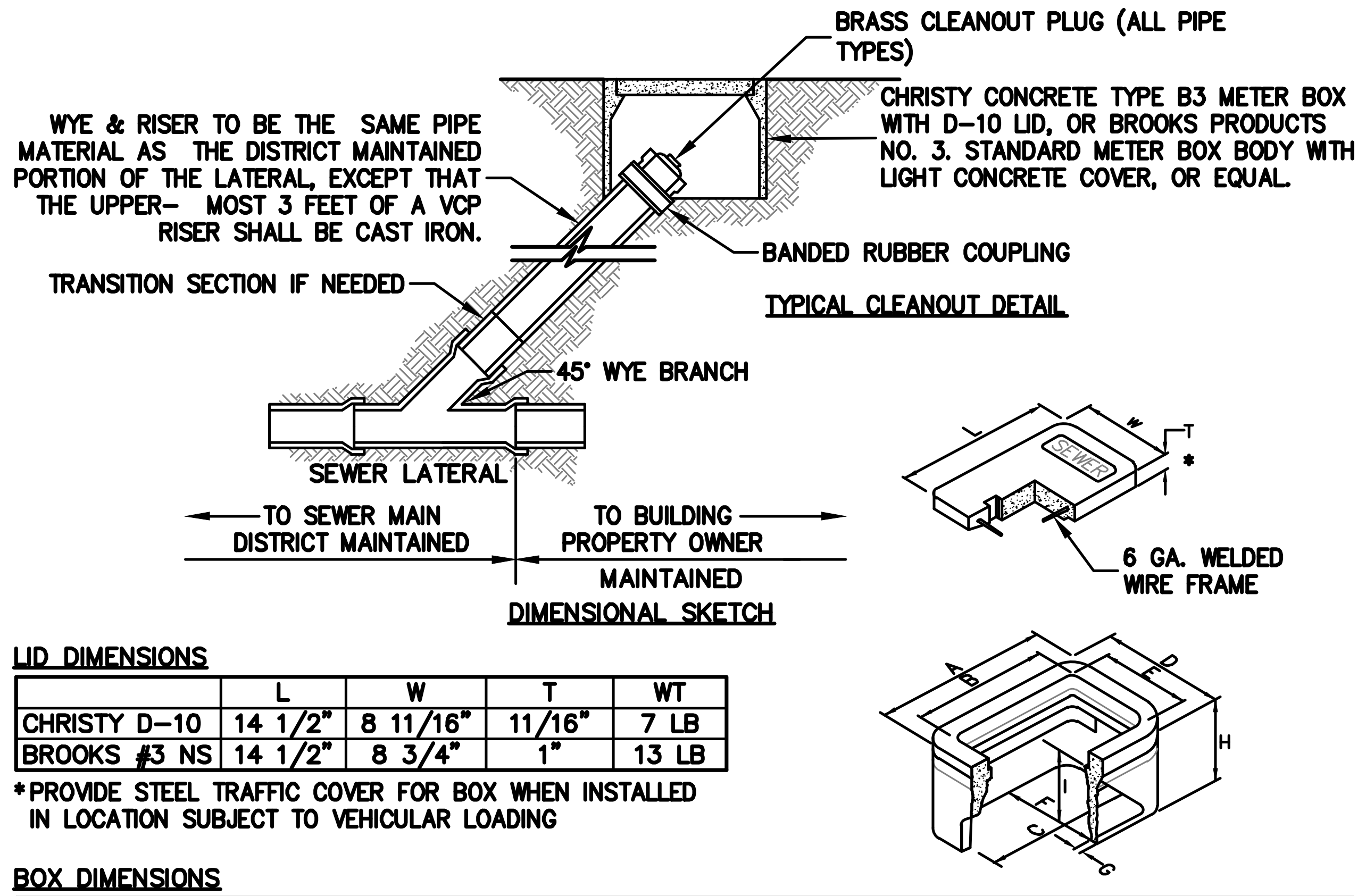


4 ON-SITE CLEANOUT
C-6.0
NTS



NOTE:
1. CURB MAY EITHER BE EXTRUDED TO THE SHAPE SHOWN OR FORMED & POURED IN PLACE.
2. PROVIDE EXPANSION JOINTS AT 15' O.C.

5 TYPICAL CURB
C-6.0
NTS



LID DIMENSIONS

	L	W	T	WT
CHRISTY D-10	14 1/2"	8 11/16"	11/16"	7 LB
BROOKS #3 NS	14 1/2"	8 3/4"	1"	13 LB

*PROVIDE STEEL TRAFFIC COVER FOR BOX WHEN INSTALLED IN LOCATION SUBJECT TO VEHICULAR LOADING

BOX DIMENSIONS

	A	B	C	D	E	F	G	H	I	APPROX WT. LBS.
CHRISTY B3	19"	14 13/16"	16 1/4"	13 1/4"	9"	9 7/8"	1"	12"	10 15/16"	59
BROOKS #3	19 1/8"	13 1/2"	16"	13 1/4"	7 5/8"	9 1/2"	1"	11"	N.A.	68

6 TYPICAL SEWER CLEANOUT BOX
C-6.0
NTS

Nov 14, 2019 - 3:27pm - USER dyancy
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THE PHOENIX
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(F) (510) 887-3019	(F) (916)797-7363

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STAMP
PETER CARLINO
No. C79555
CIVIL

#	DATE	ISSUES & REVISIONS	BY
	11-15-19	SITE PERMIT SET	

DRAWN BY: Author
PROJECT NUMBER: 18-010
SHEET ISSUE DATE: 10/14/19
SHEET TITLE:

DETAILS

SHEET NUMBER
C-6.0

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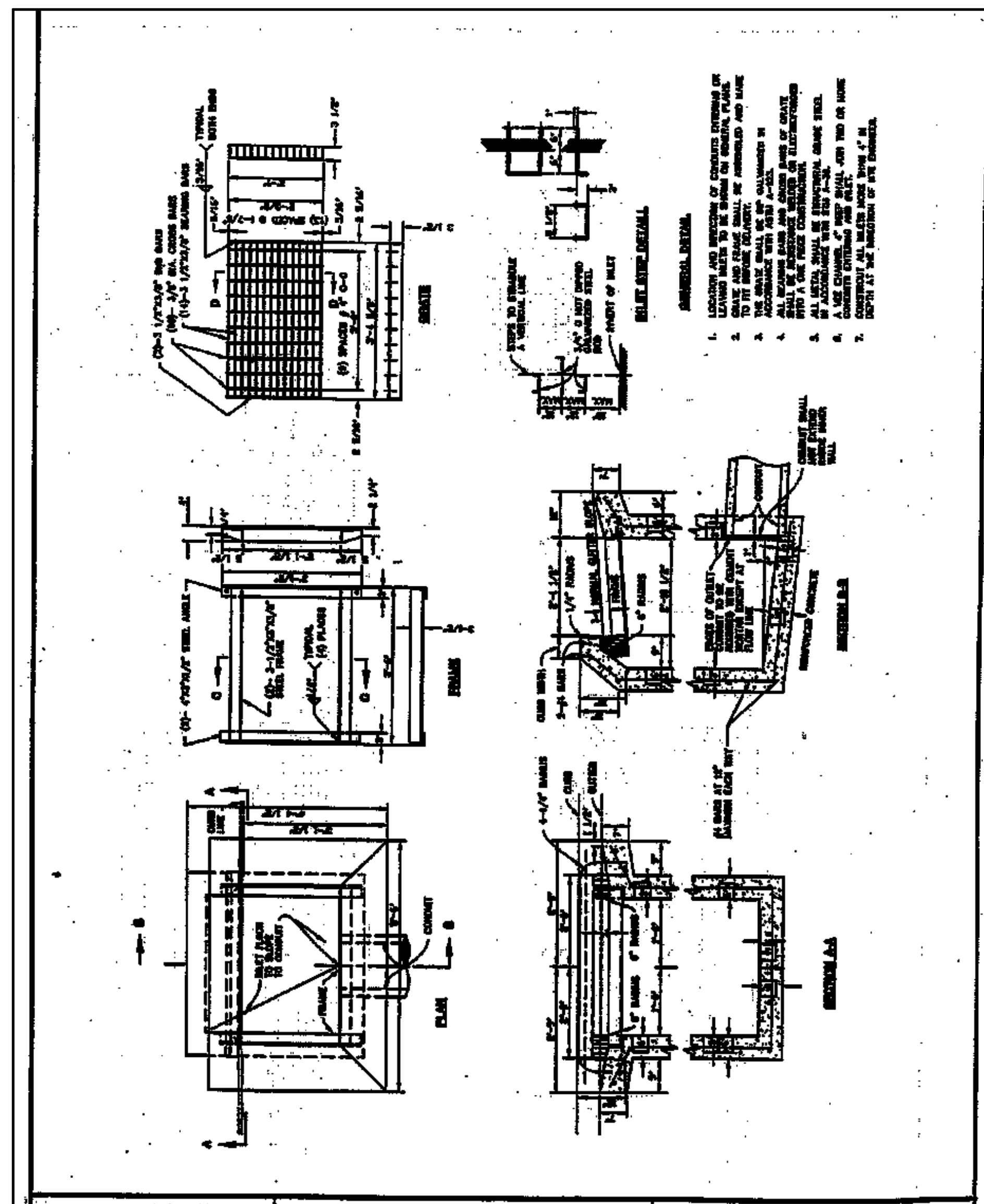
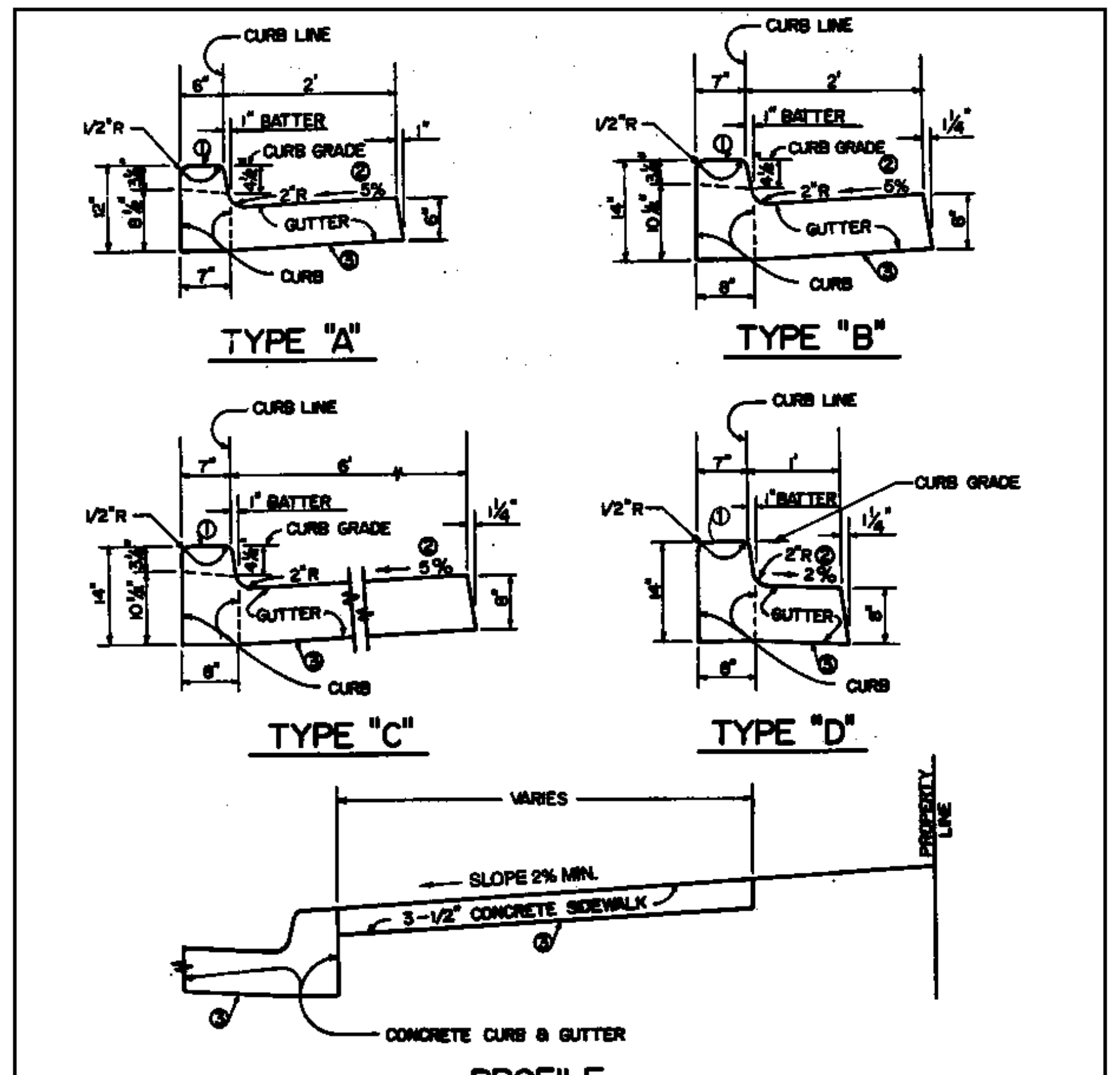


CITY OF OAKLAND | ENGINEERING AND DESIGN SERVICES DEPARTMENT

TYPE "B" INLET

D-4



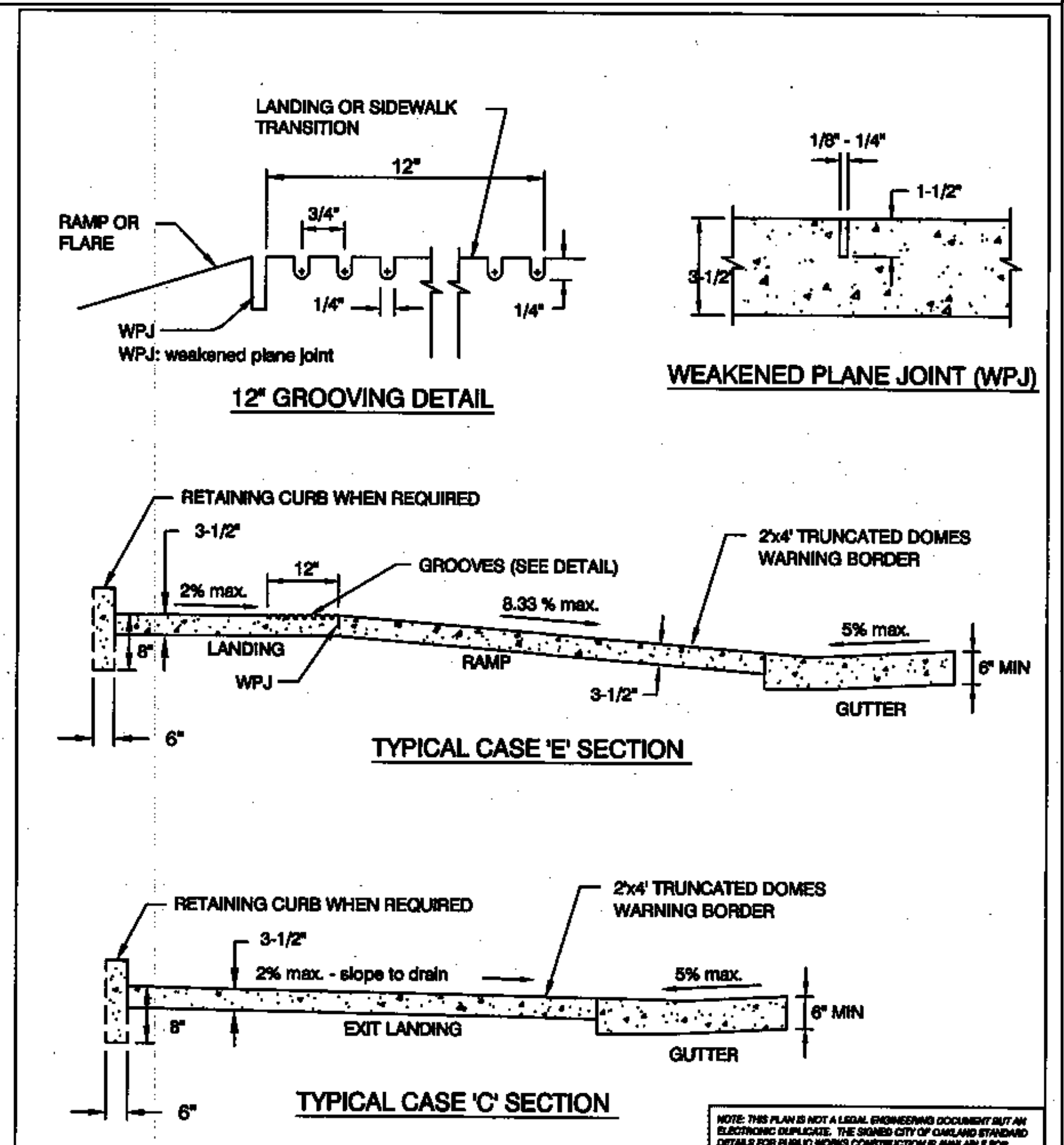
NOTES:

1. OMIT THIS PORTION OF CURB AT DRIVEWAYS.
2. STANDARD SLOPE EXCEPT AS SHOWN ON PLANS.
3. PLACE 4" OF PROCESSED MISCELLANEOUS BASE UNDER CURB, GUTTER AND SIDEWALK UNLESS OTHERWISE DIRECTED BY THE ENGINEER

CITY OF OAKLAND | DESIGN AND CONSTRUCTION SERVICES DEPARTMENT

CONCRETE
CURB AND GUTTER

ENGINEERING DESIGN MANAGER
DATE: JANUARY 2002
DWG. S-1



THIS SHEET IS FOR GUIDANCE ONLY. ALL CURB RAMPS SHALL BE CONSTRUCTED PER THE MOST RECENT EDITIONS OF THE AMERICAN WITH DISABILITIES ACT (ADA) AND THE CALIFORNIA TITLE 24 ACCESSIBILITY GUIDELINES

CITY OF OAKLAND | DESIGN AND CONSTRUCTION SERVICES DEPARTMENT

CURB RAMP DETAILS
SHEET 4 OF 6
TYPICAL SECTIONS

ENGINEERING DESIGN MANAGER
DATE: OCTOBER 2002
DWG. S-6

1. Curb ramps shall have 4 ft by 2 ft long detectable warning border centered and squared at the ramp bottom.

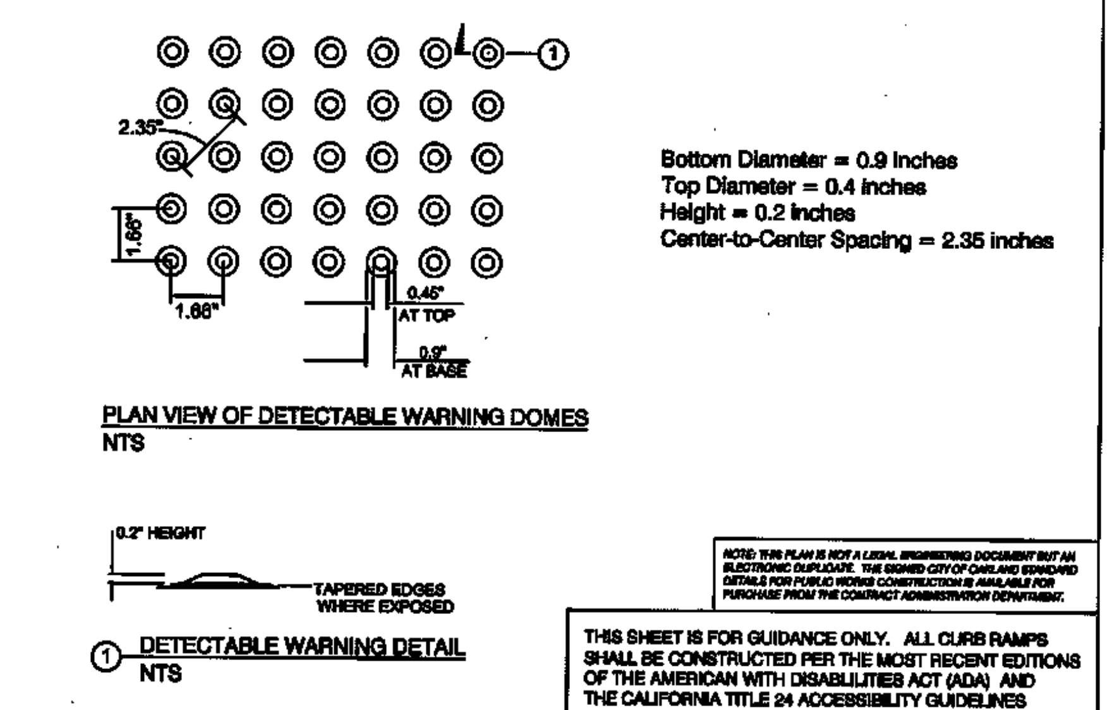
2. The detectable warning border shall contrast visually with the adjoining surfaces, either light or dark. The material used to provide contrast shall be an integral part of the walking surface and shall contrast by at least 70 percent. A fully cured 2 ft x 2 ft sample of both the cast-in-place detectable warning border and the adjacent curb ramp shall be submitted to the Engineer for review and approval, prior to installation.

3. Dome orientation shall conform to the latest ADA / Title 24 regulations.

4. The closest corner of the truncated dome tile to the street shall be set 6" from the flowline.

5. Detectable dome warning tiles or strips made of materials other than concrete shall only be used with the written approval of the Director of Public Works.

6. Precast concrete detectable warning dome pavers shall be installed on top of a 4 inch thick concrete pad. Mortared joints shall be flush with top surface and finished to provide a smooth surface. Pavers shall be laid such that joints are level with adjoining joints to provide a smooth transition from paver to paver and from paver to concrete surface.



Bottom Diameter = 0.9 Inches
Top Diameter = 0.4 Inches
Height = 0.2 Inches
Center-to-Center Spacing = 2.35 inches

THIS SHEET IS FOR GUIDANCE ONLY. ALL CURB RAMPS SHALL BE CONSTRUCTED PER THE MOST RECENT EDITIONS OF THE AMERICAN WITH DISABILITIES ACT (ADA) AND THE CALIFORNIA TITLE 24 ACCESSIBILITY GUIDELINES

CITY OF OAKLAND | DESIGN AND CONSTRUCTION SERVICES

CURB RAMP DETAILS
SHEET 5 OF 6
DETECTABLE WARNINGS

ENGINEERING DESIGN MANAGER
DATE: OCTOBER 2002
DWG. S-7

CASE "C" CURB RAMP NOTES

1. If site conditions do not accommodate a Case E ramp, a Case "C" Curb Ramp shall be constructed.

2. If the sidewalk is less than 5-feet wide, a Case C ramp shall be installed.

3. The maximum slope of the lower landing of a Case C ramp shall be 2%. In all cases the lower landing shall be sloped to drain.

4. No vertical obstructions shall be allowed within a Case C curb ramp.

CASE "E" CURB RAMP NOTES:

5. Two ramps shall be provided at each corner of an intersection, unless otherwise allowed by the plans or by the Engineer. The centerline and path of travel of both curb ramps must be perpendicular to the gutter.

6. A level landing (4-ft deep with 2% max. slope) shall be provided at the upper end of each Case E curb ramp over its full width to permit safe exit from the ramp surface. If a level landing cannot be installed, then the side flares of the ramp shall slope less than or equal to 8.33%.

GENERAL CURB RAMP NOTES:

7. When constructing curb ramps, construct concrete gutter to match existing gutter widths. The new gutter shall be flush with the bottom of the curb ramp and the new gutter shall be considered part of the curb ramp construction.

8. Each curb ramp shall be bounded by a 12- inch border band with 1/4 inch deep grooves scored 3/4 inches apart except in the curb and gutter area.

9. Vertical obstructions, such as utility poles and traffic signals, shall only be allowed with the approval of the Engineer.

10. Existing utility boxes and covers shall be adjusted to conform flush with the curb ramp surface. All utility boxes and covers located within the detectable warning border area shall be relocated.

CITY OF OAKLAND | ENGINEERING DESIGN DIVISION

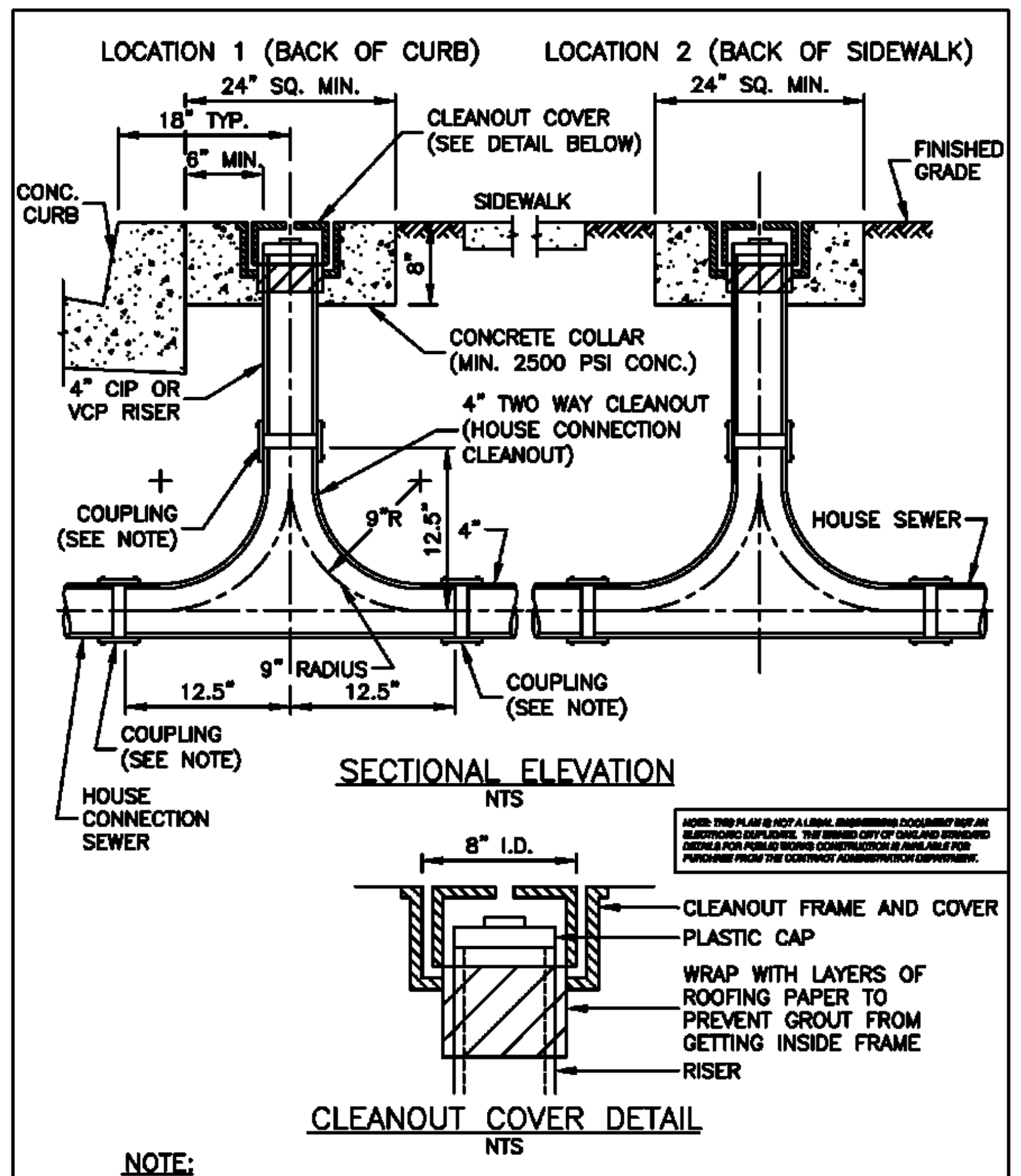
CURB RAMP DETAILS
SHEET 6 OF 6
GENERAL NOTES

ENGINEERING DESIGN MANAGER
DATE: OCTOBER 2002
DWG. S-8

STAMP

PETER CARLINO
No. C79555
CIVIL

#	DATE	ISSUES & REVISIONS	BY
	11-15-19	SITE PERMIT SET	

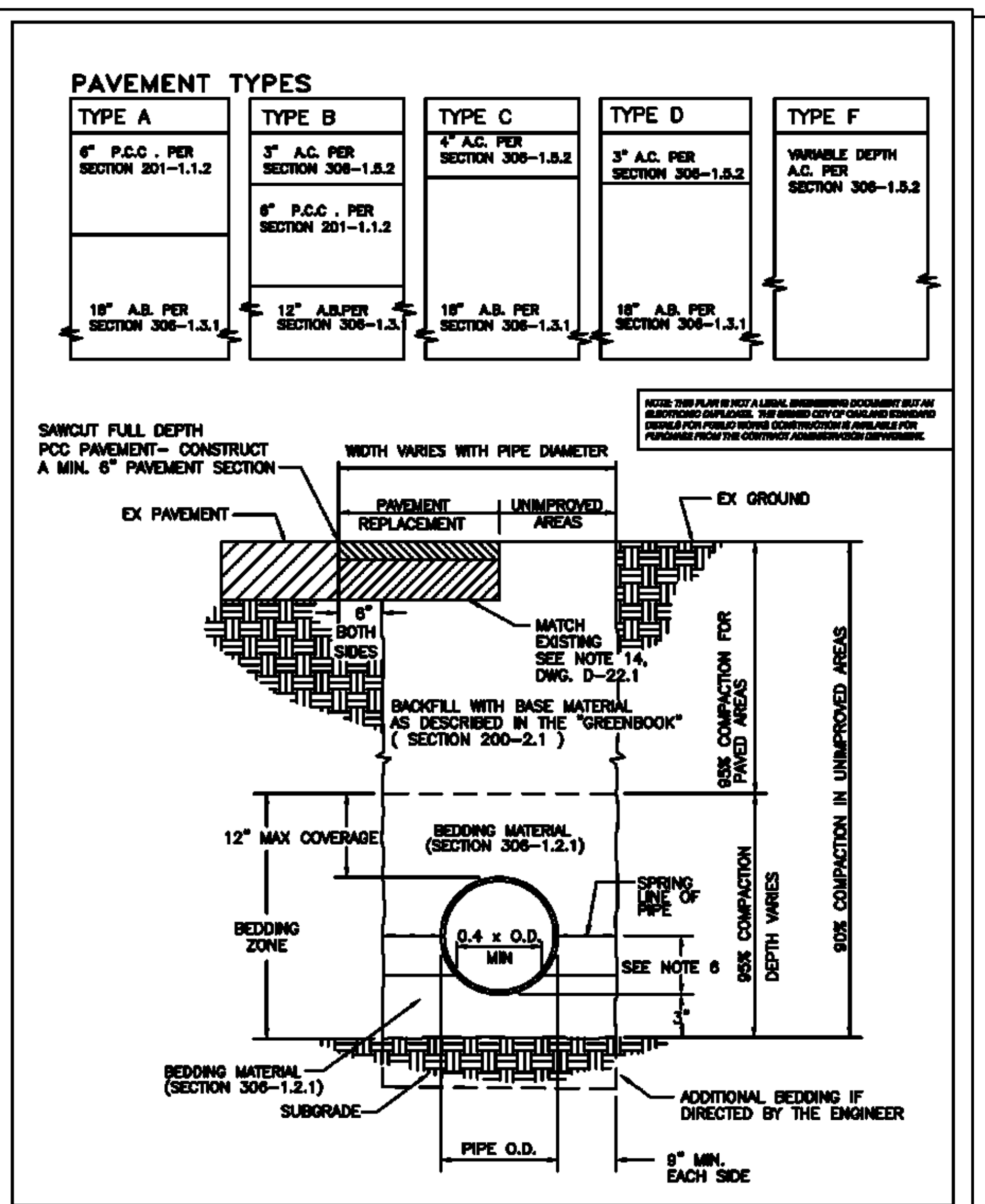


NOTE:
COUPLING SHALL BE RUBBER COUPLING WITH 2 STAINLESS STEEL BANDS. RIGID COUPLING SHALL BE USED WITH CAST IRON PIPE.

CITY OF OAKLAND | DESIGN AND CONSTRUCTION SERVICES DEPARTMENT

HOUSE CONNECTION
CLEANOUT
(2-WAY CLEANOUT)

ENGINEERING DESIGN MANAGER
DATE: FEBRUARY 2002
DWG. D-24



CITY OF OAKLAND | DESIGN AND CONSTRUCTION SERVICES DEPARTMENT

TRENCH DETAIL

ENGINEERING DESIGN MANAGER
DATE: JANUARY 2002
DWG. D-22.0

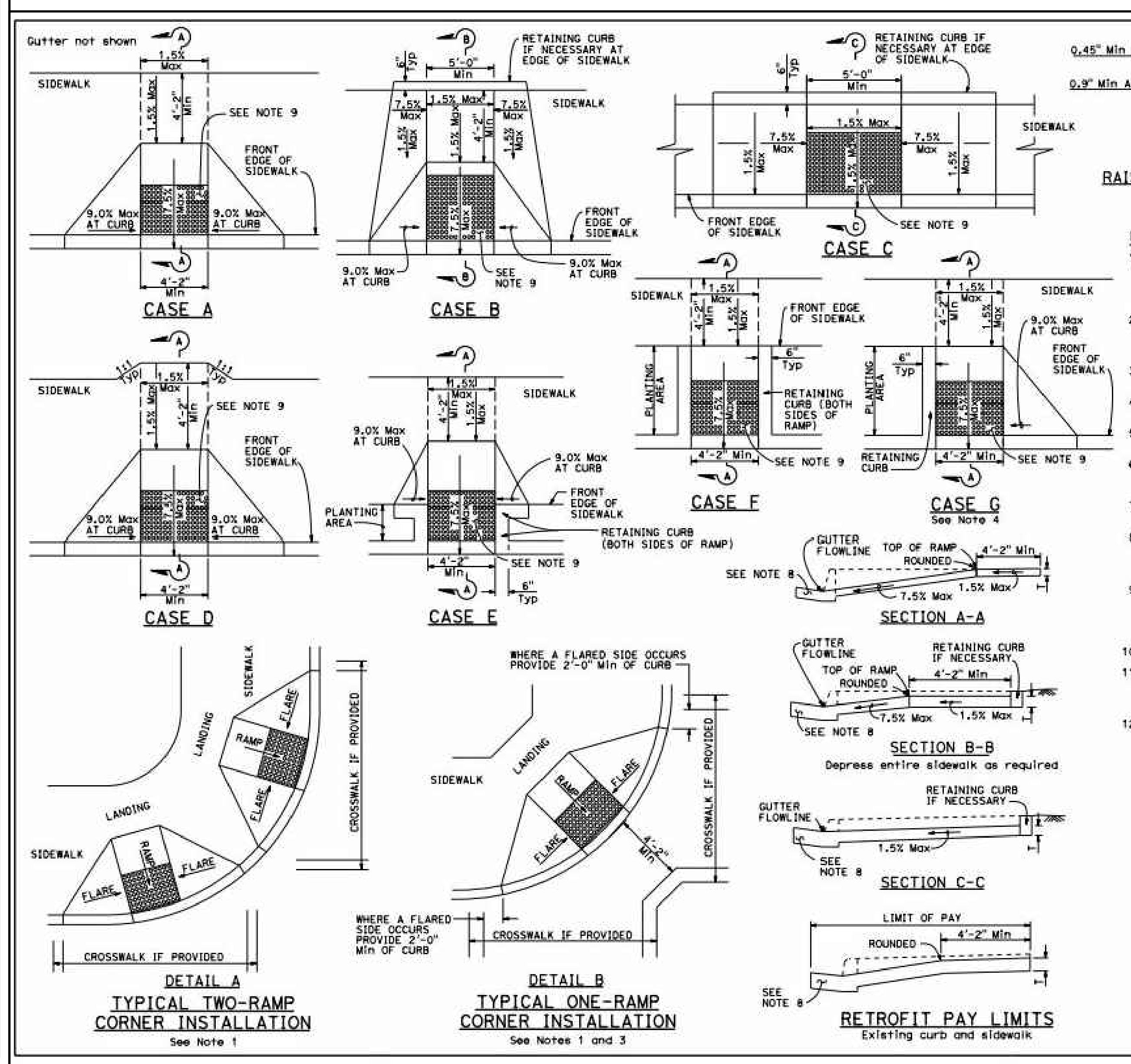
NOTES:

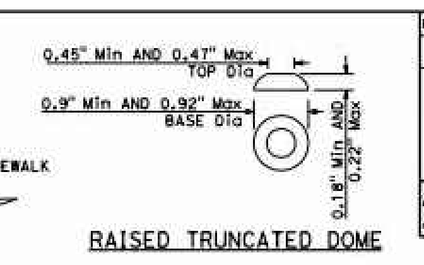
1. Excavated material shall not be used to fill voids caused by overexcavation; such voids shall be filled with compacted bedding material. Unless directed by the Engineer, no separate payment will be made for overexcavation.
2. Import backfill material shall conform to Subsection 306-1.31
3. Aggregate base shall conform to crushed miscellaneous base (Section 200-2.4) or better. The base material must be approved by the Engineer.
4. The streets of Oakland are generally paved with either AC, PCC, or a combination of the two. The existing pavement may differ from the replacement Pavement Type (A to F) indicated on the plans.
5. Compaction by jetting is not permitted.
6. When flexible pipe (HDPE, etc.) is used, pipe shall be backfilled to the spring line, compacted and backfill tested prior to completing initial backfill.
7. The compacted temporary resurfacing shall be a minimum of 2" thick placed on the required base, and shall be removed prior to placing the permanent paving.
8. Backfill testing is required and results shall be approved by the Engineer prior to paving.
9. No longitudinal joints or seams are allowed in bike lanes. If a longitudinal joint is constructed due to the Contractor's work or this requirement, the Contractor shall remove a minimum of 2" of asphalt from the pavement across the entire bike lane using a method approved by the City and then resurface the bike lane to the Engineer's satisfaction.
10. During backfill operations, the trench shall be backfilled, compacted, and tested to the spring line of any utilities crossing the trench before proceeding with further backfill.
11. Unless specified otherwise, measurement for payment of additional bedding, imported backfill and temporary paving (when listed as separate pay items) shall be based upon the trench widths defined on this detail. The lower trench width for 8" pipe shall be 30".
12. Clean and tackcoat sides of excavation and between paving courses with spray application of SS-1 emulsion before placing asphalt-concrete pavement section.
13. If the distance to the edge of gutter is less than 3' from one trench edge, the pavement replacement shall extend to the edge of existing gutter.
14. In areas where existing paving consists of rubberized AC, the trench area should be repaved with the equivalent pavement section of rubberized AC. As an alternate, a dense graded AC section equivalent to two-times the the thickness of the rubberized AC may be substituted.

CITY OF OAKLAND | DESIGN AND CONSTRUCTION SERVICES DEPARTMENT

TRENCH DETAIL

ENGINEERING DESIGN MANAGER
DATE: JANUARY 2002
DWG. D-22.1





REGISTERED CIVIL ENGINEER

October 30, 2015
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

Hector David Cordova
C41957
3-31-16

NOTES:

1. As site conditions dictate, Case A through Case G curb ramps may be used for corner installations similar to those shown in Detail A and Detail B. The case of curb ramps used in Detail A do not have to be the same. Case A through Case G curb ramps also may be used at mid block locations, as site conditions dictate.
2. If distance from curb to back of sidewalk is too short to accommodate ramp and 4'-2" platform (landing) as shown in Case A, the sidewalk may be depressed longitudinally as in Case B or C or may be widened as in Case D.
3. When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B.
4. As site conditions dictate, the retaining curb side and the flared side of the Case G ramp shall be constructed in reversed position.
5. If located on a curve, the sides of the ramp need not be parallel, but the minimum width of the ramp shall be 4'-2".
6. Side slope of ramp flares vary uniformly from a maximum of 9.0% at curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in Case C and Case F.
7. Transitions from ramps and landing to walks, gutters or streets shall be flush (no lip) and free of abrupt changes.
8. Counter slopes of adjoining gutters and road surfaces immediately adjacent to and within 24 inches of the curb ramp shall not be steeper than 1V:20H (5.0%). Gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.
9. Curb ramps shall have a detectable warning surface that extends the full width and 3'-0" depth of the ramp. A 4'-0" wide detectable warning surface may be used on a 4'-2" wide curb ramp. Detectable Warning Surfaces shall conform to the requirements in the Standard Specifications.
10. Sidewalk and ramp thickness, "T", shall be 3½" minimum.
11. Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated or adjusted to grade by the owner prior to, or in conjunction with, curb ramp construction.
12. Detectable warning surface may have to be cut to allow removal of utility covers while maintaining full detectable warning width and depth.

RAISED TRUNCATED DOME PATTERN (IN-LINE)
DETECTABLE WARNING SURFACE
See Note 9

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
CURB RAMP DETAILS
NO SCALE

A88A

2015 STANDARD PLAN A88A

DRAWN BY: Author
PROJECT NUMBER: 18-010
SHEET ISSUE DATE: 10/14/19
SHEET TITLE:

DETAILS

SHEET NUMBER
C-6.1

PURPOSE:

THE PURPOSE OF THIS PLAN IS TO STABILIZE THE SITE TO PREVENT EROSION OF GRADED AREAS AND TO PREVENT SEDIMENTATION FROM LEAVING THE CONSTRUCTION AREA AND AFFECTING NEIGHBORING SITES, NATURAL AREAS, PUBLIC FACILITIES OR ANY OTHER AREA THAT MIGHT BE AFFECTED BY SEDIMENTATION. ALL MEASURES SHOWN ON THIS PLAN SHOULD BE CONSIDERED THE MINIMUM REQUIREMENTS NECESSARY. SHOULD FIELD CONDITIONS DICTATE ADDITIONAL MEASURES, SUCH MEASURES SHALL BE PER CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD'S FIELD MANUAL FOR EROSION AND SEDIMENTATION CONTROL AND THE CALIFORNIA STORM WATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICES HANDBOOK FOR CONSTRUCTION. LEA & BRAZE ENGINEERING SHOULD BE NOTIFIED IMMEDIATELY SHOULD CONDITIONS CHANGE.

EROSION CONTROL NOTES:

1. IT SHALL BE THE OWNER'S/CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CONTROL OF THE ENTIRE CONSTRUCTION OPERATION AND TO KEEP THE ENTIRE SITE IN COMPLIANCE WITH THIS EROSION CONTROL PLAN.
2. THE INTENTION OF THIS PLAN IS FOR INTERIM EROSION AND SEDIMENT CONTROL ONLY. ALL EROSION CONTROL MEASURES SHALL CONFORM TO CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD'S FIELD MANUAL FOR EROSION AND SEDIMENTATION CONTROL, THE CALIFORNIA STORM WATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICES HANDBOOK FOR CONSTRUCTION, AND THE LOCAL GOVERNING AGENCY FOR THIS PROJECT.
3. OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO, DURING, AND AFTER STORM EVENTS. PERSON IN CHARGE OF MAINTAINING EROSION CONTROL MEASURES SHOULD WATCH LOCAL WEATHER REPORTS AND ACT APPROPRIATELY TO MAKE SURE ALL NECESSARY MEASURES ARE IN PLACE.
4. SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
5. DURING THE RAINY SEASON, ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT–LADEN RUNOFF TO ANY STORM DRAINAGE SYSTEM, INCLUDING EXISTING DRAINAGE SWALES AND WATERCOURSES.
6. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION WILL BE MINIMIZED. COMPLIANCE WITH FEDERAL, STATE AND LOCAL LAWS CONCERNING POLLUTION SHALL BE MAINTAINED AT ALL TIMES.
7. CONTRACTOR SHALL PROVIDE DUST CONTROL AS REQUIRED BY THE APPROPRIATE FEDERAL, STATE AND LOCAL AGENCY REQUIREMENTS.
8. ALL MATERIALS NECESSARY FOR THE APPROVED EROSION CONTROL MEASURES SHALL BE IN PLACE BY OCTOBER 15TH.
9. EROSION CONTROL SYSTEMS SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE RAINY SEASON, OR FROM OCTOBER 15TH THROUGH APRIL 15TH, WHICHEVER IS LONGER.
10. IN THE EVENT OF RAIN, ALL GRADING WORK IS TO CEASE IMMEDIATELY AND THE SITE IS TO BE SEALED IN ACCORDANCE WITH THE APPROVAL EROSION CONTROL MEASURES AND APPROVED EROSION CONTROL PLAN.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND REPAIRING EROSION CONTROL SYSTEMS AFTER EACH STORM.
12. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY LOCAL JURISDICTION'S ENGINEERING DEPARTMENT OR BUILDING OFFICIALS.
13. MEASURES SHALL BE TAKEN TO COLLECT OR CLEAN ANY ACCUMULATION OR DEPOSIT OF DIRT, MUD, SAND, ROCKS, GRAVEL OR DEBRIS ON THE SURFACE OF ANY STREET, ALLEY OR PUBLIC PLACE OR IN ANY PUBLIC STORM DRAIN SYSTEMS. THE REMOVAL OF AFORESAID SHALL BE DONE BY STREET SWEEPING OR HAND SWEEPING. WATER SHALL NOT BE USED TO WASH SEDIMENTS INTO PUBLIC OR PRIVATE DRAINAGE FACILITIES.
14. EROSION CONTROL MEASURES SHALL BE ON–SITE FROM SEPTEMBER 15TH THRU APRIL 15TH.
15. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE RAINY SEASON OR FROM OCTOBER 1ST THROUGH APRIL 30TH, WHICHEVER IS GREATER.
16. PLANS SHALL BE DESIGNED TO MEET C3 REQUIREMENTS OF THE MUNICIPAL STORMWATER REGIONAL PERMIT("MRP") NPDES PERMIT CAS 612008.
17. THE CONTRACTOR TO NPDES (NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM) BEST MANAGEMENT PRACTICES (BMP) FOR SEDIMENTATION PREVENTION AND EROSION CONTROL TO PREVENT DELETERIOUS MATERIALS OR POLLUTANTS FROM ENTERING THE TOWN OR COUNTY STORM DRAIN SYSTEMS.
18. THE CONTRACTOR MUST INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO THE INCEPTION OF ANY WORK ONSITE AND MAINTAIN THE MEASURES UNTIL THE COMPLETION OF ALL LANDSCAPING.
19. THE CONTRACTOR SHALL MAINTAIN ADJACENT STREETS IN A NEAT, CLEAN DUST FREE AND SANITARY CONDITION AT ALL TIMES AND TO THE SATISFACTION OF THE TOWN INSPECTOR. THE ADJACENT STREET SHALL AT ALL TIMES BE KEPT CLEAN OF DEBRIS, WITH DUST AND OTHER NUISANCE BEING CONTROLLED AT ALL TIMES. THE CONTRACTOR BE RESPONSIBLE FOR ANY CLEAN UP ON ADJACENT STREETS AFFECTED BY THE BY THEIR CONSTRUCTION, METHOD OF STREET CLEANING SHALL BE BY DRY SWEEPING OF ALL PAVED AREAS. NO STOCKPILING OF BUILDING MATERIALS WITHIN THE TOWN RIGHT–OF–WAY.
20. SEDIMENTS AND OTHER MATERIALS SHALL NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONTRACTOR SHALL INSTALL A STABILIZED CONSTRUCTION ENTRANCE PRIOR TO THE INSPECTION OF ANY WORK ONSITE AND MAINTAIN IT FOR THE DURATION OF THE CONSTRUCTION PROCESS SO AS TO NOT INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC RIGHT–OF–WAY UNTIL THE COMPLETION OF ALL LANDSCAPING.
21. THE CONTRACTOR SHALL PROTECT DOWN SLOPE DRAINAGE COURSES, STREAMS AND STORM DRAINS WITH ROCK FILLED SAND BAGS, TEMPORARY SWALES, SILT FENCES, AND EARTH PERMS IN CONJUNCTION OF ALL LANDSCAPING.
22. STOCKPILED MATERIALS SHALL BE COVERED WITH VISQUEEN OR A TARPAULIN UNTIL THE MATERIAL IS REMOVED FROM THE SITE. ANY REMAINING BARE SOIL THAT EXISTS AFTER THE STOCKPILE HAS BEEN REMOVED SHALL BE COVERED UNTIL A NATURAL GROUND COVER IS ESTABLISHED OR IT IS SEEDED OR PLANTED TO PROVIDE GROUND COVER PRIOR TO THE FALL RAINY SEASON.
23. EXCESS OR WASTE CONCRETE MUST NOT BE WASHED INTO THE PUBLIC RIGHT–OF–WAYOR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
24. TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION AND DISPERSAL BY WIND FUELS, OILS, SOLVENTS AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MUST NOT BE WASHED INTO THE DRAINAGE SYSTEM,
25. DUST CONTROL SHALL BE DONE BY WATERING AND AS OFTEN AS REQUIRED BY THE TOWN INSPECTOR.
26. SILT FENCE(S) AND/OR FIBER ROLL(S) SHALL BE INSTALLED PRIOR TO SEPTEMBER 15TH AND SHALL REMAIN IN PLACE UNTIL THE LANDSCAPING GROUND COVER IS INSTALLED. CONTRACTOR SHALL CONTINUOUSLY MONITOR THESE MEASURES, FOLLOWING AND DURING ALL RAIN EVENTS,TO PUBLIC OWNED FACILITIES.

EROSION CONTROL MEASURES:

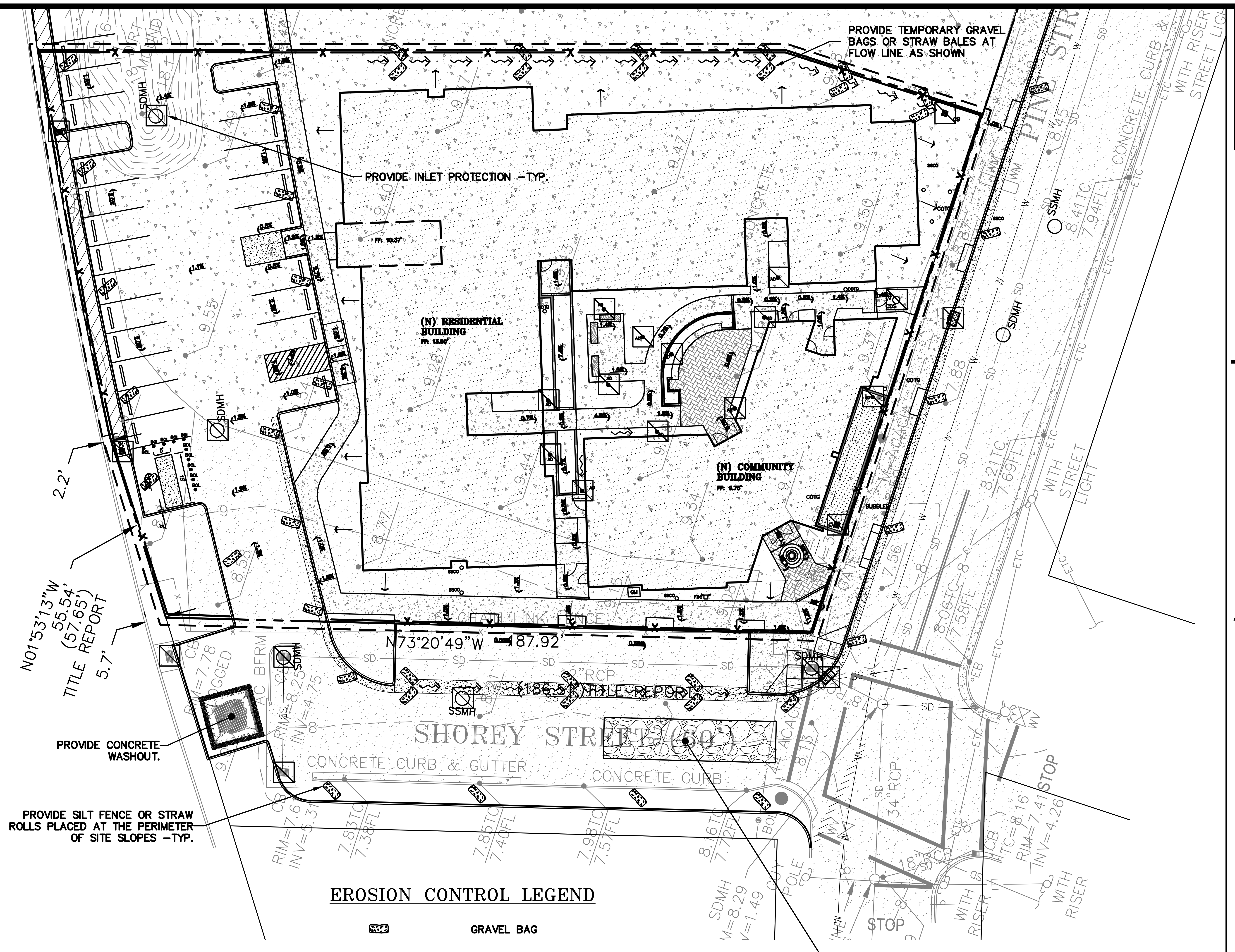
1. THE FACILITIES SHOWN ON THIS PLAN ARE DESIGNED TO CONTROL EROSION AND SEDIMENT DURING THE RAINY SEASON, OCTOBER 15TH TO APRIL 15. EROSION CONTROL FACILITIES SHALL BE IN PLACE PRIOR TO OCTOBER 15TH OF ANY YEAR. GRADING OPERATIONS DURING THE RAINY SEASON WHICH LEAVE DENUDED SLOPES SHALL BE PROTECTED WITH EROSION CONTROL MEASURES IMMEDIATELY FOLLOWING GRADING ON THE SLOPES.
2. SITE CONDITIONS AT TIME OF PLACEMENT OF EROSION CONTROL MEASURES WILL VARY. APPROPRIATE ACTION INCLUDING TEMPORARY SWALES, INLETS, HYDROSEEDING, STRAW BALES, ROCK SACKS, ETC. SHALL BE TAKEN TO PREVENT EROSION AND SEDIMENTATION FROM LEAVING SITE. EROSION CONTROL MEASURES SHALL BE ADJUSTED AS THE CONDITIONS CHANGE AND THE NEED OF CONSTRUCTION SHIFT.
3. CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF GRADING. ALL CONSTRUCTION TRAFFIC ENTERING ONTO THE PAVED ROADS MUST CROSS THE STABILIZED CONSTRUCTION ENTRANCES. CONTRACTOR SHALL MAINTAIN STABILIZED ENTRANCE AT EACH VEHICLE ACCESS POINT TO EXISTING PAVED STREETS. ANY MUD OR DEBRIS TRACKED ONTO PUBLIC STREETS SHALL BE REMOVED DAILY AND AS REQUIRED BY THE GOVERNING AGENCY.
4. ALL EXPOSED SLOPES THAT ARE NOT VEGETATED SHALL BE HYDROSEEDED. IF HYDROSEEDING IS NOT USED OR IS NOT EFFECTIVE BY OCTOBER 15, THEN OTHER IMMEDIATE METHODS SHALL BE IMPLEMENTED, SUCH AS EROSION CONTROL BLANKETS, OR A THREE–STEP APPLICATION OF 1) SEED, MULCH, FERTILIZER 2) BLOWN STRAW 3) TACKIFIER AND MULCH. HYDROSEEDING SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF SECTION 20" EROSION CONTROL AND HIGHWAY PLANTING" OF THE STANDARD SPECIFICATION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, AS LAST REVISED. REFER TO THE EROSION CONTROL SECTION OF THE GRADING SPECIFICATIONS THAT ARE A PART OF THIS PLAN SET FOR FURTHER INFORMATION.
5. INLET PROTECTION SHALL BE INSTALLED AT OPEN INLETS TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM. INLETS NOT USED IN CONJUNCTION WITH EROSION CONTROL ARE TO BE BLOCKED TO PREVENT ENTRY OF SEDIMENT. MINIMUM INLET PROTECTION SHALL CONSIST OF A ROCK SACKS OR AS SHOWN ON THIS PLAN
6. THIS EROSION AND SEDIMENT CONTROL PLAN MAY NOT COVER ALL THE SITUATIONS THAT MAY ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS AND ADDITIONS MAY BE MADE TO THIS PLAN IN THE FIELD. A REPRESENTATIVE OF LEA & BRAZE ENGINEERING SHALL PERFORM A FIELD REVIEW AND MAKE RECOMMENDATIONS AS NEEDED. CONTRACTOR IS RESPONSIBLE TO NOTIFY LEA & BRAZE ENGINEERING AND THE GOVERNING AGENCY OF ANY CHANGES.
7. THE EROSION CONTROL MEASURES SHALL CONFORM TO THE LOCAL JURISDICTION'S STANDARDS AND THE APPROVAL OF THE LOCAL JURISDICTION'S ENGINEERING DEPARTMENT.
8. STRAW ROLLS SHALL BE PLACED AT THE TOE OF SLOPES AND ALONG THE DOWN SLOPE PERIMETER OF THE PROJECT. THEY SHALL BE PLACED AT 25 FOOT INTERVALS ON GRADED SLOPES. PLACEMENT SHALL RUN WITH THE CONTOURS AND ROLLS SHALL BE TIGHTLY END BUTTED. CONTRACTOR SHALL REFER TO MANUFACTURES SPECIFICATIONS FOR PLACEMENT AND INSTALLATION INSTRUCTIONS.

REFERENCES:

1. CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD'S FIELD MANUAL FOR EROSION AND SEDIMENTATION CONTROL
2. CALIFORNIA STORM WATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICES HANDBOOK FOR CONSTRUCTION

PERIODIC MAINTENANCE:

1. MAINTENANCE IS TO BE PERFORMED AS FOLLOWS:
   - A. DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION SHALL BE REPAIRED AT THE END OF EACH WORKING DAY.
   - B. SWALES SHALL BE INSPECTED PERIODICALLY AND MAINTAINED AS NEEDED.
   - C. SEDIMENT TRAPS, BERMS, AND SWALES ARE TO BE INSPECTED AFTER EACH STORM AND REPAIRS MADE AS NEEDED.
   - D. SEDIMENT SHALL BE REMOVED AND SEDIMENT TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO A DEPTH OF 1' FOOT.
   - E. SEDIMENT REMOVED FROM TRAP SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
   - F. RILLS AND GULLIES MUST BE REPAIRED.
2. GRAVEL BAG INLET PROTECTION SHALL BE CLEANED OUT WHENEVER SEDIMENT DEPTH IS ONE HALF THE HEIGHT OF ONE GRAVEL BAG.
3. STRAW ROLLS SHALL BE PERIODICALLY CHECKED TO ASSURE PROPER FUNCTION AND CLEANED OUT WHENEVER THE SEDIMENT DEPTH REACHED HALF THE HEIGHT OF THE ROLL.
4. SILT FENCE SHALL BE PERIODICALLY CHECKED TO ASSURE PROPER FUNCTION AND CLEANED OUT WHENEVER THE SEDIMENT DEPTH REACHES ONE FOOT IN HEIGHT.
5. CONSTRUCTION ENTRANCE SHALL BE REGRAVELED AS NECESSARY FOLLOWING SILT/SOIL BUILDUP.
6. ANY OTHER EROSION CONTROL MEASURES SHOULD BE CHECKED AT REGULAR INTERVALS TO ASSURE PROPER FUNCTION



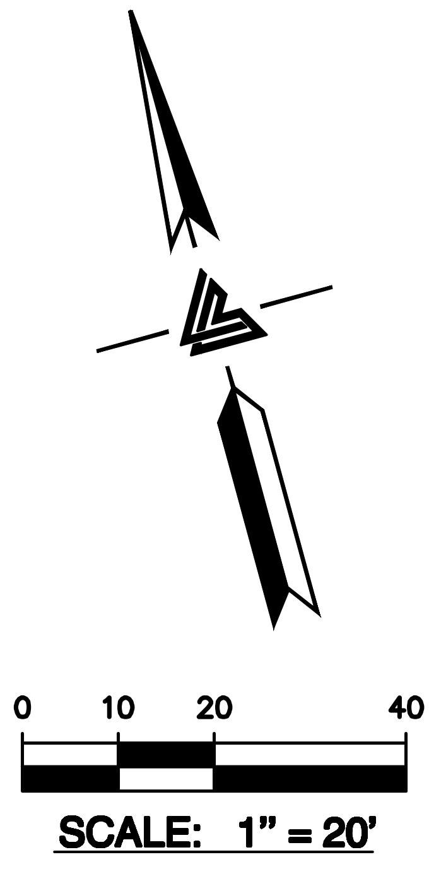
PROVIDE TEMPORARY GRAVEL BAGS OR STRAW BALES AT FLOW LINE AS SHOWN

PROVIDE INLET PROTECTION –TYP.

PROVIDE CONCRETE WASHOUT.

PROVIDE SILT FENCE OR STRAW ROLLS PLACED AT THE PERIMETER OF SITE SLOPES –TYP.

PROVIDE ROCKED CONSTRUCTION ENTRANCE. RELOCATE DURING CONSTRUCTION AS REQUIRED AT THE END OF PAVEMENT.



SCALE: 1" = 20'

EROSION CONTROL LEGEND

▭	GRAVEL BAG
○	SEDIMENTATION BASIN
⧄ ▣	INLET PROTECTION
——SR——SR——	STRAW ROLL
——X——X——	SILT FENCE
▣	CONCRETE WASHOUT
▦	CONSTRUCTION ENTRANCE
○ TP	TREE PROTECTION
▨	EROSION CONTROL BLANKET / MATTING

NOTE:
SEAL ALL OTHER INLETS NOT INTENDED TO ACCEPT STORM WATER AND DIRECT FLOWS TEMPORARILY TO FUNCTIONAL SEDIMENTATION BASIN INLETS. –TYP

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	11-15-19	SITE PERMIT SET	

DRAWN BY: Author
PROJECT NUMBER: 18-010
SHEET ISSUE DATE: 10/14/19
SHEET TITLE:

EROSION CONTROL PLAN

SHEET NUMBER

C-7.0

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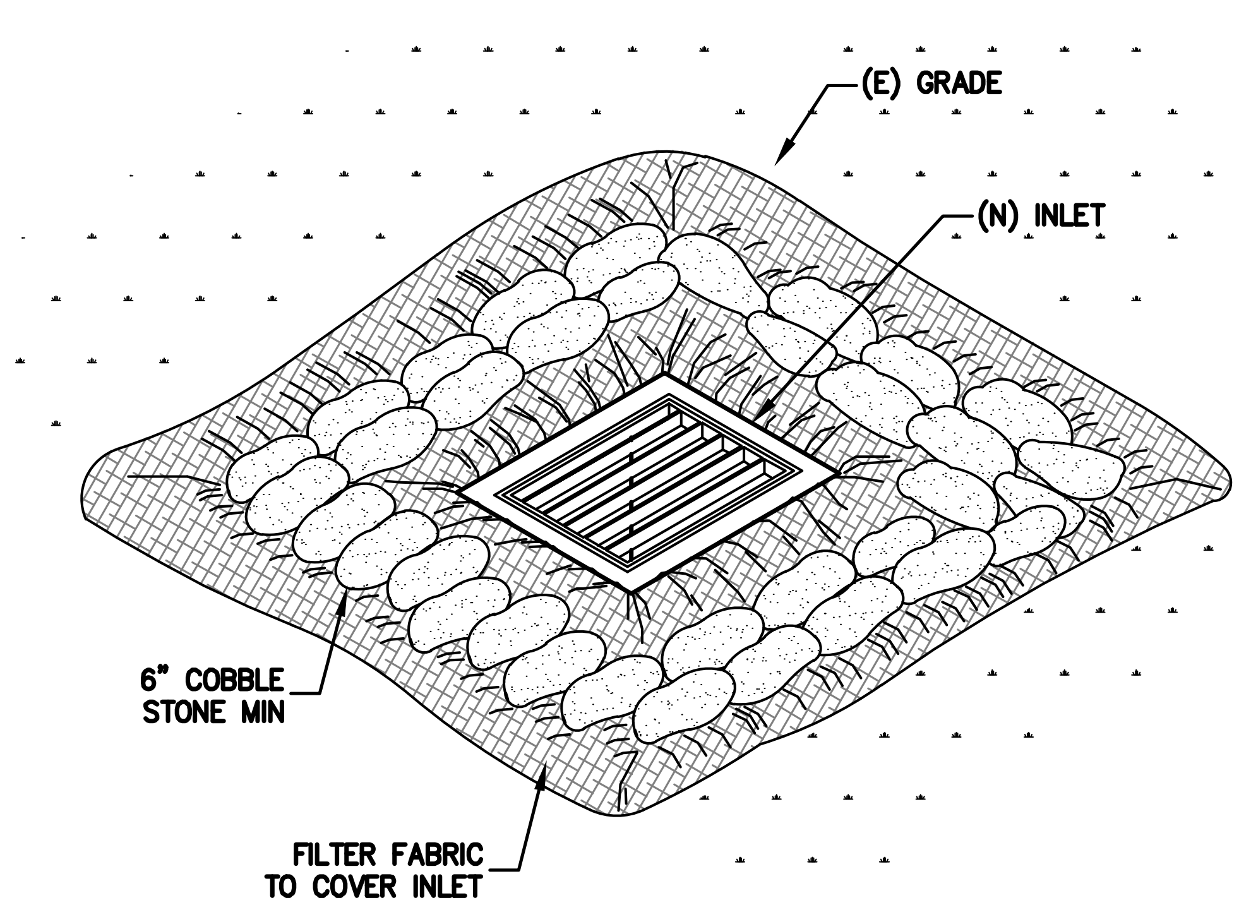

1 INLET PROTECTION
C-7.1

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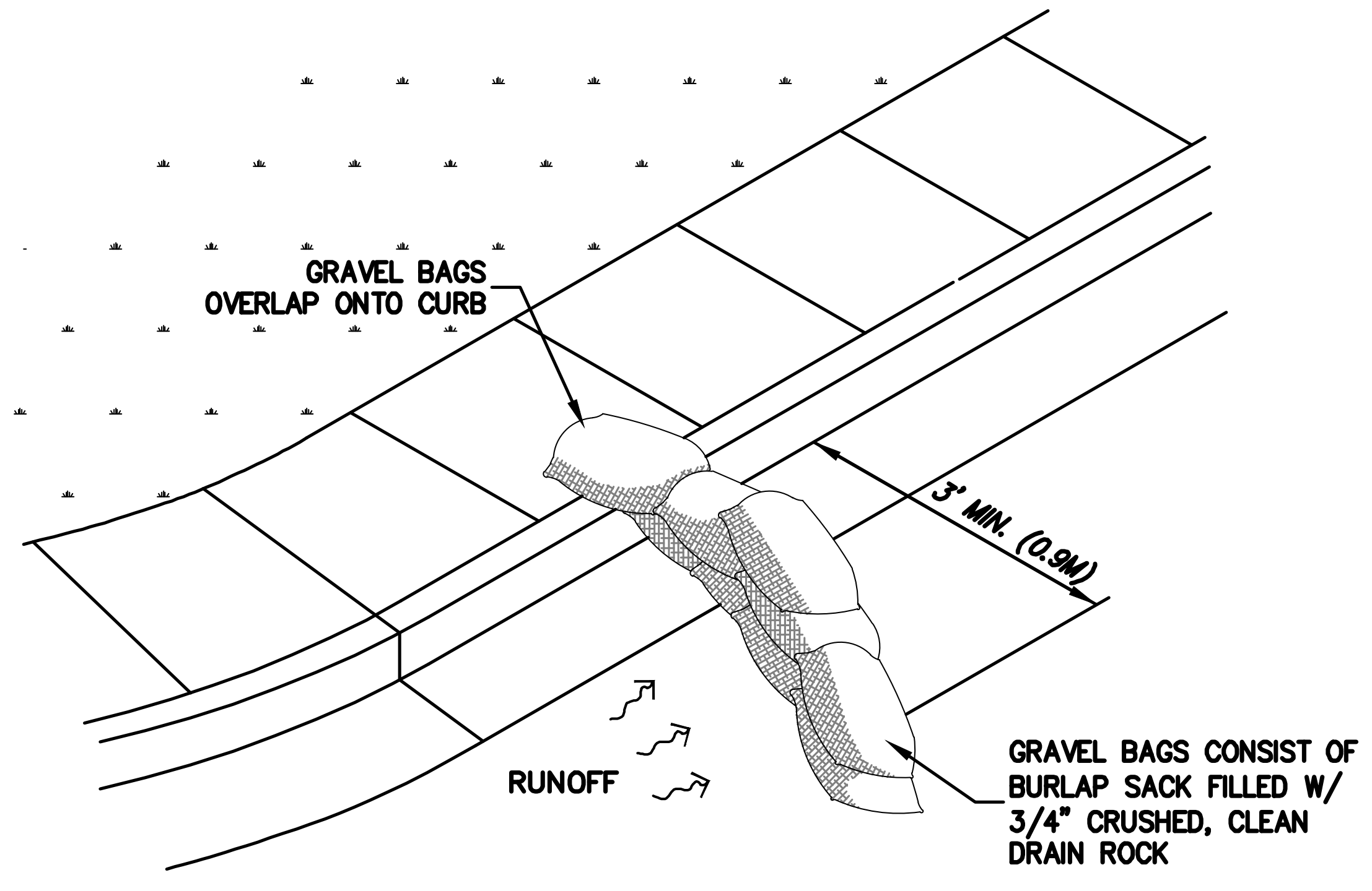
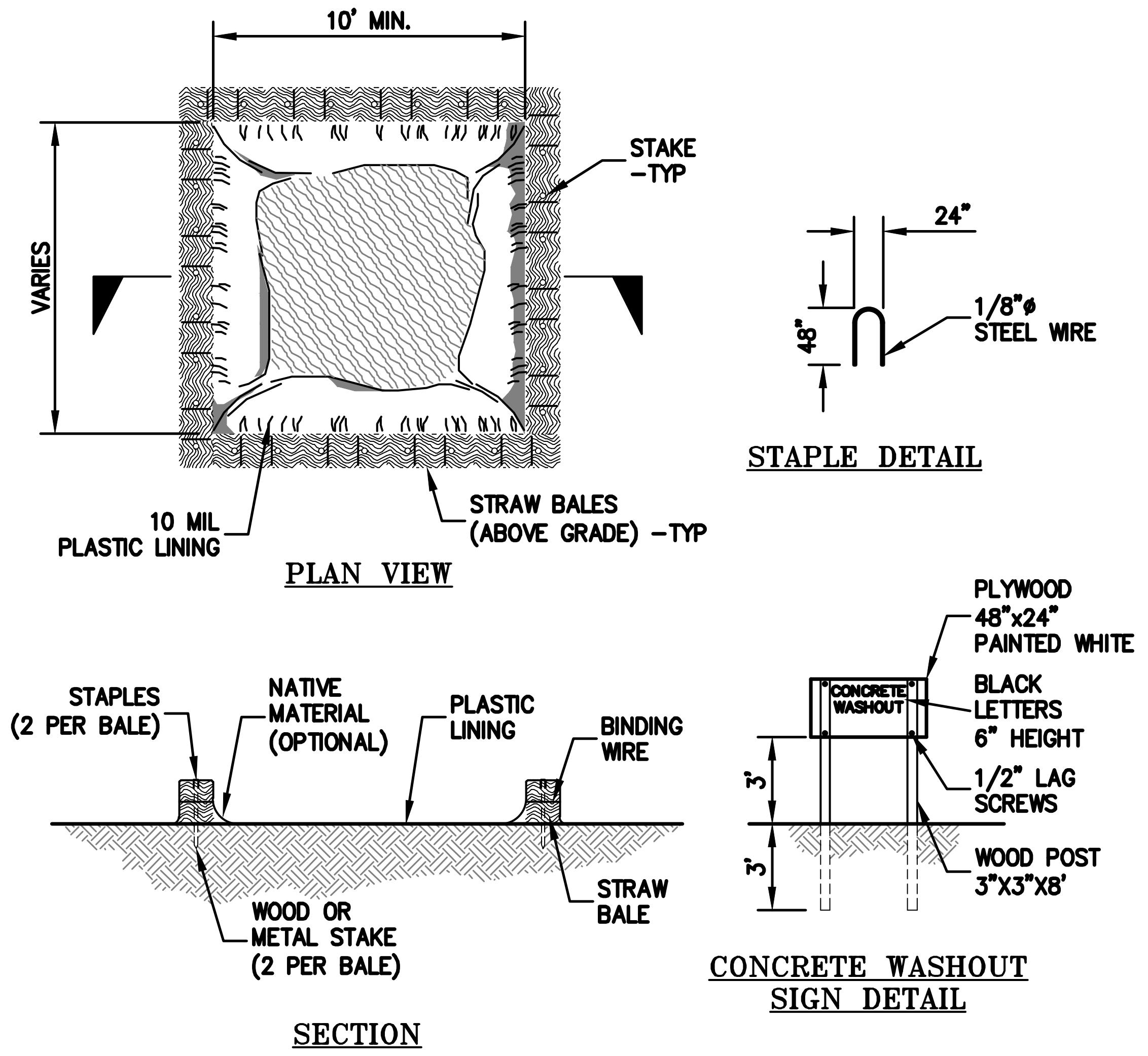


NOTE:
THREE LAYERS OF GRAVEL BAGS WITH ENDS OVERLAPPED

1 GRAVEL BAG AT STREET FLOW LINE
C-7.1

NTS

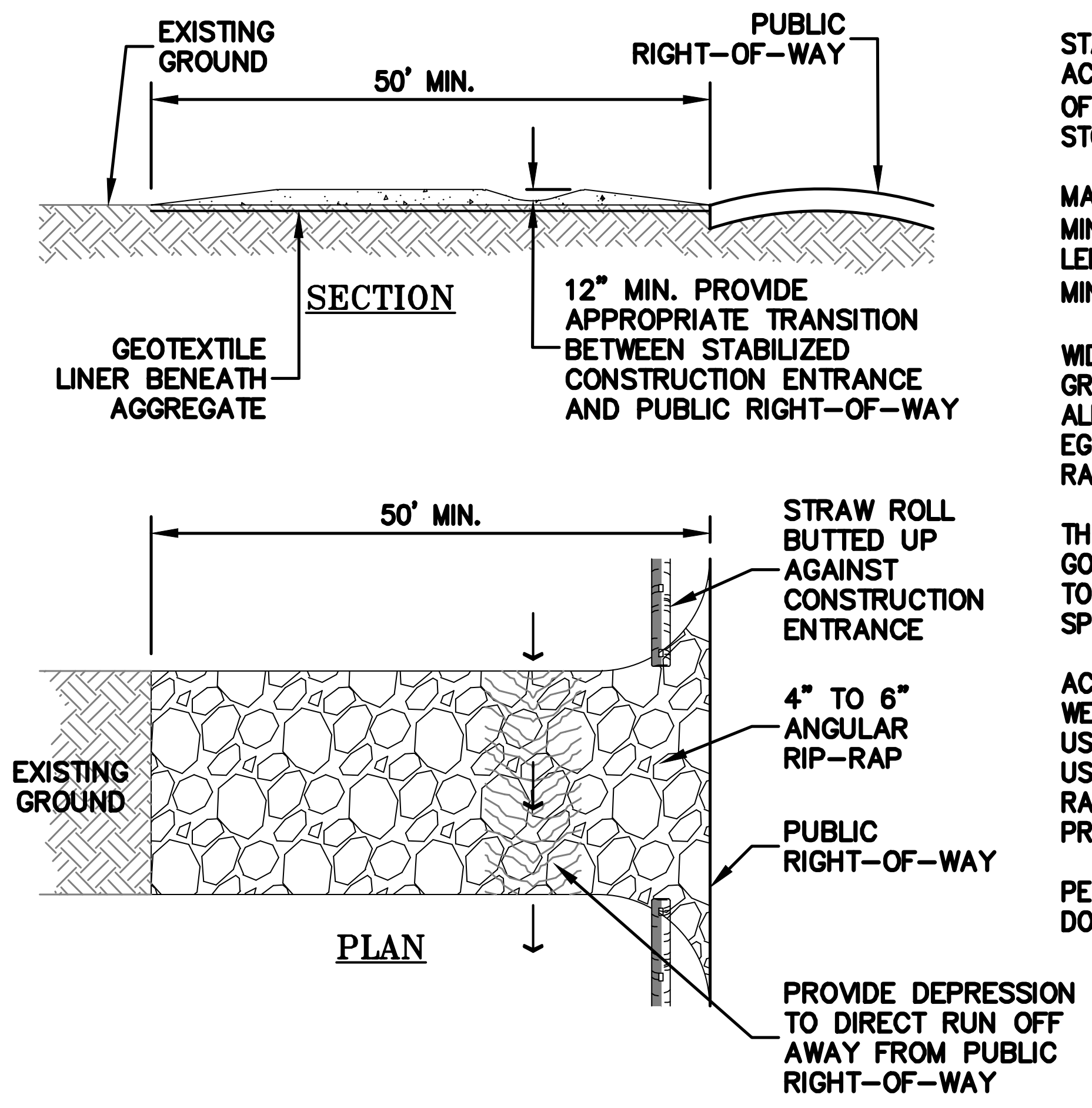


NOTES:
ACTUAL LAYOUT DETERMINED IN FIELD.

THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 10' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

3 CONCRETE WASHOUT
C-7.1

NTS



NOTES:

STABILIZED CONSTRUCTION SITE ACCESS SHALL BE CONSTRUCTED OF 4" TO 6" WASHED, FRACTURED STONE AGGREGATE.

MATERIAL SHALL BE PLACED TO A MINIMUM THICKNESS OF 12". LENGTH OF ENTRANCE SHALL BE A MINIMUM OF 50'.

WIDTH SHALL BE A MIN. OF 15' OR GREATER IF NECESSARY TO COVER ALL VEHICULAR INGRESS AND EGRESS. PROVIDE AMPLE TURNING RADII.

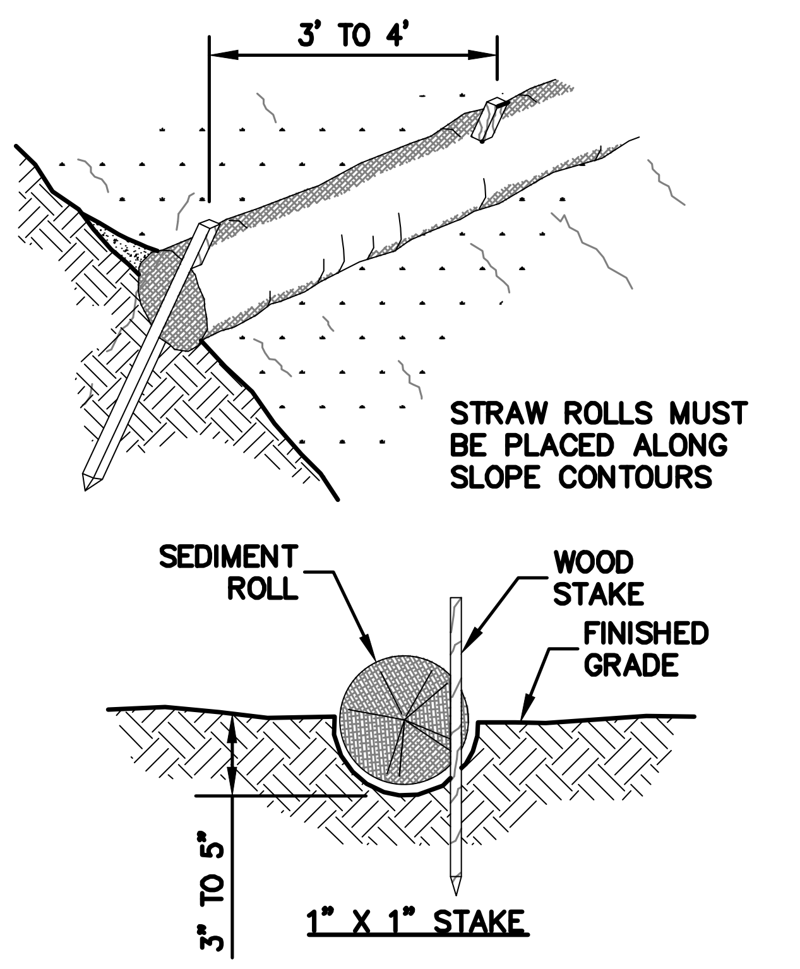
THE ENTRANCE SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL TOP DRESSING WITH MATERIAL AS SPECIFIED IN ABOVE NOTE.

ACCESSES SHALL BE INSPECTED WEEKLY DURING PERIODS OF HEAVY USAGE, MONTHLY DURING NORMAL USAGE, AND AFTER EACH RAINFALL, WITH MAINTENANCE PROVIDED AS NECESSARY.

PERIODIC TOP DRESSING SHALL BE DONE AS NEEDED.

4 CONSTRUCTION ENTRANCE
C-7.1

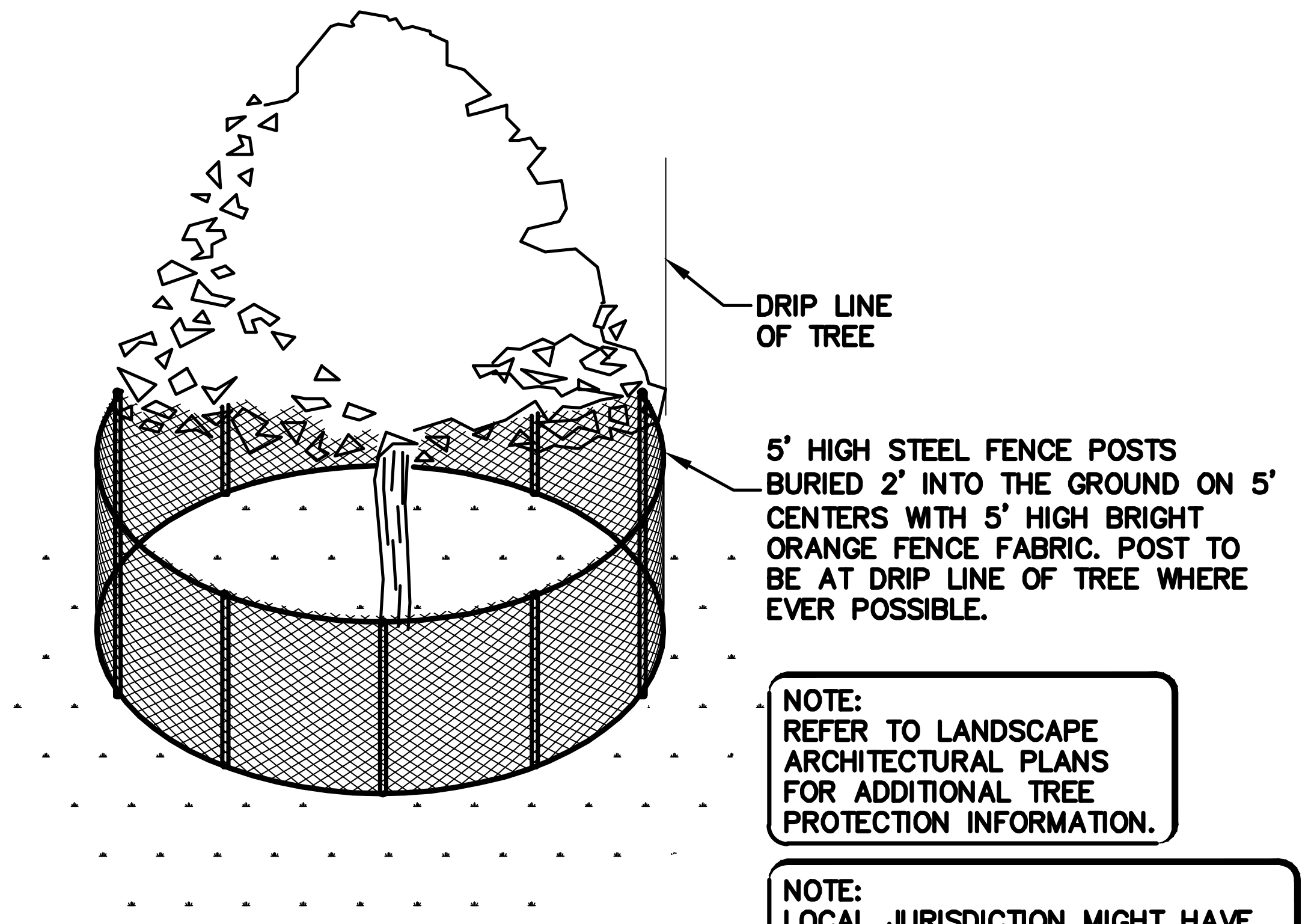
NTS



NOTE:
1. STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3" TO 5" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.
2. CONTRACTOR IS RESPONSIBLE FOR REGULAR MAINTENANCE AND INSPECTION. THE SILT SHALL BE CLEANED OUT WHEN IT REACHES HALF THE HEIGHT OF THE ROLL.

5 STRAW ROLLS FLAT LOT
C-7.1

NTS



NOTE:
REFER TO LANDSCAPE ARCHITECTURAL PLANS FOR ADDITIONAL TREE PROTECTION INFORMATION.

NOTE:
LOCAL JURISDICTION MIGHT HAVE MORE STRINGENT REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING W/ INSPECTOR TO ENSURE PROPER PROCEDURES ARE BEING FOLLOWED.

6 EXISTING TREE PROTECTION DETAIL
C-7.1

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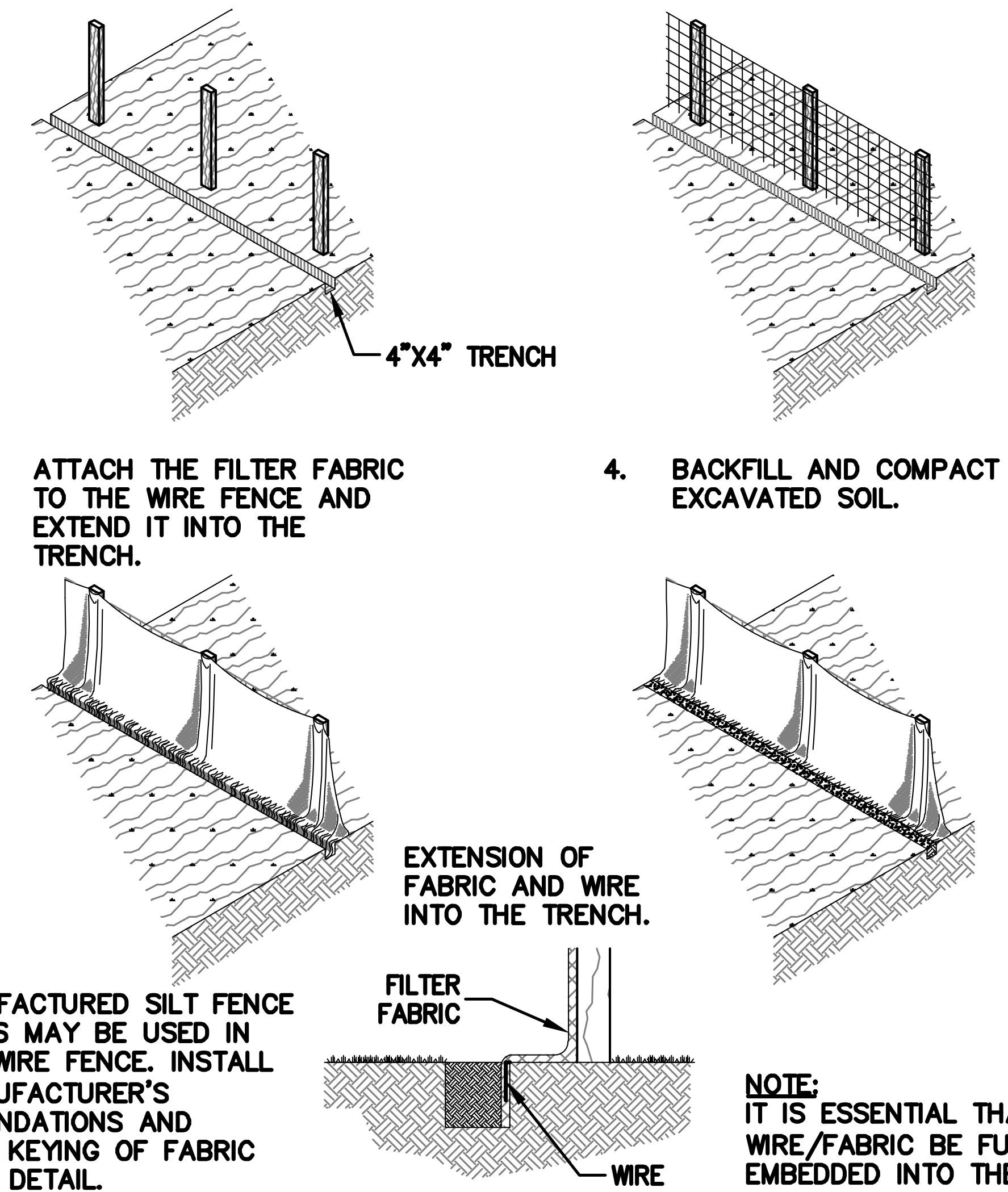

1. SET POSTS AND EXCAVATE A 4"X4" TRENCH UP SLOPE ALONG THE LINE OF POSTS.
2. STAPLE WIRE FENCE TO THE POSTS.
3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.

NOTE:
PREMANUFACTURED SILT FENCE PRODUCTS MAY BE USED IN LIEU OF WIRE FENCE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND MAINTAIN KEYING OF FABRIC PER THIS DETAIL.

NOTE:
IT IS ESSENTIAL THAT THE WIRE/FABRIC BE FULLY EMBEDDED INTO THE GROUND SO RUN-OFF CANNOT FLOW FREELY UNDER FENCE.

7 SILT FENCE
C-7.1

NTS

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#	DATE	ISSUES & REVISIONS	BY
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EROSION CONTROL DETAILS

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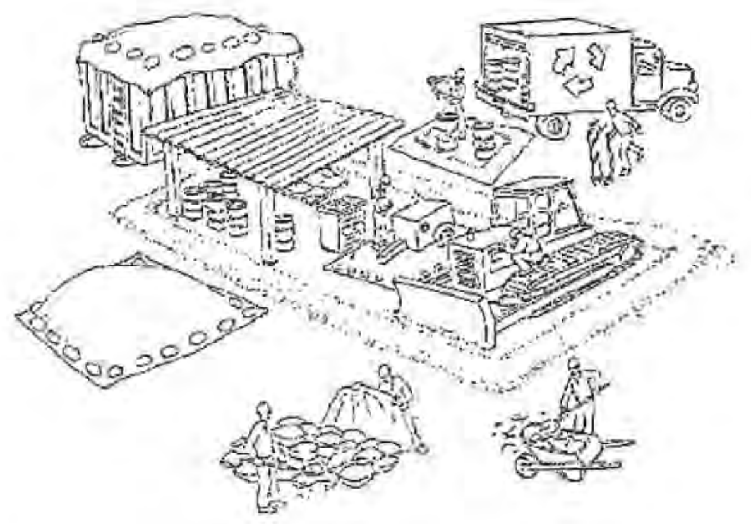
Pollution Prevention - It's Part of the Plan



Make sure your crews and subs do the job right!

Runoff from streets and other paved areas is a major source of pollution and damage to creeks and the San Francisco Bay. Construction activities can directly affect the health of creeks and the Bay unless contractors and crews plan ahead to keep dirt, debris, and other construction waste away from storm drains and local creeks. Following these guidelines and the project specifications will ensure your compliance with County of Alameda requirements.

Materials storage & spill cleanup

Non-hazardous materials management

- Sand, dirt, and similar materials must be stored at least 10 feet (3 meters) from catch basins. All construction material must be covered with a tarp and contained with a perimeter control during wet weather or when rain is forecasted or when not actively being used within 14 days.
- Use (but don't overuse) reclaimed water for dust control as needed.
- Sweep or vacuum streets and other paved areas daily. Do not wash down streets or work areas with water!
- Recycle all asphalt, concrete, and aggregate base material from demolition activities. Comply with Alameda County Ordinances for recycling construction materials, wood, gyp board, pipe, etc.
- Check dumpsters regularly for leaks and to make sure they are not overfilled. Repair or replace leaking dumpsters promptly.
- Cover all dumpsters with a tarp at the end of every work day or during wet weather.

Hazardous materials management

- Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state, and federal regulations.
- Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecasted.
- Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecasted within 24 hours.
- Be sure to arrange for appropriate disposal of all hazardous wastes.

Spill prevention and control

- Keep a stockpile of spill cleanup materials (rags, absorbents, etc.) available at the construction site at all times.
- When spills or leaks occur, contain them immediately and be particularly careful to prevent leaks and spills from reaching the gutter, street, or storm drain. Never wash spilled material into a gutter, street, storm drain, or creek!
- Dispose of all containment and cleanup materials properly.
- Report any hazardous materials spills immediately! Dial 911 or Alameda

[[== Insert Agency Name and phone number ==]]

Construction Entrances and Perimeter

- Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking.

Vehicle and equipment maintenance & cleaning

- Inspect vehicles and equipment for leaks frequently. Use drip pans to catch leaks until repairs are made; repair leaks promptly.
- Fuel and maintain vehicles on site only in a bermed area or over a drip pan that is big enough to prevent runoff.
- If you must clean vehicles or equipment on site, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or creeks.
- Do not clean vehicles or equipment on-site using soaps, solvents, degreasers, steam cleaning equipment, etc.

Earthwork & contaminated soils

- Keep excavated soil on the site where it will not collect in the street.
- Transfer to dump trucks should take place on the site, not in the street.
- Use fiber rolls, silt fences, or other control measures to minimize the flow of silt off the site.

- Earth moving activities are only allowed during dry weather by permit and as approved by the County Inspector in the Field.
- Mature vegetation is the best form of erosion control. Minimize disturbance to existing vegetation whenever possible.
- If you disturb a slope during construction, prevent erosion by securing the soil with erosion control fabric, or seed with fast-growing grasses as soon as possible. Place fiber rolls down-slope until soil is secure.
- If you suspect contamination (from site history, discoloration, odor, texture, abandoned underground tanks or pipes, or buried debris), call the Engineer for help in determining what should be done, and manage disposal of cntaminated soil according to their instructions.

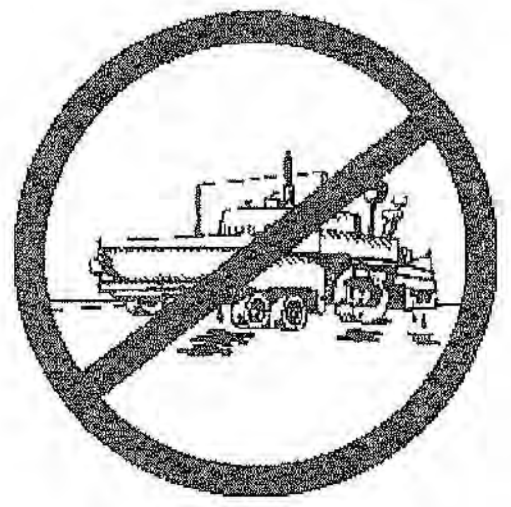
Dewatering operations

- Effectively manage all run-on, all runoff within the site, and all runoff that discharges from the site. Run-on from off site shall be directed away from all disturbed areas or shall collectively be in compliance.
- Reuse water for dust control, irrigation, or another on-site purpose to the greatest extent possible.
- Be sure to notify and obtain approval from the Engineer before discharging water to a street, gutter, or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- In areas of known contamination, testing is required prior to reuse or discharge of groundwater. Consult with the Engineer to determine what testing is required and how to interpret results. Contaminated groundwater must be treated or hauled off-site for proper disposal.

Saw cutting

- Always completely cover or barricade storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or sand/gravel bags to keep slurry out of the storm drain system.
- Shovel, absorb, or vacuum saw-cut slurry and pick up all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- If saw cut slurry enters a catch basin, clean it up immediately.

Paving/asphalt work



- Always cover storm drain inlets and manholes when paving or applying seal coat, tack coat, slurry seal, or fog seal.
- Protect gutters, ditches, and drainage courses with sand/gravel bags, or earthen berms.
- Do not sweep or wash down excess sand from sand sealing into gutters, storm drains, or creeks. Collect sand and return it to the stockpile, or dispose of it as trash.
- Do not use water to wash down fresh asphalt concrete pavement.

Concrete, grout, and mortar storage & waste disposal

- Store concrete, grout, and mortar under cover, on pallets, and away from drainage areas. These materials must never reach a storm drain.
- Wash out concrete equipment/trucks off-site or into contained washout areas that will not allow discharge of wash water onto the underlying soil or onto the surrounding areas.

- Collect the wash water from washing exposed aggregate concrete and remove it for appropriate disposal off site.

Painting

- Never rinse paint brushes or materials in a gutter or street!
- Paint out excess water-based paint before rinsing brushes, rollers, or containers in a sink.
- Paint out excess oil-based paint before cleaning brushes in thinner.
- Filter paint thinners and solvents for reuse whenever possible. Dispose of oil-based paint sludge and unusable thinner as hazardous waste.

Landscape Materials

- Contain, cover, and store on pallets all stockpiled landscape materials (mulch, compost, fertilizers, etc.) during wet weather or when rain is forecasted or when not actively being used within 14 days.
- Discontinue the application of any erodible landscape material within 2 days of forecasted rain and during wet weather.

Storm drain polluters may be liable for fines of $10,000 or more per day!

For references and more detailed information:
www.cleanwaterprogram.org
www.cabmphandbooks.com

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#	DATE	ISSUES & REVISIONS	BY
	11-15-19	SITE PERMIT SET	

DRAWN BY: Author
PROJECT NUMBER: 18-010
SHEET ISSUE DATE: 10/14/19
SHEET TITLE:

STORMWATER
POLLUTION
PREVENTION PLAN

SHEET NUMBER
C-7.2

STRUCTURAL - GENERAL NOTES

GENERAL REQUIREMENTS

GOVERNING CODE: The design and construction of this project is governed by the **"California Building Code (CBC)", 2016 Edition**, hereafter referred to as the CBC, as adopted and modified by the City of **Oakland, CA** understood to be the Authority Having Jurisdiction (AHJ).

REFERENCE STANDARDS: Refer to Chapter 35 of 2016 CBC. Where other Standards are noted in the drawings, use the latest edition of the standard unless a specific date is indicated. Reference to a specific section in a code does not relieve the contractor from compliance with the entire standard.

DEFINITIONS: The following definitions cover the meanings of certain terms used in these notes:

"**Architect/Engineer**" – The Architect of Record and the Structural Engineer of Record.

- "**Structural Engineer of Record" (SER)** – The structural engineer who is licensed to stamp & sign the structural documents for the project. The SER is responsible for the design of the Primary Structural System.
- "**Submit for review**" - Submit to the Architect/Engineer for review prior to fabrication or construction.
- "**Per Plan**" – Indicates references to the structural plans, elevations and structural general notes.
- **"Specialty Structural Engineer" (SSE) –** A professional engineer (PE or SE), licensed in the State where the project is located, (typically not the SER), who performs specialty structural engineering services for selected specialty-engineered elements identified in the Contract Documents, and who has experience and training in the Specialty. Documents stamped and signed by the SSE shall be completed by or under the direct supervision of the SSE.
- **"Bidder-designed" –** Components of the structure that require the general contractor, subcontractor, or supplier who is responsible for the design, fabrication and installation of specialty-engineered elements identified in the Contract Documents to retain the services of an SSE. Submittals of "Bidder-designed" elements shall be stamped and signed by the SSE.

SPECIFICATIONS: Refer to the project specifications issued as part of the contract documents for information supplemental to these drawings.

OTHER DRAWINGS: Refer to the architectural, mechanical, electrical, civil and plumbing drawings for additional information including but not limited to: dimensions, elevations, slopes, door and window openings, non-bearing walls, stairs, finishes, drains, waterproofing, railings, curtain walls, elevators, curbs, depressions, mechanical unit locations, and other nonstructural items.

STRUCTURAL DETAILS: The structural drawings are intended to show the general character and extent of the project and are not intended to show all details of the work. Use entire detail sheets and specific details referenced in the plans as "typical" wherever they apply. Similarly, use details on entire sheets with "typical" in the name wherever they apply.

STRUCTURAL RESPONSIBILITIES: The structural engineer (SER) is responsible for the strength and stability of the primary structure in its completed form.

COORDINATION: The Contractor is responsible for coordinating details and accuracy of the work; for confirming and correlating all quantities and dimensions; for selecting fabrication processes; for techniques of assembly; and for performing work in a safe and secure manner.

PRE-CONSTRUCTION MEETINGS: The Contractor is responsible for coordinating pre-construction meetings prior to commencing work. Pre-con meetings, scheduled approximately two weeks prior to the start of the relevant work, are required for the following phases of construction: **Wood Modular Installation**. Attendees for pre-construction meeting are to include contractor, relevant subcontractors, fabricators, inspectors, architect/engineer, and representative of the Authority Having Jurisdiction where required. Meeting agendas are to include review of the work scope, project schedule relevant to the work, contact information of responsible parties, inspection points, review of materials and any special cases or issues, procedures for clarifications if required, testing and acceptance, etc.

MEANS, METHODS and SAFETY REQUIREMENTS: The contractor is responsible for the means and methods of construction and all job related safety standards such as OSHA and DOSH (Department of Occupational Safety and Health).

BRACING/SHORING DESIGN ENGINEER: The contractor shall at his discretion employ an SSE, a registered professional engineer for the design of any temporary bracing and shoring. Submit construction sequence to Architect/Engineer for review.

TEMPORARY SHORING, BRACING: The contractor is responsible for the strength and stability of the structure during construction and shall provide temporary shoring, bracing and other elements required to maintain stability until the structure is complete. It is the contractor's responsibility to be familiar with the work required in the construction documents and the requirements for executing it properly.

CONSTRUCTION LOADS: Loads on the structure during construction shall not exceed the design loads as noted in DESIGN CRITERIA & LOADS below or the capacity of partially completed construction as determined by the Contractor's SSE for Bracing/Shoring.

CHANGES IN LOADING: The contractor has the responsibility to notify the SER of any architectural, mechanical, electrical, or plumbing load imposed onto the structure that differs from, or that is not documented on the original Contract Documents (architectural / structural / mechanical / electrical or plumbing drawings). Provide documentation of location, load, size and anchorage of all undocumented loads in excess of **400** pounds. Provide marked-up structural plan indicating locations of any new equipment or loads. Submit plans to the Architect/Engineer for review prior to installation.

NOTE PRIORITIES: Plan and detail notes and specific loading data provided on individual plans and detail drawings supplements information in the Structural General Notes.

DISCREPANCIES: In case of discrepancies between the General Notes, Specifications, Plans/Details or Reference Standards, the Architect/Engineer shall determine which shall govern. Discrepancies shall be brought to the attention of the Architect/Engineer before proceeding with the work. Should any discrepancy be found in the Contract Documents, the Contractor will be deemed to have included in the price the most expensive way of completing the work, unless prior to the submission of the price, the Contractor asks for a decision from the Architect as to which shall govern. Accordingly, any conflict in or between the Contract Documents shall not be a basis for adjustment in the Contract Price.

SITE VERIFICATION: The contractor shall verify all dimensions and conditions at the site. Conflicts between the drawings and actual site conditions shall be brought to the attention of the Architect/Engineer before proceeding with the work.

ADJACENT UTILITIES: The contractor shall determine the location of all adjacent underground utilities prior to earthwork, foundations, shoring, and excavation. Any utility information shown on the drawings and details is approximate and not necessarily complete.

ALTERNATES: Alternate products of similar strength, nature and form for specified items may be submitted with adequate technical documentation (proper test report, etc.) to the Architect/Engineer for review. Alternate materials that are submitted without adequate technical documentation or that significantly deviate from the design intent of materials specified may be returned without review. Alternates that require substantial effort to review will not be reviewed unless authorized by the Owner.

DESIGN CRITERIA AND LOADS

OCCUPANCY:	Risk Category of Building per 2016 CBC Table 1604.5 =	**II**

WIND DESIGN:	**MAIN WIND FORCE RESISTING SYSTEM**	
	Ultimate Design Wind Speed, V_{ULT} (MPH)	**110**
	Exposure Category	**C**
	Internal Pressure Coefficient **Cpi =**	**+/- 0.18**
	Topographic Factor **Kzt =**	**1.0**
	Wind Analysis procedure used:	**Directional**
	COMPONENT & CLADDING PRESSURES for DESIGN (Ultimate)	**PSF**
	Wall Cladding, Typical Zone	**33**
	Wall Cladding, Edge Zone within **18** feet of corners	**41**
	Roof Cladding, Middle Zone	**34**
	Roof Cladding, Edge Zone within **18** feet of edge	**56**
	Roof Cladding, Corner Zone within **18** feet of corners	**85**
	Uplift Load Net	**10**

SEISMIC DESIGN:	Seismic Design Category: SDC =	D
	Basic Structural System	Bearing Wall
	Seismic Force Resisting System	Light Frame Wood Shear Walls
	Response Modification Factor: R =	6.5
	System Over Strength Factor Omega =	2.5
	Deflection Amplification Factor Cd =	4
	Site Classification per CBC 1613.3.2 & ASCE 7-10, Ch. 20 Site Class =	D
	Seismic Importance Factor per ASCE 7-10 Table 1.5-2 Ie =	1.0
	Spectral Response Acceleration (Short Period) S_s =	1.501g
	Spectral Response Acceleration (1-Second Period) S_1 =	0.600
	Spectral Design Response Coefficient (Short Period) S_{DS} =	1.001 g
	Spectral Design Response Coefficient (1-Second Period) S_{DI} =	0.600 g
	Seismic response coefficient(s) Cs =	0.154
	Redundancy Factor (North/South Direction) N/S rho=	1.0
	Redundancy Factor (East / West Direction) E/W rho=	1.0
	Design Base Shear (North/South Direction) (KIPS)	217
	Design Base Shear (East / West Direction) (KIPS)	217
	Base shear governed by:	Seismic
	Seismic Analysis procedure used:	Equivalent Lateral Force (ELF)

DESIGN LIVE LOADS	**AREA**	**LIVE LOADS (PSF) UNO**	**REMARKS & FOOTNOTES**
	Handrails & Pedestrian Guardrails	50 PLF or 200 LB	(1)
	Stairs & Exits	100 PSF or 300 LB	Stair treads per note (2)
	Corridors above first Floor	----	Same as occupancy served
	Residential, Hotel Rooms	40	
	Balconies & Decks	----	Same as Occupancy served
	Mechanical Rooms	150	
	Light Storage Area	125	
	Roofs	20 PSF or 300 LB	Area load is reducible. Point load per note (2).

(1) Top rail shall be designed to resist 50 PLF line load or 200 lb. point load applied in any direction at any point. Intermediate rails (all those except the handrail), balusters and panel fillers shall be designed to withstand a horizontally applied normal load of 50 LB on an area not to exceed 1 ft. square. These three loads are to be considered separately with worst case used for design.

(2) Place 300 lb. concentrated load over 2"x2" area at any point to produce maximum stress. Area load and concentrated load are to be considered separately with worst case used for design.

DESIGN DEAD LOADS	BIDDER DESIGN	DEAD LOADS (PSF) UNO	REMARKS & FOOTNOTES
	Roof Dead Load, Total Top Chord Bottom Chord	20 PSF **15** PSF **5** PSF	For Pre-Fabricated Wood Roof Truss design, Site-Installed (1)
	Floor Dead Load, Total Top Chord Bottom Chord	**12** PSF **8** PSF **4** PSF	For Pre-Fabricated Wood Floor Truss design, Factory-Installed (1)
	Floor Dead Load, Total Top Chord Bottom Chord	**17** PSF **10** PSF **7** PSF	For Pre-Fabricated Wood Floor Joist design with (2) Layers Gyp, Factory-Installed (1)

(1) Per NFPA 13, Section 9.2.1.3, building structures supporting sprinkler piping shall be designed with the added weight of water-filled pipes plus a minimum 250 lb point load applied at the point of hanging. This point load shall be considered a live load and does not act concurrently with other live loads imposed on the structural element. The additional weight of water-filled pipes is already included in the distributed design dead load

SUBMITTALS

SUBMIT FOR REVIEW: SUBMITTALS of shop drawings, and product data and mill tests are required for items noted in the individual materials sections and for *bidder designed* elements.

SUBMITTAL REVIEW PERIOD: Submittals shall be made in time to provide a minimum of TWO WEEKS or 10 WORKING DAYS for review by the Architect/Engineer prior to the onset of fabrication.

GENERAL CONTRACTOR'S PRIOR REVIEW: Prior to submission to the Architect/Engineer, the Contractor shall review the submittal for completeness. Dimensions and quantities are not reviewed by the SER, and therefore, must be verified by the General Contractor. Contractor shall provide any necessary dimensional details requested by the Detailer and provide the Contractor's review stamp and signature before forwarding to the Architect/Engineer.

SHOP DRAWING REVIEW: Once the contractor has completed his review, the SER will review the submittal for general conformance with the design concept and the contract documents of the building and will stamp the submittal accordingly. Markings or comments shall not be construed as relieving the contractor from compliance with the project plans and specifications, nor departures there from. The SER will return submittals in the form they are submitted in (either hard copy or electronic). For hard copy submittals, the contractor is responsible for submitting the required number of copies to the SER for review.

SHOP DRAWING DEVIATIONS: When shop drawings (component design drawings) differ from or add to the requirements of the structural drawings they shall be designed and stamped by the responsible SSE.

DEFERRED SUBMITTALS

BIDDER-DESIGNED ELEMENTS

Submit "Bidder-Designed" deferred submittals to the Architect and SER for review. The deferred submittals shall also be submitted to the city for approval, if required by the city.

Design of prefabricated, "bidder designed", manufactured, pre-engineered, or other fabricated products shall comply with the following requirements:

1) Design considers tributary dead, live, wind and earthquake loads in combinations required by CBC.
2) Design within the Deflection Limits noted herein and as specified or referenced in the CBC.
3) Design shall conform to the specifications and reference standards of the governing code.
4) Submittal shall include:
   a. Calculations prepared, stamped and signed by the SSE demonstrating code conformance.
   b. Engineered component design drawings are prepared, stamped and signed by the SSE.
   c. Product data, technical information and manufacturer's written requirements and Agency approvals as applicable.
   d. SSE may submit to the Architect/Engineer, a request to utilize relevant alternate design criteria of similar nature and generally equivalency which is recognized by the Code and acceptable to the Authority Having Jurisdiction. Submit adequate documentation of design.

DEFLECTION LIMITS FOR SSE / BIDDER DESIGNED ELEMENTS:	**VERTICAL**	**LIMIT**
	Roof Members, Dead + Live or Snow or Wind, Total Load (TL) Deflection	L / 240, where (L is span length,inches)
	Roof, Live or Snow or Wind Load (RLL)	L / 360
	Floor Members, Total Load (TL) uno	L / 360
	Floor Live Load (LL) uno	L / 480
	HORIZONTAL	**LIMIT and FOOTNOTE**
	Members Supporting Brittle Finishes	L / 240 (1)
	Members Supporting Flexible Finishes	L / 180 (1)

(1) Wind Load is reducible to 0.42 times the Component and Cladding Loads per Table 1604.3 footnote f.

GENERAL CONTRACTOR'S PRIOR REVIEW: Once the contractor has completed his review of the SSE component drawings, the SER will review the submittal for general conformance with the design of the building and will stamp the submittal accordingly. Review of the Specialty Structural Engineer's (SSE) shop drawings (component design drawings) is for compliance with design criteria and compatibility with the design of the primary structure and does not relieve the SSE of responsibility for that design. All necessary bracing, ties, anchorage, proprietary products shall be furnished and installed per manufacturer's instructions or the SSE's design drawings and calculations. These elements include but are not limited to:

- Handrails, Guardrails and Balcony Rail Anchorages
- Roof Mounted Components: Skylights, hatches
- Window Washing System Tie-down Anchorage
- Mechanical, Electrical, Plumbing & Sprinkler Hanger Plans
- Temporary Shoring Systems
- Prefabricated Wood Roof Trusses (Site-Installed)
- Prefabricated Wood Roof & Floor Trusses (Factory Installed by Modular Manufacturer)

INSPECTIONS, QUALITY ASSURANCE VERIFICATIONS AND TEST REQUIREMENTS

INSPECTIONS: Foundations, footings, under slab systems and framing are subject to inspection by the Building Official in accordance with CBC 110.3. Contractor shall coordinate all required inspections with the Building Official.

SPECIAL INSPECTIONS, VERIFICATIONS and TESTS: Special Inspections, Verifications and Testing shall be done in accordance with CBC Chapter 17 and the STATEMENT OF SPECIAL INSPECTIONS herein per CBC Sections 1704 and 1705 as applicable.

SPECIAL INSPECTION AGENCY and SPECIAL INSPECTORS: Owner shall retain an "approved agency" per CBC 1703 to provide Special Inspections for the project. Special Inspectors shall be qualified persons per CBC 1704.2.1.

STATEMENT OF SPECIAL INSPECTIONS. Special Inspections and Testing per CBC Sections 1704 and 1705 are required for the following:

FABRICATION SHOP INSPECTION: Where off-site Fabrication of gravity LOAD BEARING MEMBERS & ASSEMBLIES is performed, Special Inspector shall verify that the fabricator complies with CBC 1704.2.5 which includes the following:

- **Prior to the start of fabrication**, Special Inspector(s), representing the Owner, shall visit the Fabricator's shop(s) where the work is to be performed, and verifies that the Fabricator maintains detailed Fabrication and Quality Control procedures that provide a basis for inspection, control of workmanship, material control and fabricator's ability to conform to approved Construction Documents and referenced Standards.
- **Fabricator shall have available** for Inspector's review, detailed procedures for material control that demonstrates the fabricator's ability to maintain suitable records and procedures such that, at any time during the fabrication process, the material specification, grade and applicable test reports for primary load-carrying members, are capable of being determined.

WOOD CONSTRUCTION per CBC Section 1705.5, 1705.10.1, & 1705.11.2:

- **Periodic** inspection required for verification of:
  - Shear Walls: Anchor Bolts, Hold-downs (HD) and Continuous Rod Tie-Down Systems (TDS) including squash blocks, LPT shear connectors, strap connectors, boundary edge nailing, plate nailing and panel edge shear nailing for size & spacing **where fastener spacing of the sheathing is 4 inches or less.**
  - Diaphragms: blocking, strap connections, boundary edge and panel shear nailing size & spacing **where fastener spacing of the sheathing is 4 inches or less.**
  - Moisture content of wood studs, plates, beams and joists.
  - Proper bottom plates sizes (2x and 3x) and plate washers.
  - Roof truss 'hurricane' clips.

POST-INSTALLED ANCHORS TO CONCRETE AND MASONRY**:** shall comply with CBC Section 1703. Inspections shall be in accordance with the requirements set forth in the approved ICC Evaluation Report and as indicated by the design requirements specified on the drawings. Refer to the POST INSTALLED ANCHORS section of these notes for anchors that are the basis of the design. Special inspector shall verify anchors are as specified in the POST INSTALLED ANCHORS section of these notes or as otherwise specified on the drawings. Substitutions require approval by the SER and require substantiating calculations and current 2013 CBC recognized ICC Evaluation Services (ES) Report. Special Inspector shall document in their Special Inspection Report compliance with each of the elements required within the applicable ICC Evaluation Services (ES) Report.

INSPECTION SUBMITTALS: Special inspection reports shall be provided on a weekly basis. Final special inspection reports will be required by each special inspection firm per CBC 1704.2.4. Submit copies of all inspection reports to the Architect/Engineer and the Authority Having Jurisdiction for review.

STRUCTURAL OBSERVATION: Structural Observation shall be provided for structures classified as Seismic Design Category D, E and F in accordance with CBC Section 1704.5 and Section 107.3.4. Structural observation site visits will be as follows: **first level of wood modular installation and soon after substantial completion of modular units before structural connections are hidden away.** Contractor shall notify the SER in a timely manner to allow scheduled Observations to occur. Field (Observation) Reports will be distributed to the Architect, the Contractor, Special Inspector and the Authority Having Jurisdiction.

CONTRACTOR RESPONSIBILITY: Prior to issuance of the building permit, the Contractor is required to provide the Authority Having Jurisdiction a signed, written acknowledgement of the Contractor's responsibilities associated with the above Statement of Special Inspections addressing the requirements listed in CBC Section 1704.4. Contractor is referred to CBC Sections 1705.11.5 and 1705.11.6 for architectural and MEP building systems that may be subject to additional inspections (based on the building's designated Seismic Design Category listed in the CRITERIA), including anchorage of HVAC ductwork containing hazardous materials, piping systems and mechanical units containing flammable, combustible or highly toxic materials, electrical equipment used for emergency or standby power, exterior wall panels and suspended ceiling systems.

PREFABRICATED CONSTRUCTION: All prefabricated construction shall conform to CBC Section 1703.

WOOD FRAMING

REFERENCE STANDARDS: Conform to:

(1) CBC Chapter 23 "WOOD"
(2) NDS - "2015 National Design Specification (NDS) for Wood Construction"
(3) ANSI/AF&PA – SDPWS-15: Special Design Provisions for Wind and Seismic
(4) APA PDS—04 Plywood Design Specification
(5) ANSI/TPI 1-2007 "National Design Standard for Metal-Plate-Connected Wood Truss Construction"
(6) BCSI "Guide to Good Practice for Handling, Installing & Bracing of Metal Plated Connected Wood Trusses"
(7) TPI DSB "Recommended Design Specification for Temporary Bracing of Metal Plate Connected Wood Trusses"
(8) APA Report TT-045B "Minimum Nail Penetration for Wood Structural Panel Connections Subject to Lateral Loads"

SUBMITTALS: Submit shop drawings to the Architect/Engineer for review. Shop drawings shall include member size, spacing, camber, material type, grade, shop and field assembly details and connections, types and location of bolts and other fasteners. Supply shop drawings for the following:

(1) Prefabricated Wood Roof & Floor Trusses
(2) LSL members
(3) Tapered & Parallel Wood I Joists (Solid web-wood joists)
(4) Panelized wood walls & connection details
(5) Wood Tie-Down Systems

DEFERRED SUBMITTALS: Submit product data and proof of ICC approval for framing members and fasteners that have been designed by others. Submit calculations prepared by the SSE in the state of **California** for all members and connections designed by others along with shop drawings. All necessary bridging, blocking, blocking panels and web stiffeners shall be detailed and furnished by the supplier. Temporary and permanent bridging shall be installed in conformance with the manufacturer's specifications. Deflection limits shall be as noted under DEFFERRED SUBMITTLALS section specific details. Products included are:

- Metal plate connected trusses (prefabricated trusses) Conform to CBC Section 2303.4. Truss Supplier to provide design and materials for all permanent truss bracing. Shop drawings shall provide for shapes, bearing points, intersections, hips, and valleys shown on the drawings. The manufacturer shall provide special hip, valley and intersection areas (step down trusses, jack trusses and girder trusses) unless specifically indicated on the plans. Provide all truss-to-truss and truss-to-support connection details and required connection materials. Specify temporary and permanent bracing and connections on the shop drawings. Provide all truss reactions on shop drawings.
- Wood Tie Down Systems: Continuous rod hold-down systems, with take-up devices, shall be as specified. Take-up devices are required at each framing level. Additional framing members shall be provided per the system requirements. Refer to details and loading on the structural drawings.

IDENTIFICATION: All sawn lumber and pre-manufactured wood products shall be identified by the grade mark or a certificate of inspection issued by the certifying agency.

MATERIALS:

- Sawn Lumber: Conform to grading rules of WWPA, WCLIB or NLGA and Table below. Finger jointed studs acceptable at interior walls only.

TABLE of SOLID SAWN LUMBER

Member Use	Size	Species	Grade
Wall Stud	2x4, 3x4, 2x6, 3x6	Doug Fir Larch	No. 2
Sill Plate	2x4, 3x4, 2x6, 3x6	PT Doug Fir Larch	No. 2
Post	4x4, 4x6, 4x8	Doug Fir Larch	No. 2
Floor or Roof Joist	2x6 through 2x12	Doug Fir Larch	No. 2
Beam	4x8 through 4x12	Doug Fir Larch	No. 2
Beam	6x8 through 6x12	Doug Fir Larch	No. 1
Post or Timber	6x6, 8x8	Doug-Fir Larch	No. 1

- Glued Laminated Timber: Conform to AITC 117**-2004** "Standard Specifications for Structural Glue-laminated Timber of Softwood Species, Manufacturing and Design" and ANSI/AITC A190.1 "Structural Glued Laminated Timber." Camber all glued laminated beams, except cantilevered and continuous beams, to 3000' radius, unless shown otherwise on the plans.

TABLE of GLULAM and GRADE

Member	Sizes	Species	Comb. Symbol	Uses
Beams	All	DF/DF	24F–V4	Simple Spans
Beams	All	DF/DF	24F–V8	Continuous or with Cantilever Spans
Columns	All	DF	L2	Post, Truss Member

- Wood Structural Sheathing (Plywood): Wood APA-rated structural sheathing includes: all veneer plywood, oriented strand board, waferboard, particleboard, T1-11 siding, and composites of veneer and wood based material with T&G joint. **Architect** may disallow OSB. Confirm with **Architect**. Conform to "Construction and Industrial Plywood" based on Product Standard PS 1-07 by the U.S. Dept. of Commerce, and "Performance Standard for Wood-Based Structural-Use Panels" based on Product Standard PS 2-04 by the U.S. Dept. of Commerce and "Plywood Design Specification" based on APA PDS—04 by the American Plywood Association. Unless noted otherwise, sheathing shall comply with the following table:

TABLE of SHEATHING - Use, Minimum Thickness and Minimum APA Rating

Location	Thickness	Span Rating	Plywood Grade	Exposure
Roof	15/32"	32/16	C-D	1
Floor	23/32" T&G	24 OC	STURD-I-FLOOR	1
Walls	7/16"	32/16	C-D	1

Unless noted otherwise on drawings, install roof and floor panels with long dimension across supports and with panel continuous over two or more spans. End joints shall occur over supports.

- Timber Connectors: Shall be "Strong Tie" by Simpson Company as specified in their latest catalog. Alternate connectors by other manufacturers may be substituted provided they have current ICC approval for equivalent or greater load capacities and are reviewed and approved by the SER prior to ordering. Connectors shall be installed per the manufacturer's instructions. Where connector straps connect two members, place one-half of the nails or bolts in each member. Where straps are used as hold-downs, nail straps to wood framing just prior to drywall application, as late as possible in the framing process to allow the wood to shrink and the building to settle. Premature nailing of the strap may lead to strap buckling and potential finish damage.

  Where connectors are in exposed exterior applications in contact with preservative treated wood (PT) other than CCA, connectors shall be either batch hot-dipped galvanized (HDG), mechanically galvanized (ASTM B695, Class 55 minimum) stainless steel, or provided with 1.85 oz/sf of zinc galvanizing equal to or better than Simpson ZMAX finish.

  Nail straps to wood framing as late as possible in the framing process to allow the wood to shrink and the building to settle. Premature nailing of the strap may lead to strap buckling and potential finish damage.

- Fasteners (nails, bolts, screws, etc) attaching timber connectors (joist hangers, post caps and bases, etc) to PT wood shall have similar corrosion resistance properties (matching protective treatments) as the protected connector. Fasteners (nails, bolts, screws, etc) attaching sawn timber members or sheathing (shear walls) to PT wood be corrosion resistant; nails and lag bolts shall be either HDG (ASTM A153) or stainless steel. Verify the suitability of the fastener protection/coating with the wood treatment chemical manufacturer/supplier.

  Provide washers under the heads and nuts of all bolts and lag screws bearing on wood.

- Lag Bolts/Bolts: Conform to ASTM A307 and CBC Section 2304.9.

- Engineered Wood Products (RedBuilt): The following materials are based on lumber manufactured by RedBuilt and were used for the design as shown on the plans. Alternate products by other manufacturers may be substituted provided they have current ICC approval for equivalent or greater load and stiffness properties and are reviewed and approved by the Structural Engineer. A HUD Material Release form is required for all manufactured wood products listed below

  a. Laminated Veneer Lumber (RedLam LVL): Conform to **ICC ES Report No. ESR-2993** or CCMC Report No. 12627–R.

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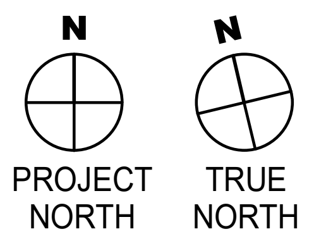
CIVIL / STRUCTURAL

FOR PERMIT
These drawings are sufficiently complete for submission to the jurisdiction having authority for permit. The Contractor shall not use these drawings for construction until Contractor receives written approval for use in construction by the jurisdiction having authority and DCI Engineers.

STAMP

JEFFREY BRINK
No. S-6142
Exp. 09/30/20

#	DATE	ISSUES & REVISIONS	BY
	11/15/2019	Site Permit Set	



DRAWN BY: LD
PROJECT NUMBER: 18141-0055
SHEET ISSUE DATE: 11/11/2019
SHEET TITLE:

General Notes

SHEET NUMBER
S1.00

b. Tapered and Parallel Chord I-JOISTS (Deferred Submittal): Conform to **ICC Report No. ESR-2994**. The manufacturer shall design the joists for the spans and conditions shown on the plans. Joists shall have LVL chords and solid wood webs. Joists shall be tapered or parallel as shown on the plans.

c. Open Web Wood Trusses: Conform to **ICC Report No ESR-1776**. The manufacturer shall design the joists for the spans and conditions shown on the plans. Trusses shall have wood chords and metal webs.

TABLE of ENGINEERED WOOD Requirements

Type	Use	Widths	**E(10⁶)**	**Fb**	**Fv**	**Fc//**
			PSI	PSI	PSI	PSI
RedLam LVL Rimboard	Site-Built Rim-board	1 ¼”,	1.6E	2,140	285	2,100
RedLam LVL Rimboard	Factoy-Built Floor/ Ceiling Rim-Board	1 ¼”,	1.6E	2,140	285	2,100
RedLam LVL	Bundled Beam, Stair Stringers	1 ½”, 1 ¾”, 3 ½”	2.0E	2,900	285	2,100
RedLam LVL	Header, Beam or Column	1 ¾”.3 ½”, 5 ¼”, 7”	2.0E	2,900	285	2,100

NAILING REQUIREMENTS: Conform to CBC Section 2304.9 “Connections and fasteners.” Unless noted on plans, nail per Table 2304.9.1. Nailing for roof/floor diaphragms/shear walls shall be per drawings. Nails shall be driven flush and shall not fracture the surface of sheathing. Alternate nails may be used but are subject to review and approval by the Structural Engineer. Substitution of staples for the nailing of rated sheathing is subject to review by the structural engineer prior to construction.

STANDARD LIGHT-FRAME CONSTRUCTION: Unless noted on the plans, construction shall conform to CBC Section 2308 “Conventional Light-Frame Construction.”

NAILERS ON STEEL COLUMNS and BEAMS: Wood 3x nailers are generally required on all HSS columns and steel beams abutting or embedded within wood framing. Unless noted otherwise, attach with 5/8” diameter bolts or welded studs at 16” on centers. Wood nailers on beams supporting joist hangers shall not overhang the beam flange by more than ¼”.

MOISTURE CONTENT: Wood material used for this project shall have maximum moisture content of 19% except for the pressure-treated wood sill plate. Refer to TESTING & INSPECTIONS for the verification of these limits. The maximum moisture content required may be less than 19% when based on a particular cladding/insulation system. Refer to the Architect’s drawings, and project specifications, or with cladding installer for maximum recommended moisture content.

SHRINKANGE COMPENSATION FOR MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS: MEP systems, including ductwork, pipes, and other elements that run continuously between levels shall be installed/designed in such a manner to accommodate shrinkage in the wood framing. Wood shrinkage amounts will vary depending on the construction process and materials used. The anticipated shrinkage under typical conditions is expected to range between 1/8” and 1/4” per floor.

CLADDING COMPATIBILTY: The Architect/Owner shall review the cladding and insulation systems proposed for the project with respect to their performance over wood studs with moisture contents greater than 19%. EIFS systems should be avoided on wood-framed projects due to problems with moisture proofing.

PRESERVATIVE TREATMENT (PT): Wood materials are required to be “treated wood” in accordance with CBC Section 2304.11. “Decay and Termite Protection” shall conform to the appropriate standards of the American Wood-Preservers Association (AWPA) for sawn lumber, glued laminated timber, round poles, wood piles and marine piles. Follow American Lumber Standards Committee (ALSC) quality assurance procedures. Products shall bear the appropriate mark. Fasteners or anchors in treated wood shall be of stainless steel or hot-dipped galvanized or as per CBC 2304.9.5.

Mud sill plates in normally dry interior applications may be treated with Sodium Borate (DOT - Disodium Octaborate Tetrahydrate) as recent studies have noted less connector corrosion potential than other available wood treatments or the original CCA treated sill plates. Wood treated with Sodium Borate shall be protected during shipment, storage and installation to minimize leaching of the water-soluble preservative from the lumber. Sodium borate pressure treated plates do not require hot-dipped galvanized connectors.

If using sill plates other than CCA or sodium borate, fasteners must be hot dipped galvanized or stainless steel. Fasteners (nails, bolts, screws, washers & lag screws) attaching timber connectors (joist hangers, post caps and bases, etc) to PT wood shall have similar corrosion resistance properties (matching protective treatments) as the protected connector; that is, use hot dipped galvanized or stainless steel fasteners. Fasteners (nails, bolts, screws, washers & lag screws) attaching sawn timber members or sheathing (shear walls) to Pressure Treated wood be corrosion resistant (hot dipped galvanized or stainless steel.

Always verify the suitability of the fastener protection/coating with the wood treatment chemical manufacturer/supplier.

11/12/2019 2:42:57 PM

Sheet Info Sheet List

SHEET NO.	SHEET TITLE	ISSUED	REV
S1.00	General Notes	11/11/2019	
S1.01	General Notes, Sheet List, Legend & Abbreviations	11/11/2019	
S2.01	Foundation Plan	11/11/2019	
S2.11	Level 1 Floor Framing Plan	11/11/2019	
S2.12	Level 1 Stud & Shear Wall Plan	11/11/2019	
S2.13	Level 1 Ceiling Framing Plan	11/11/2019	
S2.21	Level 2 Floor Framing Plan	11/11/2019	
S2.22	Level 2 Stud & Shear Wall Plan	11/11/2019	
S2.23	Level 2 Ceiling Framing Plan	11/11/2019	
S2.31	Level 3 Floor Framing Plan	11/11/2019	
S2.32	Level 3 Stud & Shear Wall Plan	11/11/2019	
S2.33	Level 3 Ceiling Framing Plan	11/11/2019	
S2.41	Level 4 Floor Framing Plan	11/11/2019	
S2.42	Level 4 Stud & Shear Wall Plan	11/11/2019	
S2.43	Level 4 ceiling/Roof Framing Plan	11/11/2019	
S2.51	High Roof Framing Plan	11/11/2019	
S3.11	Modular-Level 1 Floor Framing Plan	11/11/2019	
S3.12	Modular-Level 1 Stud & Shear Wall Plan	11/11/2019	
S3.13	Modular-Level 1 Ceiling Framing Plan	11/11/2019	
S3.21	Modular-Level 2 Floor Faming Plan	11/11/2019	
S3.22	Modular-Level 2 Stud & Shear Wall Plan	11/11/2019	
S3.23	Modular-Level 2 Ceiling Framing Plan	11/11/2019	
S3.31	Modular-Level 3 Floor Framing Plan	11/11/2019	
S3.32	Modular-Level 3 Stud & Shear Wall Plan	11/11/2019	
S3.33	Modular-Level 3 Ceiling Framing Plan	11/11/2019	
S3.41	Modular-Level 4 Floor Framing Plan	11/11/2019	
S3.42	Modular-Level 4 Stud & Shear Wall Plan	11/11/2019	
S3.43	Modular-Level 4 ceiling/Roof Framing Plan	11/11/2019	
S4.01	Foundation & Concrete Details	11/11/2019	
S4.02	Typical Foundation Details	11/11/2019	
S5.01	Factory-Built Wood Framing Details	11/11/2019	
S5.02	Factory-Built Wood Framing Details	11/11/2019	
S5.03	Factory-Built Wood Framing Details	11/11/2019	
S5.04	Factory-Built Wood Framing Details	11/11/2019	
S5.05	Factory-Built Wood Framing Details	11/11/2019	
S6.01	Installation & Site-Built Wood Framing Details	11/11/2019	
S6.02	Installation & Site-Built Wood Framing Details	11/11/2019	
S6.03	Installation & Site-Built Wood Framing Details	11/11/2019	
S6.04	Installation & Site-Built Wood Framing Details	11/11/2019	
S6.05	Installation & Site-Built Wood Framing Details	11/11/2019	
S6.06	Installation & Site-Built Wood Framing Details	11/11/2019	
S6.10	Typical Framing Details	11/11/2019	
S6.11	Typical Framing Details	11/11/2019	
Sheet Total: 43			

DRAWING LEGEND

MARK	DESCRIPTION	MARK	DESCRIPTION
F2.0	FOOTING SYMBOL (REFER TO SPREAD FOOTING SCHEDULE)	I	INDICATES WIDE FLANGE COLUMN
1P	PILE CAP SYMBOL (REFER TO PILE CAP SCHEDULE)	□	INDICATES HOLLOW STRUCTURAL SECTION (HSS) COLUMN OR TUBE STEEL (TS) COLUMN
①	TILT-UP/PRECAST CONCRETE WALL CONNECTION SYMBOL (REFER TO CONNECTION DETAIL)	○	INDICATES HOLLOW STRUCTURAL SECTION (HSS) COLUMN OR STEEL PIPE COLUMN
2W4	SHEAR WALL SYMBOL (REFER TO SHEAR WALL SCHEDULE)	⊠	INDICATES WOOD POST
△1	REVISION TRIANGLE	■	INDICATES BUNDLED STUDS
1	TILT-UP/PRECAST CONCRETE WALL PANEL NUMBER (REFER TO TILT-UP/ PRECAST CONCRETE WALL ELEVATIONS)	▨	INDICATES CONCRETE COLUMN
◇1	CMU WALL REINFORCING SYMBOL (REFER TO CMU WALL REINFORCING SCHEDULE)	▩	INDICATES PRECAST CONCRETE COLUMN
8"	CONTINUITY PLATE LENGTH (REFER TO TYPICAL DETAIL)	▶—	INDICATES MOMENT FRAME CONNECTION
DS	INDICATES DOUBLE SHEAR CONNECTION (REFER TO THE DOUBLE SHEAR PLATE CONNECTIONS DETAIL)	▷—	INDICATES CANTILEVER CONNECTION
00TB	INDICATES REINFORCING TYPE (REFER TO THE REINFORCING SCHEDULE)	●—	INDICATES DRAG CONNECTION
SR__	INDICATES NUMBER OF STUD RAIL REQUIRED AT COLUMN (REFER TO STUD RAIL DETAILS)	═	INDICATES WOOD OR STEEL STUD WALL
◇1	ROOF/FLOOR DIAPHRAGM NAILING SYMBOL (REFER TO DIAPHRAGM NAILING SCHEDULE)	▨	INDICATES MASONRY/CMU WALL
C1 XX"xXX"	STEEL/CONCRETE COLUMN SYMBOL (REFER TO STEEL COLUMN SCHEDULE)	▤	INDICATES CONCRETE/TILT-UP CONCRETE WALL
T/FTG = X'-X"	ELEVATION SYMBOL (T/ REFERS TO COMPONENT THAT THE ELEVATION REFERENCES)	▬	INDICATES WOOD OR STEEL STUD SHEAR WALL
③	STUD BUBBLE (INDICATES NUMBER OF STUDS REQUIRED IF EXCEEDS NUMBER SPECIFIED IN PLAN NOTE)	- - - -	INDICATES BEARING WALL BELOW
S	INDICATES STEP IN FOOTING (REFER TO TYPICAL STEP IN FOOTING DETAIL)	═	INDICATES EXISTING WALL
X SX.X	DETAILS OR SECTION CUT (DETAIL NUMBER/SHEET NUMBER)	●—	POST-TENSION DEAD END (PLAN)
00 S0.0	DETAILS OR SECTION CUT IN PLAN VIEW (DETAIL NUMBER/SHEET NUMBER)	—+→	POST-TENSION STRESSING END (PLAN)
XX/SXX.XX	INDICATES LOCATION OF CONCRETE WALLS, SHEAR WALLS OR BRACED FRAME ELEVATIONS	3	POST-TENSION PROFILE (PLAN) (IN INCHES)
←○→	SPAN INDICATOR (INDICATES EXTENTS OF FRAMING MEMBERS OR OTHER STRUCTURAL COMPONENTS)	◀+●	INTERMEDIATE STRESSING (PLAN)
⇌	INDICATES DIRECTION OF DECK SPAN		

ABBREVIATIONS

L	Angle
AB	Anchor Bolt
ADDL	Additional
ADH	Adhesive
ALT	Alternate
ARCH	Architectural
B or BOT	Bottom
B/	Bottom Of
BLDG	Building
BLKG	Blocking
BMU	Brick Masonry Unit
BP	Baseplate
BRBF	Buckling Restrained Braced Frame
BRG	Bearing
BTWN	Between
C	Camber
CL	Centerline
CLT	Cross-Laminated Timber
CB	Castellated Beam
CIP	Cast in Place
CJ	Construction or Control Joint
CJP	Complete Joint Penetration
CLR	Clear
CLG	Ceiling
CMU	Concrete Masonry Unit
COL	Column
CONC	Concrete
CONN	Connection
CONST	Construction
CONT	Continuous
C'SINK	Countersink
CTRD	Centered
DIA	Diameter
DB	Drop Beam
DBA	Deformed Bar Anchor
DBL	Double
DEMO	Demolish
DEV	Development
DF	Douglas Fir
DIAG	Diagonal
DIST	Distributed
DL	Dead Load
DN	Down
DO	Ditto
DP	Depth/Deep
DWG	Drawing
(E)	Existing
EA	Each
EF	Each Face
EL	Elevation
ELEC	Electrical
ELEV	Elevator
EMBED	Embedment
EQ	Equal
EQUIP	Equipment
EW	Each Way
EXP	Expansion
EXP JT	Expansion Joint
EXT	Exterior
FD	Floor Drain
FDN	Foundation
FIN	Finish
FLR	Floor
FRP	Fiberglass Reinforced Plastic
FRT	Fire Retardant Treated
FTG	Footing
F/	Face of
GA	Gage
GALV	Galvanized
GEOTECH	Geotechnical
GL	Glue Laminated Timber
GWB	Gypsum Wall Board
HDR	Header
HF	Hem-Fir
HGR	Hanger
HD	Hold-down
HORIZ	Horizontal
HP	High Point
HSS = TS	(Hollow Structural Section)
IBC	International Building Code
ID	Inside Diameter
IE	Invert Elevation
IF	Inside Face
INT	Interior
k	Kips
KSF	Kips Per Square Foot
LF	Lineal Foot
LL	Live Load
LLH	Long Leg Horizontal
LLV	Long Leg Vertical
LP	Low Point
LONGIT	Longitudinal
LSL	Laminated Strand Lumber
LVL	Laminated Veneer Lumber
MAS	Masonry
MAX	Maximum
MECH	Mechanical
MEZZ	Mezzanine
MFR	Manufacturer
MIN	Minimum
MISC	Miscellaneous
NIC	Not In Contract
NLT	Nail-Laminated Timber
NTS	Not To Scale
OC	On Center
OCBF	Ordinary Concentric Braced Frame
OD	Outside Diameter
OF	Outside Face
OPNG	Opening
OPP	Opposite
OWSJ	Open Web Steel Joist
OWWJ	Open Web Wood Joist
PL	Plate
PAF	Powder Actuated Fastener
PC	Precast
PERP	Perpendicular
PLWD	Plywood
PP	Partial Penetration
PREFAB	Prefabricated
PSF	Pounds per Square Foot
PSI	Pounds Per Square Inch
PSL	Parallel Strand Lumber
P-T	Post-Tensioned
PT	Pressure Treated
R	Radius
RD	Roof Drain
REF	Refer/Reference
REINF	Reinforcing
REQD	Required
RET	Retaining
SCBF	Special Concentric Braced Frame
SCHED	Schedule
SFRS	Seismic Force-Resisting System
SHTHG	Sheathing
SIM	Similar
SMF	Special Moment Frame
SOG	Slab on Grade
SP	Southern Pine
SPEC	Specification
SQ	Square
SR	Studrail
SF	Square Foot
SST	Stainless Steel
STAGG	Stagger/Staggered
STD	Standard
STIFF	Stiffener
STL	Steel
STRUCT	Structural
SWWJ	Solid Web Wood Joist
SYM	Symmetrical
T	Top
T/	Top Of
T&B	Top & Bottom
TC AX LD	Top Chord Axial Load
TCX	Top Chord Extension
TDS	Tie Down System
T&G	Tongue & Groove
THKND	Thickened
THRD	Threaded
THRU	Through
TRANSV	Transverse
TYP	Typical
UBC	Uniform Building Code
UNO	Unless Noted Otherwise
URM	Unreinforced Masonry Unit
VERT	Vertical
W	Wide
W/	With
W/O	Without
WHS	Welded Headed Stud
WP	Working Point
WWF	Welded Wire Fabric
±	Plus or Minus

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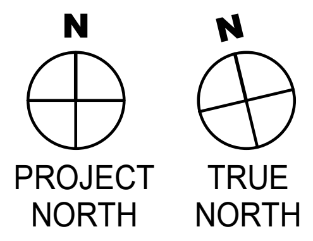

DRAWN BY: LD
PROJECT NUMBER: 18141-0055
SHEET ISSUE DATE: 11/11/2019
SHEET TITLE:

General Notes, Sheet List, Legend & Abbreviations

SHEET NUMBER

S1.01

FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

N

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FOUNDATION NOTES:

1. STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S1.00 AND S1.01.
2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS.
3. CONTRACTOR SHALL LOCATE AND VERIFY THE FOLLOWING WITH OTHERS PRIOR TO POURING CONCRETE: ALL DOOR OPENINGS IN FOUNDATION WALLS; DRAINS AND SLOPES; BLOCKOUTS FOR COOLERS, PLUMBING, SPRINKLERS AND HVAC. ALL DUCTS, CHASES AND PIPES PER MECHANICAL, PLUMBING, ELECTRICAL AND SPRINKLER DRAWINGS. STAIR DETAILS AND GUARDRAILS PER ARCHITECTURAL DRAWINGS. CONCRETE CURBS AND LOCATIONS PER ARCHITECTURAL DRAWINGS.
4. TOP OF SLAB (T/SLAB) ELEVATION BASED OFF SEA LEVEL. FOR ACTUAL T/SLAB ELEVATION REFER TO CIVIL AND ARCHITECTURAL DRAWINGS. PROVIDE VAPOR BARRIER BELOW SLAB AT INTERIOR SPACES AND PROVIDE FREE-DRAINING GRANULAR FILL PER GEOTECH REPORT.
5. TYPICAL TOP OF INTERIOR (T/INTERIOR) FOOTING ELEVATION = 12'-1 1/2"", UNO. TYPICAL TOP OF EXTERIOR T/EXTERIOR) FOOTING ELEVATIONS = 8'-4", UNO.
6. ALL FOOTINGS AND SLABS TO BEAR ON COMPETENT NATIVE SOIL AND/OR STRUCTURAL FILL. SUBGRADE PREPARATION, STRUCTURAL FILL, FOOTING DRAINS, AND OTHER REQUIREMENTS PER GEOTECH REPORT AS NOTED IN THE STRUCTURAL GENERAL NOTES.
7. CJ INDICATES CONTROL JOINT PER PLAN.
8. ALL WOOD EXPOSED TO CONCRETE, WEATHER, OR WITHIN 8" OF FINISHED GRADE SHALL BE PRESSURE-TREATED.
9. MOISTURE PROOF ALL CONCRETE STEM AND BASEMENT WALLS PER ARCHITECT.
10. STEEL STAIRS SHALL BE BIDDER-DESIGNED, UNO. APPLICABLE DESIGN REQUIREMENTS PER STRUCTURAL GENERAL NOTES.
11. ELEVATOR STEEL AND CONNECTIONS ARE PROVIDED FOR BUDGET PURPOSES ONLY AND ARE PRELIMINARY. THE PROPOSED STRUCTURAL MEMBERS AND THEIR CONNECTIONS SHALL BE CONFIRMED ONCE FINAL ELEVATOR REACTIONS ARE PROVIDED TO THE STRUCTURAL ENGINEER OF RECORD.
12. TYPICAL DETAILS PER:

4/S4.01	STANDARD HOOKS AND BAR BENDS
12/S4.01	TYPICAL STEPPED FOOTING
7/S4.01	TYPICAL STAIR ON GRADE
8/S4.01	TYPICAL DEPRESSED SLAB DETAIL
11/S4.01	TYPICAL STEP AT SLAB ON GRADE
3/S4.01	TYPICAL CONCRETE WALL OPENING REINFORCEMENT
12/S4.02	TYPICAL BASEPLATE CONFIGURATIONS

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STRUCTURAL

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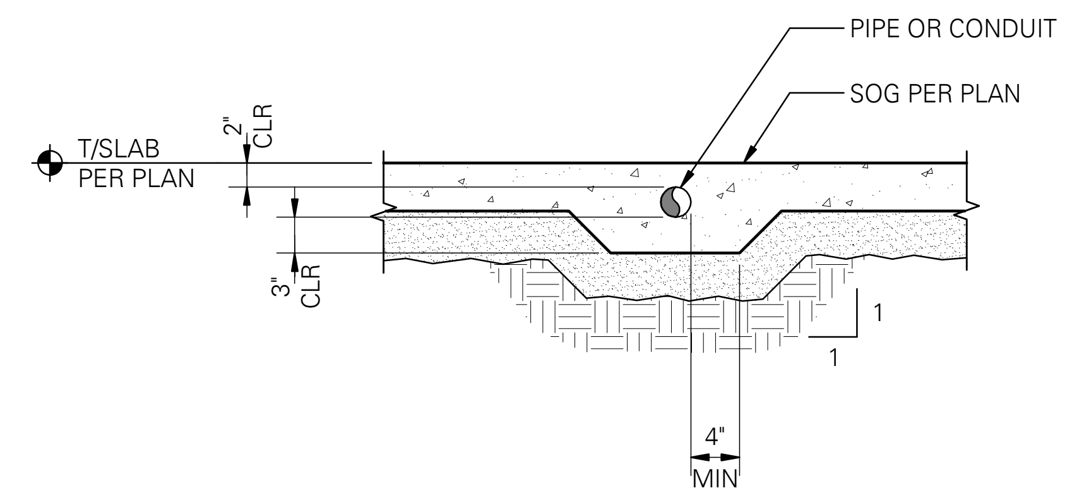
N PROJECT NORTH
N TRUE NORTH

DRAWN BY: LD
PROJECT NUMBER: 18141-0055
SHEET ISSUE DATE: 11/11/2019
SHEET TITLE:

Foundation Plan

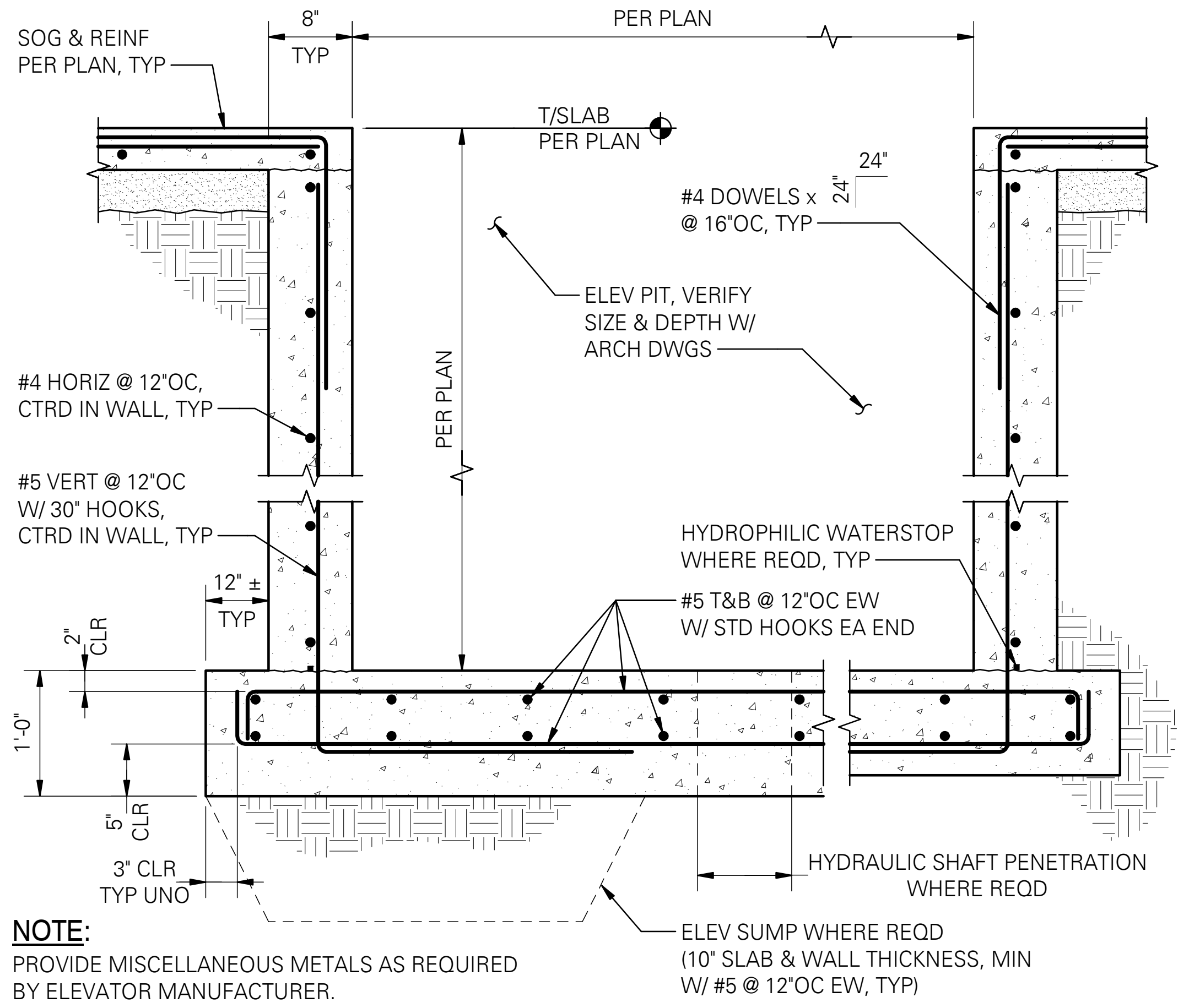
SHEET NUMBER
S2.01



NOTE:
ALUMINUM MATERIALS SHALL NOT BE EMBEDDED IN CONCRETE.

1 PIPE OR CONDUIT EMBEDDED IN SLAB ON GRADE

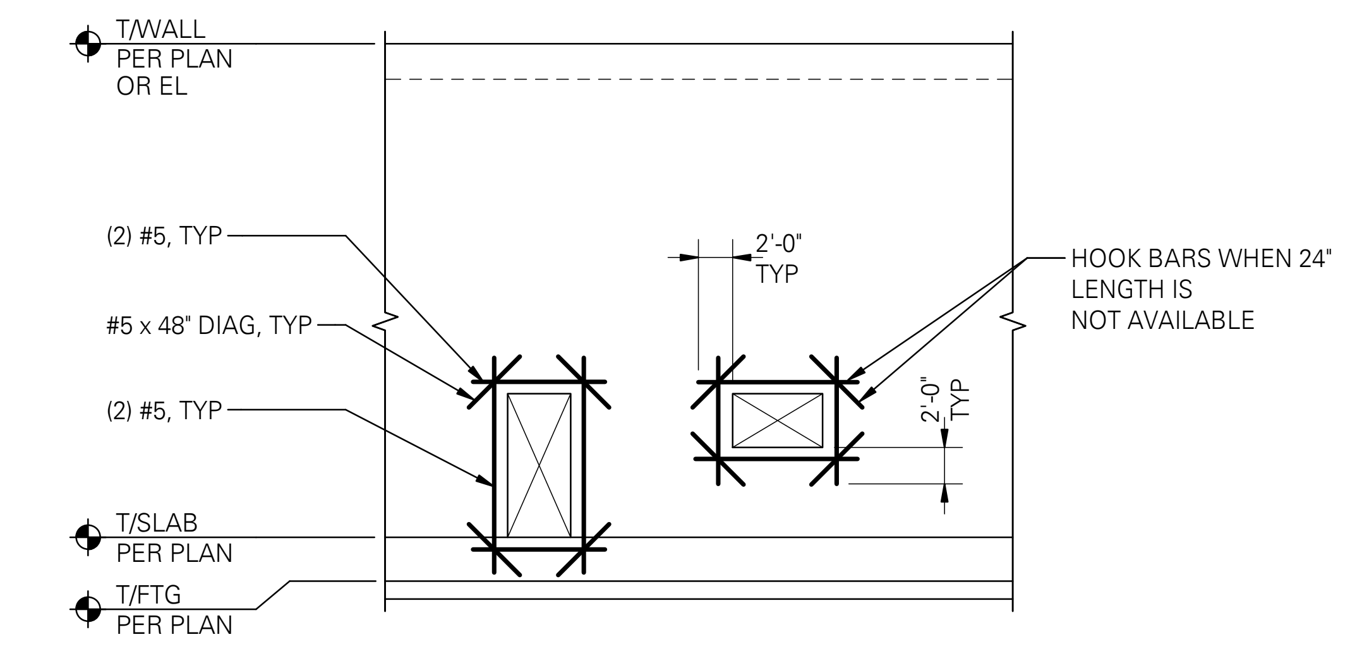
SCALE: 3/4" = 1'-0" (03204)



NOTE:
PROVIDE MISCELLANEOUS METALS AS REQUIRED BY ELEVATOR MANUFACTURER.

2 ELEVATOR PIT SECTION

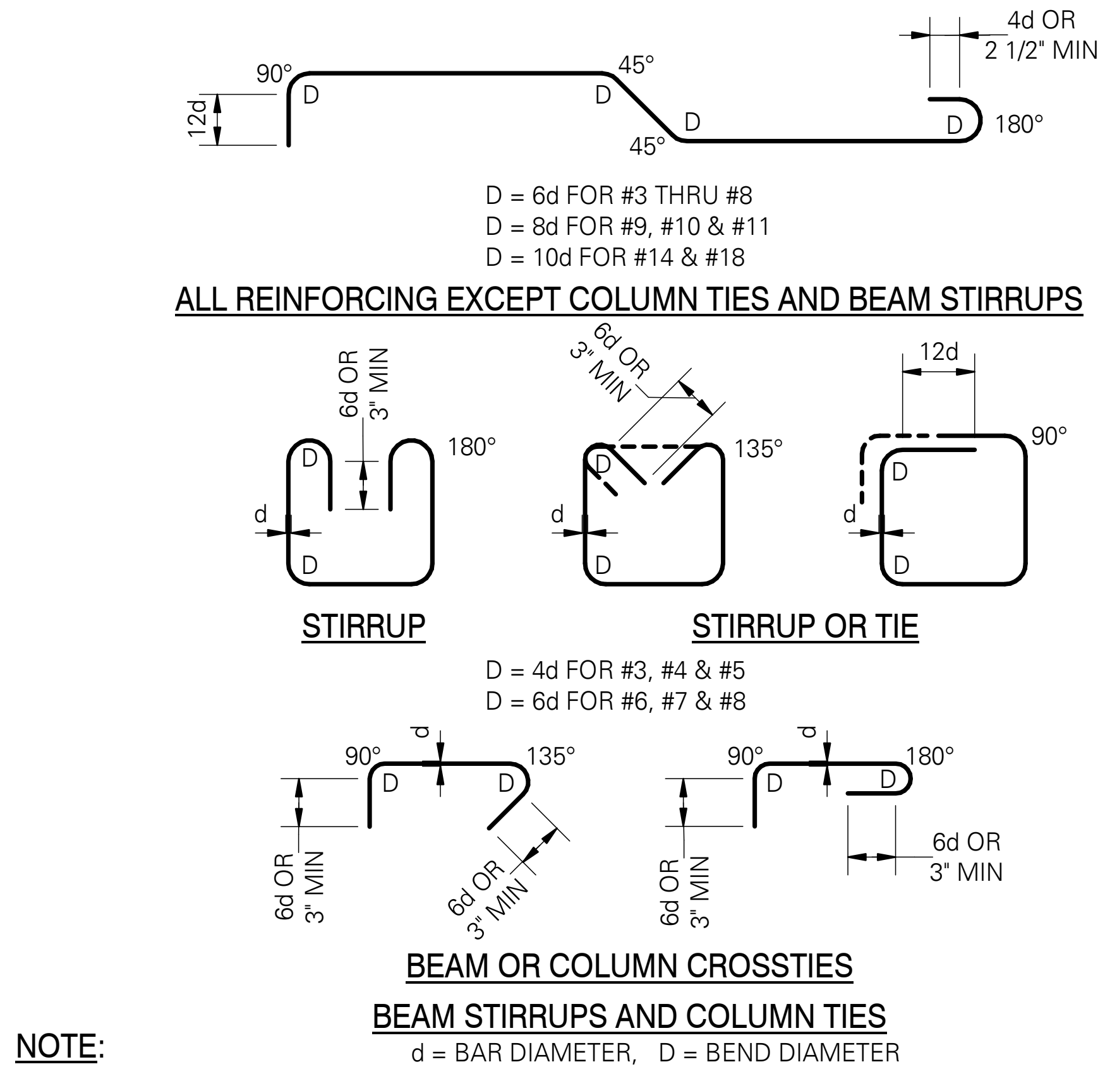
SCALE: 3/4" = 1'-0" (03820M)



NOTE:
PROVIDE (2) #5 x 48" DIAGONAL BARS AT WALLS 10" OR THICKER.

3 ELEVATION - TYPICAL CONCRETE WALL OPENING REINFORCING

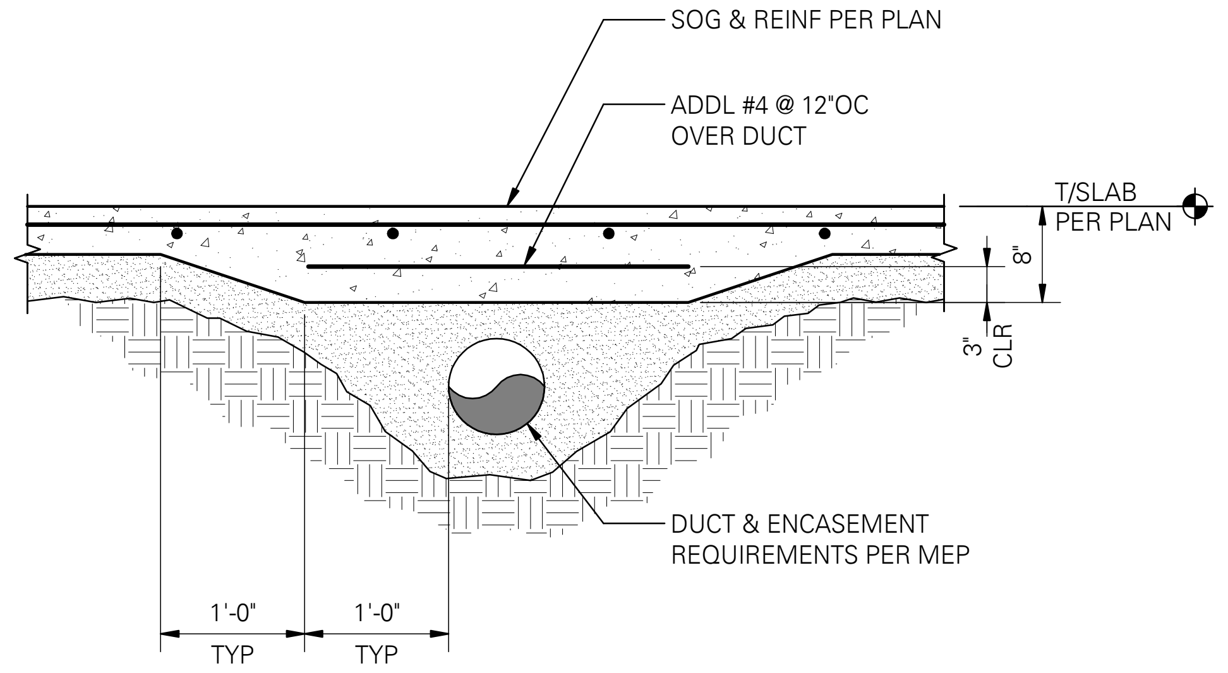
SCALE: 3/4" = 1'-0" (03401)



NOTE:
TIES AND CROSSTIES FOR SHEAR WALL BOUNDARY ELEMENTS SHALL BE DETAILED AS COLUMN TIES/CROSSTIES.

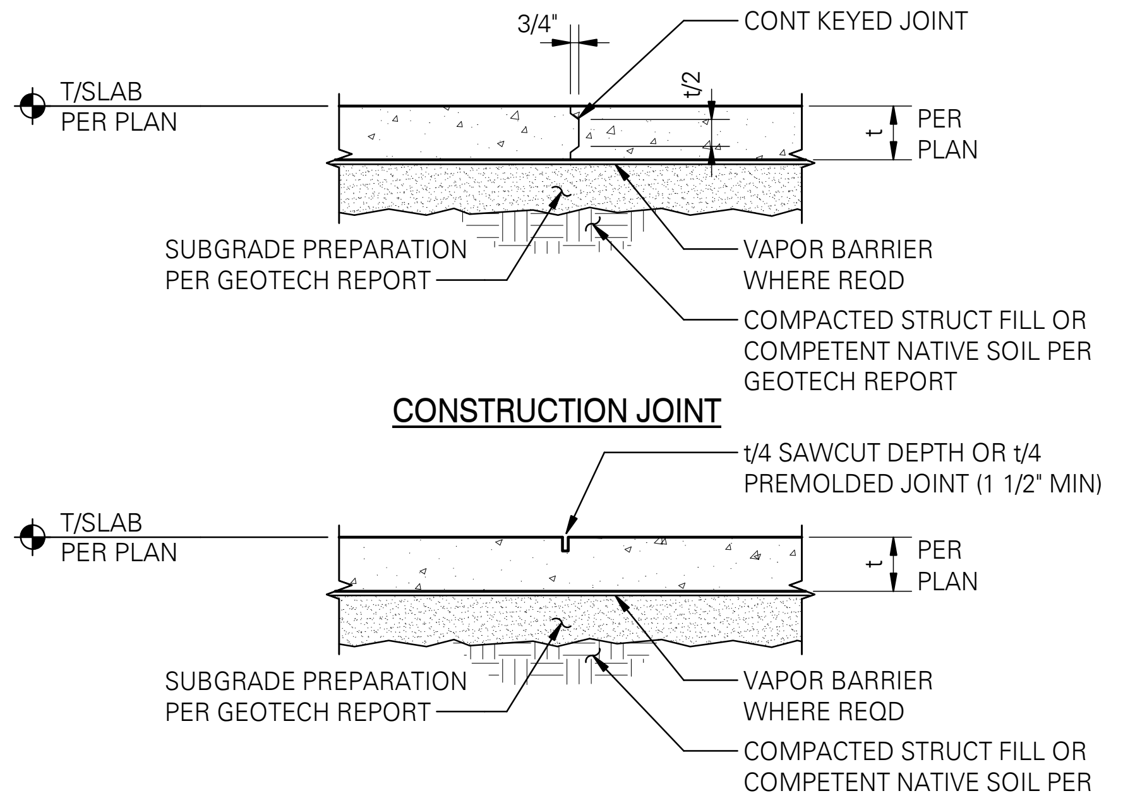
4 STANDARD HOOKS AND BENDS

SCALE: 3/4" = 1'-0" (03400)



5 DUCT UNDER SLAB ON GRADE

SCALE: 3/4" = 1'-0" (03204A)



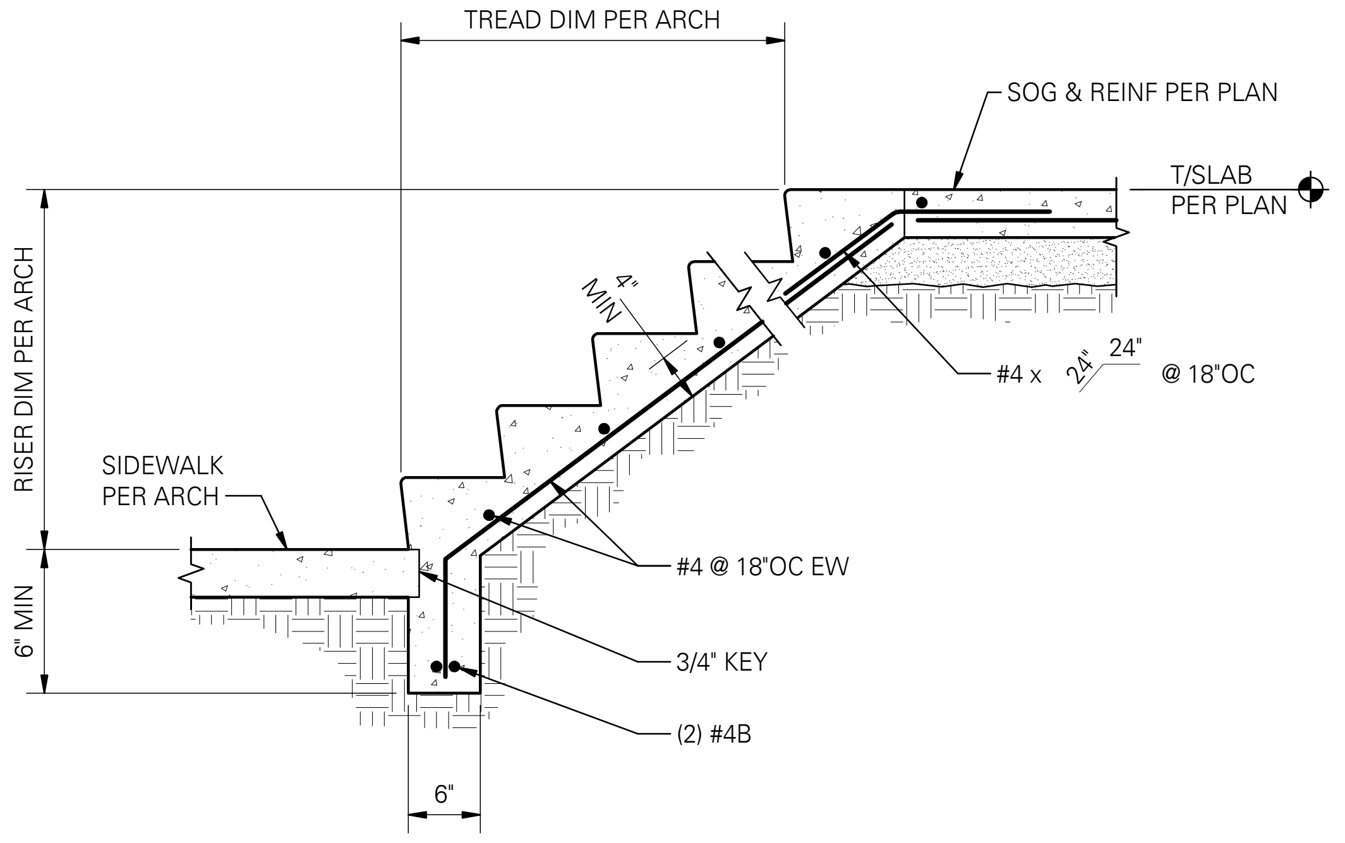
NOTES:

1. USE "EARLY ENTRY DRY-CUT SAW" AS SOON AS POSSIBLE WITHOUT CAUSING RAVELING OF CONCRETE EDGES. SAWCUT ALONG SHORT DIRECTION OF POUR FIRST.
2. ALIGN A CONSTRUCTION OR CONTROL JOINT WITH RE-ENTRANT SLAB CORNERS, EACH WAY, TYPICAL.
3. EACH CONSTRUCTION/CONTROL JOINT TO INCLUDE MAXIMUM SQUARE FOOTAGE AREA PER SCHEDULE WITH MAXIMUM PANEL ASPECT RATIO OF 1.3 TO 1.0.
4. CONTRACTOR TO SUBMIT CONSTRUCTION/CONTROL JOINT PLAN TO STRUCTURAL ENGINEER OF RECORD FOR REVIEW/APPROVAL.

"t"	SQ FT
4"	100
5"	135
6"	170

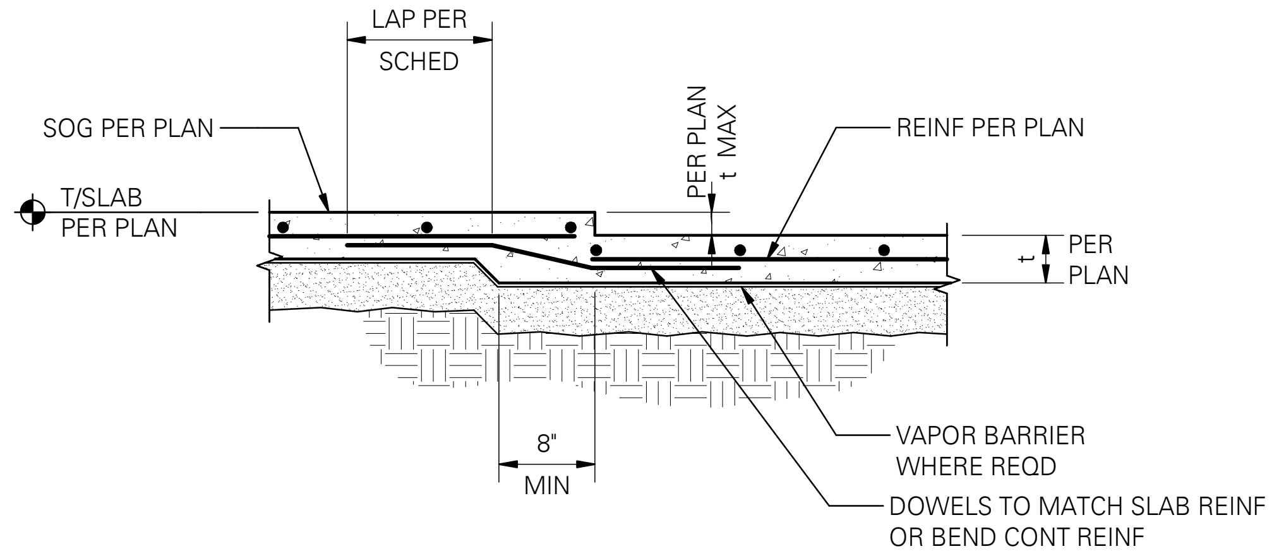
6 TYPICAL UNREINFORCED SLAB ON GRADE JOINT DETAILS

SCALE: 3/4" = 1'-0" (03200)



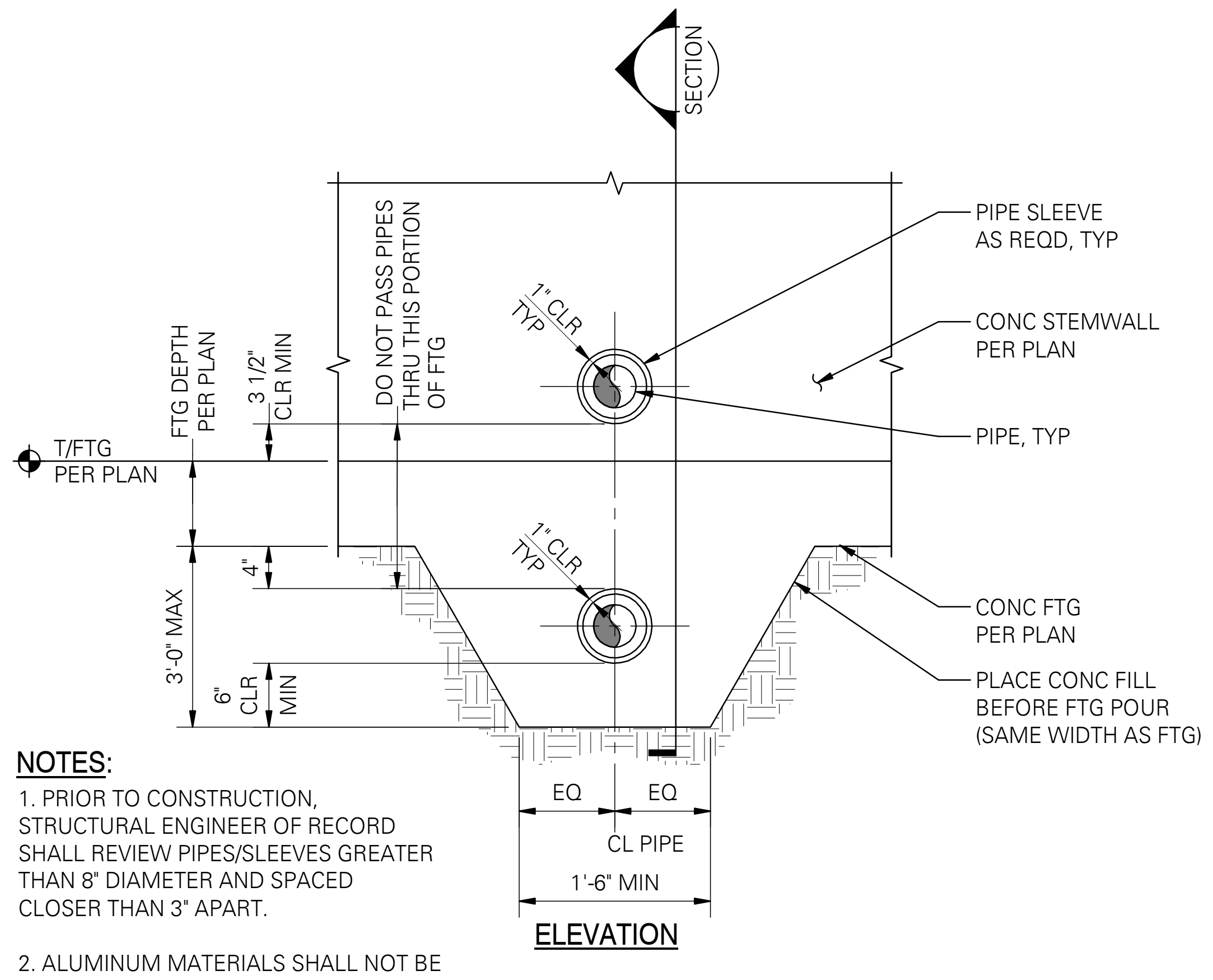
7 TYPICAL STAIR ON GRADE

SCALE: 3/4" = 1'-0" (03800)



8 TYPICAL DEPRESSED SLAB DETAIL

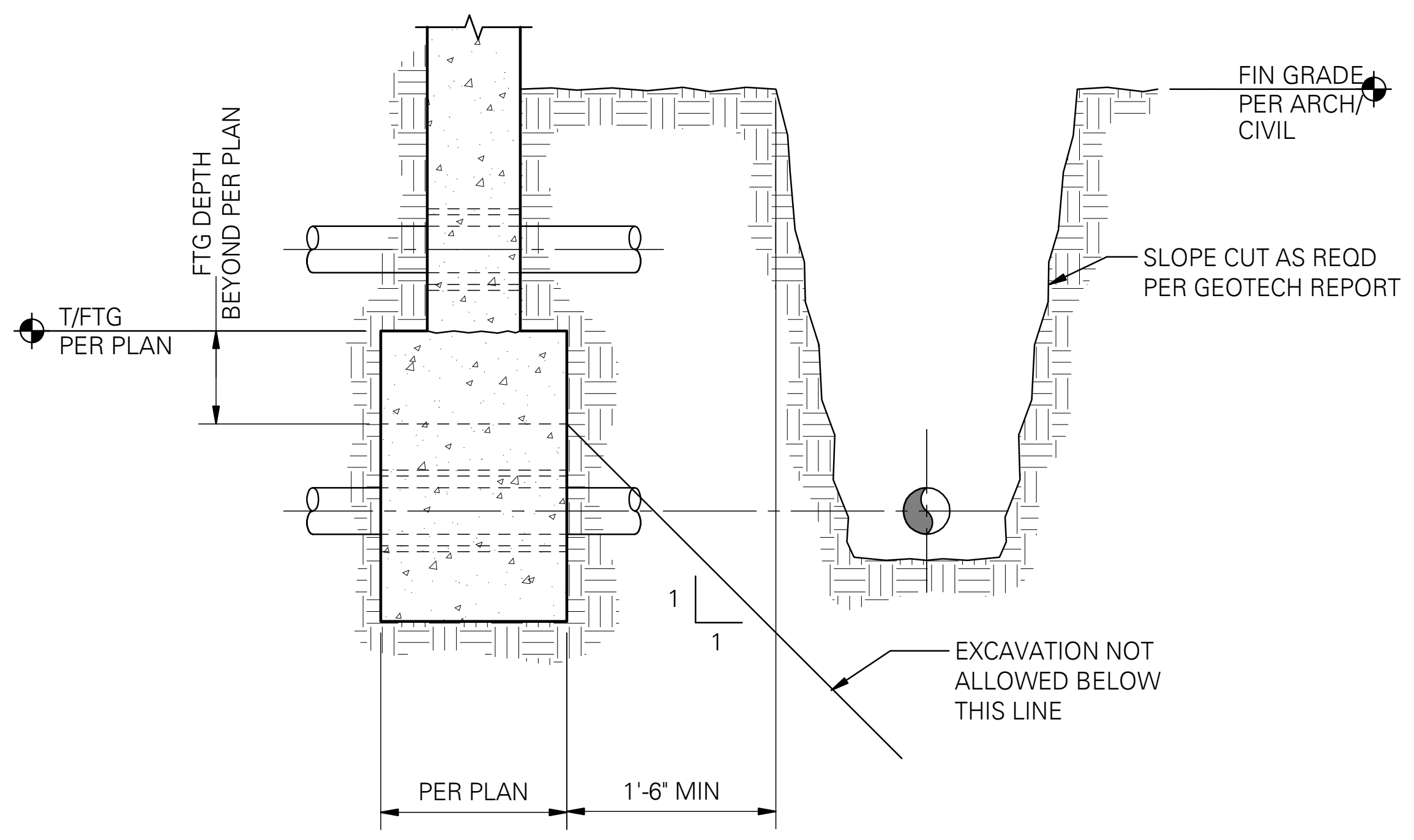
SCALE: 3/4" = 1'-0" (03202)



ELEVATION

NOTES:

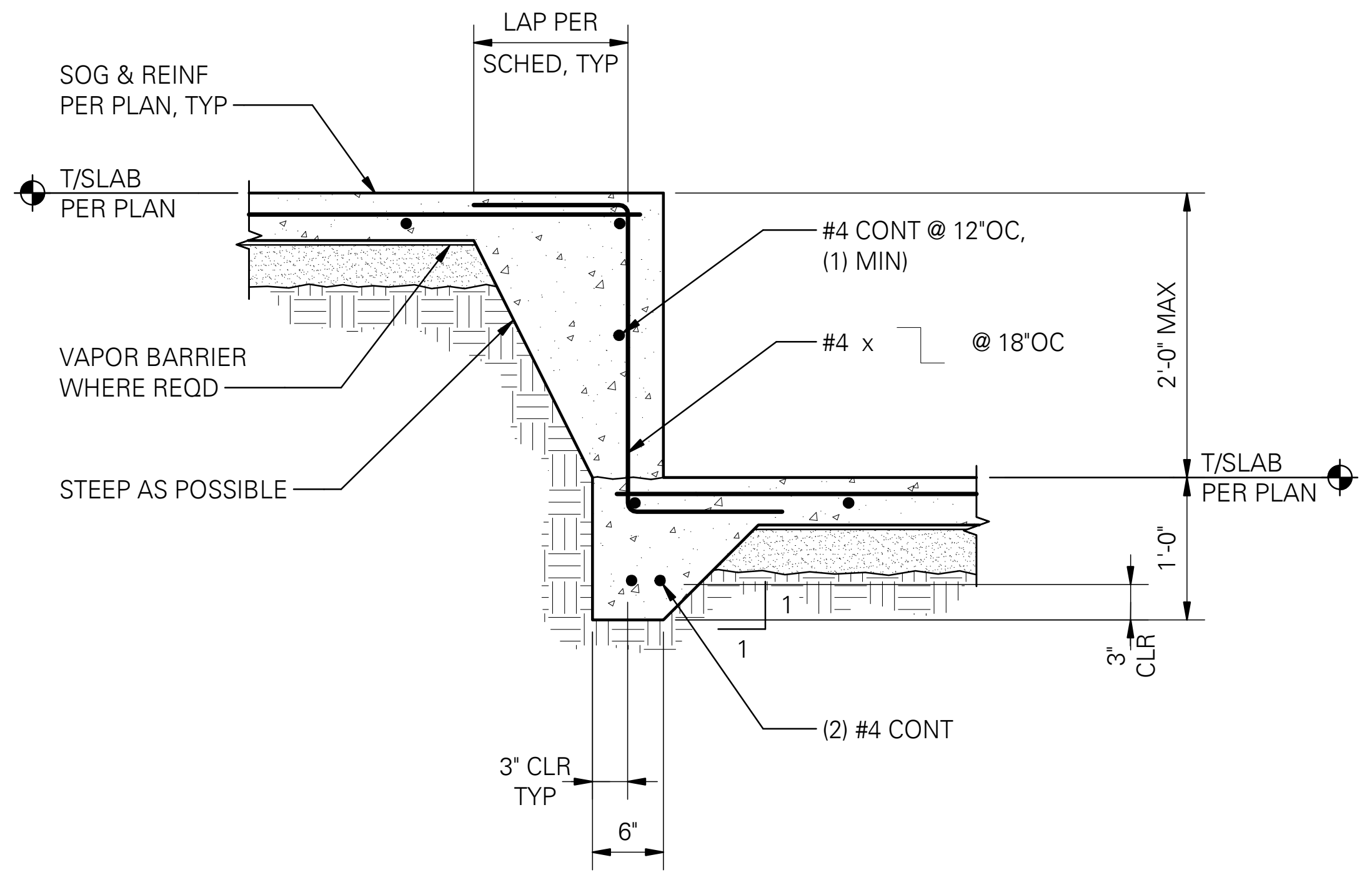
1. PRIOR TO CONSTRUCTION, STRUCTURAL ENGINEER OF RECORD SHALL REVIEW PIPES/SLEEVES GREATER THAN 8" DIAMETER AND SPACED CLOSER THAN 3" APART.
2. ALUMINUM MATERIALS SHALL NOT BE EMBEDDED IN CONCRETE.



SECTION

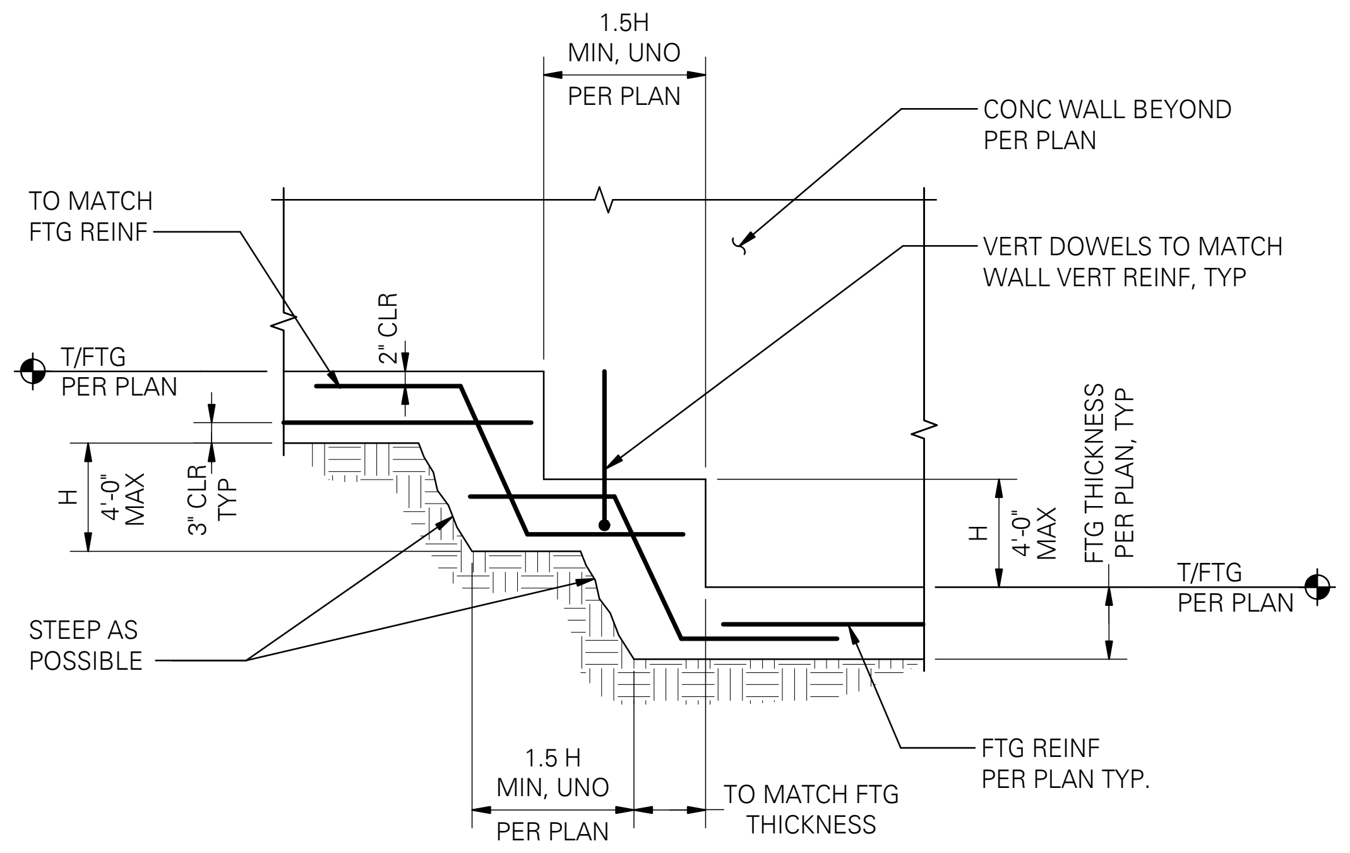
9 TYPICAL PIPE AND TRENCH LOCATIONS AT CONCRETE STEMWALL/FOOTING

SCALE: 3/4" = 1'-0" (03190)



11 TYPICAL STEP AT SLAB ON GRADE

SCALE: 3/4" = 1'-0" (03202A)



12 TYPICAL STEPPED FOOTING

SCALE: 3/4" = 1'-0" (03140)

11/12/2019 2:46:16 PM

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No. S-6142
Exp. 09/30/20

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	11/15/2019	Site Permit Set	

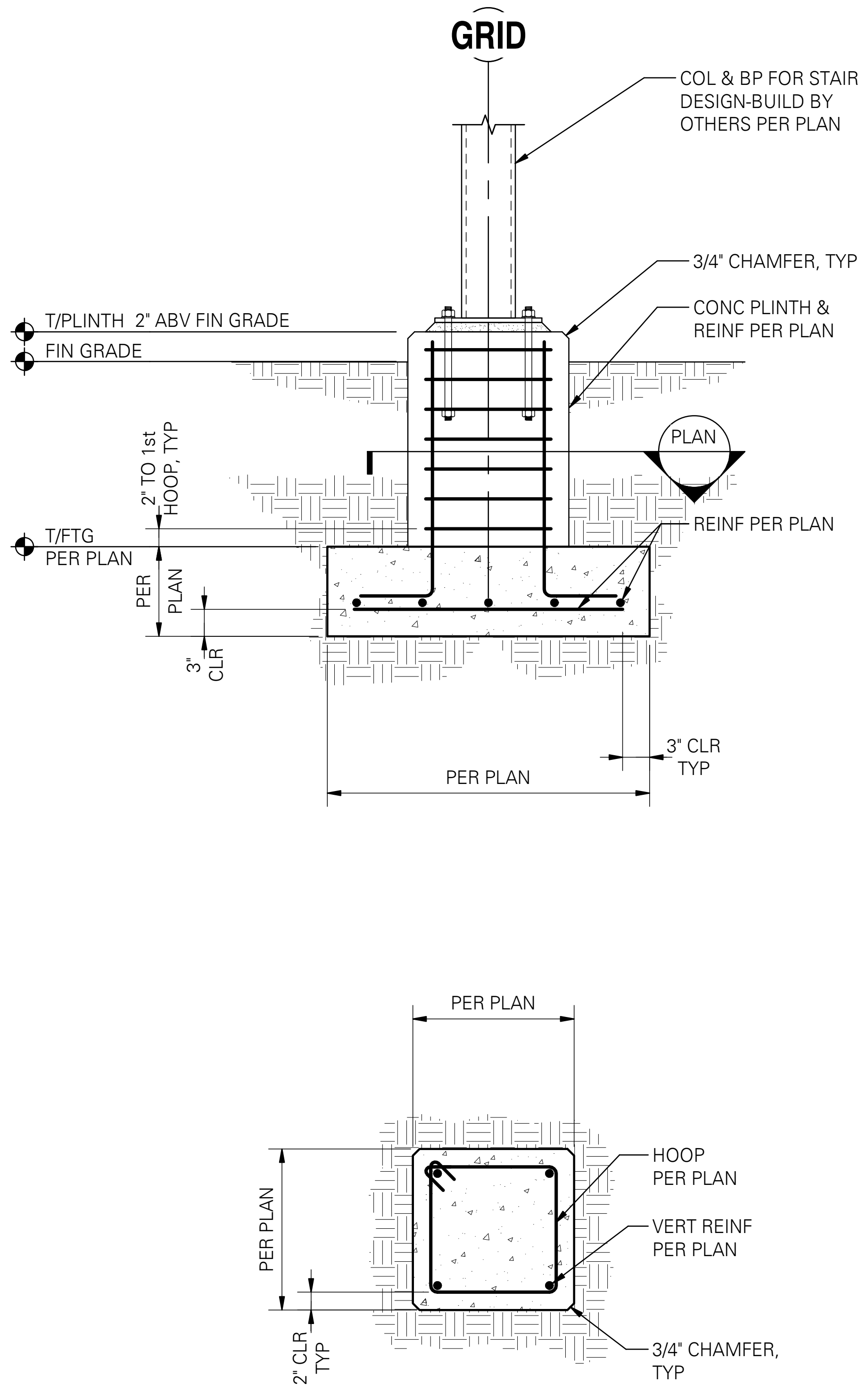
PROJECT NORTH
TRUE NORTH

DRAWN BY: LD
PROJECT NUMBER: 18141-0055
SHEET ISSUE DATE: 11/11/2019
SHEET TITLE:

Foundation & Concrete Details

SHEET NUMBER
S4.01

11/12/2019 2:47:45 PM

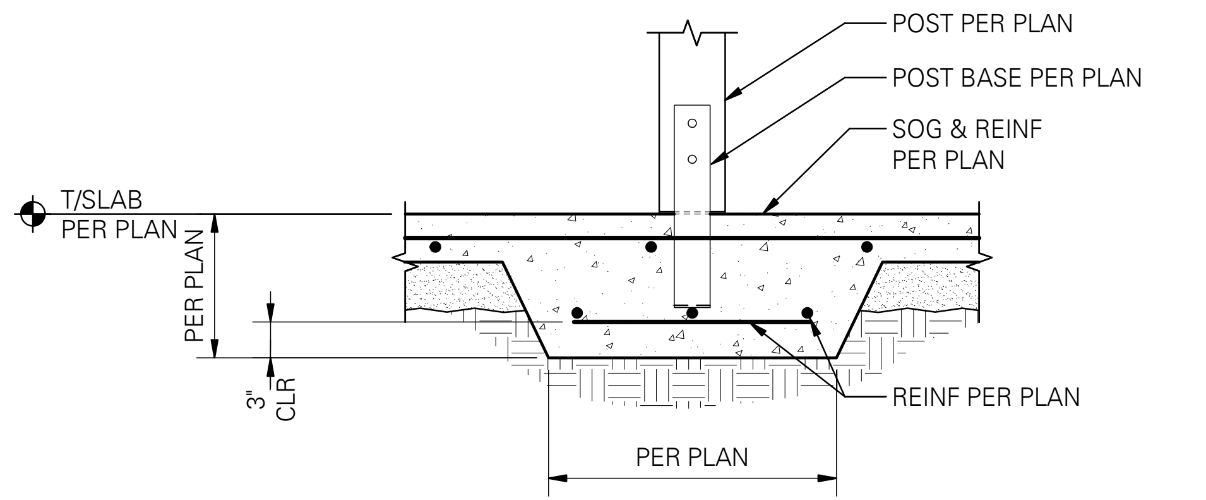


AT SQUARE PLINTH

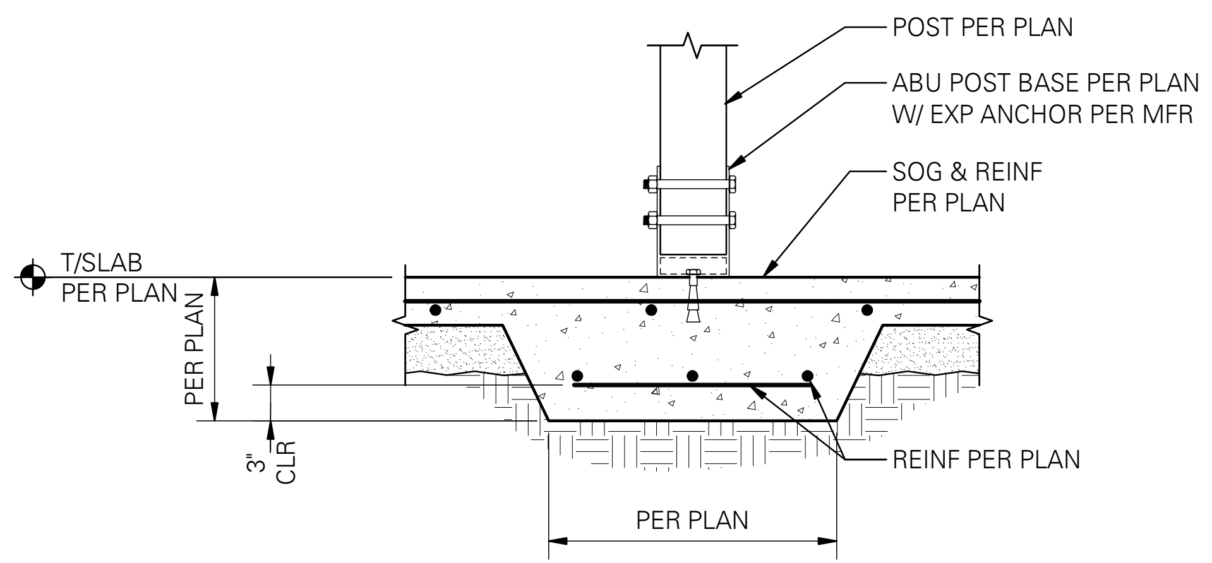
PLAN

10 EXTERIOR SPREAD FOOTING AT STEEL COLUMN

SCALE: 3/4" = 1'-0" (03008)



CAST-IN-BASE

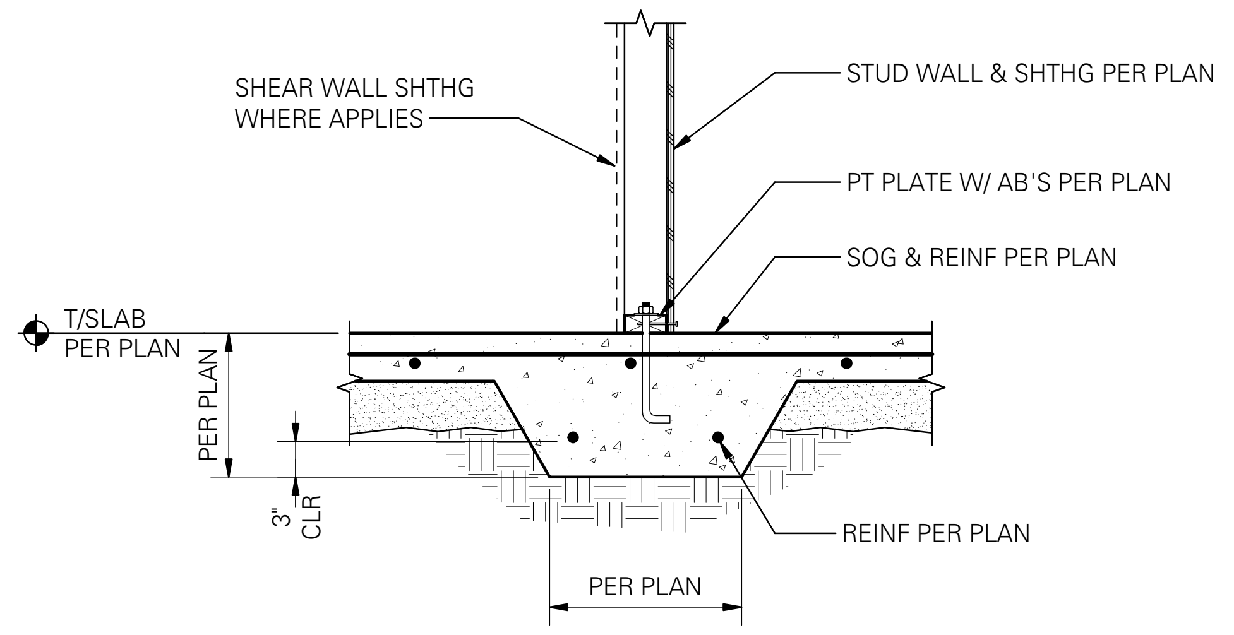


POST INSTALLED BASE

NOTE:
COLD JOINT BETWEEN FOOTING AND SLAB NOT PERMITTED.

7 INTERIOR THICKENED SLAB FOOTING AT WOOD POST

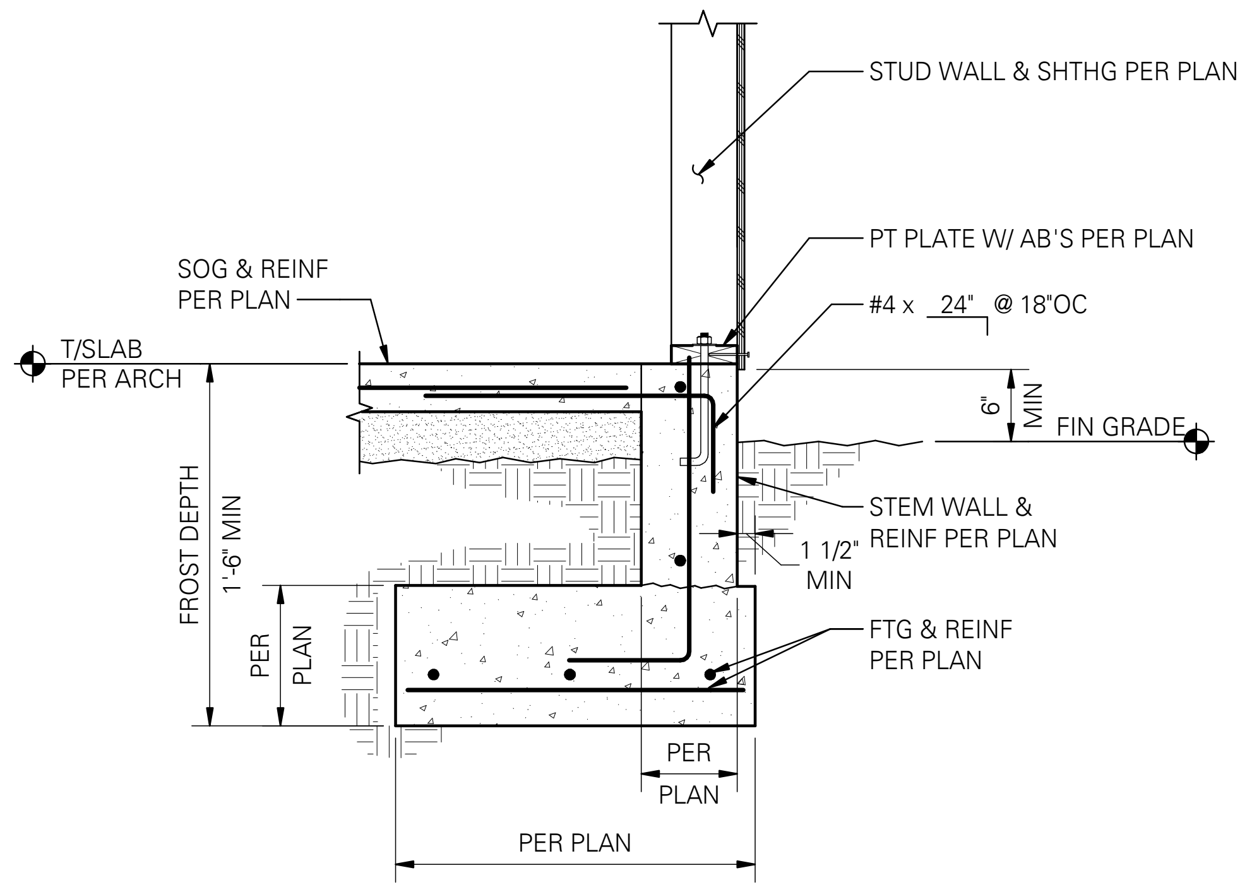
SCALE: 3/4" = 1'-0" (03010)



NOTE:
HORIZONTAL COLD JOINT BETWEEN FOOTING AND SLAB NOT PERMITTED.

11 INTERIOR THICKENED SLAB FOOTING AT STUD WALL

SCALE: 3/4" = 1'-0" (03020)



4 EXTERIOR FOOTING AND STEMWALL AT STUD WALL

SCALE: 3/4" = 1'-0" (03031M)

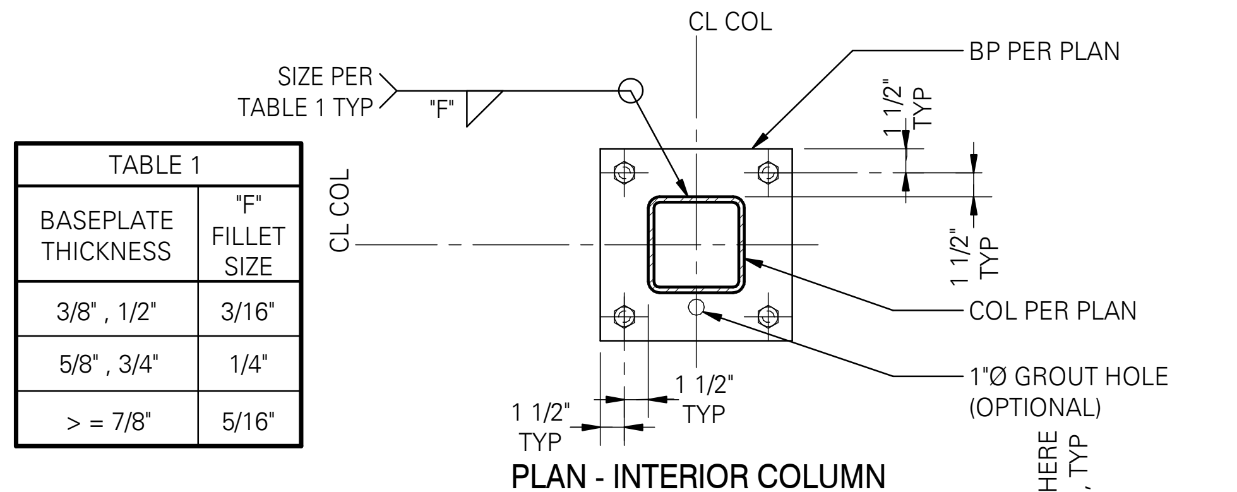
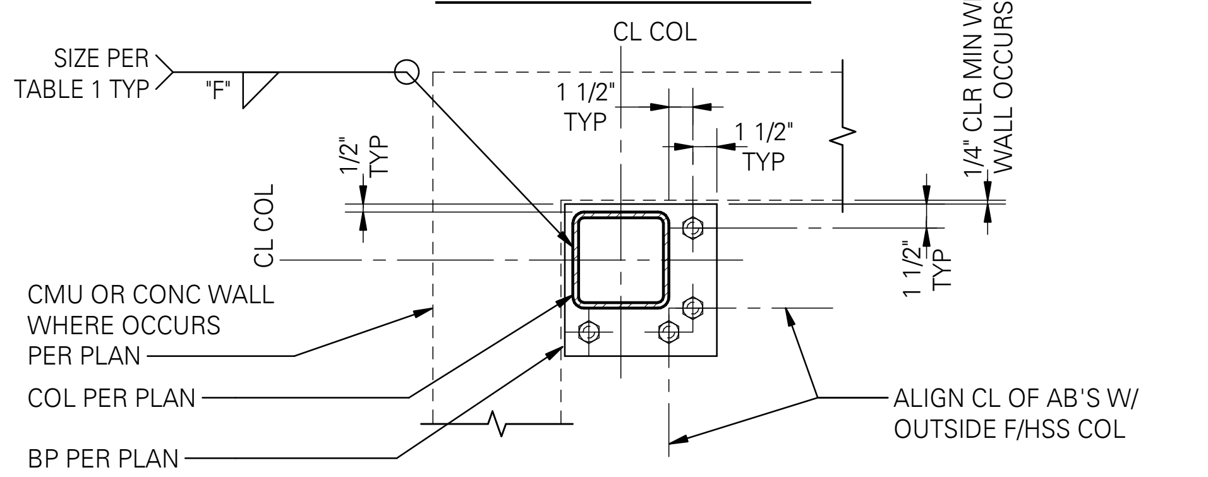
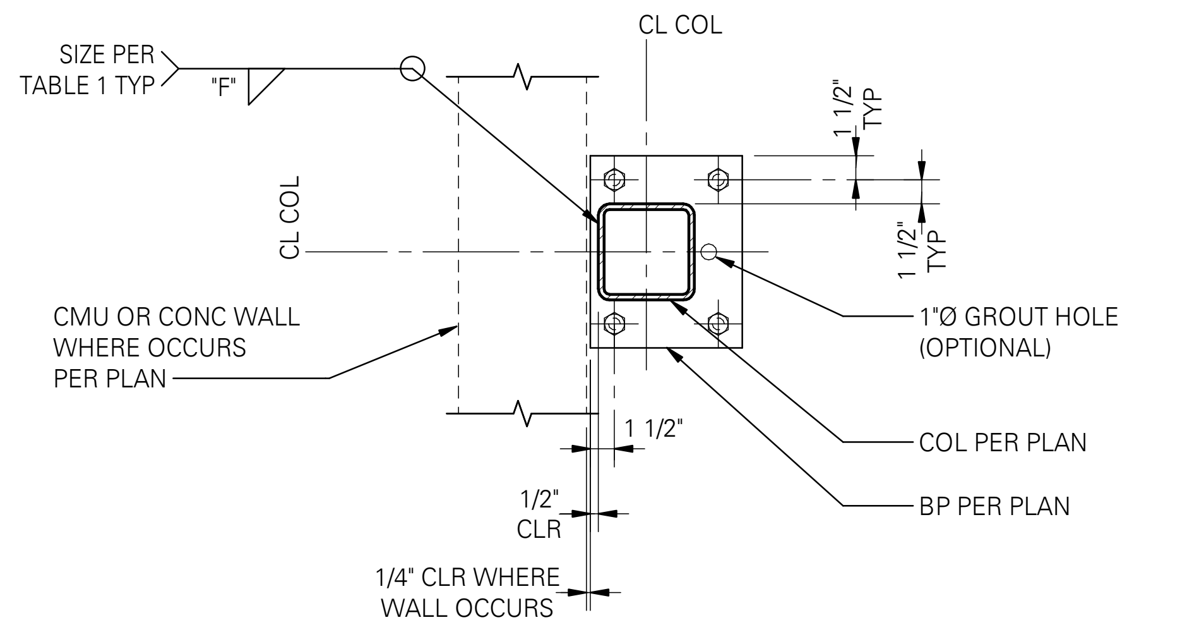


TABLE 1	
BASEPLATE THICKNESS	"F" FILLET SIZE
3/8" , 1/2"	3/16"
5/8" , 3/4"	1/4"
> = 7/8"	5/16"

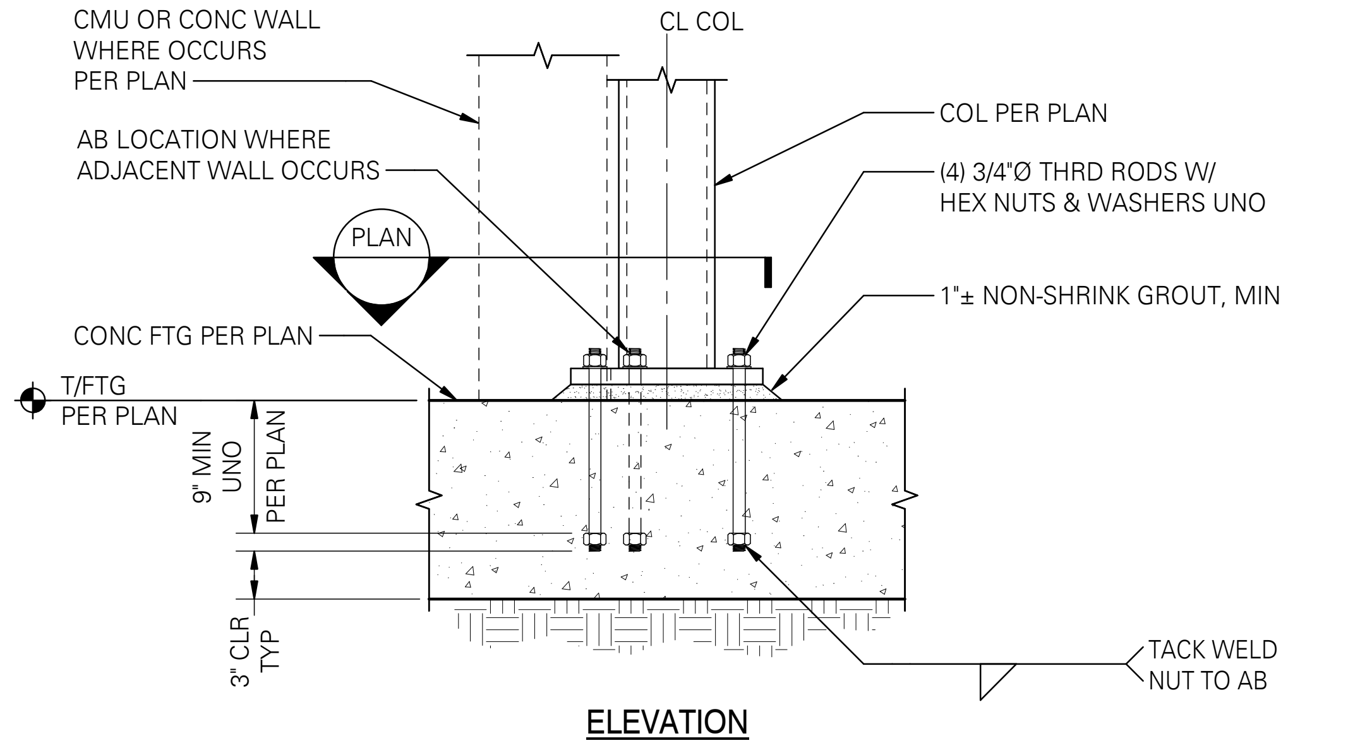
PLAN - INTERIOR COLUMN



PLAN - CORNER COLUMN



PLAN - EDGE COLUMN



ELEVATION

12 TYPICAL BASEPLATE TO FOUNDATION CONNECTION - HSS COLUMN

SCALE: 1" = 1'-0" (05030)

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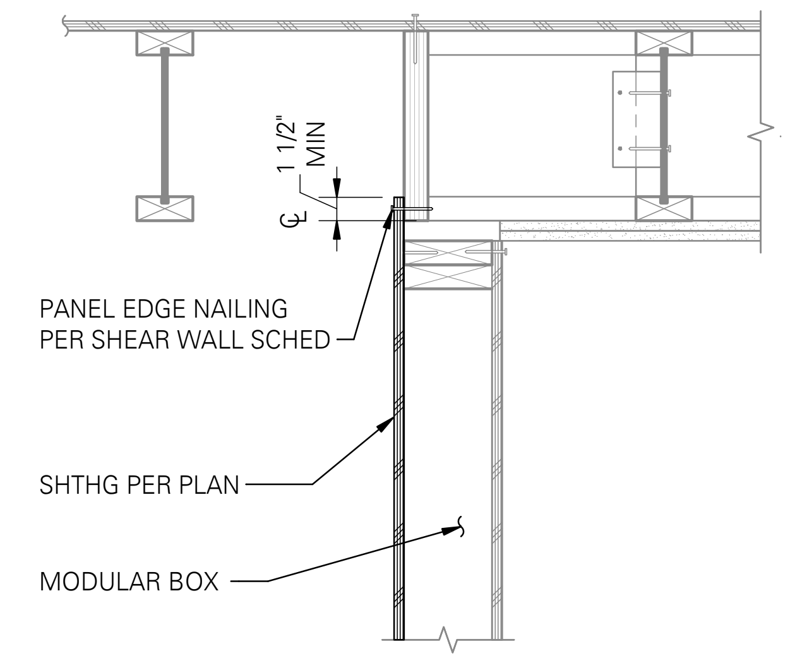
	11/15/2019	Site Permit Set	

N — PROJECT NORTH
N — TRUE NORTH

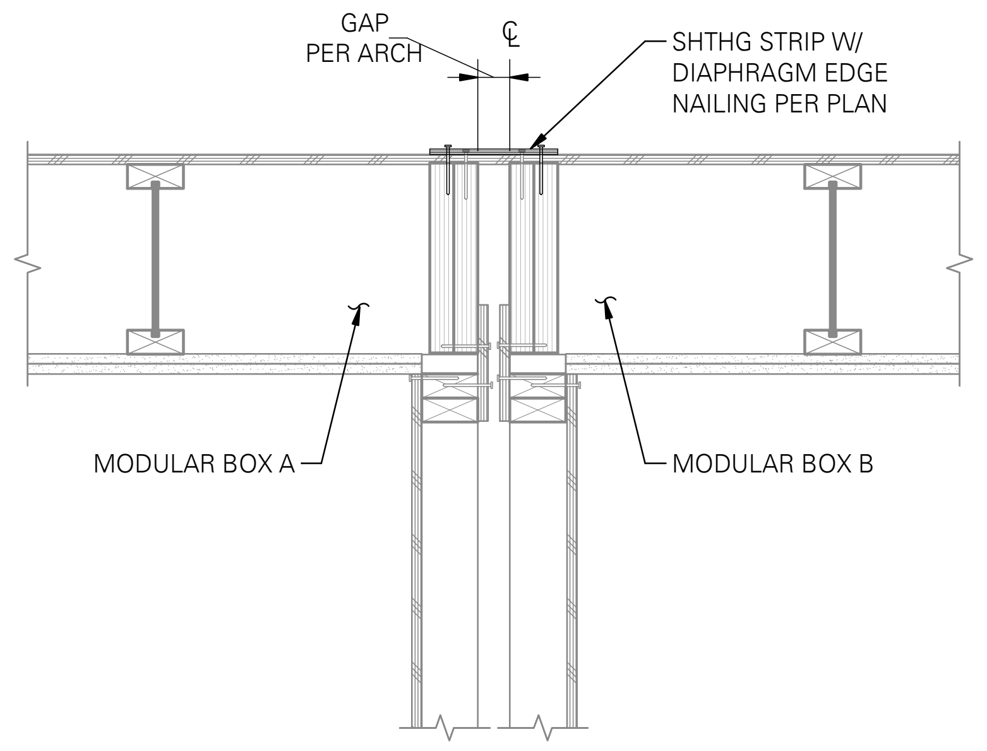
DRAWN BY:	LD
PROJECT NUMBER:	18141-0055
SHEET ISSUE DATE:	11/11/2019
SHEET TITLE:	

Typical Foundation Details

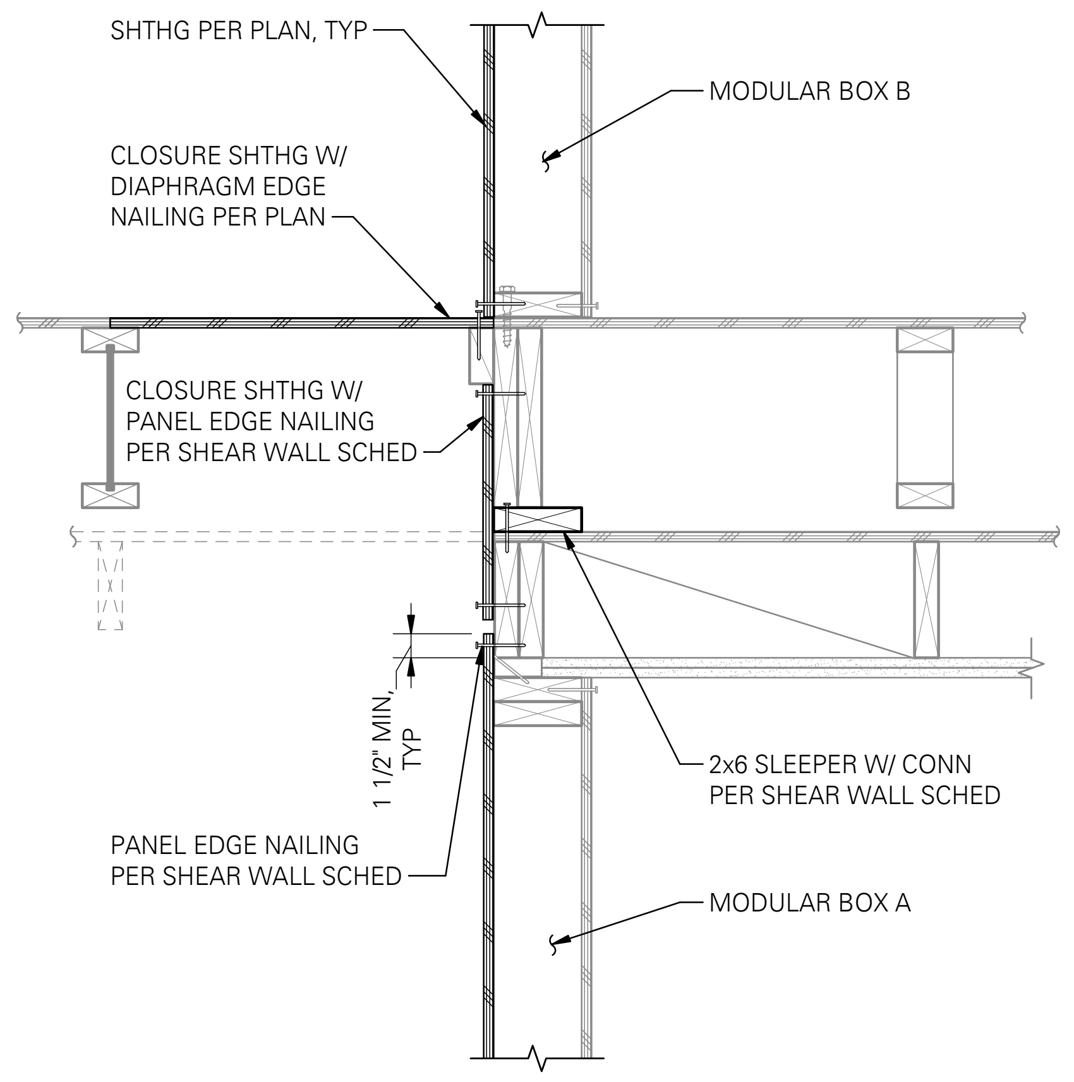
SHEET NUMBER
S4.02



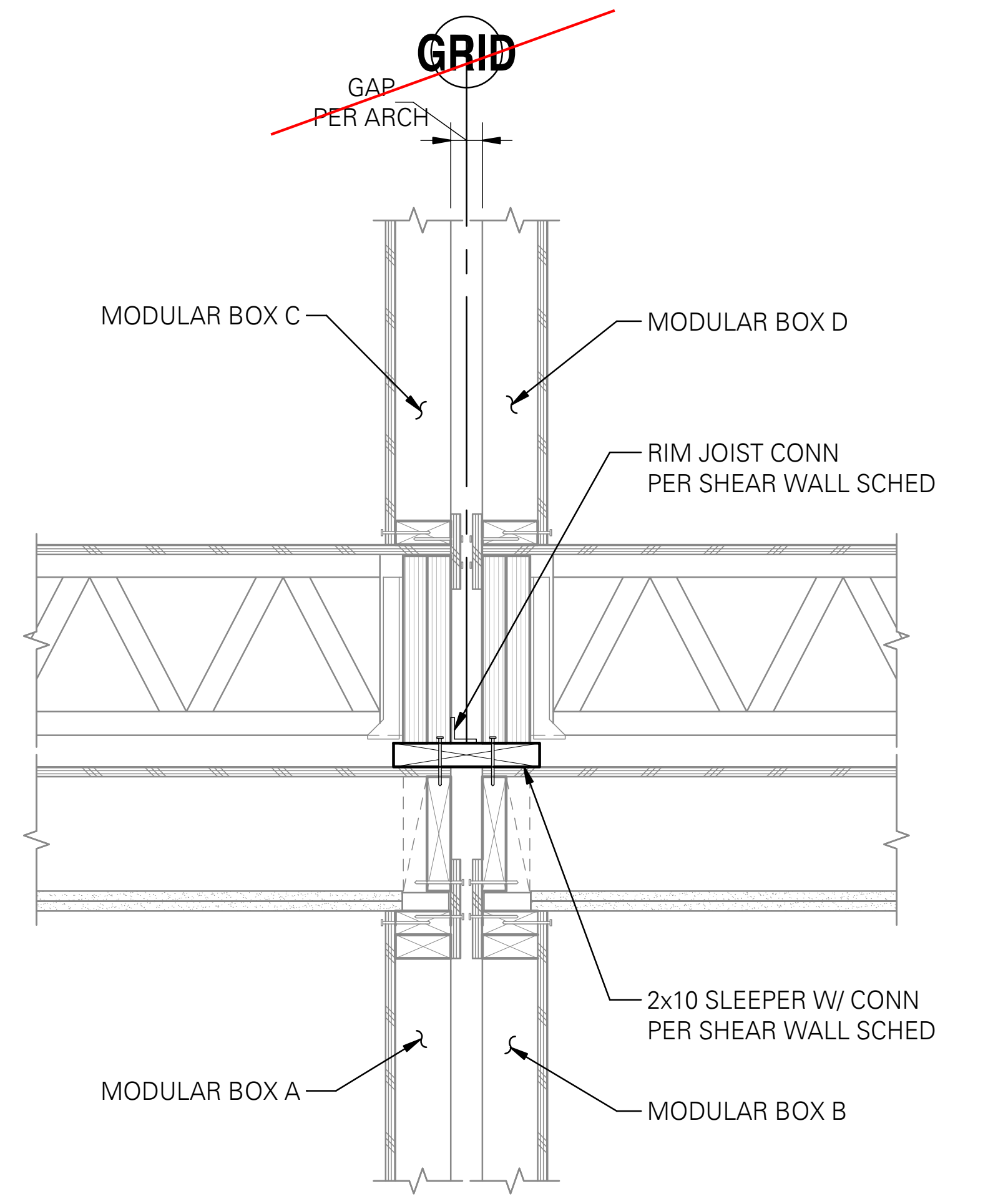
1 **TYPICAL CORRIDOR AT MODULAR ROOF**
SCALE: 1" = 1'-0"



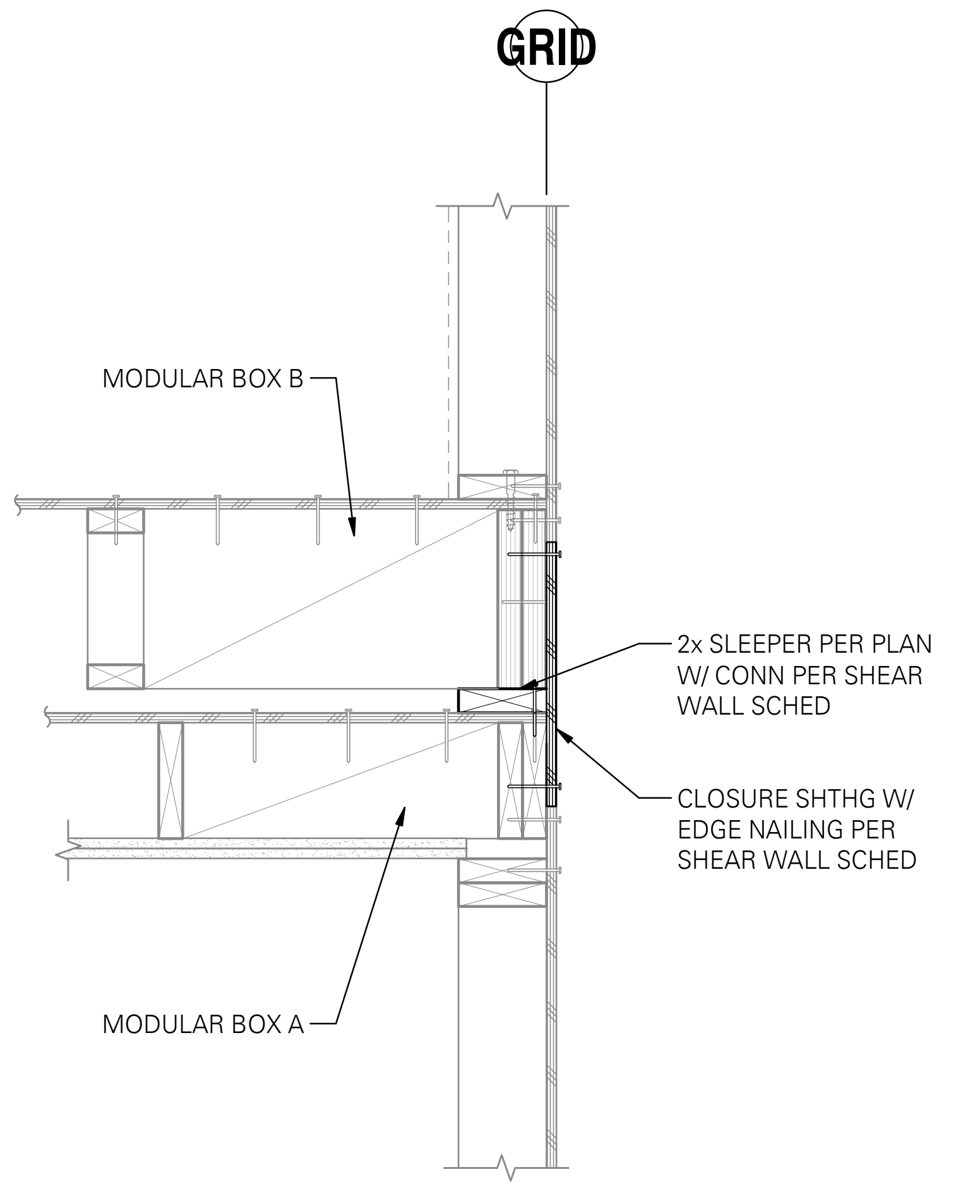
2 **TYPICAL MATELINE AT MODULAR ROOF**
SCALE: 1" = 1'-0"



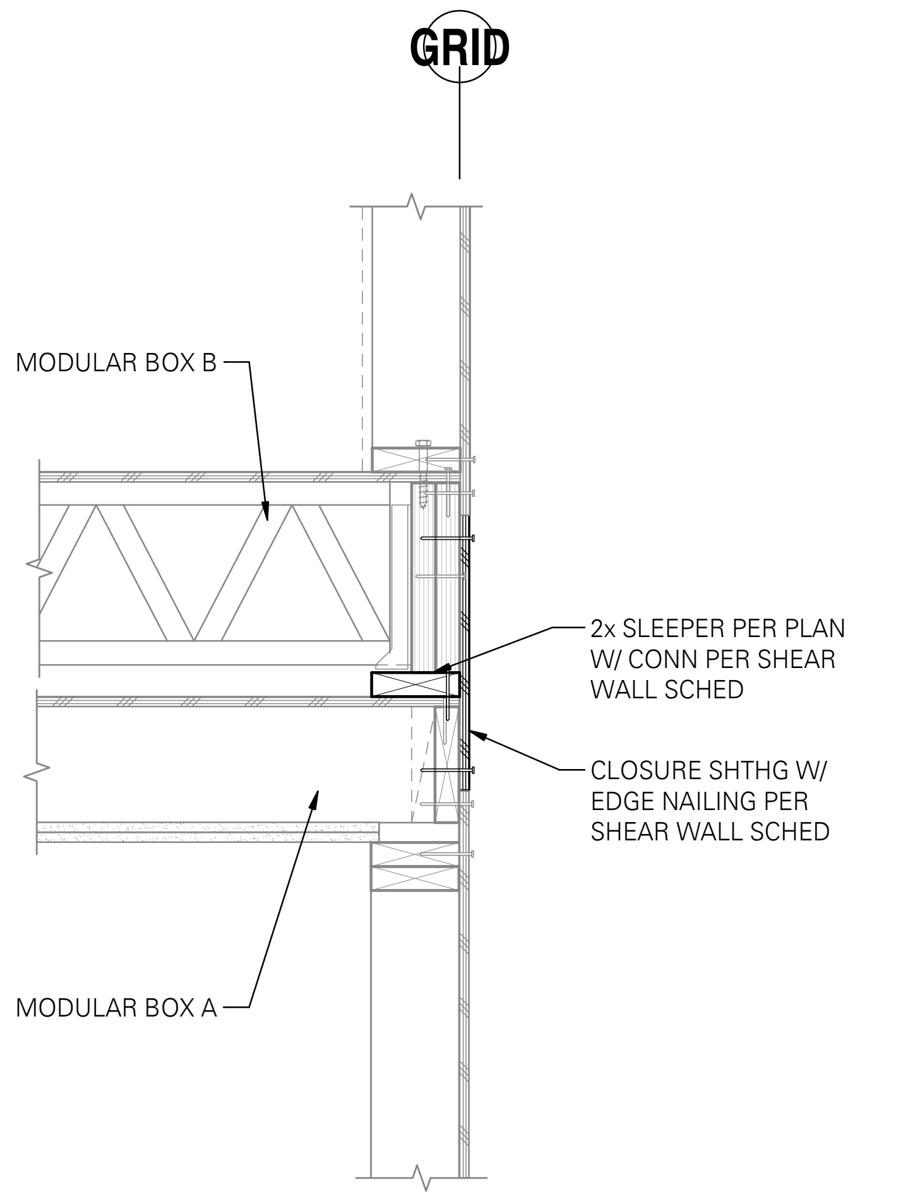
5 **TYPICAL CORRIDOR AT MODULAR STACK**
SCALE: 1" = 1'-0"



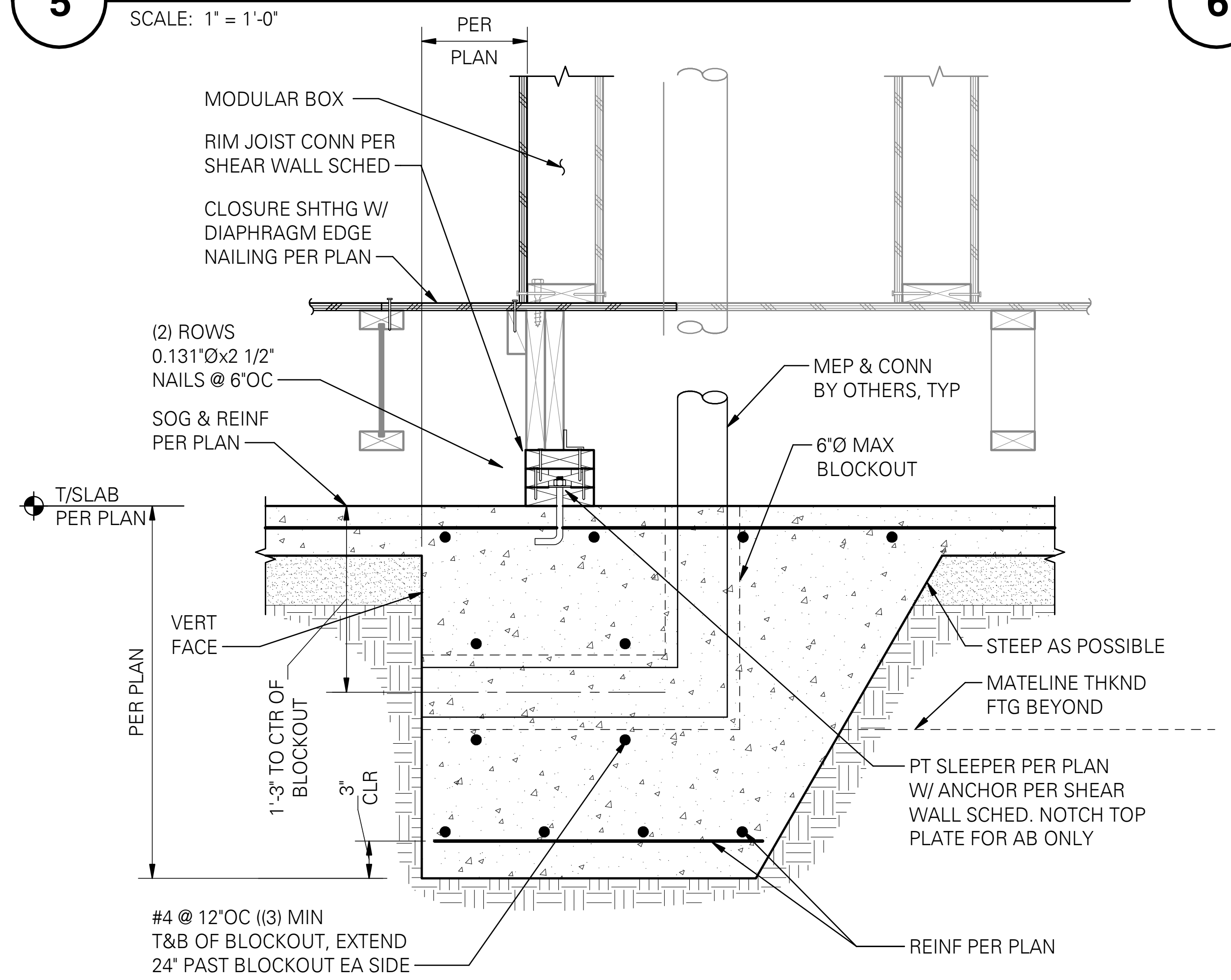
6 **TYPICAL MATELINE AT MODULAR STACK**
SCALE: 1" = 1'-0"



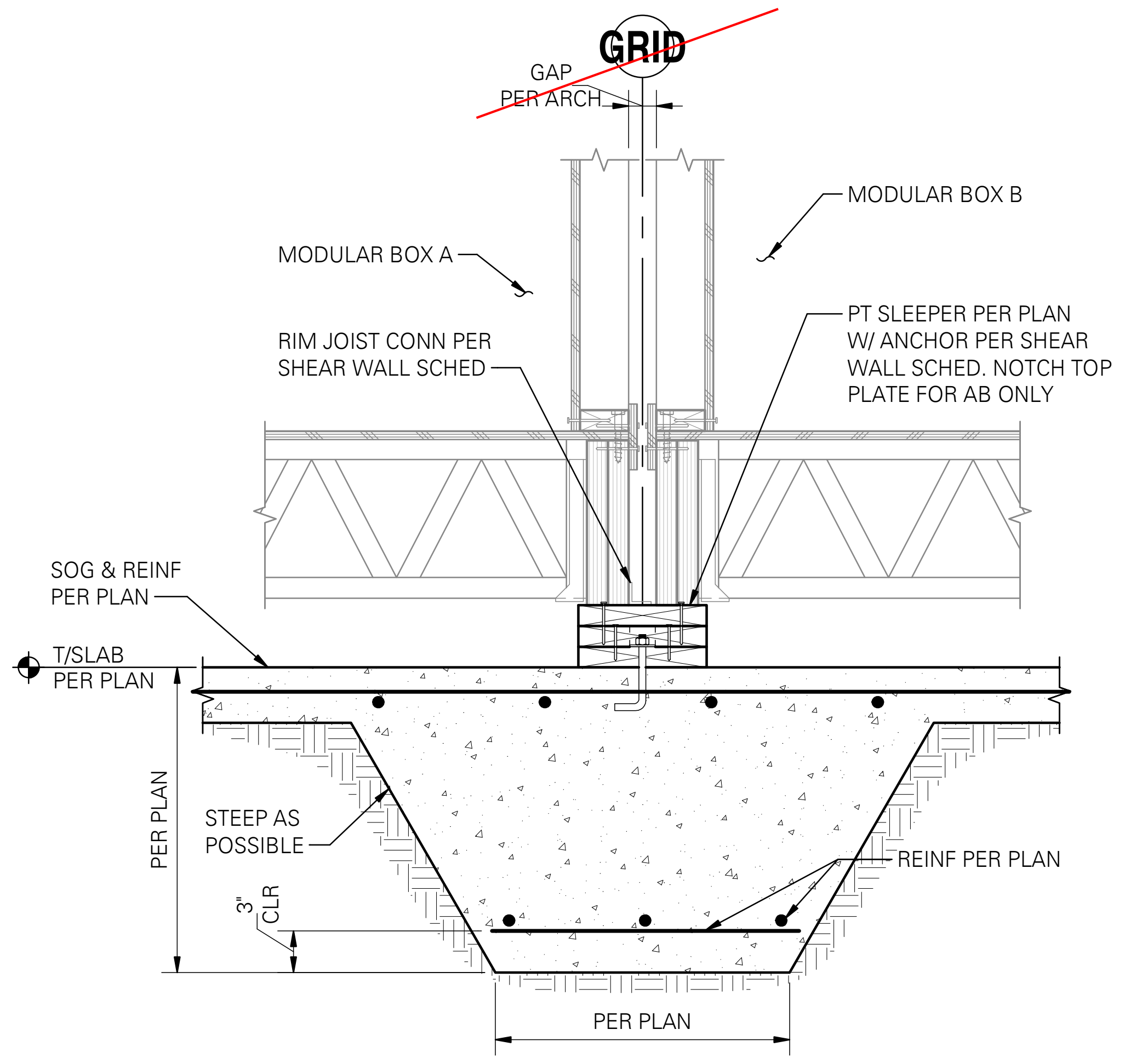
7 **TYPICAL EXTERIOR AT MODULAR STACK - JOIST PARALLEL**
SCALE: 1" = 1'-0"



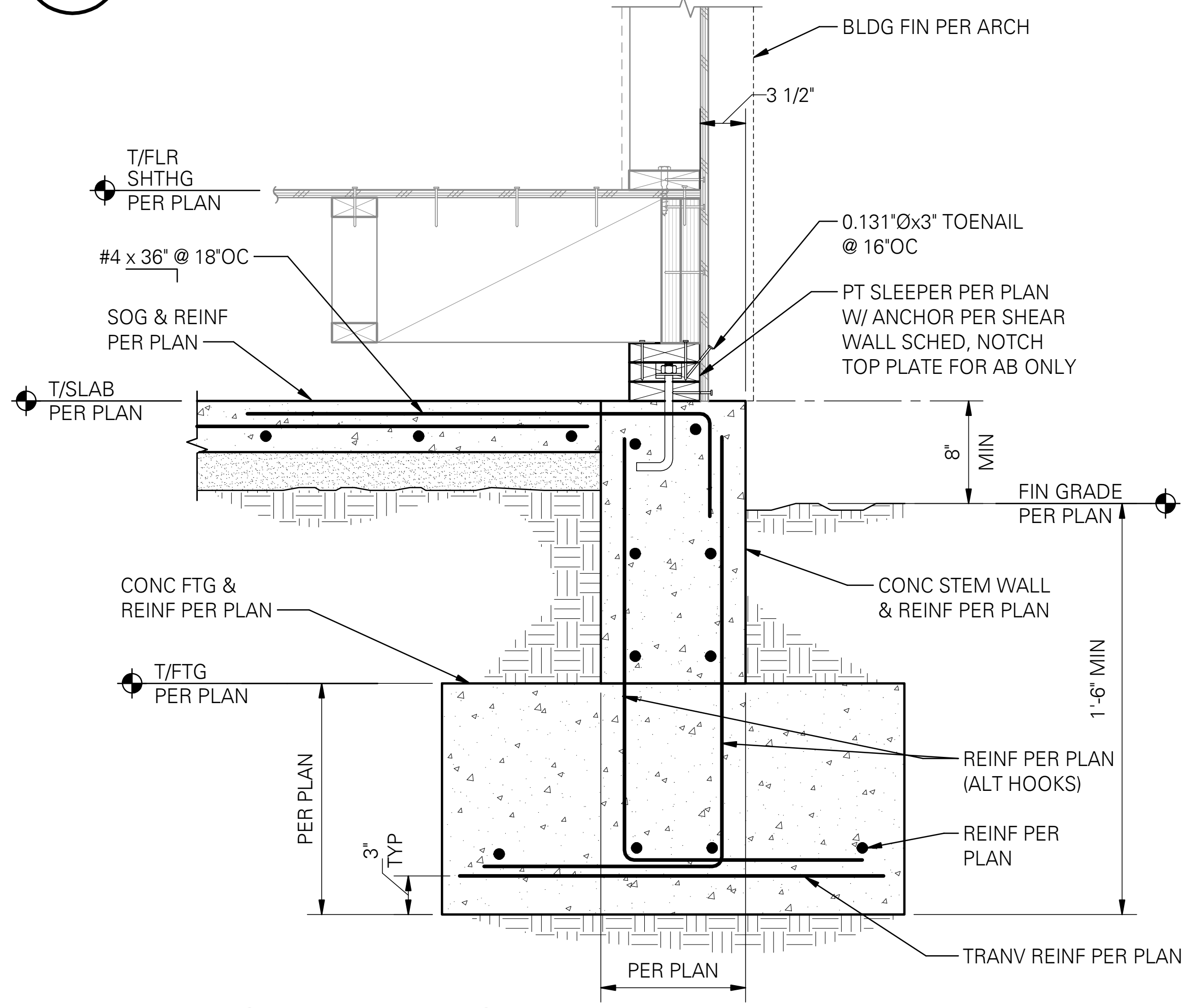
8 **TYPICAL EXTERIOR AT MODULAR STACK - JOIST PERPENDICULAR**
SCALE: 1" = 1'-0"



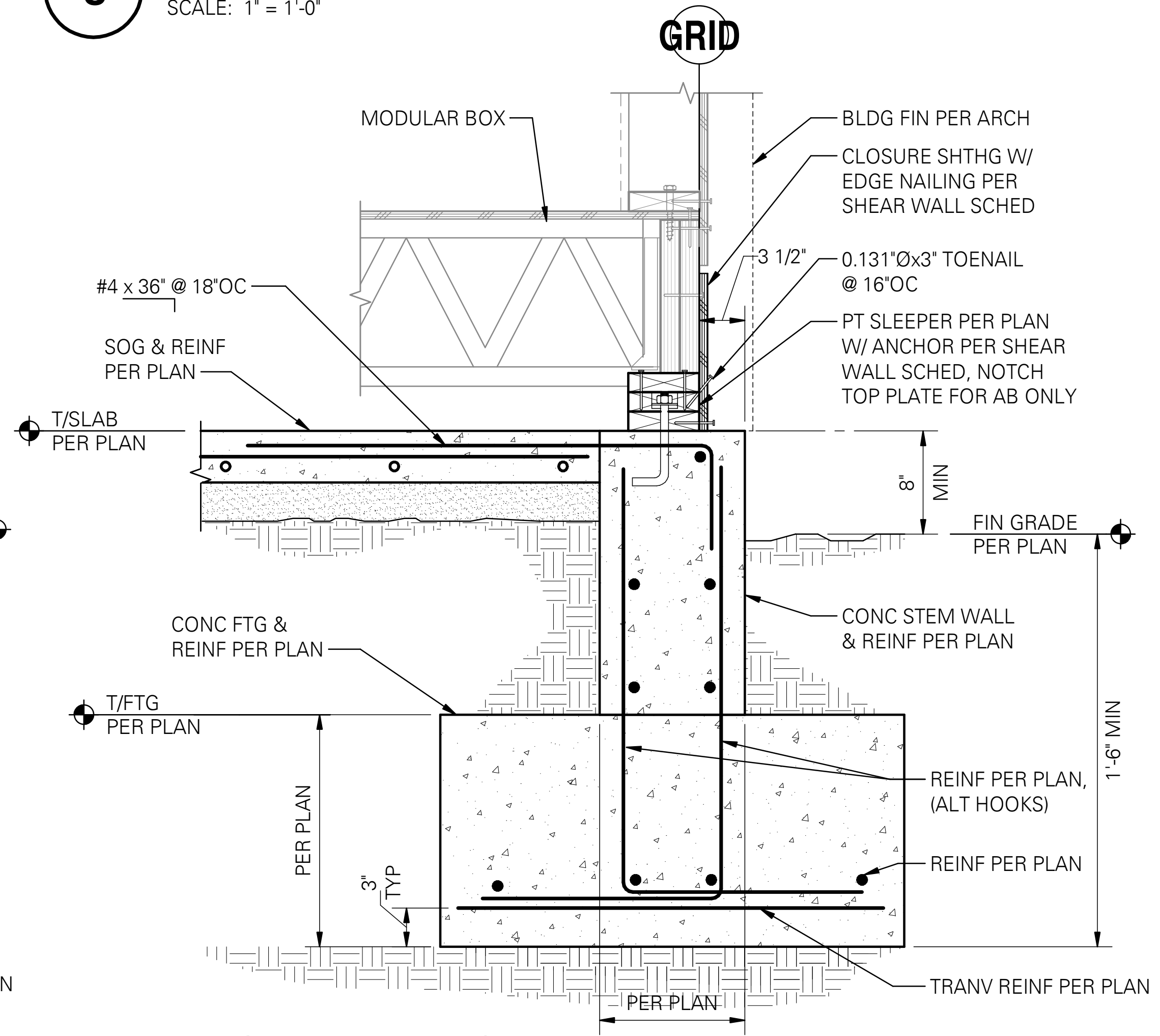
9 **TYPICAL CORRIDOR AT FOUNDATION**
SCALE: 1" = 1'-0"



10 **TYPICAL MATELINE AT CONCRETE SLAB**
SCALE: 1" = 1'-0"



11 **TYPICAL EXTERIOR AT CONCRETE SLAB-JOIST PARALLEL**
SCALE: 1" = 1'-0"



12 **TYPICAL EXTERIOR AT CONCRETE SLAB-JOIST PERPENDICULAR**
SCALE: 1" = 1'-0"

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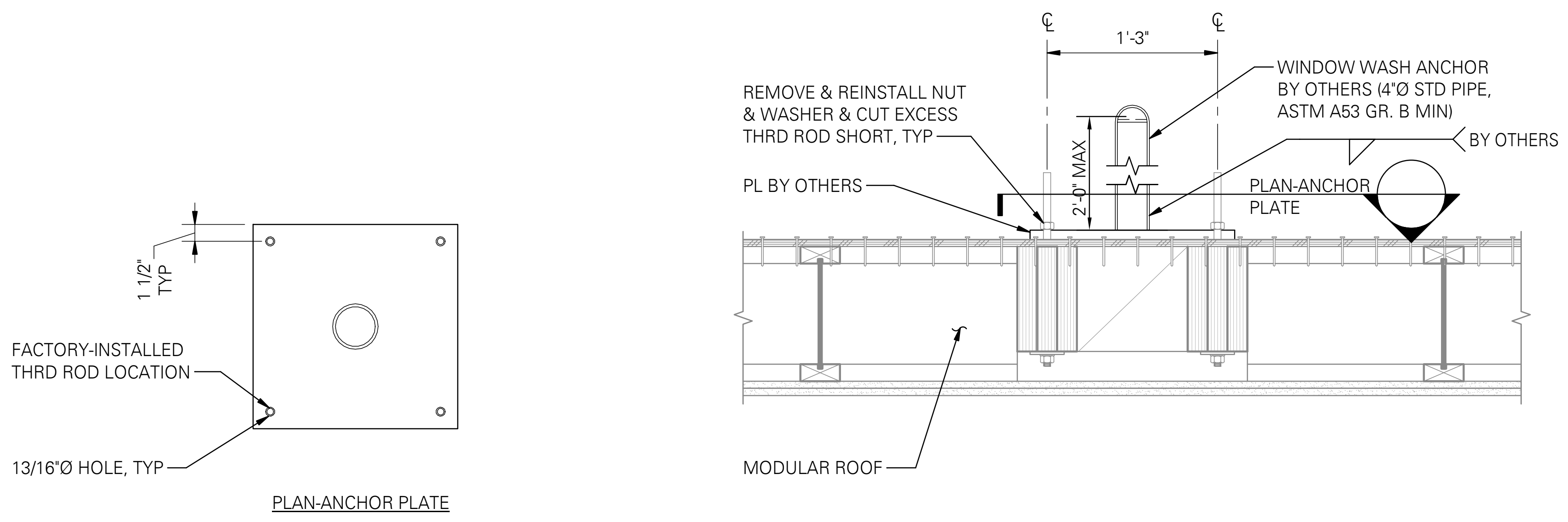
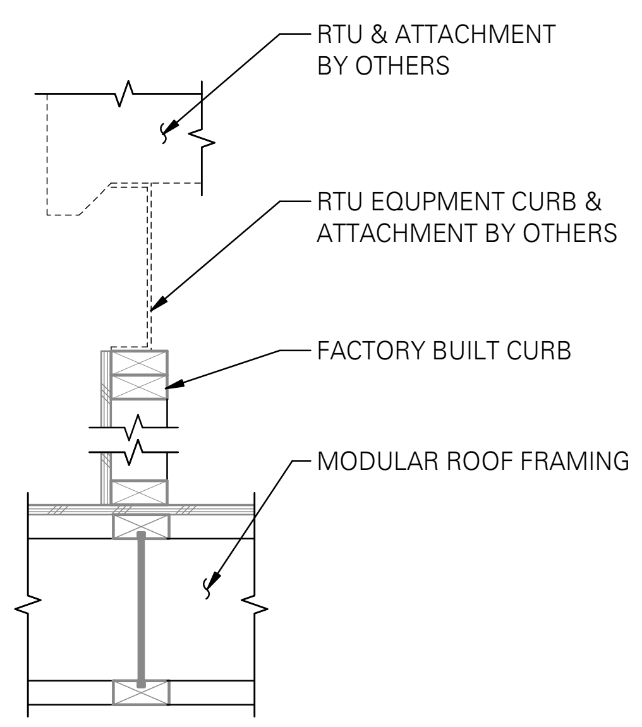
DRAWN BY: LD
PROJECT NUMBER: 18141-0055
SHEET ISSUE DATE: 11/11/2019
SHEET TITLE:

Installation & Site-Built
Wood Framing Details

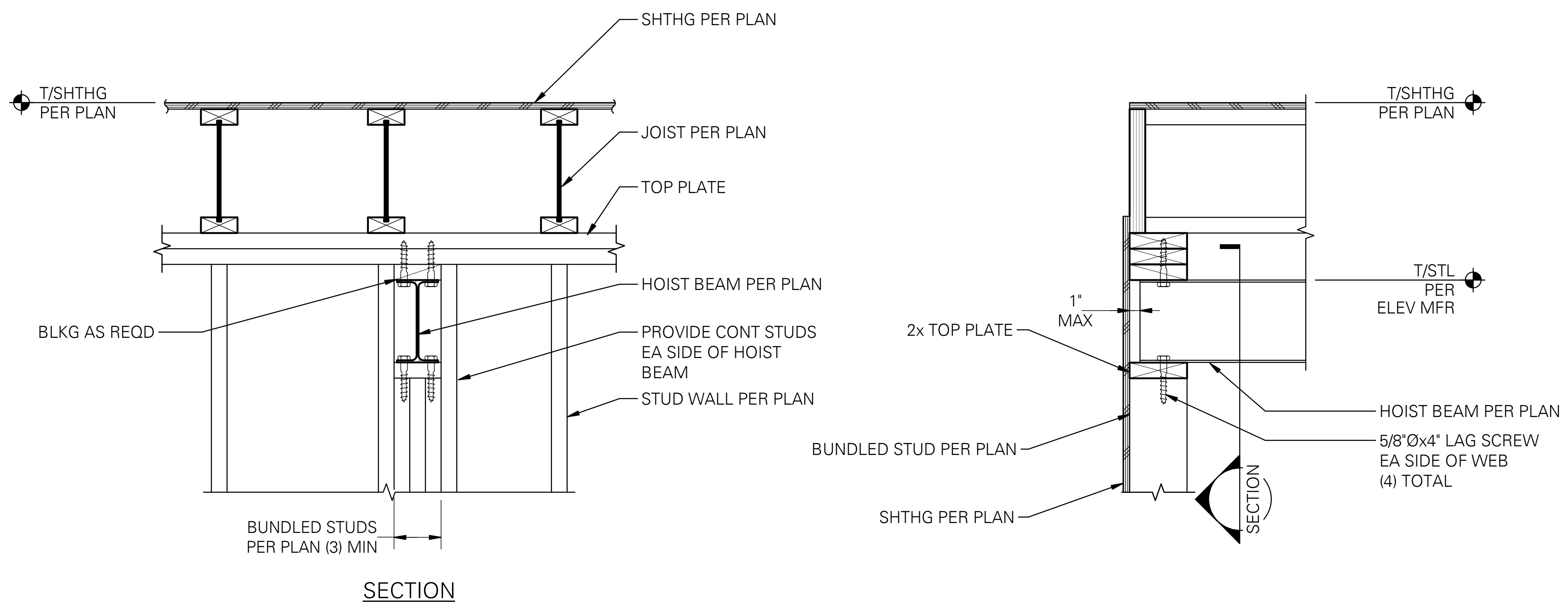
SHEET NUMBER
S6.01



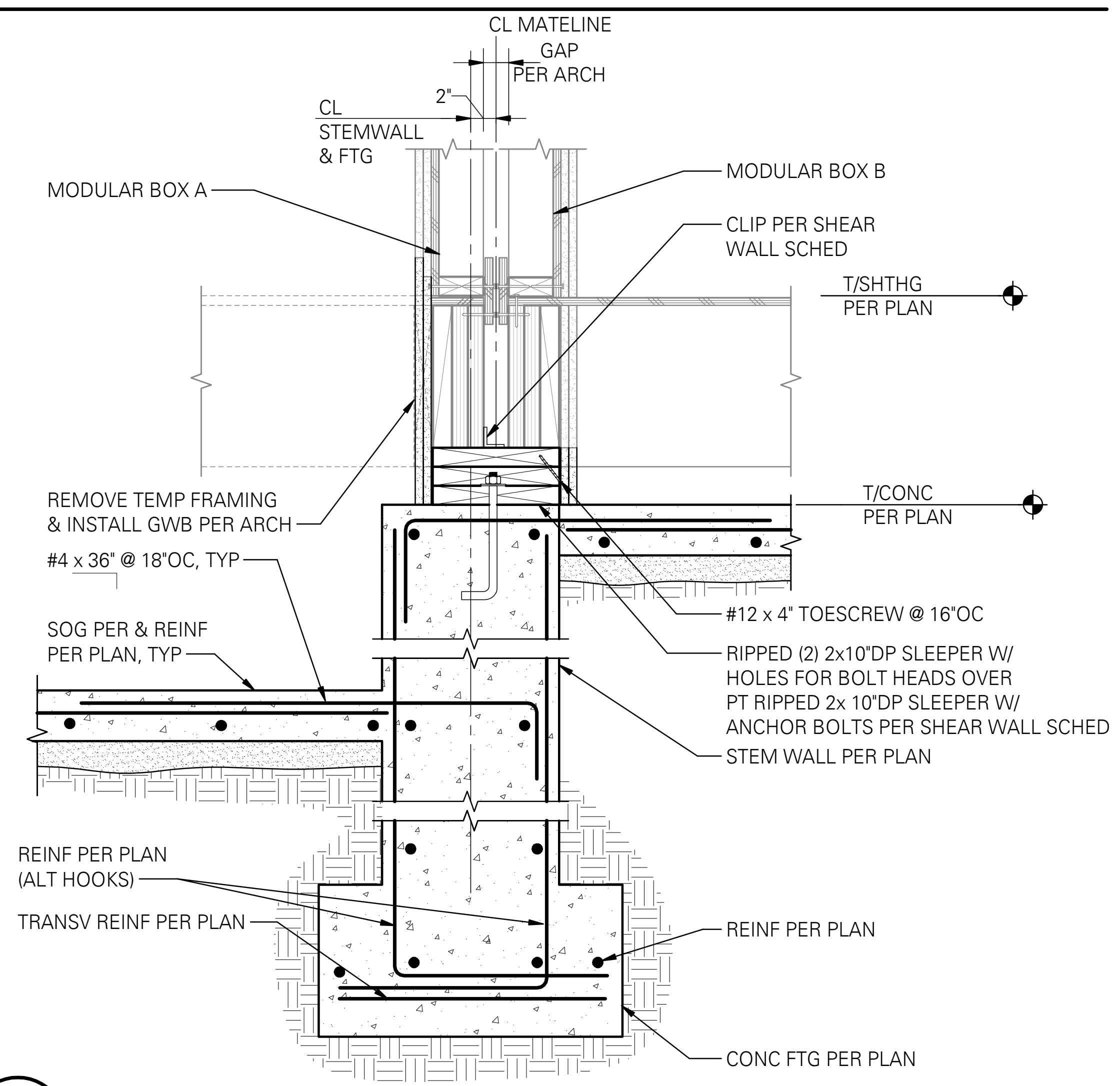
2 WINDOW WASH ANCHOR - FIELD INSTALL
SCALE: 1" = 1'-0"



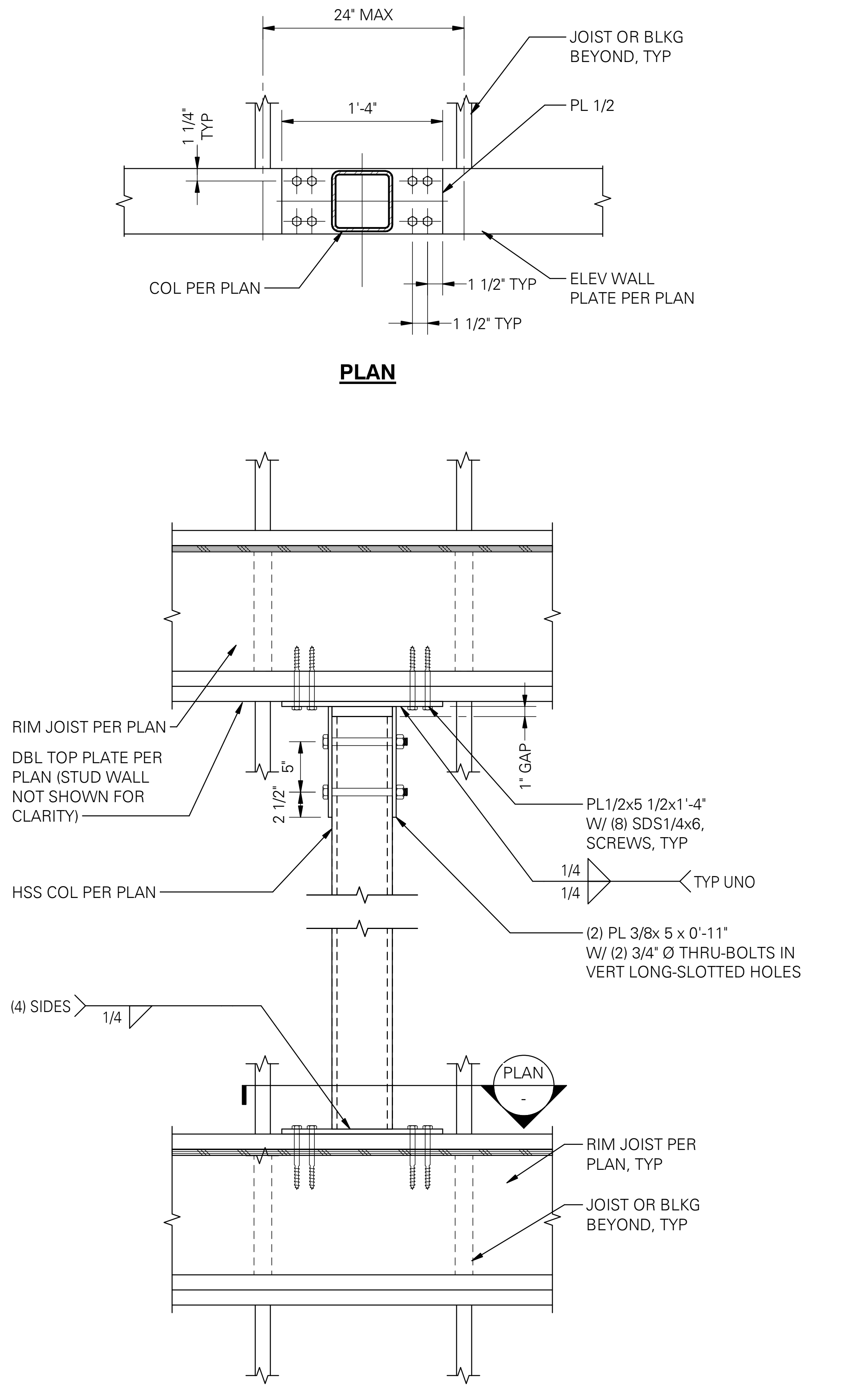
4 TYPICAL ROOF TOP EQUIPMENT SUPPORT
SCALE: 1" = 1'-0"



6 HOIST BEAM SUPPORT
SCALE: 1" = 1'-0"



11 MODULAR INTERIOR 2-HOUR FLOOR FRAMING
SCALE: 1" = 1'-0"



12 ELEVATOR RAIL SUPPORT ATTACHMENT TO WOOD
SCALE: 1" = 1'-0"

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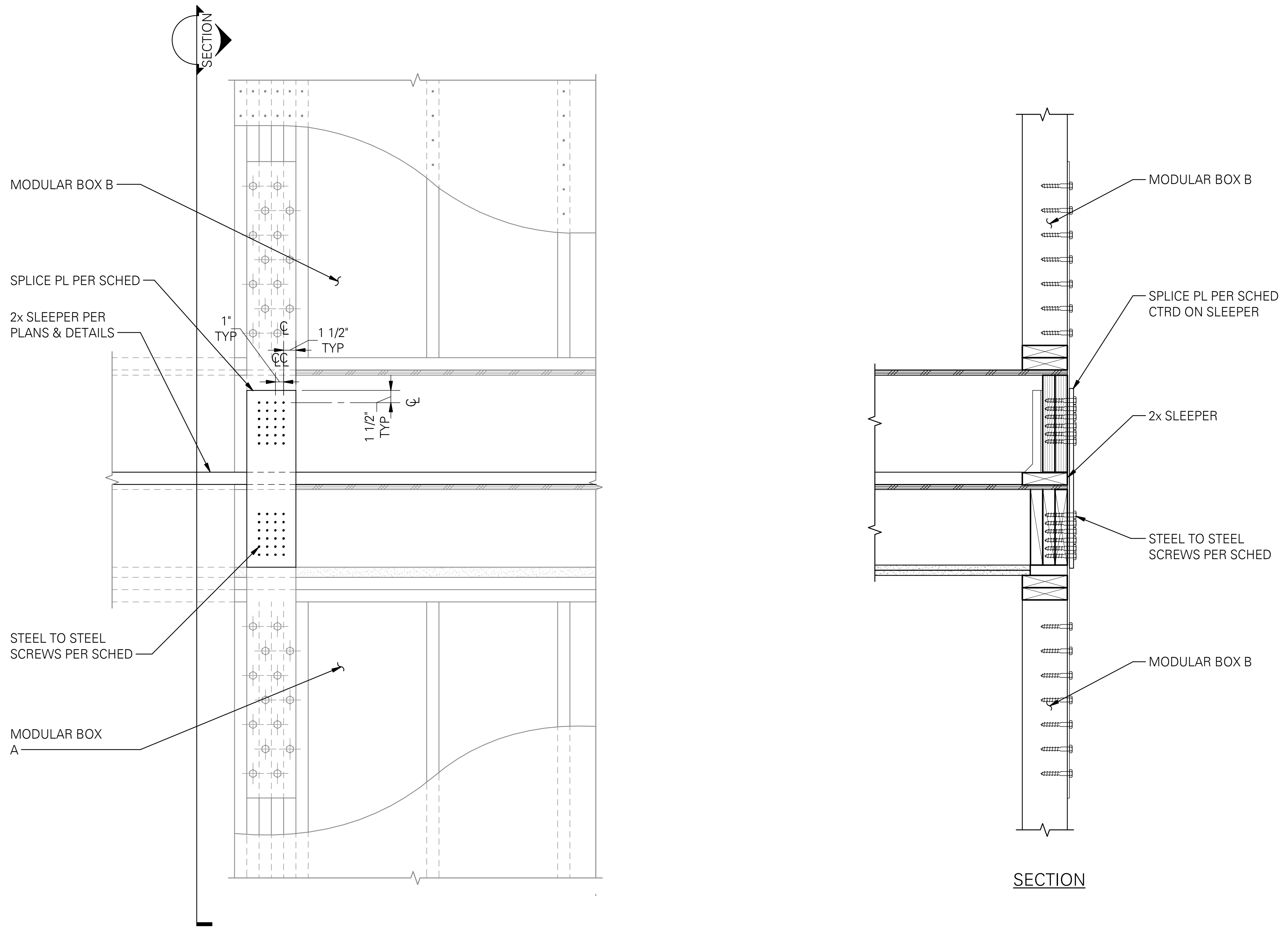
PROJECT NUMBER: 18141-0055
SHEET ISSUE DATE: 11/11/2019
SHEET TITLE:

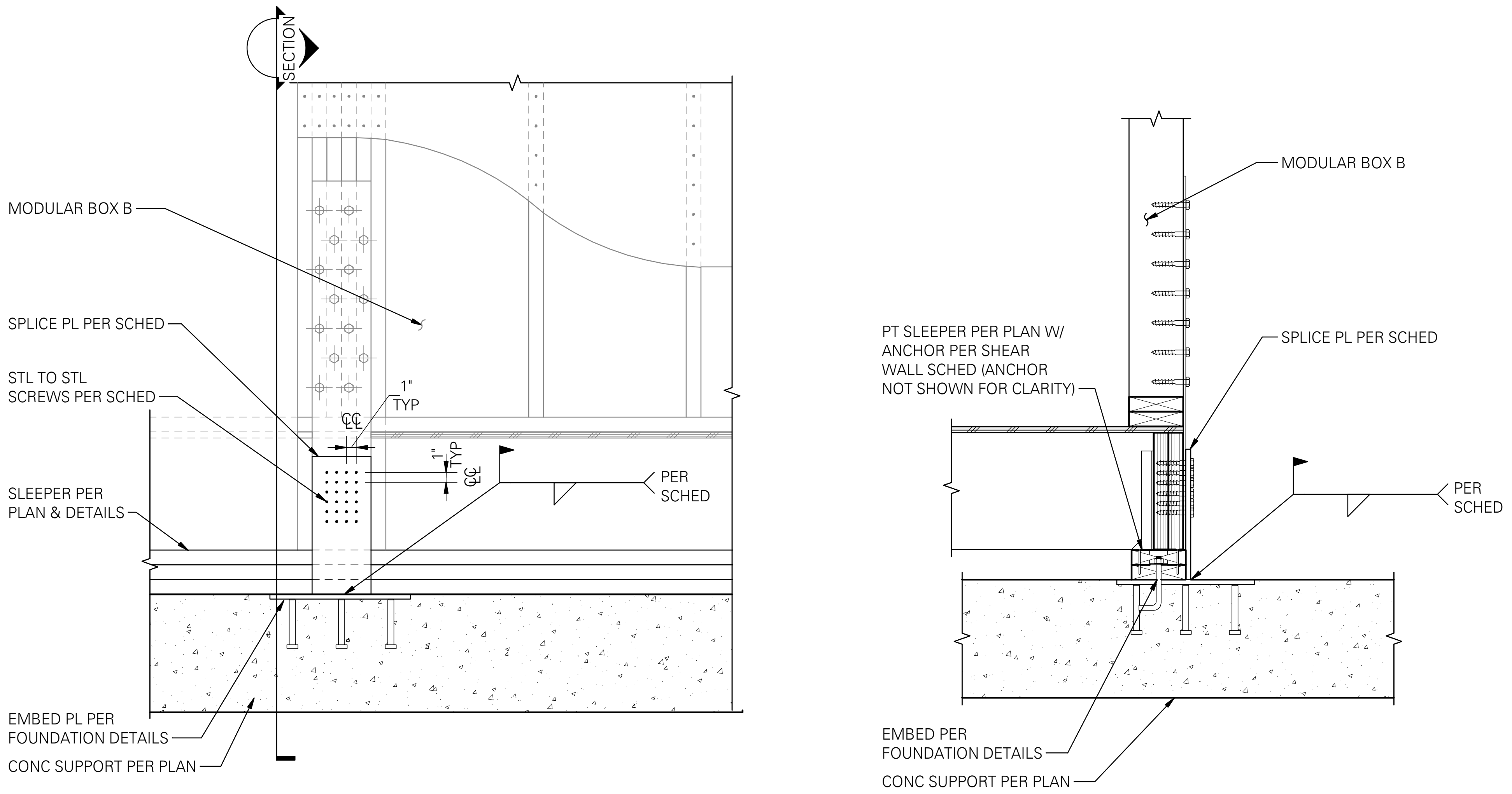
Installation & Site-Built Wood Framing Details

SHEET NUMBER
S6.03



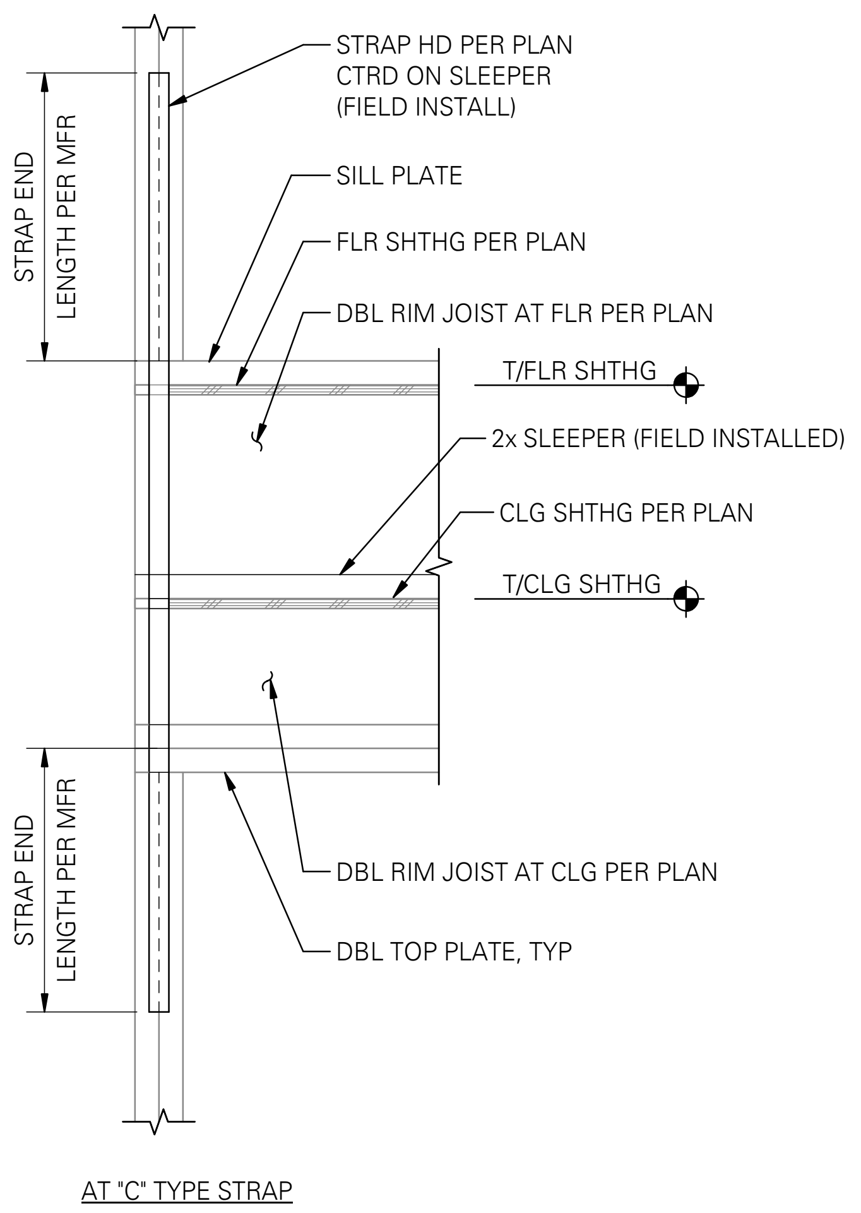
5 MODULAR HOLD-DOWN ELEVATION AT MODULAR STACK

SCALE: 1" = 1'-0"



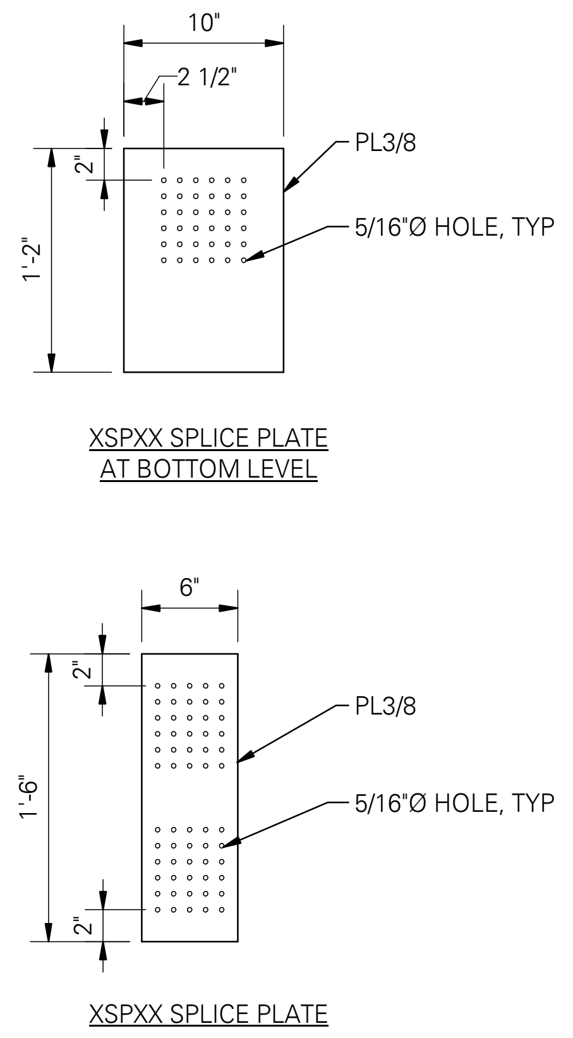
9 MODULAR HOLD-DOWN ELEVATION AT FLOOR

SCALE: 1" = 1'-0"



3 STRAP HOLD-DOWN AT MODULAR STACK

SCALE: 1" = 1'-0"



NOTE:

SPLICE PLATES TO BE ASTM A36.

4 TYPICAL SPLICE PLATE DETAIL

SCALE: 1" = 1'-0"

HOLD-DOWN/SPLICE PLATE SCHEDULE

01420M

[1, 2, 3] ← INDICATES FOOTNOTES

TYPE	SCREWS [4, 7]	MIN WELD AT CONCRETE SLAB [9]	CAPACITY [8]	NOTES
MSTC52	(36) 0.148"Øx1 1/2" NAILS		3.4k	[10]
MSTC66	(54) 0.148"Øx1 1/2" NAILS		5.3k	[10]
(2) MSTC52	(72) 0.148"Øx1 1/2" NAILS		6.9k	[10]
(2) MSTC66	(108) 0.148"Øx1 1/2" NAILS		10.7k	[10]
(3) MSTC66	(162) 0.148"Øx1 1/2" NAILS		16.1k	[10]
(4) MSTC66	(216) 0.148"Øx1 1/2" NAILS		21.5k	[10]
(5) MSTC66	(270) 0.148"Øx1 1/2" NAILS		26.9k	[10]
(6) MSTC78	(432) 0.148"Øx1 1/2" NAILS		34.8k	[10]
3SP10	(10) #12	E 1/4"-4"	2.4k	[5]
3SP18	(18) #12	E 1/4"-4"	4.8k	[5]
45SP18	(18) #12	E 1/4"-4"	6.0k	[5]
45SP24	(24) #12	E 1/4"-4"	8.0k	[5]
45SP30	(30) #12	E 1/4"-4"	10.0k	[5]
6SP22	(24) 1/4-28 TEKS SCREWS	E 1/4"-5"	15.0k	[6, 10]
6SP30	(32) 1/4-28 TEKS SCREWS	E 1/4"-7"	20.0k	[6, 10]
6SP36	(40) 1/4-28 TEKS SCREWS	E 1/4"-9"	25.0k	[6, 10]
6SP46	(50) 1/4-28 TEKS SCREWS	E 1/4"-10"	32.0k	[6, 10]

NOTES:

[1] SOME HOLD-DOWN TYPES MAY NOT BE USED ON THIS PROJECT.

[2] TYPICAL HOLD-DOWN DETAILS PER [X/SX.X] AND [X/SX.X]. SPLICE DETAIL PER X/SX.X.

[3] BASED ON 11 1/4" DEEP FLOOR AND 7 1/4" DEEP CEILING.

[4] TOTAL FASTENERS SPECIFIED, USE HALF THE FASTENERS ABOVE AND BELOW THE LEVEL BEING CONNECTED.

[5] #12 x 1 1/4" SELF-DRILLING/SELF TAPPING SCREWS WITH MINIMUM HEAD DIAMETER EQUAL TO 3/8".

[6] 1/4-28 TEKS SELF-DRILLING PER ESR-1976.

[7] AT FOUNDATION OR CONCRETE SLAB, BOTTOM CONNECTION IS WELDED AND ONLY HALF THE SPECIFIED SCREWS ARE REQUIRED.

[8] BASED ON ALLOWABLE STRESS DESIGN.

[9] "WELD THROAT" - "WELD LENGTH". MINIMUM REQUIRED IS SHOWN.

[10] STRAPS INSTALLED DIRECTLY TO STUDS. USE 0.148"Øx2 1/2" NAILS IF INSTALLING OVER SHEATHING.

11 FACTORY INSTALLED HOLD-DOWN/STRAP SCHEDULE - DOUG FIR STUDS

SCALE: 1" = 1'-0" ((01420M))

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N PROJECT NORTH
N TRUE NORTH

DRAWN BY: LD
PROJECT NUMBER: 18141-0055
SHEET ISSUE DATE: 11/11/2019
SHEET TITLE:

Installation & Site-Built
Wood Framing Details

SHEET NUMBER
S6.05

11/12/2019 2:47:27 PM

APPENDIX B

Site Conceptual Model

Site Conceptual Model

The Phoenix
1/20/20

Sec No | **Section / Sub-Section Name** | **Details** | **References** | **Data Gap** | **Method to Address Data Gap**

1 Introduction

This Site Conceptual Model (SCM) was prepared by P&D Environmental, Inc. (P&D) on behalf of Urban Designs, LLC for The Phoenix case. Alameda County Department of Environmental Health (ACDEH) is the lead regulatory oversight agency for this case. Case identifiers are provided below:

Site Name:	The Phoenix	**GeoTracker ID:**	T10000011072
Site Address:	801 Pine Street, Oakland, CA 94607	**ACDEH Case No.:**	RO0003269

This SCM was prepared by or under the oversight of a licensed professional as certified in Attachment A in accordance with industry best practices and [Insert standards used to develop SCM (e.g. LUFT manual, ASTM Standard, EPA Guidance].

Attachment A

1.1 Change log

This document has been updated to reflect new data collected for the Site. A summary of previous versions of the SCM for the Site are listed below:

Prepared By	Date
P&D Environmental, Inc.	2/3/2020

Revisions the most recent previous version of this tabular SCM are indicated using ~~strikethrough~~ to denote deleted text and underline to denote added text.

1.2 Responsible Party Identification

Responsible Party Name	Relationship	Method of Identification
Urban Designs, LLC	[owner/operator/developer]	VRRA

NOR: Notice of Responsibility; VRAA: Voluntary Remedial Action Agreement

Reference #1

no

Site Conceptual Model

The Phoenix

1/20/20

Sec No	Section / Sub-Section Name	Details	References	Data Gap	Method to Address Data Gap
2	**Site Location and Land Use**				
2.1	**Site Location**	(table below)	Figures 1-3	[yes/no]	No Gap; cell not working
2.2	**Surrounding Property Descriptions and Land Use**	(table below)	Figure 4	No	

2 Site Location and Land Use

2.1 Site Location

APN (s)	6-47-1
Physical Address	801 Pine Street
Cross Street(s)	9th Street
Site Size (acres)	4.65

References: Figures 1-3

Data Gap: [yes/no]

Method to Address Data Gap: No Gap; cell not working

2.2 Surrounding Property Descriptions and Land Use

Direction & Distance from Site (feet)	Property and Operations Description	Address	Sensitive Receptors	Use(s)	Tenants
	The subject site is currently a vacant lot with a concrete slab from a fromer building covering the majority of the property, which is located in a mixed residential and commercial area.	801 Pine Street	None Identified	Commercial	N/A
North West adjacent	Skateboard Park	1899 9th Street	None Identified	Skateboard Park	Lower Bobs
North adjacent	9th Street	N/A	None Identified	Roadway	N/A
North 65	Trapeze and Circus School	1822 9th Street	None Identified	Trapeze and Circus School	Trapeze Arts, Inc.
North 65	Residence	903 Pine Street	None Identified	Residential	Unknown
East adjacent	Pine Street	N/A	None Identified	Roadway	N/A
East 60	Residence	886 Pine Street	None Identified	Residential	Unknown
East 60	Residence	882 Pine Street	None Identified	Residential	Unknown
East 60	Vacant Lot	878 Pine Street	None Identified	Vacant Lot	Unknown
East 60	Residence	874 Pine Street	None Identified	Residential	Unknown
East 60	Residence	870 Pine Street	None Identified	Residential	Unknown
East 60	Residence	866 Pine Street	None Identified	Residential	Unknown
East 60	Residence	862 Pine Street	None Identified	Residential	Unknown
East 60	Residence	858 Pine Street	None Identified	Residential	Unknown
East 60	Residence	850 Pine Street	None Identified	Residential	Unknown
East 60	Chase Street	N/A	None Identified	Roadway	N/A
East 60	Vacant Lot	848 Pine Street	None Identified	Vacant Lot	Unknown
East 60	Residence	844 Pine Street	None Identified	Residential	Unknown
East 60	Warehouse	840 Pine Street	None Identified	Warehouse	Unknown
East 60	Vacant Lot	834 Pine Street	None Identified	Vacant Lot	Unknown
East 60	Residence	830 Pine Street	None Identified	Residential	Unknown

References: Figure 4

Data Gap: No

Sec No	Section / Sub-Section Name	Details	References	Data Gap	Method to Address Data Gap

East 60	Vacant Lot	826 Pine Street	None Identified	Vacant Lot	Unknown
East 60	Vacant Lot	822 Pine Street	None Identified	Vacant Lot	Unknown
East 60	Residence	816 Pine Street	None Identified	Residential	Unknown
East 60	Vacant Lot	812 Pine Street	None Identified	Vacant Lot	Unknown
East 60	Vacant Lot	808 Pine Street	None Identified	Vacant Lot	Unknown
East 60	Residence	1796 8th Street	None Identified	Residential	Unknown
South-southeast 90	Circus Theatre	800 Pine Street #10	None Identified	Circus Theatre	Prescott Circus Theatre
South adjacent	Shorey Street	N/A	None Identified	Roadway	N/A
South 60	Church	767 Pine Street	None Identified	Church	St. Luke's Missionary Church

2.3 Description of Site Improvements and Land Use

Data Gap: No

Total Building Footprint	Currently - 0%
Hardscape	95%
Landscape	0
Exposed Earth	5%

Building ID	Footprint (square feet)	No. Floors	Foundation Type	Subgrade Components	Year of Construction / Demolition
Site is currently vacant with no buildings.					

Anthropogenic Preferential Pathways	None known.
Other Improvements	New utilities for redevelopment of site has not been planned yet.

2.4 Site Use History

Known previous historical environmental and geotechnical reports been uploaded to GeoTracker:	Yes

Time Period	Operation Description	Tenant/Operator Name	Building IDs or Location	Associated Primary PCOCs	Associated Environmental Cases
Unknown	Unknown	Terminal Manufacturing	Unk.	N/A	N/A
~1912-1931	Soap Factory	Unknown	Unk.	N/A	N/A
~1902-1912	Bedding/Upholstering	California Bedding & Upholstering Co.	Unk.	N/A	N/A
~1889-1902	Crackers	The Dunn Cracker Company	Unk.	N/A	N/A
~1923-1927	Manufacturer of Fireworks (Wholesale & Jobber)	California Fireworks	Unk.	N/A	N/A
1924-~1960	Manufacturer of Industrial Steel Products	Independent Iron Works	Unk.	N/A	N/A
Unknown	Steel	Vennell Steel	Unk.	N/A	N/A

References: Reference #2

Data Gap: No

Sec No	Section / Sub-Section Name	Details	References	Data Gap	Method to Address Data Gap

Unknown	Plastic Bags	Unknown	Unk.	N/A	N/A
Unknown-1990	Iron Works	Pine Iron Works	Unk.	N/A	N/A
Unknown	Buy/Sell Auto Parts	Ivan's Auto Body	Unk.	N/A	N/A
~1970-≤1993	Buy/Sell Auto Parts	Cypress Auto Parts	Unk.	N/A	N/A
~1970-≤1993	Structural Steel Molds Industrial Construction Castings/Bushings	Phoenix Iron Works	Unk.	N/A	N/A
~1987-≤1993	Constructs Wrought Iron Gates, Stairs, Railings, Furniture, & Accessories	Michael Bondi Metal Design	Unk.	N/A	N/A
1985-≤1993	Auto Parts/Valve Manufacturer	J&A Machine Shop	Unk.	N/A	N/A

2.5 UST Systems Infrastructure

System Component	Material Stored/Conveyed	Size/Quantity	Status	Installation Date	URF Filing Date
UST	Gasoline	2,600-gallon	Removed	Unk.	Unk.
UST	Diesel	1,000-gallon	Removed	Unk.	Unk.
UST	Oil	13,000-gallon	Unk.	≤1902-1911	Unk.
UST	Solvent	250-gallon	Removed	Unk.	Unk.
UST	Solvent	25-gallon	Removed	Unk.	Unk.

References: Reference #3
Figure 5

Data Gap: No

2.6 Other Hazardous Materials or Waste Infrastructure

System Component	Material Stored/Conveyed	Size/Quantity	Status	Installation Date	Removal Date
N/A					

2.7 Subsurface Fill and Excavations

Backfill Purpose	Description	Location	Date of Fill	Certified Clean Documentation on GeoTracker	Date of Certification
2,600-gallon Gasoline UST	The gasoline UST was removed and observed prior to disposal offsite. The tank showed signs of moderate corrosion, with no holes. The gasoline UST was buried between approximately 4 to 5 feet bgs and confirmation samples were collected underneath the east and west ends of the UST at a depth of 8 feet bgs. Approximately 200 cubic yards of soil were excavated from the gasoline UST excavation. No information regarding backfilling was found. Further excavation and characterization will occur prior to site redevelopment.	North-west edge of property	Unk.	No	N/A
1,000-gallon Diesel UST	The diesel UST was removed and observed prior to disposal offsite. The tank showed signs of severe corrosion and a hole at the bottom of it. The diesel UST was buried between approximately 4 to 5 feet bgs and confirmation samples were collected underneath the north and south ends of the UST at a depth of 8 feet bgs. Approximately 800 cubic yards of soil were excavated from the diesel UST excavation. A portion of the excavated soil from the diesel UST excavation was characterized as suitable for reuse as fill. Further excavation and characterization will occur prior to site redevelopment.	Just outside north-western edge of property (in former Cedar Street)	Unk.	No	N/A
250-gallon Solvent UST	The two solvent tanks were accidentally encountered and punctured with a backhoe while performing remedial excavation at the subject site. Tank was punctured by excavator and an estimated 80-gallons of the tank contents leaked into surrounding soil. Work was immediately halted, the tank was covered with 2 to 3 feet of clean soil and the area was isolated and barricaded. Soil and liquid samples identified the tank contents as diluted solvent (toluene, acetone, phenols, and dichlorobenzenes). No depth of burial information provided. Approximately 200 to 300 cubic yards of soil was excavated from the UST pit and soil samples were collected from the bottom of the tank excavation.	South-west area of property	Unk.	No	N/A

References: Reference #3

Data Gap: No

Sec No	Section / Sub-Section Name	Details	References	Data Gap	Method to Address Data Gap

25-gallon Solvent UST	The two solvent tanks were accidentally encountered while performing remedial excavation at the subject site. Tank was punctured by excavator and approximately 1-gallon of the tank contents leaked into surrounding soil. Work was immediately halted, the tank was covered with 2 to 3 feet of clean soil and the area was isolated and barricaded. Soil and liquid samples identified the tank contents as diluted solvent (toluene, acetone, phenols, dichlorobenzenes, and methyl ethyl ketone). No depth of burial information. Approximately 50 cubic yards of soil was excavated from the UST pit and one soil sample was collected from underneath the UST.	South-west area of property	Unk.	No	N/A

2.8 Other Recognized Environmental Conditions (RECs)

REC Type	Description
REC	Elevated lead in shallow soil has been detected during subsurface investigations.
REC	PCE and TCE have been identified in soil gas in specific portions of the site at concentrations exceeding July 2019 RWQCB soil gas screening levels.

2.9 Exposure Controls and Remediation Systems

		References
Engineering controls currently employed at the Site to control otherwise complete exposure pathways:	None	
Institutional controls currently employed at the Site to control otherwise complete exposure pathways or to protect identified engineering controls:	Soil and Groundwater Management Plan	References #4-8
Identify remediation systems and remediation system components at the Site:	None	

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Sec No	Section / Sub-Section Name	Details	References	Data Gap	Method to Address Data Gap
3	**Physical Setting**				
3.1	**Regional Geology and Hydrogeology**	Review of regional geologic maps from U. S. Geological Survey Professional Paper 943, "Flatland Deposits - Their Geology and Engineering Properties and Their Importance to Comprehensive Planning," by E. J. Helley and K. R. Lajoie, 1979, indicates that the subject site is underlain by Pleistocene beach and dune sand deposits (Merrit Sand) (Qps), which is described as loose well-sorted fine to medium sand. Immediately to the west of the western property boundary the subsurface materials are identified as Bay Mud (Qhbm), which is described as unconsolidated water-saturated dark plastic carbonaceous clay and silty clay.	Reference #8	No	
3.2	**Local Geology and Hydrogeology**				
		Subsurface Lithology: The subsurface materials encountered in boreholes S1 through S9, GW3 through GW11, and SG4 through SG20 consisted of silty sand and silty clayey sand to the maximum depths explored of 11.5 feet bgs. Geologic cross sections for the site are provided in P&D's March 23, 2018 Limited Subsurface Investigation Work Plan (document 0772.W2).	References #6-8	No	

Water Bearing Zone ID	Media Type and Classification	Prevailing Hydraulic Gradient Direction and Magnitude	Top & Bottom of Zone [feet bgs]	Min & Max Static Depth to Groundwater in Wells [feet bgs]	Min & Max Depth to First Encountered Groundwater [feet bgs]
Shallow	Groundwater was first encountered in boreholes GW3, GW4, GW5, GW6, GW7, GW8, GW9, GW10, and GW11 at depths of approximately 9.5, 9.5, 9.5, 11.0, 8.5, 9.0, 9.0, 9.0, and 9.0 feet bgs, respectively.	Unk.	Unk.	N/A	N/A

		Data Gap
Groundwater Sources and Sinks:	None	No
Variations in Magnitude and Direction of Lateral and Vertical Groundwater Gradient Within Each Water Bearing Zone:	Unknown	

Sec No	Section / Sub-Section Name
3.3	**Monitoring Well Network Evaluation**

Monitoring Well ID	Screened Interval & Associated Water Bearing Zone ID(s)	Is the well appropriatly screened to evaluate LNAPL?	Is the well appropriatly sceened to evaluate DNAPL?	Is the well appropriatly developed and maintained?	Is the well location known, accessible and survey data is uploaded to GeoTracker?
No groundwater monitoring wells exist					

Identify wells that are routinely excluded from calculations of potentiometric surface or groundwater elevation:	N/A
Identify wells that are excluded from calculation of isoconcentration contours in for each water bearing zone:	N/A
Is the monitoring well network sufficient to delineate the lateral extents of the groundwater plume that exceeds water quality standards?	N/A

Sec No	Section / Sub-Section Name	Details			References	Data Gap	Method to Address Data Gap
		Is the monitoring well network sufficient to delineate the vertical extents of the groundwater plume that exceeds water quality standards?	N/A				

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Sec No	Section / Sub-Section Name	Details	References	Data Gap	Method to Address Data Gap
4	**Release and Source**				

4.1 Release Occurrence

Releases Material:	Petroleum, chlorinated hydrocarbons, lead
Release Date:	unknown
Release Source:	Former USTs for petroleum. The PCE, TCE, chloroform, and lead sources are unknown. The detected cis-1,2-DCE, trans-1,2-DCE and vinyl chloride are interpreted to be TCE decomposition products. The chloroform is interpreted to
Description:	It is likely the petroleum release(s) occurred from the former USTs. The PCE, TCE and lead sources are unknown.

4.2 Constituents of Concern and Data Quality Objectives

		References
An evaluation summary table for potential constituents of concern (PCOCs) has been prepared:	Yes	Table 1
Data quality objectives (DQO) been clearly identified and reported for each PCOC and potentially impacted media:	Yes	References # 4 & 8
Data that does not meet data quality objectives is denoted as indefensible in summary tables and figures:	Yes	
Data that does not meet DQOs is not relied upon for the delineation or risk evaluation portions of this SCM:	Yes	

	PCOCs have been evaluate in the following media:			
Chemicals of Concern that drive risk and/or closure (COCs)	**Soil**	**Groundwater**	**Soil Vapor**	**Surface Water**
TPH-G	Yes	Yes	Yes	N/A
TPH-D	Yes	Yes	No	N/A
TPH-MO	Yes	Yes	No	N/A
TPH-BO	No	Yes	No	N/A
MTBE	Yes	Yes	Yes	N/A
Benzene	Yes	Yes	Yes	N/A
Toluene	Yes	Yes	Yes	N/A
Ethylbenzene	Yes	Yes	Yes	N/A
Xylenes	Yes	Yes	Yes	N/A
Naphthalene	Yes	Yes	Yes	N/A
PCE	Yes	Yes	Yes	N/A
TCE	Yes	Yes	Yes	N/A
cis-1,2-DCE	Yes	Yes	Yes	N/A
trans-1,2-DCE	Yes	Yes	Yes	N/A
Vinyl Chloride	Yes	Yes	Yes	N/A
Chloroform	Yes	Yes	Yes	N/A
Lead	Yes	No	No	N/A

4.3 Distribution and Transport of Contaminants of Concern:Soil

		References	Data Gap	Method to Address Data Gap
Comprehensive Soil Analytical Table(s) and Figure(s) are provided for all COCs:		References # 4 & 8	No data gap	See attached tables.
Soil analytical data used for delineation or risk assessment meets DQOs:	Yes			
Laterally delineated COCs:	TPH-G, TPH-D, TPH-MO, MTBE, Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, Vinyl Chloride, Chloroform, Lead			
Laterally undelineated COCs:	None			
Vertically delineated COCs:	TPH-G, TPH-D, TPH-MO, MTBE, Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, Vinyl Chloride, Chloroform, Lead			
Vertically undelineated COCs:				

Maximum concentration reported in untreated/unremoved soil	**Surface Soil ≤ 5 ft bgs (mg/kg)**	**Sample ID/ Depth (ft bgs)**	**Subsurface Soil 5 - 10 ft bgs (mg/kg)**	**Sample ID / Depth (ft bgs)**
TPH-G	17	PP800/4-1-4/4.0 ft.	27	GAS-E/8.0 ft.
TPH-D	2,400	PP800/4-1-4/4.0 ft.	1,300	DIS-N/8.0 ft.
TPH-MO	2,700	NG-1-1.0/1.0 ft.	ND<1.53	NG-5-5.0
MTBE	All ND			
Benzene	All ND			
Toluene	All ND			
Ethylbenzene	All ND		0.10	GAS-E/8.0 ft.
Xylenes	All ND		0.15	GAS-E/8.0 ft.
Naphthalene	All ND			
PCE	0.015	P-13/0.5 ft.		
TCE	0.026	P-12/0.5 ft.	0.028	P-17/10.2 ft.
cis-1,2-DCE	All ND			
trans-1,2-DCE	All ND			

Sec No	Section / Sub-Section Name	Details	References	Data Gap	Method to Address Data Gap

Vinyl Chloride	All ND			
Chloroform	All ND			
Lead	2,900	NG-13-1.0/1.0 ft.	282	P-20/6.89 ft.

NAPL COCs	Location(s) and weathering	Source	Direct Evidence of NAPL	Indirect Evidence of NAPL	Mobility
	None Identified	N/A	None	None	N/A

Preferential pathways capable of intercepting and conveying mobile NAPL are present:	No
Preferential pathways within the extents of soil contamination that are capable of intercepting and conveying vapor phase COCs are present:	No
Preferential pathways located beneath the extents of soil contamination that are capable of intercepting and conveying leachate are present:	No

Describe any of the preferential pathways identified above:	N/A

4.4 Distribution and Transport of Contaminants of Concern: Groundwater

Details		References	Data Gap
Comprehensive groundwater analytical table(s)/figure(s) are provided for all COCs :	Yes	References # 4 & 8	
Groundwater analytical data used for delineation or risk assessment meets DQOs:	Yes		
Indicate COCs that are sufficiently delineated laterally:	TPH-G, TPH-D, TPH-MO, MTBE, Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, Vinyl Chloride, Chloroform, Lead	No Gap (bad cell)	No
Indicate COCs that are undelineated laterally:			
Indicate COCs that are sufficiently delineated vertically:	TPH-G, TPH-D, TPH-MO, MTBE, Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, Vinyl Chloride, Chloroform, Lead	No Gap (bad cell)	No
Indicate COCs that are undelineated vertically:			
Sufficient groundwater data has been collected to demonstrate that the groundwater plume is stable or decreasing in Size:	[Yes/No]	Yes(bad cell)	No
Hydro- and chemo-graphs have been provided for each monitoring well:	[Yes/No]	No Gap (bad cell)	No
Describe any observed patterns in groundwater concentrations (e.g. seasonal variations, effects of groundwater elevation, natural attenuation):	None		
Describe evidence to indicate that microbial communities capable of metabolizing aqueous phase COCs to a safe endpoint are present:	None		

Maximum concentration reported in stable groundwater for each water bearing zone (i.e., concentrations are in equilibrium and not undergoing rebound)	Water bearing Zone	Sample ID	Sample Date	Concentration (µg/L)
TPH-G	Shallow		All ND	
TPH-D	Shallow	GW11	10/13/2018	76
TPH-MO	Shallow	GW1	8/10/2017	120
TPH-BO	Shallow	GW1	8/10/2017	130
MTBE	Shallow		All ND	
Benzene	Shallow	P-23	6/23/1999	55
Toluene	Shallow	P-23	6/23/1999	5.5
Ethylbenzene	Shallow		All ND	
Xylenes	Shallow		All ND	
Naphthalene	Shallow		All ND	
PCE	Shallow	GW10	10/13/2018	5.1
TCE	Shallow	GW11	10/13/2018	9.3
cis-1,2-DCE	Shallow		All ND	
trans-1,2-DCE	Shallow		All ND	
Vinyl Chloride	Shallow		All ND	
Chloroform	Shallow	P-9	6/21/1999	23

NAPL COCs	Location(s) and weathering	Source	Direct Evidence of NAPL	Indirect Evidence of NAPL	Mobility
	None identified.	N/A	None	None	N/A

Submerged (fully, partially, or seasonally) preferential pathways capable of intercepting and conveying free phase, aqueous phase, or vapor phase COCs are present within the extents of the groundwater plume:	No

Sec No	Section / Sub-Section Name	Details		References	Data Gap	Method to Address Data Gap
		Preferential pathways capable of intercepting and conveying vapor phase COCs are present above the extents of the volatile groundwater contamination plume:	No			
		The lateral distribution of COCs in groundwater concurs with identified historic groundwater gradient direction:	No			
		The vertical distribution of COCs in groundwater concurs with identified historic groundwater gradient direction:	No			

4.5 Distribution and Transport of Contaminants of Concern: Soil Vapor

		References	Data Gap	Method to Address Data Gap
Vapor probe network adequacy:	The soil vapor probe network is adequate to **spatially** and **temporally** evaluate the lateral and vertical extent of COCs in the vapor phase.	References # 4 & 8	No	
Preferential pathways evaluation complete:	The soil vapor probe network is adequate to **spatially** and **temporally** evaluate the migration of COCs along identified preferential pathways.			
Comprehensive soil vapor analytical table(s) and figure(s) are provided for all COCs:	Yes			
Soil Vapor analytical data used for delineation or risk assessment meets DQOs:	Yes			
Indicate COCs that are sufficiently delineated laterally:	TPH-G, MTBE, Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, Vinyl Chloride, Chloroform			
Indicate COCs that are undelineated laterally:				
Indicate COCs that are sufficiently delineated vertically:	TPH-G, MTBE, Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, Vinyl Chloride, Chloroform			
Indicate COCs that are undelineated vertically:				
Soil vapor plumes for COCs are spatially and temporally stable or decreasing in Size:	Unknown			
Chemo-graphs for each soil vapor probe have been provided:	[Yes/No]	No Gap (bad cell)		
Describe any observed patterns in soil vapor concentrations (e.g. seasonal variations, effects of groundwater elevation, natural attenuation):	Unknown			
Describe evidence to indicate that microbial communities capable of metabolizing vapor phase COCs to a safe endpoint are present:	Oxygen was >4 % in all 19 soil gas wells indicating a bioattenuation zone.			
Identify the vapor intrusion scenario that is applicable for the Site:				

3.6 Distribution of Contaminants of Concern: Indoor Air

Comprehensive indoor air analytical table(s) and figure(s) are provided for all COCs:	N/A
Indoor air analytical data used to evaluate risk meets DQO :	No
A hazardous materials survey has been completed for the Site and updated during each indoor air sampling event:	No
Tenants and occupants have been provided with appropriate notification	N/A
Indoor air has been evaluated during HVAC on and HVAC off conditions:	No
COCs in indoor air are temporally stable:	Unknown
Sampling has been conducted to evaluate migration of subsurface contaminants into indoor air via identified preferential pathways:	No

Maximum concentration reported in Indoor Air	**Concentration ($\mu g/m^3$)**	**Sample Date**	**Building ID**	**Sample ID**
	N/A			
	N/A			

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Sec No	Section / Sub-Section Name	Details	References	Data Gap	Method to Address Data Gap
5	**Points of Exposure and Receptors**				

	Distance (feet)	Description/Name
Water utility servicing the Site and Surrounding Properties		East Bay Municipal Utility District/CA0110005
Nearest water supply well	3,345	water supply wells/01S04W34F002M & 01S04W34F004M
Nearest surface water body	3,800	The nearest surface water body is the San Francisco Bay located approximately 3,800-feet northwest of the subject site.
Nearest discharge to surface water body (e.g., storm drain, creek)	55	storm drain grate
Identified sensitive receptors or conditions atypical of the assumptions of standard exposure scenarios:	N/A	None

	Potentially complete exposure pathways	Residential	Occupational	Construction/ Excavation	Ecological Receptors
Surface Soils (i.e. 0-5 feet below ground surface)	**Inhalation**	Complete & Unacceptable	Complete & Unacceptable	Complete & Unacceptable	Incomplete
	Ingestion	Complete & Unacceptable	Complete & Unacceptable	Complete & Unacceptable	Incomplete
	Dermal Contact	Complete & Unacceptable	Complete & Unacceptable	Complete & Unacceptable	Incomplete
Subsurface Soils (i.e. 5-10 feet below ground surface)	**Inhalation**	Controlled	Controlled	Complete & Unacceptable	Incomplete
	Ingestion	Controlled	Controlled	Complete & Acceptable	Incomplete
	Dermal Contact	Controlled	Controlled	Complete & Acceptable	Incomplete
Groundwater	**Inhalation**	Controlled	Controlled	Controlled	Incomplete
	Ingestion	Controlled	Controlled	Controlled	Incomplete
	Dermal Contact	Controlled	Controlled	Controlled	Incomplete
Surface Water	**Inhalation**	Incomplete	Incomplete	Incomplete	Incomplete
	Ingestion	Incomplete	Incomplete	Incomplete	Incomplete
	Dermal Contact	Incomplete	Incomplete	Incomplete	Incomplete
Soil Vapor	**Inhalation**	Complete & Unacceptable	Complete & Acceptable	Complete & Acceptable	Incomplete

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TABLES

FIGURES

ATTACHMENTS

REFERENCES

1 Voluntary Remedial Action Agreement (VRAA) executed 11/22/2017
2 Preliminary Endangerment Assessment Volume I prepared by On-Site Technologies, Inc. (OST) dated November 1993
3 Underground Storage Tank Closure Report prepared by OGISO Environmental dated 12/5/1995
4 Limited Subsurface Investigation Report prepared by P&D Environmental, Inc. (P&D) and dated 09/5/2017 (document 0772.R1)
5 Soil and Groundwater Management Plan prepared by P&D dated 12/1/2017 (document 0794.W1)
6 Limited Subsurface Investigation Work Plan prepared by P&D and dated 03/23/2018 (document 0772.W2)
7 Limited Subsurface Investigation Work Plan Addendum prepared by P&D and dated 05/15/2018 (document 0772.W2A)
8 Limited Subsurface Investigation Report prepared by P&D and dated 02/14/2019 (document 0772.R4)

TABLES

Table 1
Summary of Shallow Soil Sample Lead Analytical Results

Sample ID	Sample Collection Date	Sample Collection Depth (ft bgs)	Total Lead
S1-0.5	6/1/2018	0.5	**1,300**
S1-1.0	6/1/2018	1.0	34
S1-2.0	6/1/2018	2.0	2.6
S1-3.0	6/1/2018	3.0	2.2
S2-0.5	6/1/2018	0.5	70
S2-1.0	6/1/2018	1.0	37
S2-2.0	6/1/2018	2.0	9.1
S2-3.0	6/1/2018	3.0	4.9
S3-0.5	6/1/2018	0.5	**2,400**
S3-1.0	6/1/2018	1.0	14
S3-2.0	6/1/2018	2.0	3.5
S3-3.0	6/1/2018	3.0	2.3
S4-0.5	6/1/2018	0.5	**310**
S4-1.0	6/1/2018	1.0	7.9
S4-2.0	6/1/2018	2.0	2.1
S4-3.0	6/1/2018	3.0	2.0
S5-0.5	6/1/2018	0.5	6.0
S5-1.0	6/1/2018	1.0	2.3
S5-2.0	6/1/2018	2.0	2.4
S5-3.0	6/1/2018	3.0	1.9
S6-0.5	6/1/2018	0.5	75
S6-1.0	6/1/2018	1.0	10
S6-2.0	6/1/2018	2.0	5.5
S6-3.0	6/1/2018	3.0	3.9
S7-0.5	6/1/2018	0.5	70
S7-1.0	6/1/2018	1.0	14

Table 1
Summary of Shallow Soil Sample Lead Analytical Results

Sample ID	Sample Collection Date	Sample Collection Depth (ft bgs)	Total Lead
S7-2.0	6/1/2018	2.0	39
S7-3.0	6/1/2018	3.0	3.3
S8-0.5	6/1/2018	0.5	**410**
S8-1.0	6/1/2018	1.0	2.2
S8-2.0	6/1/2018	2.0	2.4
S8-3.0	6/1/2018	3.0	2.1
S9-0.5	6/1/2018	0.5	64
S9-1.0	6/1/2018	1.0	2.8
S9-2.0	6/1/2018	2.0	2.4
S9-3.0	6/1/2018	3.0	1.9
ESL	Soil Residential ESL		80

NOTES:

ft bgs = feet below ground surface.

ND = Not detected.

ESL = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated July 2019 (Revision 2), from Table S-1 Direct Exposure Human Health Risk Screening Levels.

Results in bold exceed their respective ESL values.

Results and ESL values reported in milligrams per kilogram (mg/kg),

Table 2A
Summary of Borehole Groundwater Sample Analytical Results - Petroleum and VOCs

Sample ID	Sample Collection Date	TPH-G	TPH-D	TPH-MO	TPH-BO	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	PCE	TCE	Other VOCs by EPA Method 8260B
GW1	8/10/2017	ND<50	63, a,b	120, a,b	130, a,b	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND
GW2	8/11/2017	ND<50	ND<38	ND<82	ND<110	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**2.1**	ND<0.50	All ND
GW3	5/31/2018	ND<50	ND<50	ND<250	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND
GW4	5/31/2018	ND<50	ND<50	ND<250	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND
GW5	5/31/2018	ND<50	ND<50	ND<250	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**3.4**	All ND
GW6	5/31/2018	ND<50	ND<50	ND<250	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND
GW7	5/31/2018	ND<50	ND<50	ND<250	ND<250	3.9	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND
GW8	5/31/2018	ND<50	ND<50	ND<250	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND
GW9	5/31/2018	ND<50	ND<50	ND<250	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND
GW10	10/13/2018	ND<50	ND<50	ND<250	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**5.1**	ND<0.50	All ND
GW11	10/13/2018	ND<50	76, a	ND<250	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**9.3**	All ND
ESL^1		100	100	No Value	No Value	5.0	0.42	40	3.5	20	0.64	1.2	Various
ESL^2		No Value	No Value	No Value	No Value	450	0.42	No Value	3.5	No Value	0.64	1.2	Various
ESL^3		No Value	No Value	No Value	No Value	130,000	14	1,200	3,300	390	58	5.2	Various

NOTES:
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
TPH-D = Total Petroleum Hydrocarbons as Diesel.
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil.
TPH-BO = Total Petroleum Hydrocarbons as Bunker Oil.
MTBE = Methyl tertiary-butyl ether.
VOCs = Volatile Organic Compounds.
PCE = Tetrachloroethene.
TCE = Trichloroethene.
cis-1,2-DCE = cis-1,2-Dichloroethene.
1,1-DCA = 1,1-Dichloroethane.
1,1-DCE = 1,1-Dichloroethene.
1,1,1-TCA = 1,1,1-Trichloroethane.
ft bgs = feet below ground surface.
ND = Not detected.
a = Laboratory Note: Diesel range compounds are significant; no recognizable pattern.
ESL^1 = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated July 2019 (Revision 2), from Summary of Groundwater ESLs, GW Tier 1 ESL.
ESL^2 = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated July 2019 (Revision 2), from Table GW-3 – Groundwater Vapor Intrusion Human Health Risk Screening Levels. Residential Land Use. Cancer Risk.
ESL^3 = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated July 2019 (Revision 2), from Table GW-3 – Groundwater Vapor Intrusion Human Health Risk Screening Levels. Residential Land Use. Non-Cancer Hazard.
Results in bold exceed their respective ESL^1 values.
Underlined results exceed their respective ESL^2 values.
Italicized results exceed their respective ESL^3 values.
Results and ESL values, reported in micrograms per Liter (µg/L), unless otherwise indicated.

Table 2B
Summary of Borehole Groundwater Sample Analytical Results - Dissolved Metals

Sample ID	Sample Collection Date	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
GW3	5/31/2018	ND<0.50	ND<0.50	54	ND<0.50	ND<0.25	2.0	1.3	ND<2.0	ND<0.50	ND<0.050	ND<0.50	3.4	ND<0.50	ND<0.19	ND<0.50	ND<0.50	ND<15
GW4	5/31/2018	ND<0.50	ND<0.50	140	ND<0.50	ND<0.25	3.3	6.8	ND<2.0	ND<0.50	ND<0.050	ND<0.50	15	ND<0.50	ND<0.19	ND<0.50	ND<0.50	28
ESL Basis		MCL	MCL	MCL	Aquatic Habitat	Aquatic Habitat	MCL	Aquatic Habitat	Aquatic Habitat	Aquatic Habitat	Aquatic Habitat	Tapwater Non-cancer	Aquatic Habitat	Aquatic Habitat	Aquatic Habitat	MCL	Aquatic Habitat	Aquatic Habitat
ESL	Groundwater MCL	6.0	10	1,000	4.0	5.0	50	6.0	1,000	15	2.0	100	100	50	100	2.0	50	5,000

NOTES:

Sb = Antimony; As = Arsenic; Ba = Barium; Be = Beryllium; Cd = Cadmium; Cr = Chromium; Co = Cobalt; Cu = Copper; Pb = Lead; Hg = Mercury; Mo = Molybdenum;

Ni = Nickel; Se = Selenium; Ag = Silver; Tl = Thallium; V = Vanadium; Zn = Zinc

ft bgs = feet below ground surface.

ND = Not detected.

-- = Not analyzed.

ESL = Environmental Screening Level. Final MCL Priority Screening Level, by San Francisco Bay Regional Water Quality Control Board, updated July 2019 (Revision 2), from Table GW-1: Groundwater Direct Exposure Human Health Risk Screening Levels.

There is no MCL for Vanadium, and the Tapwater Non-cancer Hazard Screeening Level is used.

Results and ESL values reported in micrograms per liter (ug/L), unless otherwise indicated.

Table 3A
Summary of Soil Gas Sample Analytical Results - HVOCs

Sample ID	Land Use	Sample Date	Probe Depth (Feet bgs)	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Trichlorofluoromethane	Dichlorodifluoromethane	Methylene Chloride	1,1,1-TCA	DFA (Tracer Gas)	Percent Shroud (DFA)	Helium (Tracer Gas) (%)	Percent Shroud (Helium)
SG1	Residential	8/14/2017	5.5	ND<6.78	ND<5.37	ND<3.97	NR	ND<2.56	**82.5**	16.3	ND<4.95	ND<3.47	ND<5.46	ND<27,014	0.0	NA	--
SG2	Residential	8/14/2017	5.5	**28.6**	**447**	ND<3.97	NR	ND<2.56	**132**	ND<5.62	ND<4.95	ND<3.47	ND<5.46	ND<27,014	0.0	NA	--
SG2 DUP	Residential	8/14/2017	5.5	**28.2**	**441**	ND<3.97	NR	ND<2.56	**128**	ND<5.62	ND<4.95	ND<3.47	ND<5.46	ND<27,014	0.0	NA	--
SG2	Residential	10/17/2018	6.5	**45**	**570**	ND<4.1	ND<4.1	ND<2.6	NR	NR	NR	NR	NR	NA	--	ND<0.21	0.0
SG3	Residential	8/14/2017	5.5	**42.6**	ND<5.37	ND<3.97	NR	ND<2.56	**14.8**	6.01	ND<4.95	4.27	21.3	ND<27,014	0.0	NA	--
SG4	Residential	9/6/2018	6.5	**4,000**	7.6	ND<4.2	ND<4.2	ND<2.7	ND<5.1	ND<5.9	NR	ND<3.6	ND<5.7	NA	--	ND<0.21	0.0
SG4	Residential	10/17/2018	6.5	**3,000**	ND<17	ND<13	ND<13	ND<8.2	NR	NR	NR	NR	NR	NA	--	ND<0.21	0.0
SG5	Residential	9/6/2018	6.5	7.2	**90**	ND<3.9	ND<3.9	ND<2.5	ND<4.8	ND<5.5	NR	ND<3.4	ND<5.4	NA	--	ND<0.20	0.0
SG5 DUP	Residential	9/6/2018	6.5	7.1	**90**	ND<3.8	ND<3.8	ND<2.5	ND<4.7	ND<5.4	NR	ND<3.4	ND<5.3	NA	--	ND<0.19	0.0
SG5	Residential	10/17/2018	6.5	9.8	**48**	ND<4.1	ND<4.1	ND<2.6	NR	NR	NR	NR	NR	NA	--	ND<0.21	0.0
SG6	Residential	6/4/2018	6.5	**35**	**2,600**	ND<12	ND<12	ND<8.0	NR	NR	NR	NR	NR	NA	--	ND<0.21	0.0
SG6-DUP	Residential	6/4/2018	6.5	**35**	**2,600**	ND<14	ND<14	ND<9.0	NR	NR	NR	NR	NR	NA	--	ND<0.23	0.0
SG6	Residential	10/17/2018	6.5	**29**	**2,100**	ND<8.3	ND<8.3	ND<5.3	NR	NR	NR	NR	NR	NA	--	1.1	5.5
SG6-DUP	Residential	10/17/2018	6.5	**30**	**2,100**	ND<8.1	ND<8.1	ND<5.2	NR	NR	NR	NR	NR	NA	--	1.1	5.5
SG7	Residential	6/4/2018	6.5	**36**	0.64, b	ND<4.5	ND<4.5	ND<2.9	NR	NR	NR	NR	NR	NA	--	ND<0.23	0.0
SG8	Residential	6/5/2018	6.5	4.5, b	ND<6.1	ND<4.5	ND<4.5	ND<2.9	NR	NR	NR	NR	NR	NA	--	ND<0.23	0.0
SG9	Residential	6/5/2018	6.5	**27**	0.23, b	ND<4.2	ND<4.2	ND<2.7	NR	NR	NR	NR	NR	NA	--	ND<0.21	0.0
SG10	Residential	10/18/2018	6.5	**810**	ND<5.0	ND<3.7	ND<3.7	ND<2.4	NR	NR	NR	NR	NR	NA	--	ND<0.19	0.0
SG11	Residential	10/18/2018	6.5	**1,100**	ND<5.6	ND<4.1	ND<4.1	ND<2.6	NR	NR	NR	NR	NR	NA	--	ND<0.21	0.0
SG12	Residential	10/18/2018	6.5	**280**	ND<3.8	ND<4.0	ND<4.0	ND<2.6	NR	NR	NR	NR	NR	NA	--	ND<0.20	0.0
SG13	Residential	10/18/2018	6.5	8.4	ND<4.9	ND<3.6	ND<3.6	ND<2.3	NR	NR	NR	NR	NR	NA	--	ND<0.18	0.0
SG14	Residential	10/18/2018	6.5	ND<6.9	ND<5.5	ND<4.0	ND<4.0	ND<2.6	NR	NR	NR	NR	NR	NA	--	ND<0.20	0.0
SG 15	Residential	12/15/2018	6.5	ND<3.4	ND<2.8	ND<2.0	ND<2.0	ND<1.3	ND<2.4	ND<2.8	ND<2.5	ND<8.8	ND<2.8	NA	--	ND<0.050	0.0
SG 16	Residential	12/15/2018	6.5	ND<3.4	ND<2.8	ND<2.0	ND<2.0	ND<1.3	ND<2.4	ND<2.8	ND<2.5	ND<8.8	ND<2.8	NA	--	ND<0.050	0.0
SG 17	Residential	12/15/2018	6.5	ND<3.4	ND<2.8	ND<2.0	ND<2.0	ND<1.3	**20**	ND<2.8	2.6	ND<8.8	ND<2.8	NA	--	ND<0.050	0.0
SG 18	Residential	12/10/2018	6.5	ND<3.4	ND<2.8	ND<2.0	ND<2.0	ND<1.3	ND<2.4	ND<2.8	ND<2.5	ND<8.8	ND<2.8	NA	--	ND<0.050	0.0
SG 20	Residential	12/15/2018	6.5	ND<3.4	ND<2.8	ND<2.0	ND<2.0	ND<1.3	ND<2.4	ND<2.8	ND<2.5	ND<8.8	ND<2.8	NA	--	ND<0.050	0.0
SG 20 DUP	Residential	12/15/2018	6.5	ND<3.4	ND<2.8	ND<2.0	ND<2.0	ND<1.3	ND<2.4	ND<2.8	ND<2.5	ND<8.8	ND<2.8	NA	--	ND<0.050	0.0
ESL				*15*	*16*	*280*	*2,800*	*0.32*	*4.1*	*No Value*	*No Value*	*34*	*35,000*	*No Value*	*No Value*	*No Value*	*No Value*

Notes:
Feet bgs = Feet Below Ground Surface.
PCE = Tetrachloroethene.
TCE = Trichloroethene.
cis-1,2-DCE = cis-1,2-Dichloroethene.
trans-1,2-DCE = trans-1,2-Dichloroethene.
NA = Not Analyzed.
ND = Not Detected.
NR = Not Reported.
-- = No Value.
b = Laboratory Note: Estimated Value.
ESL = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated July 2019 (Revision 2), Soil Gas Tier 1 ESL from Summary of Vapor ESLs.
BOLDED concentrations exceed their respective ESL value.
Results and ESLs in micrograms per cubic meter (µg/m3), unless otherwise indicated.

Table 3B
Summary of Soil Gas Sample Analytical Results - Non-HVOCs

Sample ID	Land Use	Sample Date	Probe Depth (Feet bgs)	TPH-G	Benzene	Toluene	Ethyl-benzene	m,p-Xylenes	o-Xylenes	MEK	Carbon Disulfide	Hexane	DFA (Tracer Gas)	Percent Shroud (DFA)	Helium (Tracer Gas) (%)	Percent Shroud (Helium)	Carbon Dioxide (%)	Carbon Monoxide (%)	Oxygen (%)	Methane (%)
SG1	Residential	8/14/2017	5.5	NA	ND<3.19	4.11	ND<4.34	ND<8.68	ND<4.34	NR	NR	NR	ND<27,014	0.0	NA	--	NA	NA	NA	NA
SG2	Residential	8/14/2017	5.5	NA	ND<3.19	10.6	ND<4.34	ND<8.68	ND<4.34	NR	NR	NR	ND<27,014	0.0	NA	--	NA	NA	NA	NA
SG2 DUP	Residential	8/14/2017	5.5	NA	ND<3.19	10.4	ND<4.34	ND<8.68	ND<4.34	NR	NR	NR	ND<27,014	0.0	NA	--	NA	NA	NA	NA
SG2	Residential	10/17/2018	6.5	NA	ND<3.3	ND<3.9	ND<4.5	ND<4.5	ND<4.5	NR	NR	NR	NA	--	ND<0.21	0.0	1.9	ND<0.21	16	ND<0.21
SG3	Residential	8/14/2017	5.5	NA	ND<3.19	ND<3.77	ND<4.34	ND<8.68	ND<4.34	NR	NR	NR	ND<27,014	0.0	NA	--	NA	NA	NA	NA
SG4	Residential	9/6/2018	5.5	NA	ND<3.4	ND<4.0	ND<4.6	ND<4.6	ND<4.6	17	ND<3.3	ND<3.7	NA	--	ND<0.21	0.0	3.5	NA	15	NA
SG4	Residential	10/17/2018	5.5	NA	ND<10	ND<12	ND<14	ND<14	ND<14	NR	NR	NR	NA	--	ND<0.21	0.0	2.8	ND<0.21	15	ND<0.21
SG5	Residential	9/6/2018	5.5	NA	ND<3.1	ND<3.7	ND<4.3	ND<4.3	ND<4.3	ND<9.7	ND<3.1	ND<3.5	NA	--	ND<0.20	0.0	1.2	NA	17	NA
SG5 DUP	Residential	9/6/2018	5.5	NA	ND<3.1	ND<3.7	ND<4.2	ND<4.2	ND<4.2	ND<9.5	ND<3.0	ND<3.4	NA	--	ND<0.19	0.0	1.2	NA	17	NA
SG5	Residential	10/17/2018	5.5	NA	ND<3.3	ND<3.9	ND<4.5	ND<4.5	ND<4.5	NR	NR	NR	NA	--	ND<0.21	0.0	0.98	ND<0.21	17	ND<0.21
SG6	Residential	6/4/2018	5.5	580	0.64, b	3.2, b	1.2, b	4.9, b	2.9, b	NR	NR	NR	NA	--	ND<0.21	0.0	7.5	NA	9.9	ND<0.21
SG6-DUP	Residential	6/4/2018	5.5	770	0.54, b	2.3, b	1.1, b	5.0, b	2.9, b	NR	NR	NR	NA	--	ND<0.23	0.0	7.4	NA	9.7	ND<0.23
SG6	Residential	10/17/2018	5.5	NA	ND<6.7	ND<7.9	ND<9.1	ND<9.1	ND<9.1	NR	NR	NR	NA	--	1.1	5.5	8.1	ND<0.21	11	ND<0.21
SG6-DUP	Residential	10/17/2018	5.5	NA	ND<6.5	ND<7.7	ND<8.9	ND<8.9	ND<8.9	NR	NR	NR	NA	--	1.1	5.5	8.1	ND<0.20	11	ND<0.20
SG7	Residential	6/4/2018	5.5	110, b	0.16, b	0.42, b	ND<5.0	0.47, b	0.45, b	NR	NR	NR	NA	--	ND<0.23	0.0	2.9	NA	14	ND<0.23
SG8	Residential	6/5/2018	5.5	200, b	0.26, b	1.4, b	0.22, b	0.98, b	0.33, b	NR	NR	NR	NA	--	ND<0.23	0.0	3.3	NA	14	ND<0.23
SG9	Residential	6/5/2018	5.5	ND<440	ND<3.4	0.45, b	0.20, b	0.34, b	0.15, b	NR	NR	NR	NA	--	ND<0.21	0.0	2.3	NA	15	ND<0.21
SG10	Residential	10/18/2018	5.5	NA	ND<3.0	ND<3.5	ND<4.1	6.4	4.9	NR	NR	NR	NA	--	ND<0.19	0.0	2.2	ND<0.19	16	ND<0.19
SG11	Residential	10/18/2018	5.5	NA	ND<3.3.	ND<3.9	ND<4.5	ND<4.5	ND<4.5	NR	NR	NR	NA	--	ND<0.21	0.0	2.6	ND<0.21	15	ND<0.21
SG12	Residential	10/18/2018	5.5	NA	ND<3.3	ND<3.8	ND<4.4	ND<4.4	ND<4.4	NR	NR	NR	NA	--	ND<0.20	0.0	2.4	ND<0.20	15	ND<0.20
SG13	Residential	10/18/2018	5.5	NA	ND<2.9	ND<3.4	ND<3.9	ND<3.9	ND<3.9	NR	NR	NR	NA	--	ND<0.18	0.0	1.7	ND<0.18	16	ND<0.18
SG14	Residential	10/18/2018	5.5	NA	**6.9**	ND<3.8	ND<4.4	ND<4.4	ND<4.4	NR	NR	NR	NA	--	ND<0.20	0.0	2.8	ND<0.20	10	0.82
SG 15	Residential	12/15/2018	5.5	NA	ND<1.6	ND<1.9	ND<2.2	ND<4.4	ND<2.2	ND<75	4.2	ND<18	NA	--	ND<0.050	0.0	5.1	NA	15	NA
SG 16	Residential	12/15/2018	5.5	NA	ND<1.6	ND<1.9	ND<2.2	ND<4.4	ND<2.2	ND<75	ND<1.6	ND<18	NA	--	ND<0.050	0.0	0.82	NA	18	NA
SG 17	Residential	12/15/2018	5.5	NA	ND<1.6	ND<1.9	ND<2.2	ND<4.4	ND<2.2	ND<75	ND<1.6	60	NA	--	ND<0.050	0.0	0.99	NA	17	NA
SG 18	Residential	12/10/2018	5.5	NA	ND<1.6	ND<1.9	ND<2.2	ND<4.4	ND<2.2	ND<75	ND<1.6	ND<18	NA	--	ND<0.050	0.0	8.3	NA	14	NA
SG 20	Residential	12/15/2018	5.5	NA	ND<1.6	ND<1.9	ND<2.2	ND<4.4	ND<2.2	ND<75	4.2	ND<18	NA	--	ND<0.050	0.0	2.6	NA	18	NA
SG 20 DUP	Residential	12/15/2018	5.5	NA	ND<1.6	ND<1.9	ND<2.2	ND<4.4	ND<2.2	ND<75	4.2	ND<18	NA	--	ND<0.050	0.0	2.5	NA	18	NA
ESL				*3,300*	*3.2*	*10,000*	*37*	*Combined = 3,500*		*170,000*	*No Value*	*No Value*	*No Value*	*No Value*	*No Value*	*No Value*	*No Value*	*No Value*	*No Value*	*No Value*

<u>Notes:</u>
Feet bgs = Feet Below Ground Surface.
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
MEK = Methyl Ethyl Ketone (2-Butanone).
NA = Not Analyzed.
ND = Not Detected.
NR = Not Reported.
-- = No Value.
b = Laboratory Note: Estimated Value.
ESL= Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated July 2019 (Revision 2), Soil Gas Tier 1 ESL from Summary of Vapor ESLs
BOLDED concentrations exceed their respective ESL value.
Results and ESLs in micrograms per cubic meter (µg/m3), unless otherwise indicated.

FIGURES

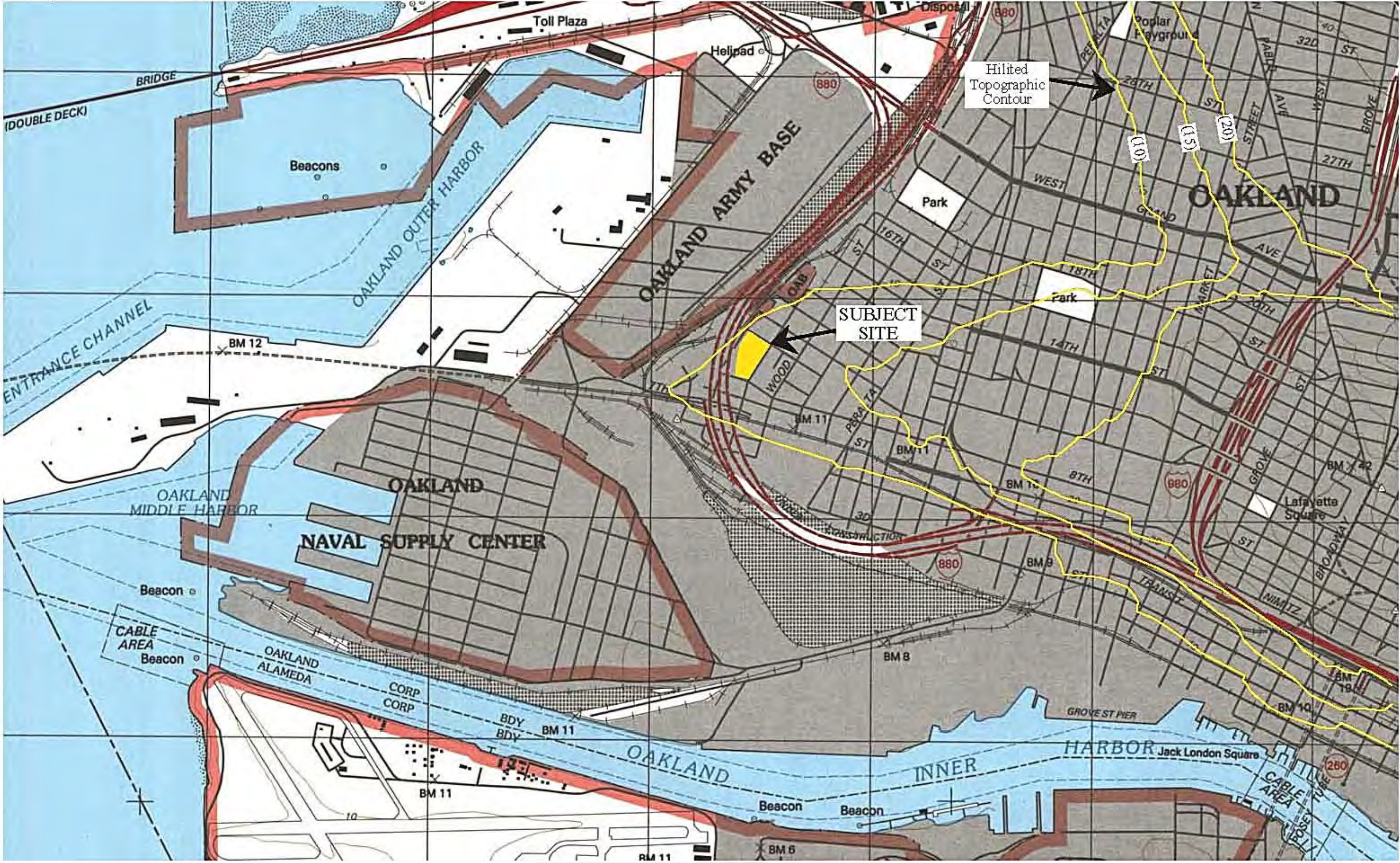


Figure 1
Site Location Map
The Phoenix
801 Pine Street
Oakland, California

Base Map from:
U.S. Geological Survey 7.5-Minute Quadrangle,
Oakland West, California, Map edited 1993

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 1,000 2,000
Approximate Scale in Feet

N

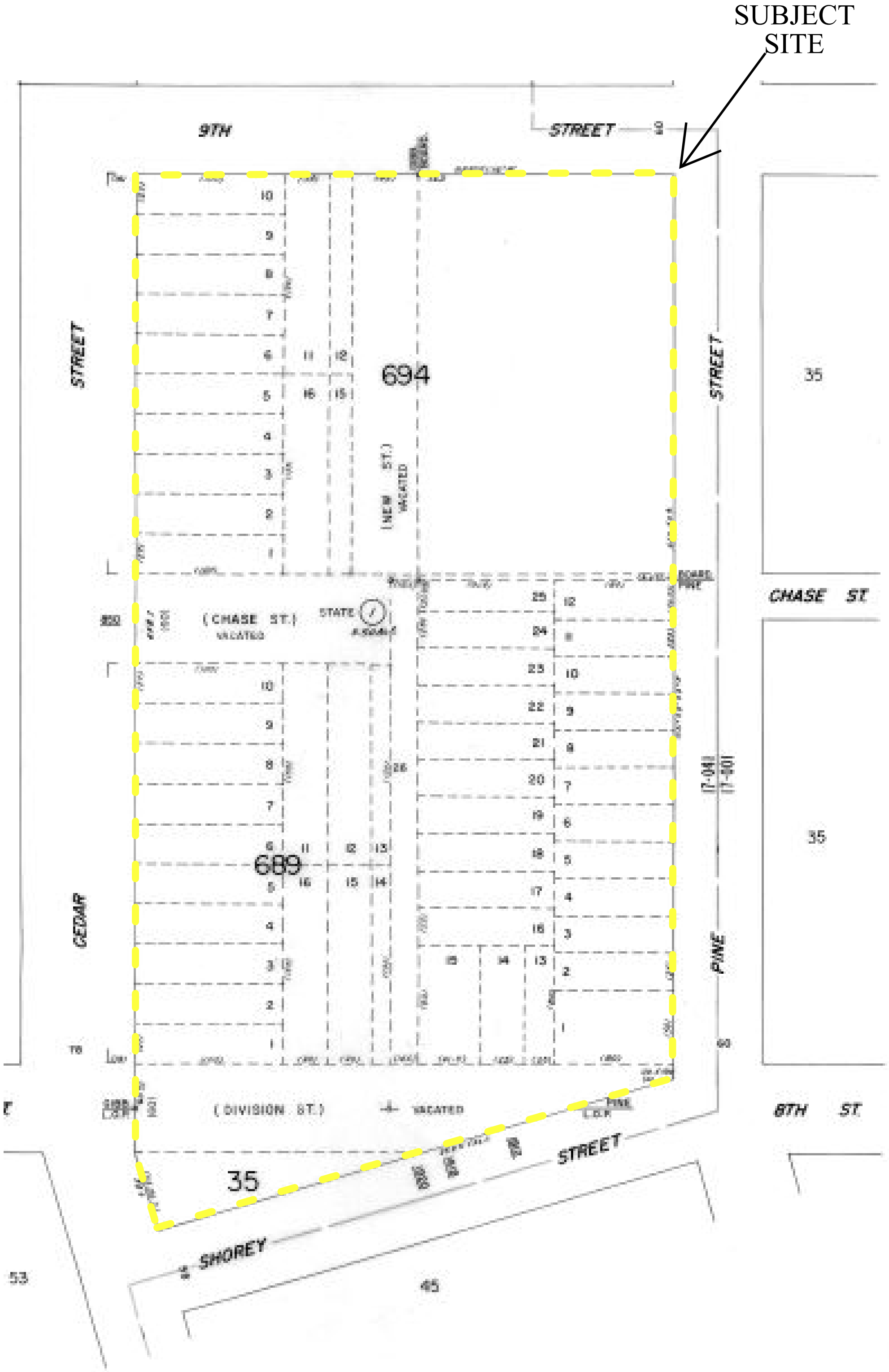


Figure 2
Assessor's Parcel Map
The Phoenix
801 Pine Street
Oakland, California

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

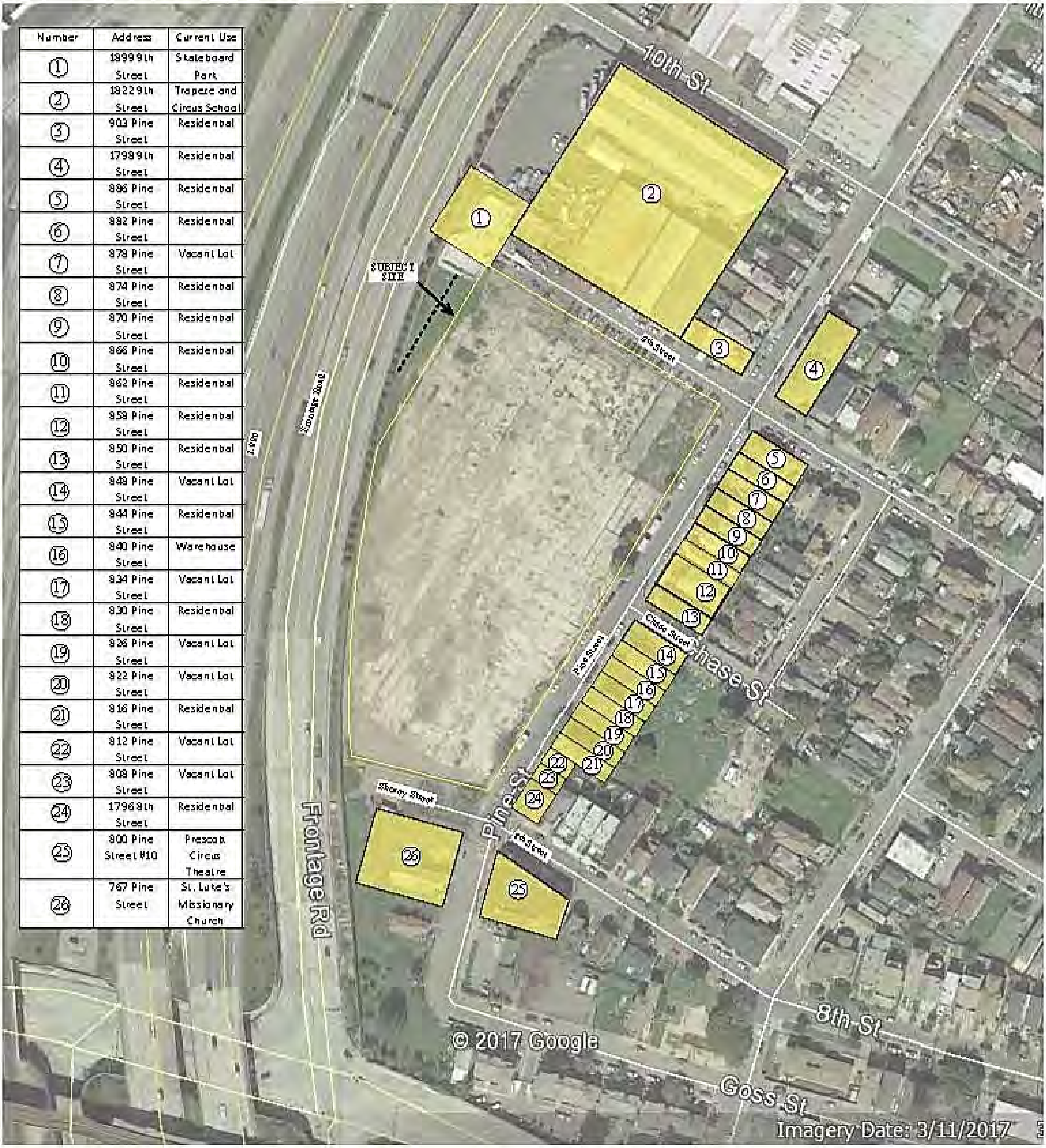
No Scale

N

Figure 3
Site Aerial Photograph Showing Proposed Parcel Boundaries
The Phoenix
801 Pine Street
Oakland, California

Basemap from:
Google Earth October 2009

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610



Number	Address	Current Use
①	1999 9th Street	Skateboard Park
②	1822 9th Street	Trapeze and Circus School
③	903 Pine Street	Residential
④	1799 9th Street	Residential
⑤	886 Pine Street	Residential
⑥	882 Pine Street	Residential
⑦	878 Pine Street	Vacant Lot
⑧	874 Pine Street	Residential
⑨	870 Pine Street	Residential
⑩	866 Pine Street	Residential
⑪	862 Pine Street	Residential
⑫	858 Pine Street	Residential
⑬	850 Pine Street	Residential
⑭	848 Pine Street	Vacant Lot
⑮	844 Pine Street	Residential
⑯	840 Pine Street	Warehouse
⑰	834 Pine Street	Vacant Lot
⑱	830 Pine Street	Residential
⑲	826 Pine Street	Vacant Lot
⑳	822 Pine Street	Vacant Lot
㉑	816 Pine Street	Residential
㉒	812 Pine Street	Vacant Lot
㉓	808 Pine Street	Vacant Lot
㉔	1796 8th Street	Residential
㉕	800 Pine Street #10	Prescott Circus Theatre
㉖	767 Pine Street	St. Luke's Missionary Church

Figure 4
Site Vicinity Aerial Photograph Showing Surrounding Properties
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

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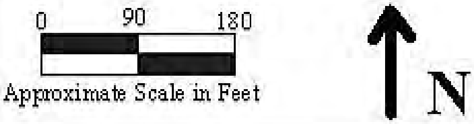


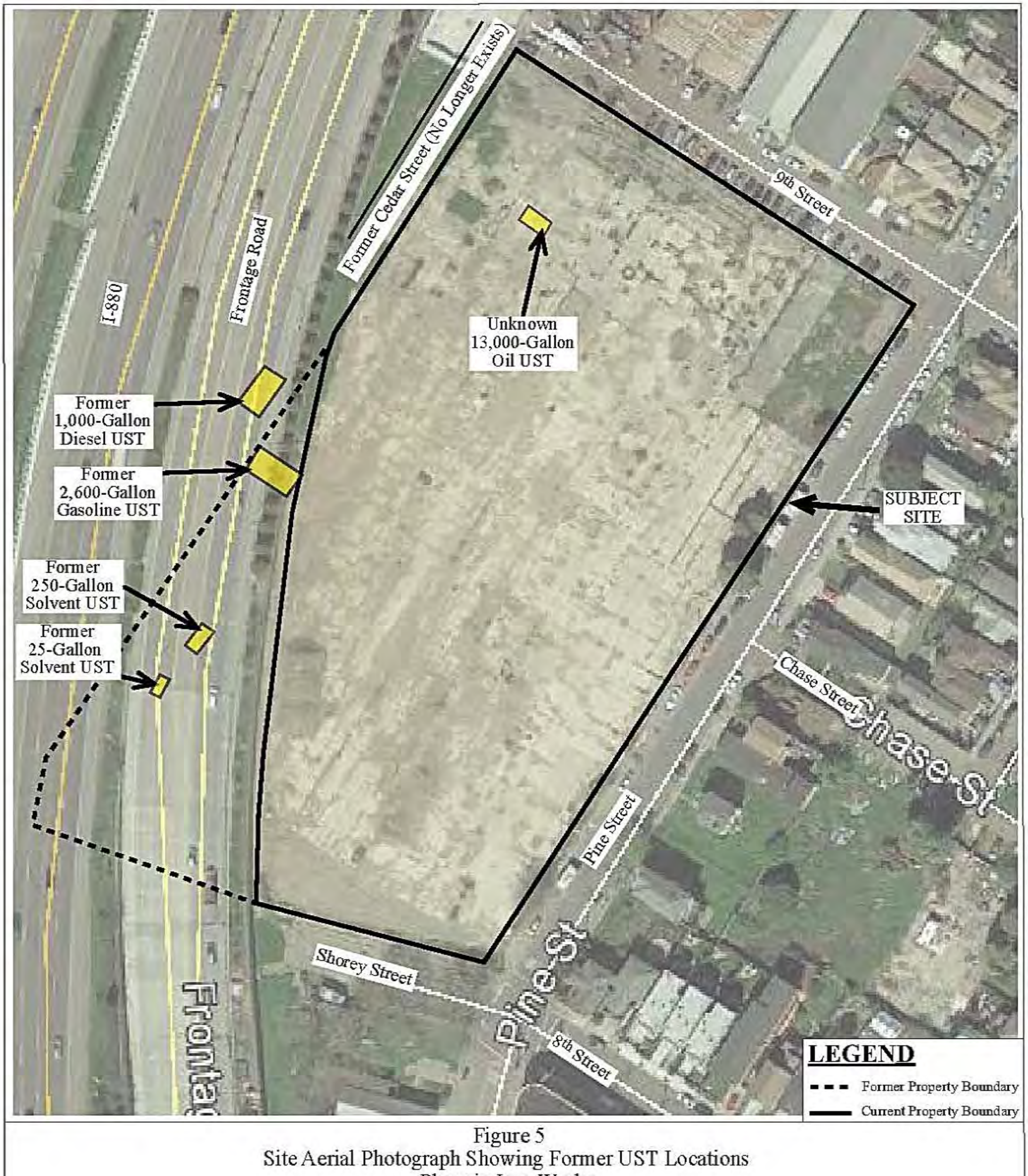


Figure 5
Site Aerial Photograph Showing Former UST Locations
Phoenix Iron Works
801 Pine Street
Oakland, California

Basemap from: Northgate Environmental Management, Inc., Phase II Investigation Report, November 9, 2011, and Google Earth March 2017

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 50 100
Approximate Scale in Feet

N

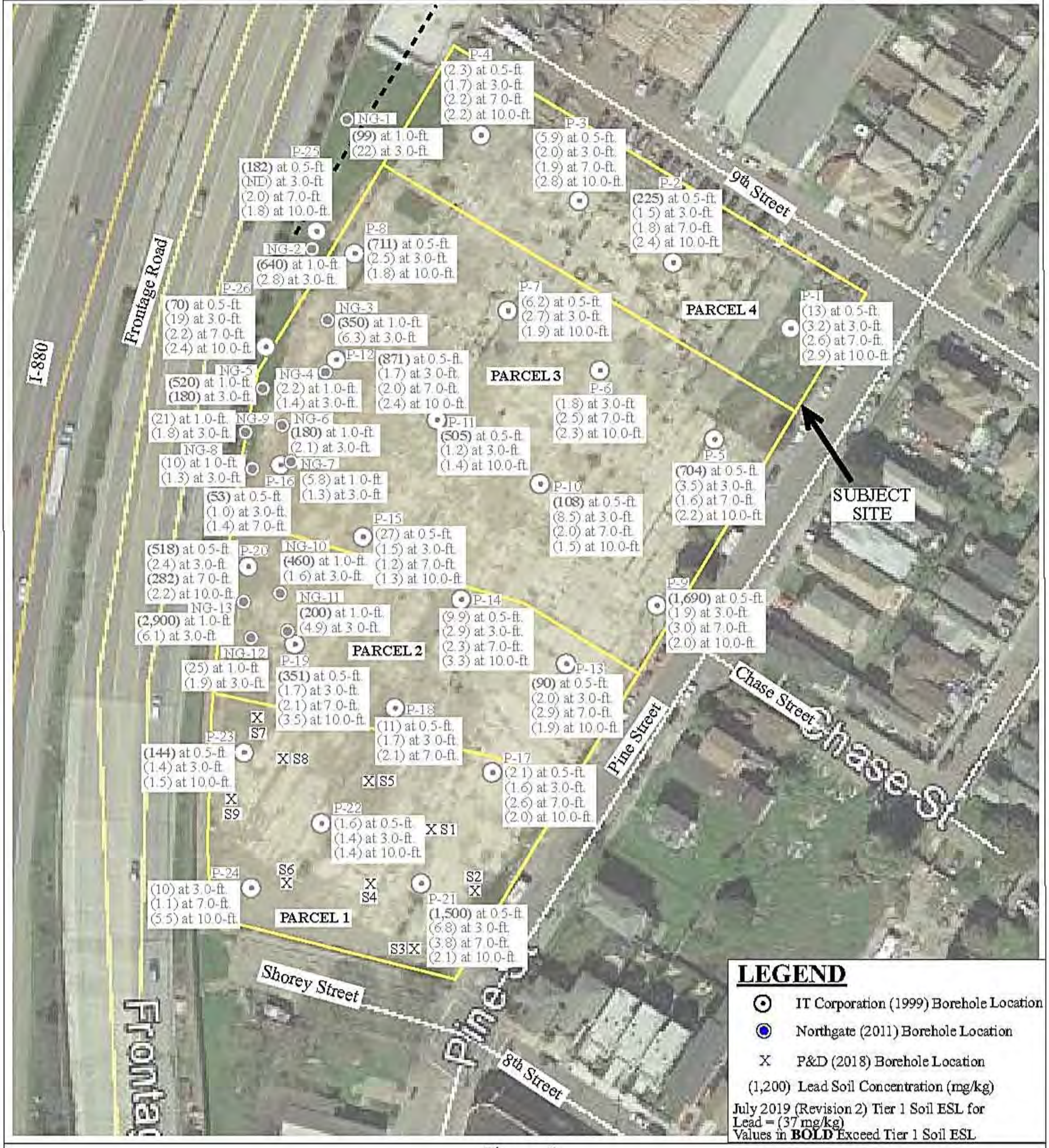


Figure 6
Site Aerial Photograph Showing Lead Concentrations In Historical Soil Samples
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 50 100
Approximate Scale in Feet

N

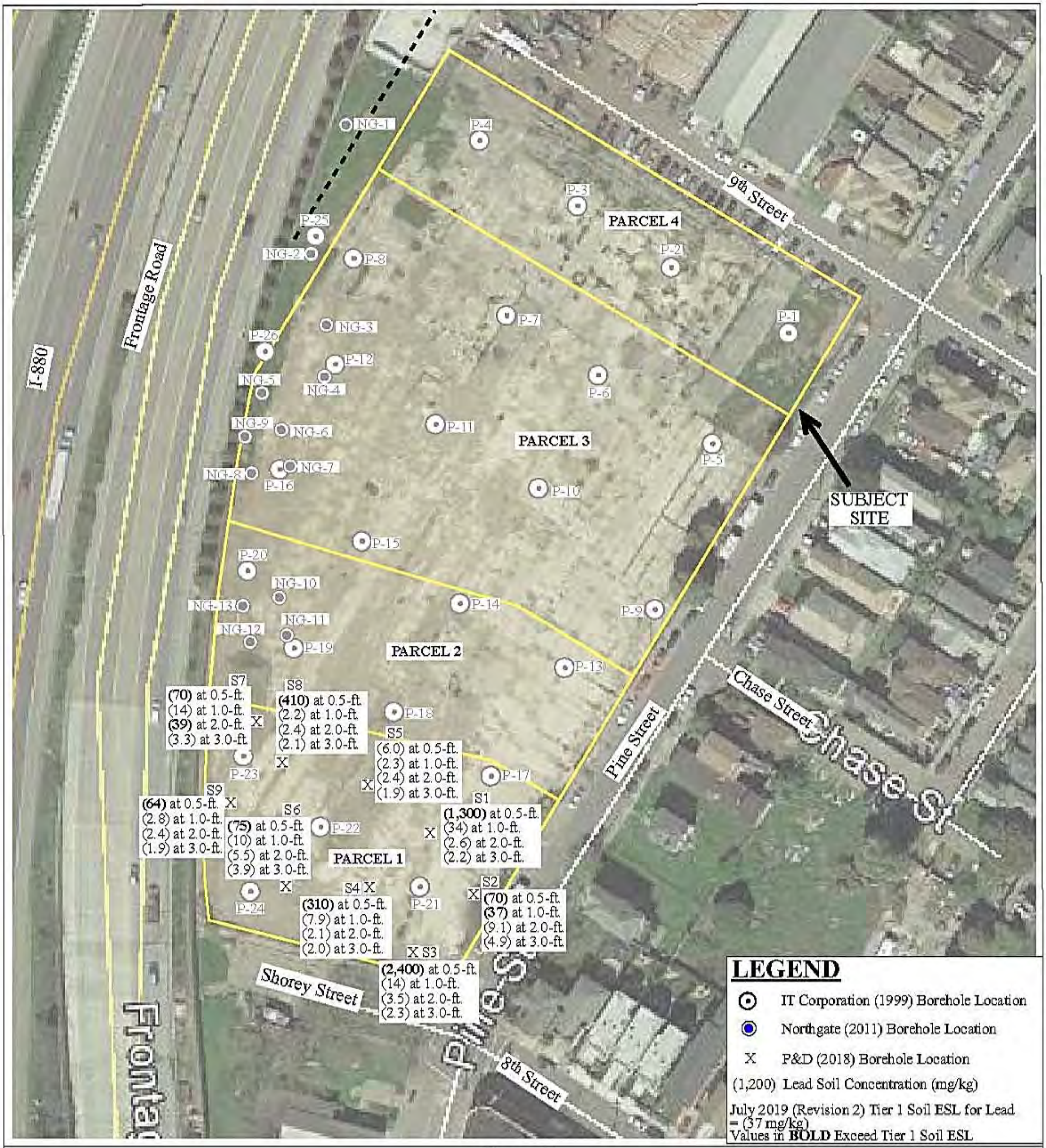


Figure 7
Site Aerial Photograph Showing Lead Concentrations In Most Recent Investigation Soil Samples
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 50 100
Approximate Scale in Feet

N

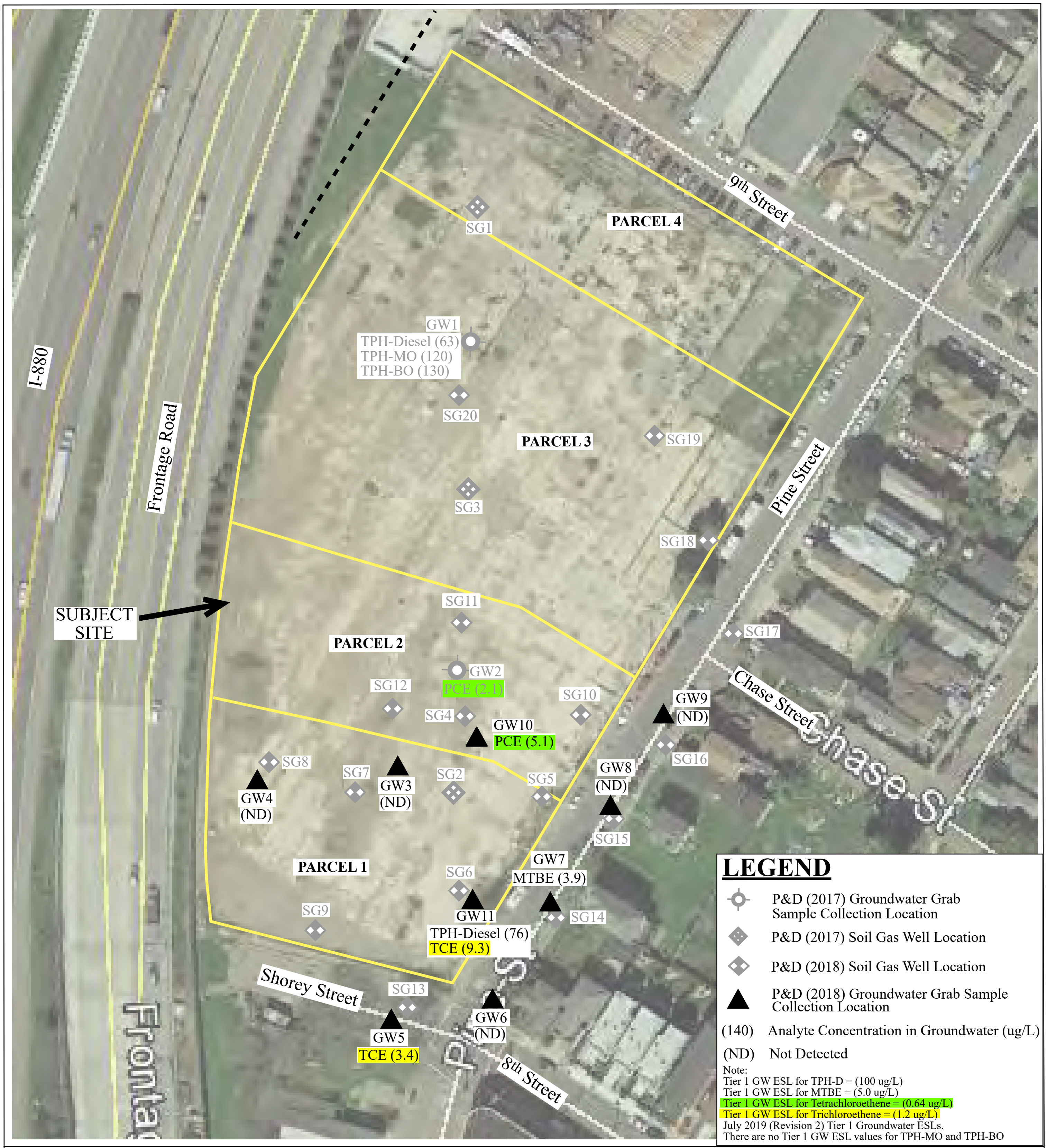


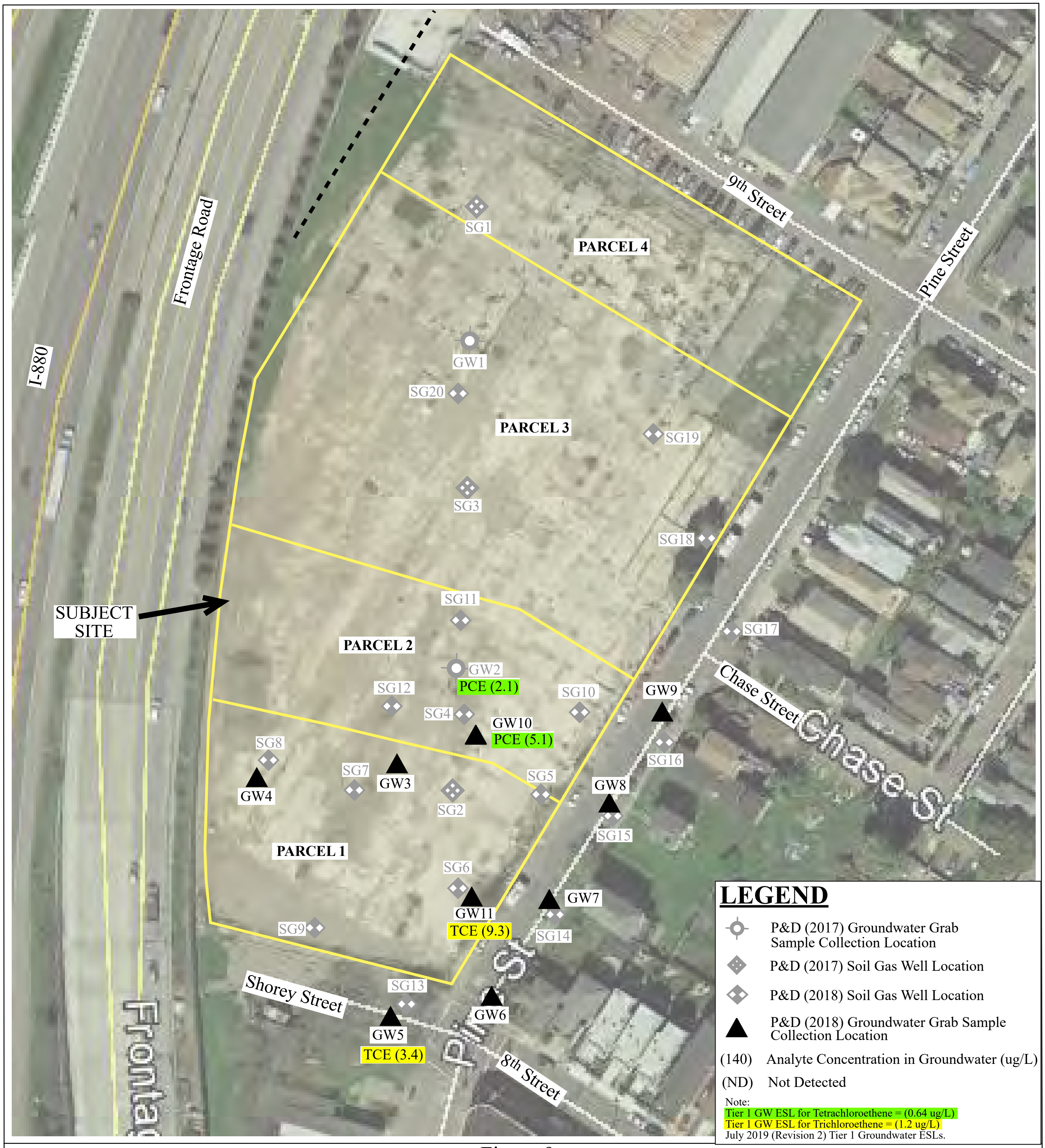
Figure 8
Site Aerial Photograph Showing All Detected Petroleum and VOC Concentrations In Groundwater
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 50 100
Approximate Scale in Feet

N



Note:
Tier 1 GW ESL for Tetrachloroethene = (0.64 ug/L)
Tier 1 GW ESL for Trichloroethene = (1.2 ug/L)
July 2019 (Revision 2) Tier 1 Groundwater ESLs.

Figure 9
Site Aerial Photograph Showing All Detected VOC Concentrations
In Groundwater Exceeding Tier 1 Screening Levels
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

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55 Santa Clara Ave., Suite 240
Oakland, CA 94610

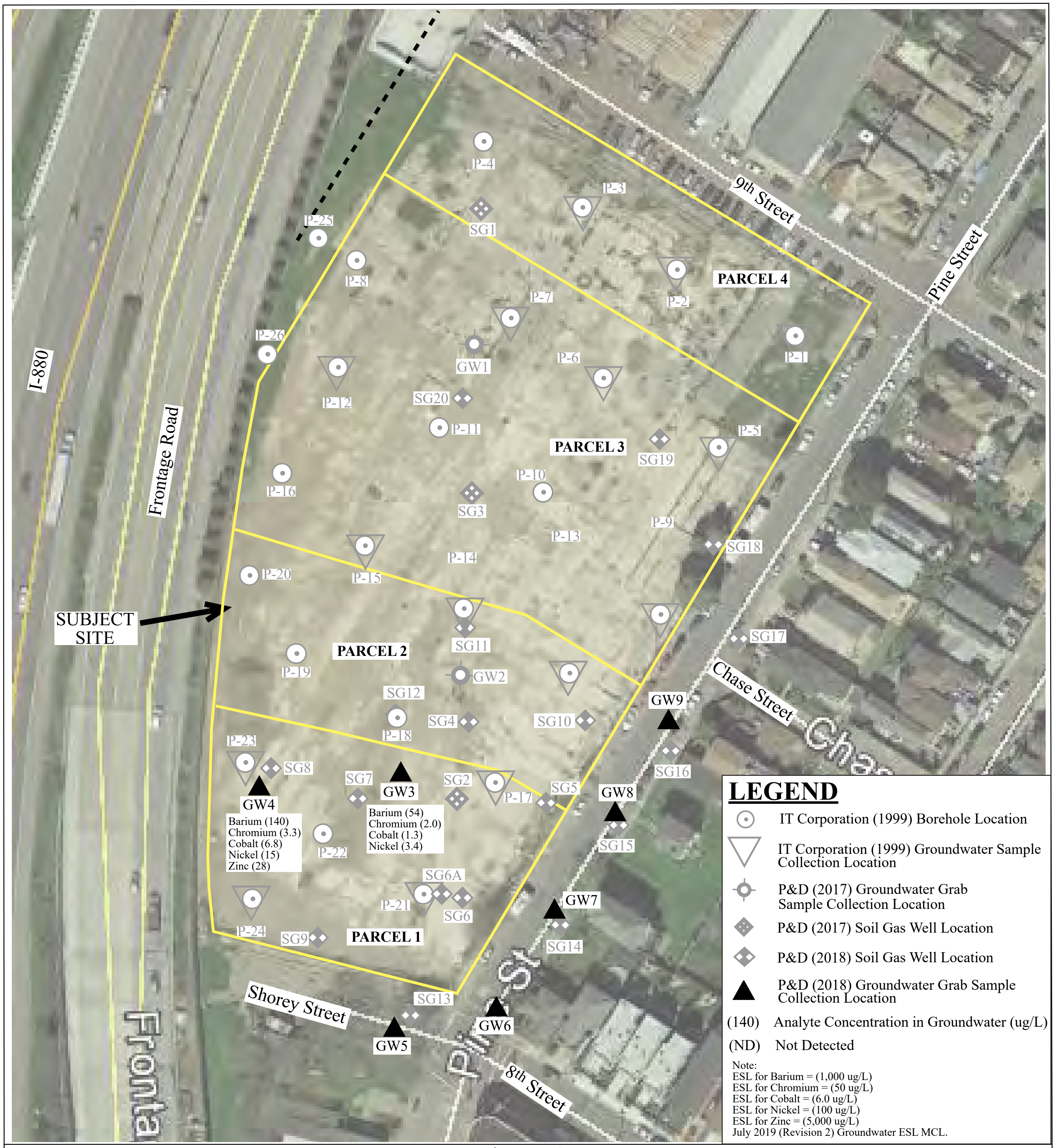

Figure 10
Site Aerial Photograph Showing All Detected Metals Concentrations In Groundwater
During Most Recent Investigation
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

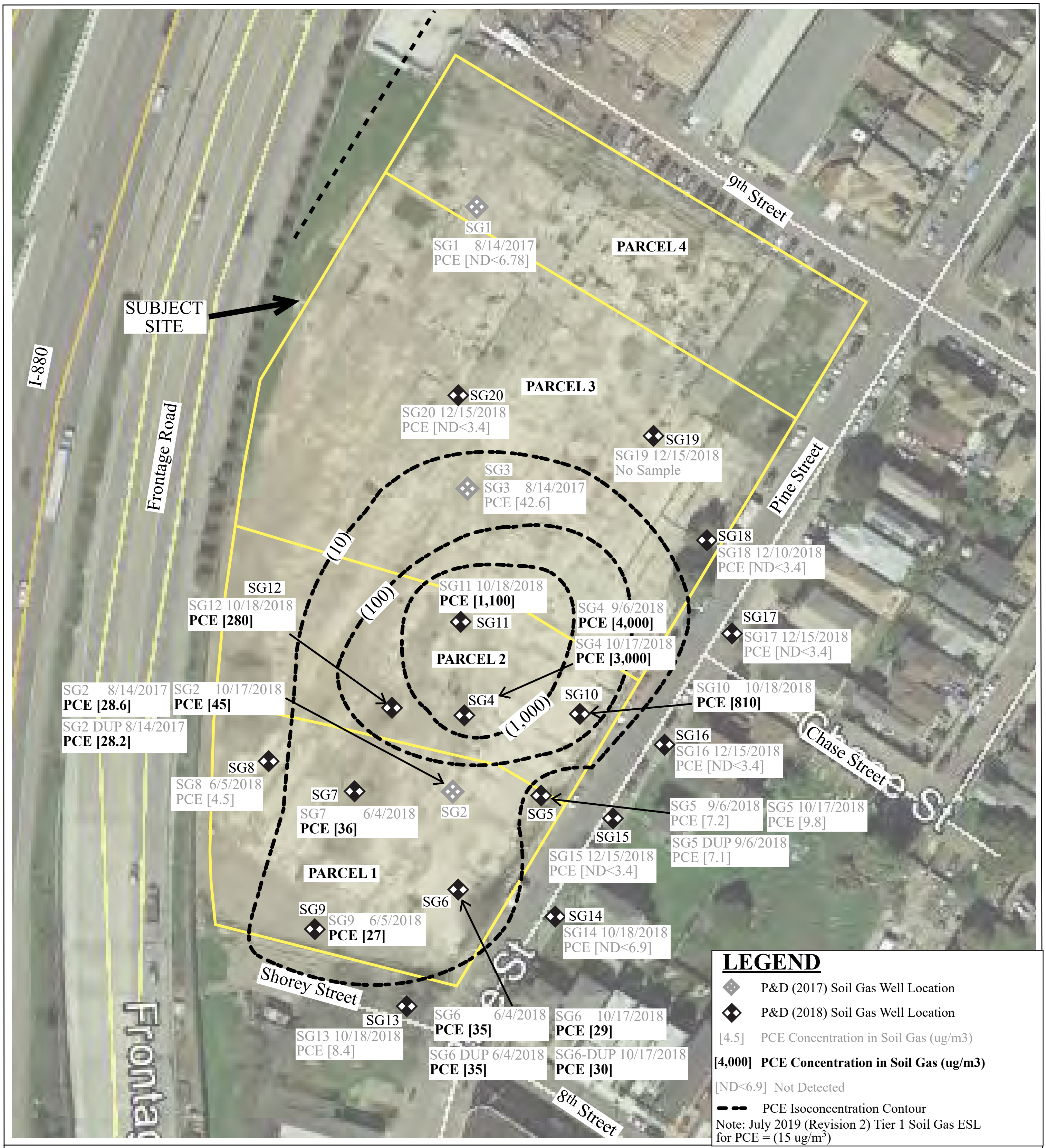

Figure 11
Site Aerial Photograph Showing PCE in Soil Gas
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

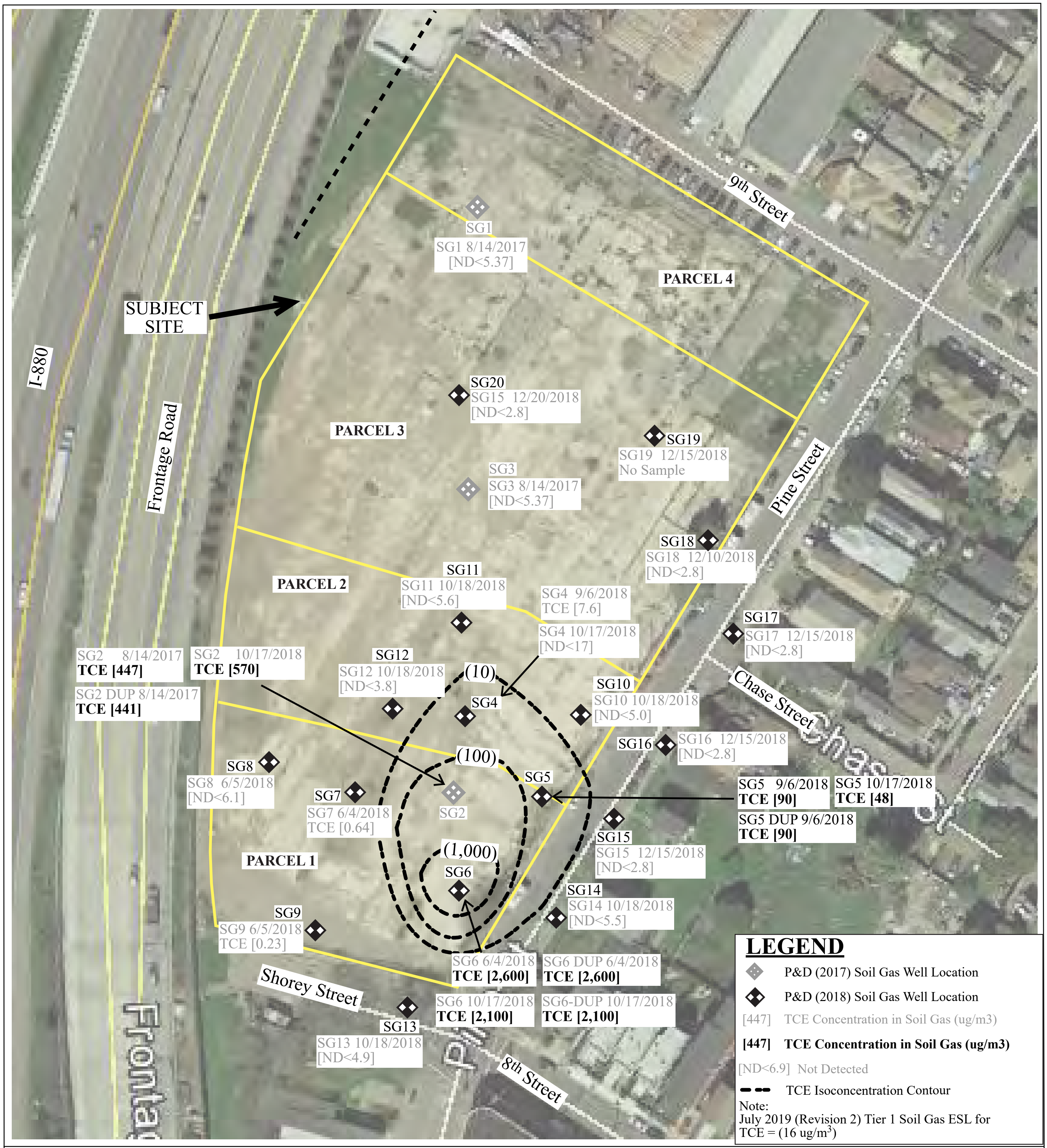

Figure 12
Site Aerial Photograph Showing TCE in Soil Gas
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 50 100
Approximate Scale in Feet

N

APPENDIX A

Professional Seals

P&D ENVIRONMENTAL, INC.
55 Santa Clara Avenue, Suite 240
Oakland, CA 94610
(510) 658-6916

February 3, 2020
Letter 0772.L6

Mr. Jamie Hiteshew
Urban Designs, LLC
1201 Pine Street, Suite 151
Oakland, CA 94607

SUBJECT: SITE CONCEPTUAL MODEL PREPARATION CERTIFICATION
RO Number 0003269
The Phoenix
801 Pine Street
Oakland, CA

Dear Mr. Hiteshew:

The attached tabular Site Conceptual Model has been prepared using a template prepared by the Alameda County Department of Environmental Health, and was prepared under the oversight of the appropriately licensed California professional Paul H. King of P&D Environmental, Inc.

If you have any questions, please do not hesitate to contact me at (510) 658-6916.

Sincerely,

P&D Environmental, Inc.

Paul H. King

PAUL H. KING
No. 5901

Paul H. King
Professional Geologist #5901
Expires: 12/31/21

PHK/sjc
0772.L6

APPENDIX C

Vapor Barrier Specifications

Land Science®
a division of REGENESIS®

Geo-Seal® Vapor Intrusion Barrier
02 56 19.13
Fluid-Applied Gas Barrier
Version 1.30

Note: If membrane will be subjected to hydrostatic pressure, please contact Land Science Technologies™ for proper recommendations.

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the contract, including general and supplementary conditions and Division 1 specification sections, apply to this section.

1.2 SUMMARY

A. This section includes the following:

1. Substrate preparation:
2. Vapor intrusion barrier components:
3. Seam sealer and accessories.

B. Related Sections: The following sections contain requirements that relate to this section:

1. Division 2 Section "Earthwork", "Pipe Materials", "Sub-drainage Systems", "Gas Collection Systems":
2. Division 3 Section "Cast-in-Place Concrete" for concrete placement, curing, and finishing:
3. Division 5 Section "Expansion Joint Cover Assemblies", for expansion-joint covers assemblies and installation.

1.3 PERFORMANCE REQUIREMENTS

A. General: Provide a vapor intrusion barrier system that prevents the passage of methane gas and/or volatile organic compound vapors and complies with physical requirements as demonstrated by testing performed by an independent testing agency of manufacturer's current vapor intrusion barrier formulations and system design.

1.4 SUBMITTALS

A. Submit product data for each type of vapor intrusion barrier, including manufacturer's printed instructions for evaluating and preparing the substrate, technical data, and tested physical and performance properties.

B. Project Data - Submit shop drawings showing extent of vapor intrusion barrier, including details for overlaps, flashing, penetrations, and other termination conditions.

C. Samples – Submit representative samples of the following for approval:

1. Vapor intrusion barrier components.

D. Certified Installer Certificates – Submit certificates signed by manufacturer certifying that installers comply with requirements under the "Quality Assurance" article.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: Engage an experienced installer who has been trained and certified in writing by the membrane manufacturer, Land Science Technologies™ for the installation of the Geo-Seal® System.

B. Manufacturer Qualification: Obtain vapor intrusion barrier materials and system components from a single manufacturer source Land Science Technologies.

C. Field Sample: Apply vapor intrusion barrier system field sample to 100 ft^2 (9.3 m^2) of field area demonstrate application, detailing, thickness, texture, and standard of workmanship.

1. Notify engineer or special inspector one week in advance of the dates and times when field sample will be prepared.

2. If engineer or special inspector determines that field sample, does not meet requirements, reapply field sample until field sample is approved.

3. Retain and maintain approved field sample during construction in an undisturbed condition as a standard for judging the completed methane and vapor intrusion barrier. An undamaged field sample may become part of the completed work.

D. Pre-installation Conference: A pre-installation conference shall be held prior to application of the vapor intrusion barrier system to assure proper site and installation conditions, to include contractor, applicator, architect/engineer, other trades influenced by vapor intrusion barrier installation and special inspector (if any).

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to project site as specified by manufacturer labeled with manufacturer's name, product brand name and type, date of manufacture, shelf life, and directions for storing and mixing with other components.

B. Store materials as specified by the manufacturer in a clean, dry, protected location and within the temperature range required by manufacturer. Protect stored materials from direct sunlight. If freezing temperatures are expected, necessary steps should be taken to prevent the freezing of the Geo-Seal CORE and Geo-Seal CORE Detail components.

C. Remove and replace material that cannot be applied within its stated shelf life.

1.7 PROJECT CONDITIONS

A. Protect all adjacent areas not to be installed on. Where necessary, apply masking to prevent staining of surfaces to remain exposed wherever membrane abuts to other finish surfaces.

B. Perform work only when existing and forecasted weather conditions are within manufacturer's recommendations for the material and application method used.

C. Minimum clearance of 24 inches is required for application of product. For areas with less than 24-inch clearance, the membrane may be applied by hand using Geo-Seal CORE Detail.

D. Ambient temperature shall be within manufacturer's specifications. (Greater than +45ºF/+7ºC.) Consult manufacturer for the proper requirements when desiring to apply Geo-Seal CORE below 45ºF/7ºC.

E. All plumbing, electrical, mechanical and structural items to be under or passing through the vapor intrusion barrier system shall be positively secured in their proper positions and appropriately protected prior to membrane application.

F. Vapor intrusion barrier shall be installed before placement of fill material and reinforcing steel. When not possible, all exposed reinforcing steel shall be masked by general contractor prior to membrane application.

G. Stakes used to secure the concrete forms **shall not penetrate** the vapor intrusion barrier system after it has been installed. If stakes need to puncture the vapor intrusion barrier system after it has been installed, the necessary repairs need to be made by a certified Geo-Seal applicator. To confirm the staking procedure is in agreement with the manufactures recommendation, contact Land Science Technologies.

1.8 WARRANTY

A. General Warranty: The special warranty specified in this article shall not deprive the owner of other rights the owner may have under other provisions of the contract documents, and shall be in addition to, and run concurrent with, other warranties made by the contractor under requirements of the contract documents.

B. Special Warranty: Submit a written warranty signed by vapor intrusion barrier manufacturer agreeing to repair or replace vapor intrusion barrier that does not meet requirements or that does not remain methane gas and/or volatile organic compound vapor tight within the specified warranty period. Warranty does not include failure of vapor intrusion barrier due to failure of substrate prepared and treated according to requirements or formation of new joints and cracks in the attached to structures that exceed 1/16 inch (1.58 mm) in width.

  1. Warranty Period: 1 year after date of substantial completion. Longer warranty periods are available upon request to the manufacturer.

C. Labor and material warranties are available upon request to the manufacturer.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

A. Geo-Seal; Land Science Technologies™, San Clemente, CA. (949) 481-8118

  1. Geo-Seal BASE sheet layer
  2. Geo-Seal CORE spray layer and Geo-Seal CORE Detail
  3. Geo-Seal BOND protection layer

2.2 VAPOR INTRUSION BARRIER SPRAY MATERIALS

A. Fluid applied vapor intrusion barrier system – Geo-Seal CORE; a single course, high build, polymer modified, asphalt emulsion. Waterborne and spray applied at ambient temperatures. A nominal thickness of 60 dry mils, unless specified otherwise. Non-toxic and odorless. Geo-Seal CORE Detail has similar properties with greater viscosity and is roller or brush applied. Manufactured by Land Science Technologies.

B. Fluid applied vapor intrusion barrier physical properties.

Geo-Seal CORE – TYPICAL CURED PROPERTIES

Properties	**Test Method**	**Results**
Tensile Strength - CORE only	ASTM 412	32 psi
Tensile Strength - Geo-Seal System	ASTM 412	662 psi
Elongation	ASTM 412	4140%
Resistance to Decay	ASTM E 154 Section 13	4% Perm Loss
Accelerated Aging	ASTM G 23	No Effect
Moisture Vapor Transmission	ASTM E 96	.026 g/ft^2/hr
Hydrostatic Water Pressure	ASTM D 751	26 psi
Perm rating	ASTM E 96 (US Perms)	0.21
Methane transmission rate	ASTM D 1434	Passed
Adhesion to Concrete & Masonry	ASTM C 836 & ASTM C 704	11 lbf./inch
Hardness	ASTM C 836	80
Crack Bridging	ASTM C 836	No Cracking
Heat Aging	ASTM D 4068	Passed
Environmental Stress Cracking	ASTM D 1693	Passed
Oil Resistance	ASTM D543	Passed
Soil Burial	ASTM D 4068	Passed
Low Temp. Flexibility	ASTM C 836-00	No Cracking at –20°C
Resistance to Acids:		
Acetic		30%
Sulfuric and Hydrochloric		13%
Temperature Effect:		
Stable		248°F
Flexible		13°F

Geo-Seal CORE Detail – TYPICAL CURED PROPERTIES

Properties	**Test Method**	**Results**
Tensile Strength	ASTM 412	32 psi
Elongation	ASTM 412	3860%
Resistance to Decay	ASTM E 154 Section 13	9% Perm Loss
Accelerated Aging	ASTM G 23	No Effect
Moisture Vapor Transmission	ASTM E 96	.026 g/ft^2/hr
Hydrostatic Water Pressure	ASTM D 751	28 psi
Perm rating (US Perms)	ASTM E 96	0.17
Methane transmission rate	ASTM D 1434	Passed
Adhesion to Concrete & Masonry	ASTM C 836	7 lbf./inch
Hardness	ASTM C 836	85
Crack Bridging	ASTM C 836	No Cracking
Low Temp. Flexibility	ASTM C 836-00	No Cracking at –20ºC
Resistance to Acids:		
Acetic		30%
Sulfuric and Hydrochloric		13%
Temperature Effect:		
Stable		248°F
Flexible		13°F

2.3 VAPOR INTRUSION BARRIER SHEET MATERIALS

A. The Geo-Seal BASE layer and Geo-Seal BOND layer are chemically resistant sheets comprised of a 5 mil high density polyethylene sheet thermally bonded to a 3 ounce non woven geotextile.

B. Sheet Course Usage

1. As foundation base layer, use Geo-Seal BASE course and/or other base sheet as required or approved by the manufacturer.

2. As top protective layer, use Geo-Seal BOND layer and/or other protection as required or approved by the manufacturer.

C. Geo-Seal BOND and Geo-Seal BASE physical properties.

Properties	**Test Method**	**Results**
Film Thickness		5 mil
Composite Thickness		18 mil
Water Vapor Permeability	ASTM E 96	0.214
Adhesion to Concrete	ASTM D 1970	9.2 lbs/inch^2
Dart Impact	ASTM D 1790	>1070 gms, method A
		594 gms, method B
Puncture Properties Tear	ASTM B 2582 MD	11,290 gms
	ASTM B 2582 TD	13,150 gms

2.4 AXILLARY MATERIALS

A. Sheet Flashing: 60-mil reinforced modified asphalt sheet good with double-sided adhesive.

B. Reinforcing Strip: Manufacturer's recommended polypropylene and polyester fabric.

C. Gas Venting Materials: Geo-Seal Vapor-Vent HD or Geo-Seal Vapor-Vent Poly, and associated fittings.

D. Seam Detailing Sealant Mastic: Geo-Seal CORE Detail, a high or medium viscosity polymer modified water based asphalt material.

1. Back Rod: Closed-cell polyethylene foam.

PART 3 – EXECUTION

3.1 AUXILIARY MATERIALS

A. Examine substrates, areas, and conditions under which vapor intrusion barrier will be applied, with installer present, for compliance with requirements. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 SUBGRADE SURFACE PREPARATION

A. Verify substrate is prepared according to manufacturer's recommendations. On a horizontal surface, the substrate should be free from material that can potentially puncture the vapor intrusion barrier. Additional protection or cushion layers might be required if the earth or gravel substrate contains too many jagged points and edges that could puncture one or more of the system components. Contact manufacturer to confirm substrate is within manufactures recommendations.

B. Geo-Seal can accommodate a wide range of substrates, including but not limited to compacted earth, sand, aggregate, and mudslabs.

1. Compacted Earth: Remove pieces of debris, gravel and/or any other material that can potentially puncture the Geo-Seal BASE. Remove any debris from substrate that can potentially puncture the Geo-Seal system prior to application.

2. Sand: A sand subgrade requires no additional preparation, provided any material that can potentially puncture the Geo-Seal BASE layer is not present.

3. Aggregate: Contact the manufacturer to ensure the aggregate layer will not be detrimental to the membrane. **The gravel layer must be compacted and rolled flat.** Ideally a ¾" minus gravel layer with rounded edges should be specified; however the Geo-Seal system can accommodate a wide variety of different substrates. Contact Land Science Technologies if there are questions regarding the compatibility of Geo-Seal and the utilized substrate. Exercise caution when specifying pea gravel under the membrane, if not compacted properly, pea gravel can become an unstable substrate.

4. Mudslabs: The use of a mubslab under the Geo-Seal system is acceptable, contact Land Science Technologies for job specific requirements.

C. Mask off adjoining surface not receiving the vapor intrusion barrier system to prevent the spillage or over spray affecting other construction.

D. Earth, sand or gravel subgrades should be prepared and compacted to local building code requirements.

3.3 CONCRETE SURFACE PREPARATION

A. Clean and prepare concrete surface to manufacturer's recommendations. In general, only apply the Geo-Seal CORE material to dry, clean and uniform substrates. Concrete surfaces must be a light trowel, light broom or equivalent finish. Remove fins, ridges and other projections and fill honeycomb, aggregate pockets, grout joints and tie holes, and other voids with hydraulic cement or rapid-set grout. It is the applicator's responsibility to point out unacceptable substrate conditions to the general contractor and ensure the proper repairs are made.

B. When applying the Geo-Seal CORE or Geo-Seal CORE Detail material to concrete it is important to not apply the product over standing water. Applying over standing water will result in the membrane not setting up properly on the substrate

C. Surfaces may need to be wiped down or cleaned prior to application. This includes, but is not limited to, the removal of forming oils, concrete curing agents, dirt accumulation, and other debris. Contact form release agent manufacturer or concrete curing agent manufacturer for VOC content and proper methods for removing the respective agent.

D. Applying the Geo-Seal CORE to "green" concrete is acceptable and can be advantageous in creating a superior bond to the concrete surface. To help reduce blistering, apply a primer coat of only the asphalt component of the Geo-Seal CORE system. Some blistering of the membrane will occur and may be more severe on walls exposed to direct sunlight. Blistering is normal and will subside over time. Using a needle nose depth gauge confirm that the specified mil thickness has been applied.

3.4 PREPARATIONS AND TREATMENT OF TERMINATIONS

A. Prepare the substrate surface in accordance with Section 3.3 of this document. Concrete surfaces that are not a light trowel, light broom or equivalent finish, will need to be repaired.

B. Terminations on horizontal and vertical surfaces should extend 6" onto the termination surface. Job specific conditions may prevent a 6" termination. In these conditions, contact manufacturer for recommendations.

C. Apply 30 mils of Geo-Seal CORE to the terminating surface and then embed the Geo-Seal BASE layer by pressing it firmly into the Geo-Seal CORE layer. Next, apply 60 mils of Geo-Seal CORE to the BASE layer. When complete, apply the Geo-Seal BOND layer. After the placement of the Geo-Seal BOND layer is complete, apply a final 30 mil seal of the Geo-Seal CORE layer over the edge of the termination. For further clarification, refer to the termination detail provided by manufacturer.

D. The stated termination process is appropriate for terminating the membrane onto exterior footings, pile caps, interior footings and grade beams. When terminating the membrane to stem walls or vertical surfaces the same process should be used.

3.5 PREPARATIONS AND TREATMENT OF PENETRATIONS

A. All pipe penetrations should be securely in place prior to the installation of the Geo-Seal system. Any loose penetrations should be secured prior to Geo-Seal application, as loose penetrations could potentially exert pressure on the membrane and damage the membrane after installation.

B. To properly seal around penetrations, cut a piece of the Geo-Seal BASE layer that will extend 6" beyond the outside perimeter of the penetration. Cut a hole in the Geo-Seal BASE layer just big enough to slide over the penetration, ensuring the Geo-Seal BASE layer fits snug against the penetration, this can be done by cutting an "X" no larger than the inside diameter of the penetration. There should not be a gap larger than a 1/8" between the Geo-Seal BASE layer and the penetration. Other methods can also be utilized, provided, there is not a gap larger than 1/8" between the Geo-Seal BASE layer and the penetration.

C. Seal the Geo-Seal BASE layer using Geo-Seal CORE or Geo-Seal CORE Detail to the underlying Geo-Seal BASE layer.

D. Apply one coat of Geo-Seal CORE Detail or Geo-Seal CORE spray to the Geo-Seal BASE layer and around the penetration at a thickness of 30 mils. Penetrations should be treated in a 6-inch radius around penetration and 3 inches onto penetrating object.

E. Embed a fabric reinforcing strip after the first application of the Geo-Seal CORE spray or Geo-Seal CORE Detail material and then apply a second 30 mil coat over the embedded joint reinforcing strip ensuring its complete saturation of the embedded strip and tight seal around the penetration.

F. After the placement of the Geo-Seal BOND layer, a cable tie should then be placed around the finished penetration. The cable tie should be snug, but not overly tight so as to slice into the finished seal.

OPTION: A final application of Geo-Seal CORE may be used to provide a finishing seal after the Geo-Seal BOND layer has been installed.

NOTE: Metal or other slick penetration surfaces may require treatment in order to achieve proper adhesion. For plastic pipes, sand paper may be used to achieve a profile, an emery cloth is more appropriate for metal surfaces. An emery cloth should also be used to remove any rust on metal surfaces.

3.6 GEO-SEAL BASE LAYER INSTALLATION

A. Install the Geo-Seal BASE layer over substrate material in one direction with six-inch overlaps and the geotextile (fabric side) facing down.

B. Secure the Geo-Seal BASE seams by applying 60 mils of Geo-Seal CORE between the 6" overlapped sheets with the geotextile side down.

C. Visually verify there are no gaps/fish-mouths in seams.

D. For best results, install an equal amount of Geo-Seal BASE and Geo-Seal CORE in one day. Leaving unsprayed Geo-Seal BASE overnight might allow excess moisture to collect on the Geo-Seal BASE. If excess moisture collects, it needs to be removed.

NOTE: In windy conditions it might be necessary to encapsulate the seam by spraying the Geo-Seal CORE layer over the completed Geo-Seal BASE seam.

3.7 GEO-SEAL CORE APPLICATION

A. Set up spray equipment according to manufacturer's instructions.

B. Mix and prepare materials according to manufacturer's instructions.

C. The two catalyst nozzles (8001) should be adjusted to cross at about 18" from the end of the wand. This apex of catalyst and emulsion spray should then be less than 24" but greater than 12" from the desired surface when spraying. When properly sprayed the fan pattern of the catalyst should range between 65° and 80°.

D. Adjust the amount of catalyst used based on the ambient air temperature and surface temperature of the substrate receiving the membrane. In hot weather use less catalyst as hot conditions will quickly "break" the emulsion and facilitate the curing of the membrane. In cold conditions and on vertical surfaces use more catalyst to "break" the emulsion quicker to expedite curing and set up time in cold conditions.

E. To spray the Geo-Seal CORE layer, pull the trigger on the gun. A 42° fan pattern should form when properly sprayed. Apply one spray coat of Geo-Seal CORE to obtain a seamless membrane free from pinholes or shadows, with an average dry film thickness of 60 mils (1.52 mm).

F. Apply the Geo-Seal CORE layer in a spray pattern that is perpendicular to the application surface. The concern when spraying at an angle is that an area might be missed. Using a perpendicular spray pattern will limit voids and thin spots, and will also create a uniform and consistent membrane.

G. Verify film thickness of vapor intrusion barrier every 500 ft^2. (46.45 m^2), for information regarding Geo-Seal quality control measures, refer to the quality control procedures in Section 3.9 of this specification.

H. The membrane will generally cure in 24 to 48 hours. As a rule, when temperature decreases or humidity increases, the curing of the membrane will be prolonged. The membrane does not need to be fully cured prior the placement of the Geo-Seal BOND layer, provided mil thickness has been verified and a smoke test will be conducted.

I. **Do not penetrate** membrane after it has been installed. If membrane is penetrated after the membrane is installed, it is the responsibility of the general contractor to notify the certified installer to make repairs.

J. If applying to a vertical concrete wall, apply Geo-Seal CORE directly to concrete surface and use manufacturer's recommended protection material based on site specific conditions. If applying Geo-Seal against shoring, contact manufacturer for site specific installation instructions.

NOTE: Care should be taken to not trap moisture between the layers of the membrane. Trapping moisture may occur from applying a second coat prior to the membrane curing. Repairs and detailing may be done over the Geo-Seal CORE layer when not fully cured.

3.8 GEO-SEAL BOND PROTECTION COURSE INSTALLATION

A. Install Geo-Seal BOND protection course perpendicular to the direction of the Geo-Seal BASE course with overlapped seams over nominally cured membrane no later than recommended by manufacturer and before starting subsequent construction operations.

B. Sweep off any water that has collected on the surface of the Geo-Seal CORE layer, prior to the placement of the Geo-Seal BOND layer.

C. Overlap and seam the Geo-Seal BOND layer in the same manner as the Geo-Seal BASE layer.

D. To expedite the construction process, the Geo-Seal BOND layer can be placed over the Geo-Seal CORE immediately after the spray application is complete, provided the Geo-Seal CORE mil thickness has been verified.

3.9 QUALITY ASSURANCE

A. The Geo-Seal system must be installed by a trained and certified installer approved by Land Science Technologies.

B. For projects that will require a material or labor material warranty, Land Science Technologies will require a manufacturer's representative or certified 3rd party inspector to inspect and verify that the membrane has been installed per the manufacturer's recommendations.

The certified installer is responsible for contacting the inspector for inspection. Prior to application of the membrane, a notice period for inspection should be agreed upon between the applicator and inspector.

C. The measurement tools listed below will help verity the thickness of the Geo-Seal CORE layer. As measurement verification experience is gained, these tools will help confirm thickness measurements that can be obtained by pressing one's fingers into the Geo-Seal CORE membrane.

To verify the mil thickness of the Geo-Seal CORE, the following measurement devices are required.

1. Mil reading caliper: Calipers are used to measure the thickness of coupon samples. To measure coupon samples correctly, the thickness of the Geo-Seal sheet layers (18 mils each) must be taken into account. Mark sample area for repair.

2. Wet mil thickness gauge: A wet mil thickness gauge may be used to quickly measure the mil thickness of the Geo-Seal CORE layer. The thickness of the Geo-Seal sheet layers do not factor into the mil thickness reading.

   NOTE: When first using a wet mil thickness gauge on a project, collect coupon samples to verify the wet mil gauge thickness readings.

3. Needle nose digital depth gauge: A needle nose depth gauge should be used when measuring the Geo-Seal CORE thickness on vertical walls or in field measurements. Mark measurement area for repair.

To obtain a proper wet mil thickness reading, take into account the 5 to 10 percent shrinkage that will occur as the membrane fully cures. Not taking into account the thickness of the sheet layers, a freshly sprayed membrane should have a minimum wet thickness of 63 (5%) to 66 (10%) mils.

Methods on how to properly conduct Geo-Seal CORE thickness sampling can be obtained by reviewing literature prepared by Land Science Technologies.

D. It should be noted that taking too many destructive samples can be detrimental to the membrane. Areas where coupon samples have been removed need to be marked for repair.

E. Smoke Testing is highly recommended and is the ideal way to test the seal created around penetrations and terminations. Smoke Testing is conducted by pumping non-toxic smoke underneath the Geo-Seal vapor intrusion barrier and then repairing the areas where smoke appears. Refer to smoke testing protocol provided by Land Science Technologies. For projects that will require a material or labor material warranty, Land Science Technologies will require a smoke test.

F. Visual inspections prior to placement of concrete, but after the installation of concrete reinforcing, is recommended to identify any punctures that may have occurred during the installation of rebar, post tension cables, etc. Punctures in the Geo-Seal system should be easy to indentify due to the color contrasting layers of the system.

Vapor-Vent™
SOIL GAS COLLECTION SYSTEM
Version 1.5

SECTION 02 56 19 – GAS CONTROL

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:

1. Substrate preparation.
2. Vapor-Vent™ installation.
3. Vapor-Vent accessories.

B. Related Sections: The following Sections contain requirements that relate to this Section:

1. Division 2 Section “Earthwork”, “Pipe Materials”, “Sub-drainage systems”, ”Gas Control System”, “Fluid-Applied gas barrier”.
2. Division 3 Section “Cast-in-Place Concrete” for concrete placement, curing, and finishing.
3. Division 5 Section “Expansion Joint Cover Assemblies”, for expansion-joint covers assemblies and installation.

1.3 PERFORMANCE REQUIREMENTS

A. General: Provide a gas venting material that collects gas vapors and directs them to discharge or to collection points as specified in the gas vapor collection system drawings and complies with the physical requirements set forth by the manufacturer.

1.4 SUBMITTALS

A. Submit Product Data for each type of gas venting system specified, including manufacturer’s specifications.

B. Sample – Submit representative samples of the following for approval:

1. Gas venting, Vapor-Vent.
2. Vapor-Vent accessories.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: Engage an experienced Installer who is certified in writing and approved by vapor intrusion barrier manufacturer Land Science Technologies for the installation of the Geo-Seal® vapor intrusion barrier system.

B. Manufacturer Qualification: Obtain gas venting, vapor intrusion barrier and system components from a single manufacturer Land Science Technologies

C. Pre-installation Conference: A pre-installation conference shall be held prior to installation of the venting system, vapor intrusion barrier and waterproofing system to assure proper site and installation conditions, to include contractor, applicator, architect/engineer and special inspector (if any).

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to project site as specified by manufacturer labeled with manufacturer’s name, product brand name and type, date of manufacture, shelf life, and directions for handling.

B. Store materials as specified by the manufacturer in a clean, dry, protected location and within the temperature range required by manufacturer. Protect stored materials from direct sunlight.

C. Remove and replace material that is damaged.

PART 2 – PRODUCTS

2.1 MANUFACTURER

A. Land Science Technologies, San Clemente, CA. (949) 481-8118

1. Vapor-Vent™

2.2 GAS VENT MATERIALS

A. Vapor-Vent – Vapor-Vent is a low profile, trenchless, flexible, sub slab vapor collection system used in lieu or in conjunction with perforated piping. Vapor-Vent is offered with two different core materials, Vapor-Vent POLY is recommended for sites with inert methane gas and Vapor-Vent is recommended for sites with aggressive chlorinated volatile organic or petroleum vapors. Manufactured by Land Science Technologies

B. Vapor-Vent physical properties

VENT PROPERTIES	**TEST METHOD**	**VAPOR-VENT POLY**	**VAPOR-VENT**
Material		Polystyrene	HDPE
Comprehensive Strength	ASTM D-1621	9,000 lbs / ft^2	11,400 lbs / ft^2
In-plane flow (Hydraulic gradient-0.1)	ASTM D-4716	30 gpm / ft of width	30 gpm / ft of width
Chemical Resistance		N/A	Excellent
FABRIC PROPERTIES	**TEST METHOD**	**VAPOR-VENT POLY**	**VAPOR-VENT**
Grab Tensile Strength	ASTM D-4632	100 lbs.	110 lbs.
Puncture Strength	ASTM D-4833	65 lbs.	30 lbs.
Mullen Burst Strength	ASTM D-3786	N/A	90 PSI
AOS	ASTM D-4751	70 U.S. Sieve	50 U.S. Sieve
Flow Rate	ASTM D-4491	140 gpm / ft^2	95 gpm / ft^2
UV Stability (500 hours)	ASTM D-4355	N/A	70% Retained
DIMENSIONAL DATA			
Thickness		1”	1”
Standard Widths		12”	12”
Roll Length		165 ft	165 ft
Roll Weight		65 lbs	68 lbs

2.3 AUXILIARY MATERIALS

A. Vapor-Vent End Out

B. Reinforced Tape.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions under which gas vent system will be installed, with installer present, for compliance with requirements. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 SUBSTRATE PREPARATION

A. Verify substrate is prepared according to project requirements.

3.3 PREPARATION FOR STRIP COMPOSITE

A. Mark the layout of strip geocomposite per layout design developed by engineer.

3.4 STRIP GEOCOMPOSITE INSTALLATION

A. Install Vapor-Vent over substrate material where designated on drawings with the flat base of the core placed down and shall be overlapped in accordance with manufacturer's recommendations.

B. At areas where Vapor-Vent strips intersect cut and fold back fabric to expose the dimpled core. Arrange the strips so that the top strip interconnects into the bottom strip. Unfold fabric to cover the core and use reinforcing tape, as approved by the manufacturer, to seal the connection to prevent sand or gravel from entering the core.

C. When crossing Vapor-Vent over footings or grade beams, **consult with the specifying environmental engineer and structural engineer for appropriate use and placement of solid pipe materials**. Place solid pipe over or through concrete surface and attach a Vapor-Vent End Out at both ends of the pipe before connecting the Vapor-Vent to the pipe reducer. Seal the Vapor-Vent to the Vapor-Vent End Out using fabric reinforcement tape. Refer to Vapor-Vent detail provided by Land Science Technologies.

D. Place vent risers per specifying engineer's project specifications. Connect Vapor-Vent to Vapor-Vent End Out and seal with fabric reinforced tape. Use Vapor-Vent End Out with the specified diameter piping as shown on system drawings.

3.5 PLACEMENT OF OVERLYING AND ADJACENT MATERIALS

A. All overlying and adjacent material shall be placed or installed using approved procedures and guidelines to prevent damage to the strip geocomposite.

B. Equipment shall not be directly driven over and stakes or any other materials may not be driven through the strip geocomposite.

Land Science
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Product Data
Sheet

Geo-Seal® CORE

Geo-Seal® CORE is an elastic water-based co-polymer modified asphaltic membrane spray applied to a minimum dry thickness of 60 mils. The CORE material has exceptional bonding to a wide variety of substrates and will build up to the specified thickness in a single application. Since the CORE material is water-based, there is little or no odor during or after product application, making it safe for use in sensitive areas. This material can also be applied to green concrete as it exhibits exceptional bonding capability that will not delaminate from the intended substrate. The seamless application of the CORE material makes for easy installation around penetrations, uneven surfaces and oddly shaped areas.

COVERAGES	TEST METHOD	UNITS
Application to BASE Layer		60 mils (17 ft^2/gal)
Typical Uncured Properties		
Specific Gravity	ASTM D 244	1.00
Viscosity	ASTM D 1200	>25 centipoise
PH		12.3
Flammability	ASTM D 3143	500^0 F
Color		Brown to Black
Non-Toxic		No Solvents
Shelf Life		6 months
Typical Cured Properties		
Tensile Strength	ASTM 412	32 psi
Elongation	ASTM 412	4140%
Resistance to Decay	ASTM E 125 Section 13	4% Perm Loss
Accelerated Aging	ASTM G 23	No Effect
Moisture Vapor Transmission	ASTM E 96	0.026 g / ft^2 per hour
Hydraulic Water Pressure	ASTM D 751	26 psi
Perm Rating	ASTM E 96 (US Perms)	0.21
Methane Transmission Rate	ASTM D 1434	Passed
Adhesion to Concrete & Masonry	ASTM C 836 & ASTM C 704	11 lbf / inch
Hardness	ASTM C 836	80
Crack Bridging	ASTM C 836	No Cracking
Low Temp Flexibility	ASTM C 836-00	No Cracking at -20^0 C
Resistance to Acids		
Acetic		30%
Sulfuric and Hydrochloric		13%
Temperature Effect:		
Stable		248^0 F
Flexible		13^0 F
Packaging: 330 gal. totes or 55 gal. drums		

Approvals: City of Los Angeles RR# 25478, NSF

Land Science
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Product Data
Sheet

Geo-Seal® CORE DETAIL

Geo-Seal® CORE DETAIL is ideally used to perform detailing and repairs to the Geo-Seal system. It is also ideal for those areas where the necessary clearance is not available for the application of the Geo-Seal spray. This proprietary and unique material can be used all at once or over a period of a few days without breaking down or hardening. Geo-Seal CORE DETAIL is water-based and can be applied to green concrete with exceptional bonding capability that will not delaminate from the intended substrate. Geo-Seal CORE DETAIL's viscosity allows high build applications to be done easily due to its ability to set quickly and get jobs done fast.

PROPERTIES	TEST METHOD	UNITS
TYPICAL UNCURED PROPERTIES		
Specific Gravity		1.034
Viscosity		9m-13m centipoise
PH		11.5
Flammability		270^0 F
Color		Brown to Black
Non-Toxic		No Solvents
Shelf Life		6 months
TYPICAL CURED PROPERTIES		
Initial Cure		30 minutes
Final Cure		24-24 hours
Tensile Strength	ASTM 412	32 psi
Elongation	ASTM 412	3860%
Resistance to Decay	ASTM E 125 Section 13	9% Perm Loss
Accelerated Aging	ASTM G 23	No Effect
Moisture Vapor Transmission	ASTM E 96	0.026 gal/ft^2 per hour
Hydrostatic Water Pressure	ASTM D 751	28 psi
Perm Rating (US Perms)	ASTM E 96	0.17
Methane Transmission Rate	ASTM D 1434	0
Adhesion to Concrete & Masonry	ASTM C 836	7 lbf/inch
Hardness	ASTM C 836	85
Crack Bridging	ASTM C 836	No Cracking
Low Temp Flexibility	ASTM C 836-00	No Cracking at -20^0 C
Resistance to Acids		
Acetic		30%
Sulfuric and Hydrochloric		13%
COVERAGES		
60-mils (dry)		19 ft^2/gal
Packaging: Available in 1 or 5 gal. buckets		

Approvals: City of Los Angeles RR# 25478 (for methane and waterproofing), NSF Standard 61 for potable water containment

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Product Data
Sheet

Geo-Seal® BASE Layer

The Geo-Seal™ BASE layer is comprised of a high strength laminated HDPE membrane that is thermally bonded to a polypropylene geotextile giving the BASE layer a high puncture resistance (Class A Rating) as well as high chemical resistance. The BASE layer is installed over the substrate with the HDPE side facing up and provides the ideal surface for the application of the Geo-Seal CORE component.

PROPERTIES	TEST METHOD	Geo-Seal BASE
Film Thickness		5 mil
Composite Thickness		18 mil
Tensile @ ULT	ASTM D 882 MD	37.3 lbs / in
	ASTM D 882 TD	32.0 lbs / in
Elongation @ ULT	ASTM D 882 MD	51.00%
	ASTM D 882 TD	55.30%
Dart Impact	ASTM D 1709	
	Method A	>1070 gms
	Method B	594 gms
Modulus	ASTM D 882 MD	295.5 lbs / in
	ASTM D 882 TD	270.6 lbs / in
Elmendorf Tear	ASTM D 1922 MD	5,260 gms
	ASTM D 1922 TD	5,140 gms
Puncture Prop. Tear	ASTM B 2582 MD	11,290 gms
	ASTM B 2582 TD	13,150 gms
Beach Puncture Tear	ASTM D 751 MD	160 lb / in
	ASTM D 751 TD	165 lb / in
Permeability (water vapor)	ASTM E96	0.214
Chemical Resistance		Excellent
Packaging: 15’x150’ = 100 lbs		

Geo-Seal® BOND Layer

The Geo-Seal™ BOND layer is comprised of a high strength laminated HDPE membrane that is thermally bonded to a polypropylene geotextile giving the BASE layer a high puncture resistance (Class A Rating) as well as high chemical resistance. The BOND layer is installed as a protection course over the BASE and CORE layers with the geotextile side facing up. The BOND layer also provides an excellent substrate and friction surface for concrete to adhere to.

PROPERTIES	TEST METHOD	Geo-Seal BOND
Film Thickness		5 mil
Composite Thickness		18 mil
Tensile @ ULT	ASTM D 882 MD	37.3 lbs / in
	ASTM D 882 TD	32.0 lbs / in
Elongation @ ULT	ASTM D 882 MD	51.00%
	ASTM D 882 TD	55.30%
Dart Impact	ASTM D 1709	
	Method A	>1070 gms
	Method B	594 gms
Modulus	ASTM D 882 MD	295.5 lbs / in
	ASTM D 882 TD	270.6 lbs / in
Elmendorf Tear	ASTM D 1922 MD	5,260 gms
	ASTM D 1922 TD	5,140 gms
Puncture Prop. Tear	ASTM B 2582 MD	11,290 gms
	ASTM B 2582 TD	13,150 gms
Beach Puncture Tear	ASTM D 751 MD	160 lb / in
	ASTM D 751 TD	165 lb / in
Permeability (water vapor)	ASTM E96	0.214
Chemical Resistance		Excellent
Packaging: 15’x150’ = 100 lbs		

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Product Data
Sheet

Geo-Seal® Reinforcement Fabric

The Geo-Seal™ Reinforcement Fabric is a textile material composed of staple fibers hydraulically entangled, which is composed of 100% polyester. The basic use of the Geo-Seal Reinforcement Fabric is designed to act as reinforcement when used in conjunction with Geo-Seal CORE spray applied membrane.

CHEMICAL	EXPOSURE (at room temperature)	% STRENGTHENED RETAINED
Dimethyl Formamide	1000 hours	100%
Ethylene Glycol	1000 hours	100%
1% Sodium Hydroxide	6 hours	100%
60% Sulfuric Acid	150 hours	54%
Perchlorethylene	1000 hours	100%
Acetone	1000 hours	100%
Distilled Water	1000 hours	100%
PHYSICAL PROPERTY DATA		
Weight/Square (lbs.)	ASTM D 3776	1.1
Oz./Sq./Yd. (oz.)	ASTM D 3776	1.6
Bulk (mills)		22
Dry Tensile-MD (lbs.)	ASTM D1777	25
Dry Tensile-CD (lbs.)	ASTM D 1777	18
Elongation-MD (per/cent)	ASTM D 1682	45
Elongation-CD (per/cent)	ASTM D 1682	100
Mullen Burst (P. S. I.)	ASTM D 3786	35
Packaging: 6” x 360’, 12” x 360’		

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Product Data Sheet

Vapor-Vent™

Vapor-Vent™ is a low profile, trenchless, flexible, sub slab vapor collection system used in lieu of perforated piping. Installation of Vapor-Vent increases construction productivity as it eliminates time consuming trench digging and costly gravel importation. Vapor-Vent is offered with two different core materials, Vapor-Vent POLY is recommended for sites with inert methane gas and Vapor-Vent is recommended for sites with aggressive chlorinated volatile organic or petroleum vapors.

VENT PROPERTIES	**TEST METHOD**	**Vapor-Vent POLY**	**Vapor-Vent**
Material		Polystyrene	HDPE
Comprehensive Strength	ASTM D-1621	9,500 lbs / ft^2	11,400 psf
Flow Rate (Hydraulic gradient = .1)	ASTM D-4716	30 gpm/ft width	30 gpm/ft width
Chemical Resistance		N/A	Excellent
FABRIC PROPERTIES	**TEST METHOD**	**Vapor-Vent POLY**	**Vapor-Vent**
Grab Tensile Strength	ASTM D-4632	100 lbs.	110 lbs.
Puncture Strength	ASTM D-4833	65 lbs.	30 lbs.
Mullen Burst Strength	ASTM D-3786	N/A	90 PSI
AOS	ASTM D-4751	70 U.S. Sieve	50 U.S. Sieve
Flow Rate	ASTM D-4491	140 gpm / ft2	95 gpm / ft2
UV Stability (500 hours)	ASTM D-4355	N/A	70% Retained
DIMENSIONAL DATA		**Vapor-Vent POLY**	**Vapor-Vent**
Thickness		1”	1”
Standard Widths		12”	12”
Roll Length		165 ft	165 ft
Roll Weight		65 lbs	68 lbs

GEOSEAL CORE MATERIAL SAFETY DATA SHEET

LAND SCIENCE TECHNOLOGIES
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1. PRODUCT IDENTIFICATION

Trade Names: Geo-Seal CORE, Geo-Seal CORE Detail
Chemical Name: Asphalt Emulsion
Synonyms: N/A
Hazardous Ingredients/OSHA: CHEMICAL FAMILIES:

A. Bitumen/Asphalt
B. Synthetic rubber
C. Fatty acids
D. Polymers

Hazard: No evidence of serious health hazards exists.
Carcinogenic ingredients/OSHA/NTP: Bitumen IARC: None

Ingredient	Percentage	C. A. S. #
Asphalt	50-60%	8052-42-4
Water	20-40%	7732-18-5
Latex:		9003-55-8
Styrene Latex	0-15%	100-42-5
Butadiene Latex	0-15%	106-99-0
Sodium Hydroxide	.1-1%	1310-73-2
Amino Ethanol	.01-.1%	34375-28-5

2. WARNING STATEMENTS

Avoid prolonged or frequent skin contact, as the presence of emulsifying and de-emulsifying agents during application may irritate the skin.

3. PHYSICAL AND CHEMICAL DATA

Appearance: Brown to black
Specific Gravity: (H_2O = 1): 1.028 (S) 1.034 (R) 1.13 (T)
Solubility in Water: Insoluble
Percent Volatiles: None
Boiling Point: N/A
Vapor Pressure (mm Hg): N/A
Vapor Density (Air = 1): N/A
Evaporation Rate: N\A

4. FIRE PROTECTION

Bitumen emulsions are water based products and as such will not burn. In cases of fire in the vicinity of drums, cool with water.

5. REACTIVITY DATA

Contact with strong oxidizing agents may create geling and water condensation.

6. HEALTH HAZARD DATA

Exposure Limits: Avoid prolonged or frequent skin contact.

7. PHYSIOLOGICAL EFFECTS SUMMARY

Acute: Skin irritation and rash
Chronic: Dermatitis

8. PRECAUTIONS FOR SAFE HANDLING

Avoid contact with eyes.
Avoid inhalation.
Avoid prolonged or frequent skin contact.
Avoid ingestion.

9. PROTECTION AND CONTROL MEASURES

Protective Equipment: Use of clothing, gloves, and/or barrier cream is recommended for skin protection.
Respiratory Protection: Inhalation should be avoided, but is not considered to be hazardous.
Ventilation: Use local exhaust ventilation when applying in an enclosed area.

10. EMERGENCY AND FIRST AID PROCEDURES

For ingestion: DO NOT induce vomiting. Keep at rest and get prompt medical attention.
For eye contamination: Irrigate eyes with water.
For skin contact: Wash affected areas of the body with proprietary hand cleaner, then wash with soap and water.

Contact physician as needed for any of the above occurrences.

11. SPILL AND DISPOSAL PROCEDURES

Contain spillages with sand or earth and remove by normal methods. Dispose of according to State and Local regulations. If the Bitumen enters a water course or sewer, advise respective water authority. The non-cured and cured material is non-toxic and non-flammable and can be disposed of in land fill sites.

Other Precautions: For Additional Information Contact:

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Geo-Seal BASE and BOND: Material Safety Data Sheet

Land Science Technologies
1011 Calle Sombra
San Clemente, CA 92673

PHONE: 949-366-8000

1. PRODUCT IDENTIFICATION

Trade Name: Geo-Seal BASE, Geo-Seal BOND
Chemical Name: POLYMERIC COMPONENTS, GEOTEXTILE FABRIC
Synonyms: N/A
Hazardous Ingredients/OSHA: NO HAZARDOUS INGREDIENTS

THIS PRODUCT IS SUPPLIED IN COMPLIANCE WITH THE TSCA REPORTING REUQIREMENTS.

Carcinogenic Ingredients/OSHA/NTP: NONE
IARC: NONE
Transportation information: CONTAINS NO HAZARDOUS INGREDIENTS
Transportation emergency: Land Science Technologies, 949-366-8000

2. PHYSICAL AND CHEMICAL DATA

Appearance and Odor: White Solid Sheet, Odorless
Specific Gravity (Water = 1): 0.90
Vapor Pressure (mm Hg): Not Determined
Vapor Density (Air = 1): Not Determined
Evaporation Rate: (Butyl Acetate - 1): N/A
Auto Ignition Temperature: Not Determined

Solubility in Water: Negligible, below 0.1%
Percent Volatiles: None
Boiling Point: Degrees: Not Determined
Melting Point: 320° F

3. FIRE AND EXPLOSION DATA

Flash Point: N/A
Flammable limits %: Lower N/A Upper N/A
Extinguishing Media: Agents approved for Class A hazards (e.g. foam, steam) or water fog.
Special Fire Fighting Procedures: Firefighters should wear full bunker gear, including a positive pressure self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: None identified.

4. REACTIVITY DATA

Stability: Stable Conditions to avoid: Keep away from ignition sources (e.g. heat, sparks and open flames).
Incompatibility (materials to avoid): None Identified
Hazardous Decomposition or Byproducts: Incomplete burning can produce carbon monoxide and/or carbon dioxide and other harmful products.
Hazardous Polymerization: Will not occur

5. HEALTH HAZARD DATA

Route(s) of Entry: Inhalation: No Skin: No Ingestion: No
Health Hazards (Acute & Coronic): Will not present any health hazards under normal processing conditions.
Eye & Skin Contact: None Identified.
Skin Absorption: Non-toxic.
Inhalation: No significant irritation expected.
Ingestion: No significant health hazards identified.
Carcinogenicity: Unrelated NTP: No IARC: No OSHA Regulated: No

6. PROTECTION AND CONTROL MEASURES

Precautions to be taken in handling and storing: Store away from heat, ignition sources and open flame in accordance with applicable regulations.
Respiratory Protection: Not required under normal process conditions.
Ventilation: Local Exhaust

Protective Gloves: Not required.
Eye Protection: Not required.
Other Protective clothing or equipment: Not required.
Work/Hygienic Practices: Wash hands after handling and before eating.

7. EMERGENCY AND FIRST AID PROCEDURES

In Case of Combustion (550°)" Eye Contamination: Flush with large amounts of water for 20 minutes lifting upper and lower lids occasionally. Get medical attention.
Skin contact: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.
Inhalation: If overexposure occurs, remove individual to fresh air. If breathing stops, administer artificial respiration. Get medical attention.
Ingestion: If a large amount of material is swallowed **DO NOT INDUCE VOMITING**. If vomiting begins lower victim's head in an effort to prevent vomit from entering lungs and get medical attention.

8. SPILL AND DISPOSAL PROCEDURES

Spill is not applicable. Material is normally in solid form.

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Information presented herein has been compiled from sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or any product in violation of any patent or in violation of law or regulation. It is the users responsibility to determine for himself the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. We make no warranty as to the results to be obtained in using any material and, since conditions of use are not under our control, we must necessarily disclaim all liability with respect to the use of any material supplied by us.

Geo-Seal® Quality Control

Certified Applicator

Authorized installation of Geo-Seal can only be accomplished by one of Land Science Technologies Certified Applicators.

Membrane Inspections

For projects that will require a material or system (workmanship and material) warranty, Land Science Technologies will require a manufacturer's representative or certified 3rd party inspector to inspect and verify that the membrane has been installed per the manufacturer's recommendations.

The applicator is responsible for contacting the inspector for inspection. Prior to application of the membrane, a notice period for inspection should be agreed upon between the applicator and inspector.

Material Yield

Material yield is one of the first indicators in determining if the Geo-Seal CORE layer has been installed correctly. A baseline standard for yield is as follows:

Material Container	60 dry mils	80 dry mils	100 dry mils
55 Gallon Drum	935 ft^2	660 ft^2	550 ft^2
275 Gallon Tote	4,675 ft^2	3,300 ft^2	2,750 ft^2
330 Gallon Tote	5,610 ft^2	3,960 ft^2	3,300 ft^2

The estimated yield is 17 ft^2 per gallon for a 60 dry mil application using the recommended thickness, unless otherwise noted by a specified engineer or regulatory agency.

Yields can decrease based on the complexity of the foundation. Projects containing many penetrations and areas where a lot of detailing is required might reduce the material yield to 16 ft^2 or 15 ft^2 per gallon for a 60 mil membrane.

Millage Verification

The measurement tools listed below will help verify the thickness of the Geo-Seal CORE layer. As measurement verification experience is gained, these tools will help confirm thickness measurements that can be obtained by pressing one's fingers into the Geo-Seal CORE membrane.

To verify the mil thickness of the Geo-Seal CORE, the following measurement devices are required:

Mil reading caliper: Calipers are used to measure the thickness of coupon samples. To measure coupon samples correctly, the thickness of the Geo-Seal sheet layers must be taken into account (This is best done by obtaining a sample of the Geo-Seal BASE layer and then zeroing out the caliper to the Geo-Seal BASE layer). Mark sample area for repair.

Wet mil thickness gauge: A wet mil thickness gauge may be used to quickly measure the mil thickness of the Geo-Seal CORE layer. The thickness of the Geo-Seal sheet layers do not factor into the mil thickness reading, but the softness of the subgrade might result in inaccurate readings.

NOTE: When first using a wet mil thickness gauge on a project, collect coupon samples to verify the wet mil gauge thickness readings.

Needle nose digital depth gauge: A needle nose depth gauge can be used when measuring the Geo-Seal CORE thickness on vertical walls or in field measurements. Mark measurement area for repair.

To obtain a proper wet mil thickness reading, take into account the 5 to 10 percent shrinkage that will occur as the membrane fully cures. Not taking into account the thickness of the sheet layers, a freshly sprayed membrane should have a minimum wet thickness of 63 (5%) to 66 (10%) mils.

Visual Inspections

The guidelines outlined in this section provide ways to quantify and observe the proper installation of the Geo-Seal system. However, a visual inspection should also be done to ensure any visual imperfections are not present, i.e. fish-mouths, punctures, voids, etc. During a visual inspection, punctures in the Geo-Seal system should be easy to indentify due to the color contrasting layers of the system.

Membrane Testing Log

To aid in the inspection process and properly document the Geo-Seal membrane inspection, create a membrane testing log. We recommend creating the log by using the foundation plan (plan view) of the structure and then creating a 500 square foot grid over the foundation. If this is not able to be done, enclosed is a membrane testing log template that can also be used. (Appendix E)

Wet Mil Thickness Readings

A wet mil thickness gauge is one method to verify the mil thickness of the Geo-Seal CORE layer. An advantage to this method is the ability to verify the Geo-Seal CORE thickness by minimizing destructive coupon sampling.

1. Create a membrane testing log by obtaining a copy of the foundation plan and then draw a 500 square foot grid over the foundation plan. Make two copies of the membrane testing log; one should be used when collecting coupon samples and the other should be used when conducting the smoke test.

2. Note time, date, project name, inspector name, temperature and weather conditions on testing log.

3. Number each quadrant and inspect sequentially.

4. When arriving at each quadrant quickly assess if there are any conditions that might present any challenges in establishing a proper seal. Note areas and discuss with applicator.

5. Conduct a visual inspection of the membrane. Look for areas where a proper seal was not created, i.e. a fish-mouth at the termination and areas where the membrane might be sprayed thin. Mark areas needed for repair in the field with florescent paint or with chalk. Also make a note on the testing log.

6. Conduct a thickness sample in the area that is suspected to be sprayed thin and take three readings within 3” of one another. **When beginning a project, verify the wet mil gauge thickness reading by cutting a coupon sample and measuring the thickness with a caliper.** Once wet mil thickness readings have been confirmed and established, confirm wet mil thickness periodically by taking a coupon sample and caliper measurement.

7. After sampling 5 quadrants it is at the discretion of the inspector to continue collecting samples every 500 ft^2 or 1,000 ft^2.

8. This method will verify the thickness of the Geo-Seal CORE layer prior to it fully curing. Observed shrinkage of the Geo-Seal CORE layer during the curing process ranges from 5% to 10%. When taking uncured samples assume a minimum of 10% loss for horizontal surfaces and 5% for vertical surfaces. Assuming a 10% loss, the gauge should read a mil thickness between 65 and 70 mils (≥66 mils).

9. If using a wet mil gauge to verify a fully cured membrane the gauge should read 60 mils.

10. When testing is complete, send a copy of the membrane testing log to Land Science Technologies. Keep the coupon samples for the file, or send them to Land Science Technologies.

Coupon Sampling

Coupon sampling is the most accurate way to verify the Geo-Seal CORE thickness. However, please note that taking too many coupon samples, or destructive samples, can be counter-productive. To collect a coupon sample the following steps should be followed:

1. Create a membrane testing log by obtaining a copy of the foundation plan and then draw a 500 square foot grid over the foundation plan. Make two copies of the membrane testing log, one should be used when collecting coupon samples and the other should be used when conducting the smoke test.

2. Note time, date, project name, inspector name, temperature and weather conditions on testing log.

3. Number each quadrant and inspect sequentially.

4. When arriving at each quadrant quickly assess if there are any conditions that might present any challenges in establishing a proper seal. Note areas and discuss with applicator.

5. Conduct a visual inspection of the membrane. Look for areas where a proper seal was not created, i.e. a fish-mouth at the termination and areas where the membrane might be sprayed thin. Mark areas needed for repair in the field with florescent paint or with chalk. Also make a note on the testing log.

6. Calibrate mil reading caliper to account for the thickness of the Geo-Seal BASE layer. This is best done by obtaining a sample of the Geo-Seal BASE layer and then zeroing out the caliper to the Geo-Seal BASE layer.

7. Collect a coupon sample in the area that is suspected to be sprayed thin. Use a box cutter to cut a 3 square inch sample from the membrane. Measure each side to confirm the specified minimum thickness has been obtained. Number each sample and save in the job file. Mark the area for repair in the field and on the site plan.

8. After sampling 5 quadrants it is at the discretion of the inspector to continue collecting samples every 500 ft^2 or 1,000 ft^2.

9. Samples may be collected prior to the Geo-Seal CORE layer fully curing. Observed shrinkage of the Geo-Seal CORE layer during the curing process for horizontal surfaces is 10%. Assuming a 10% loss, a minimum of 66 mills thickness should be measured for a cured measurement of 60 mils.

10. When testing is complete, send a copy of the membrane testing log to Land Science Technologies. Keep the coupon samples for the file, or send them to Land Science Technologies.

Smoke Testing

This test is intended to visually verify and confirm the proper installation of the Geo-Seal system. Land Science Technologies requires a smoke test on all projects in order to obtain a warranty. The smoke test will be performed by the applicator.

Smoke testing should occur after the Geo-Seal CORE layer has been installed and mil thickness verified. Smoke testing may occur after the Geo-Seal BOND layer is installed, if preferred by the applicator. Upon completion of the original smoke test, additional smoke tests can be conducted per the membrane manufacturer's, specifying engineer or regulatory agency's request. To conduct a smoke test follow these steps:

1. One smoke test can cover between 2000-3000 square feet per test. However, coverage will greatly depend on the sub grade under the membrane. On sites where multiple smoke tests will be needed, use the first two smoke tests to estimate the coverage area per test.

2. Visual verification of soundness of seams, terminations and penetrations should be performed. Identify/correct any apparent deficiencies and/or installation problems.

3. Note time, date, project name, inspector name, temperature and weather conditions on testing log. In addition, record humidity, barometric pressure, and wind speed/direction. Confirm wind speed is below 15 mph. Visual identification of leaks becomes more difficult with increasing wind speed.

4. Cap other vent outlet(s) not being used. If the installation has no sub-slab vent system or the membrane is isolated from the vent system, connect the smoke testing system directly to the membrane using a temporary boot collar or other method. Insert the smoke test hose into coupon sampling locations, creating a seal around the smoke test hose with a rag.

5. Activate the smoke generator/blower system and connect to sub-slab vent riser or directly to the membrane.

6. To confirm the adequate flow of smoke under the membrane cut a 2” vent in the membrane to facilitate the purging of air pockets under it. If working properly, smoke will consistently flow though the 2” vent. If a low rate of smoke flow is observed it is an indication of poor smoke flow under the membrane. If low flow does occur, insert the smoke testing hose into the 2” membrane vent.

7. Mark sampling locations with fluorescent paint or chalk. Repair sampling locations per Land Science Technologies recommendations

8. Maintain operation of smoke generator/blower system for at least 15 minutes following purging of membrane. Thoroughly inspect entire membrane surface. Use fluorescent paint or chalk to mark/label any leak locations. Mark/label leak locations on testing log. NOTE: The duration of the smoke test will vary depending on the size of the area being tested. To help determine the duration, monitor the pressure building up under the membrane. If excessive lifting of the membrane occurs, decrease the duration or pressure of the smoke test.

9. Prepare membrane inspection log. Identify the type of leak found, i.e. poor seal around penetration, fish-mouth, puncture, etc.

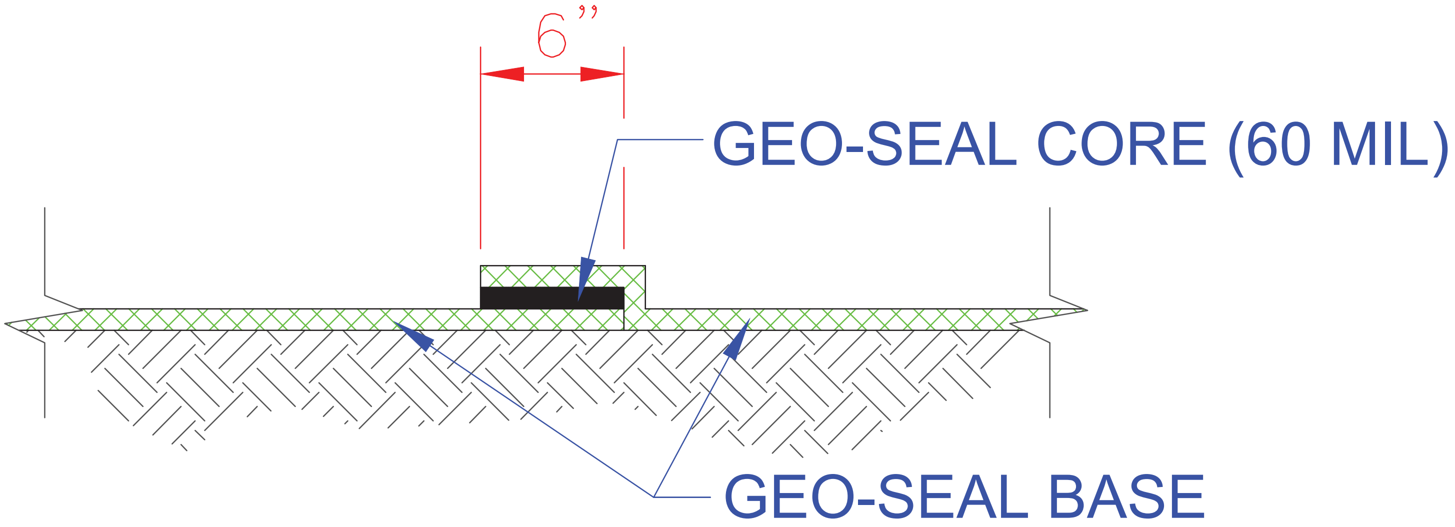
10. Repair leak locations marked in step 7 and step 8 per procedures outlined in “Geo-Seal Repair Procedures” section using Geo-Seal CORE or Geo-Seal DETAIL.

11. Repeat steps 4 through 10 as necessary to confirm the integrity of the membrane.

12. Complete the smoke testing inspection form indicating the successful completion of the smoke test.

Post Installation Inspection

After a manufacturer’s representative or 3rd party inspector signs off on the membrane installation and the steel workers begin to install the rebar, it is recommended to conduct a visual inspection prior to the pouring of concrete. Damages are most likely to occur during this time and it is imperative that punctures are indentified prior to the placement of the slab. The system configuration of Geo-Seal, the top white Geo-Seal BOND layer with a middle black layer, will make rebar punctures easy to identify when conducting a visual inspection.



Land Science Technologies

1011 CALLE SOMBRA
SAN CLEMENTE, CA 92673
949.366.8000 OFFICE
WWW.LANDSCIENCETECH.COM

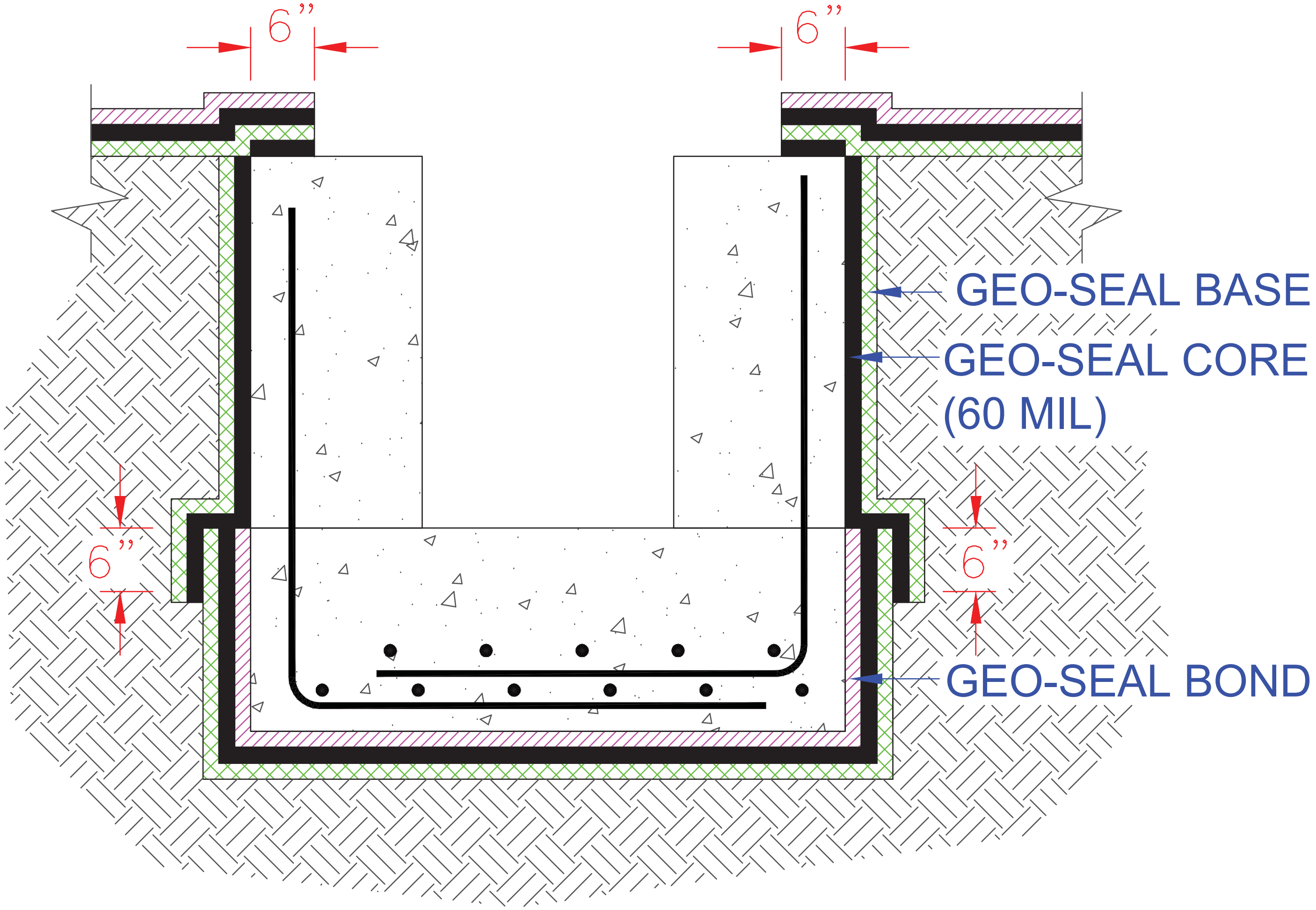
Geo-Seal® Vapor Intrusion Barrier

DATE

SCALE

TITLE

BASE OVERLAP DETAIL



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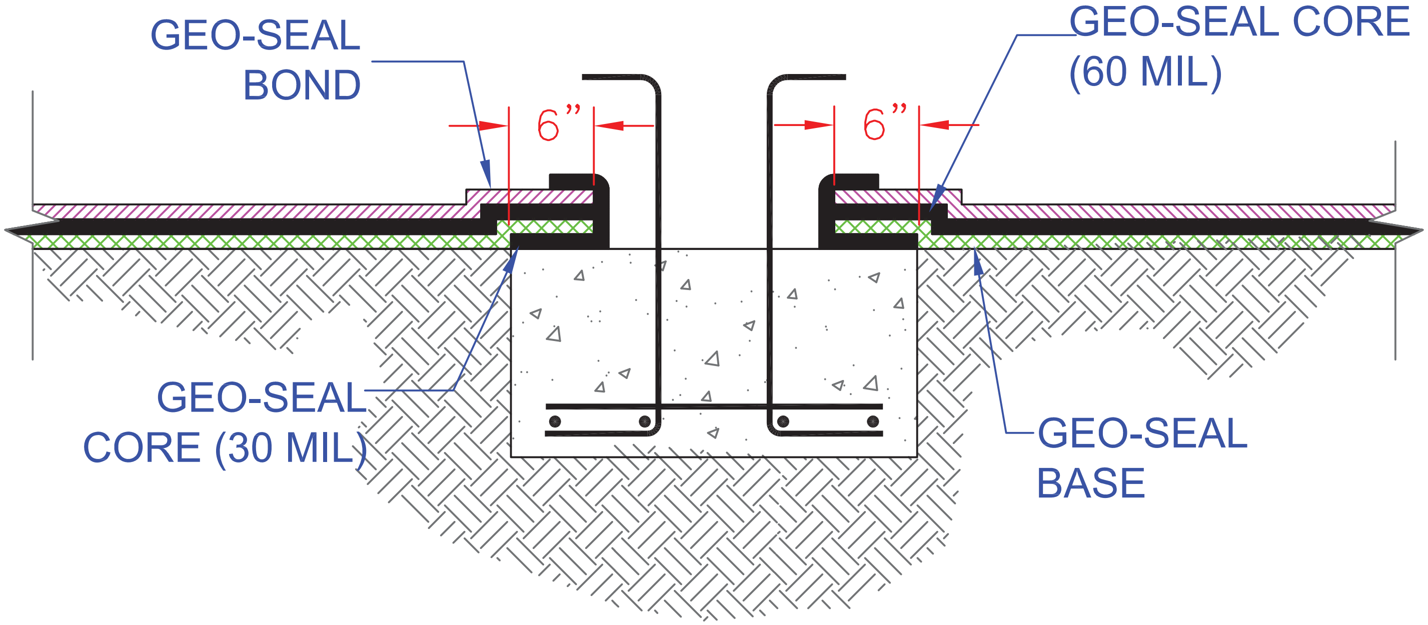
TITLE

ELEVATOR PIT DETAIL



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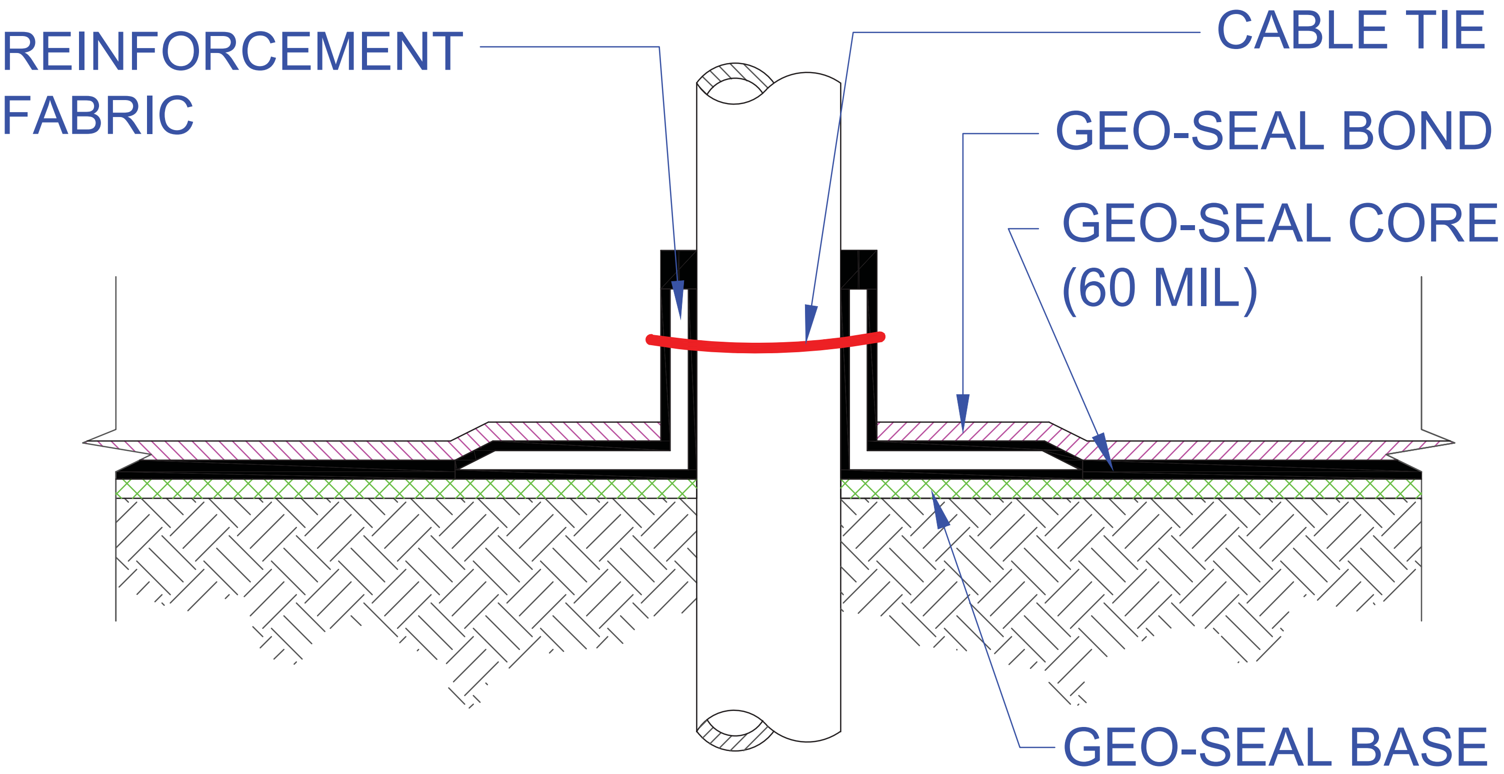
SCALE

TITLE

FOOTING TERMINATION



STEP 5

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Geo-Seal®
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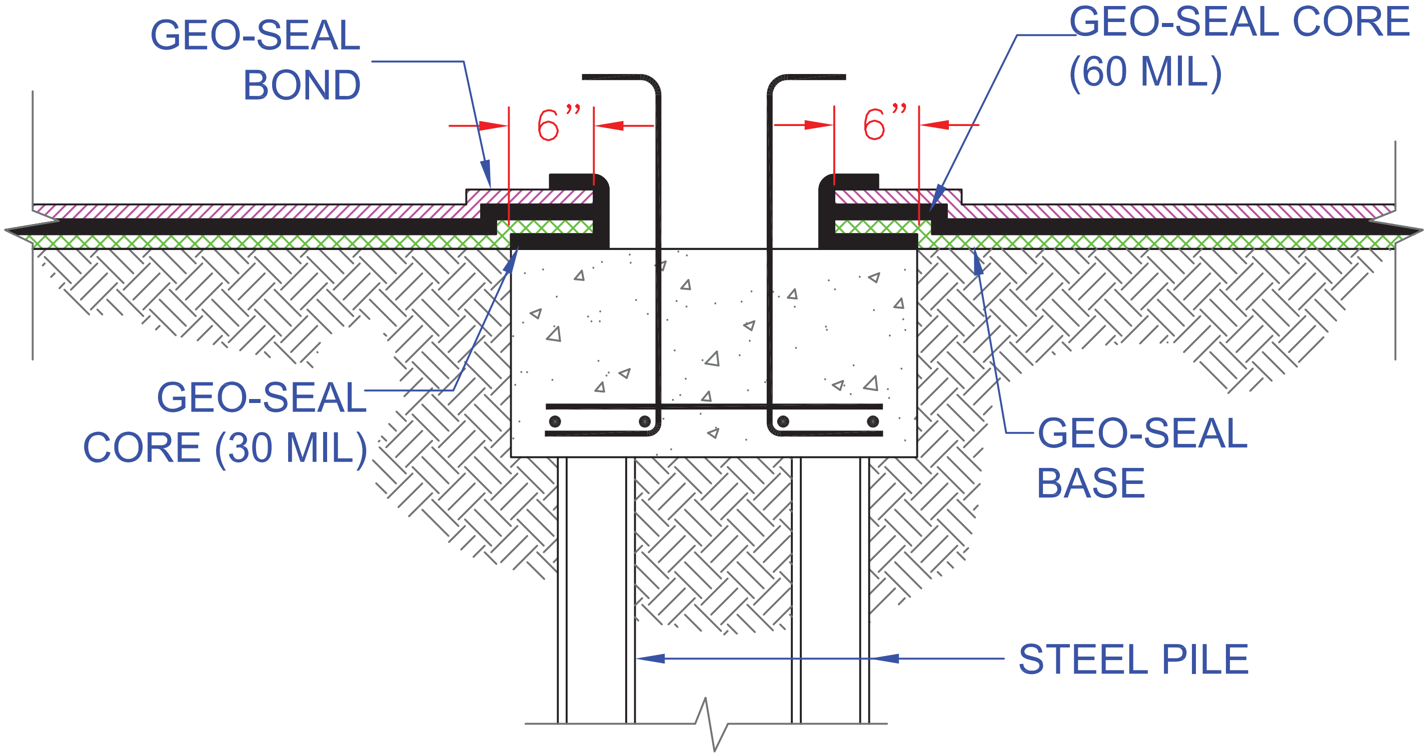
DATE

SCALE

TITLE

PENETRATION SEQUENCE

STEP 5



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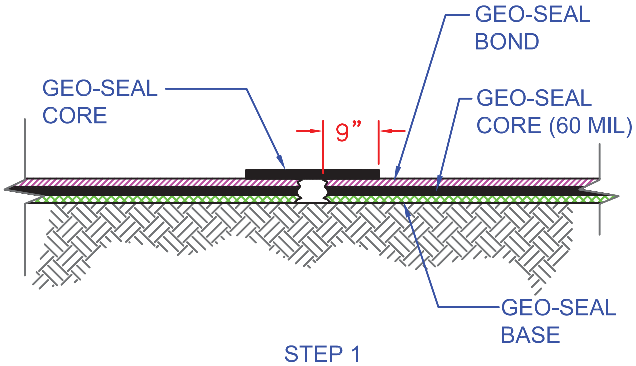
DATE

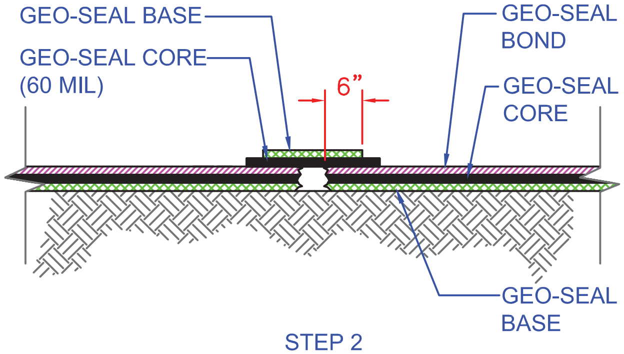
SCALE

TITLE

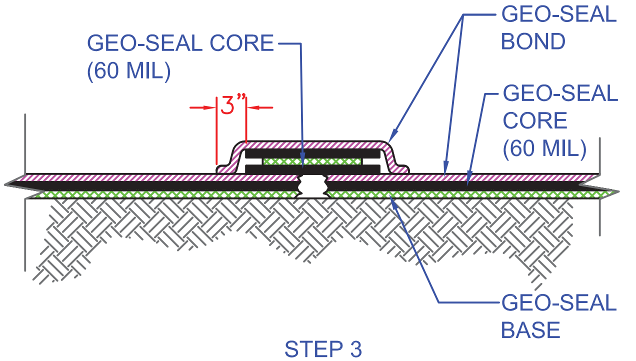
PILE CAP DETAIL



STEP 1



STEP 2



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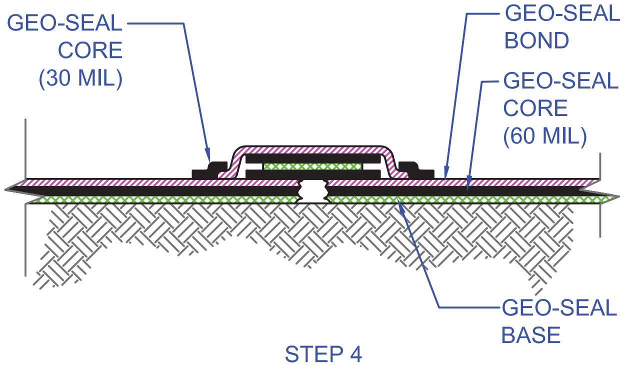

STEP 4

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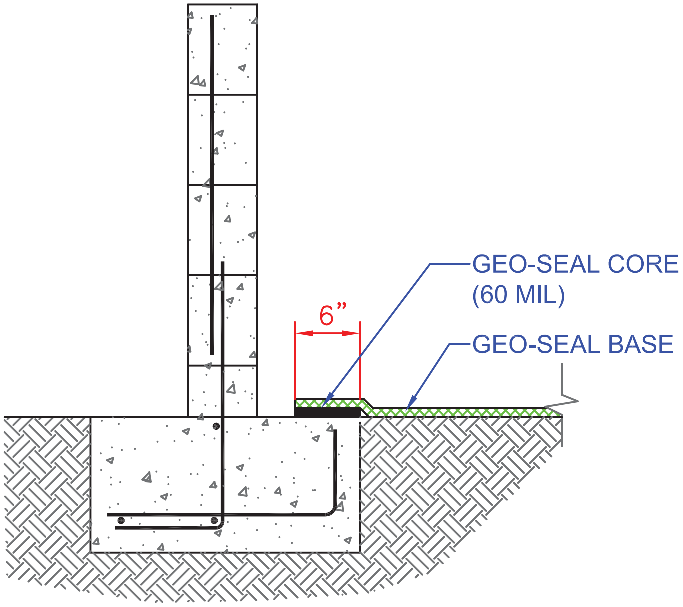
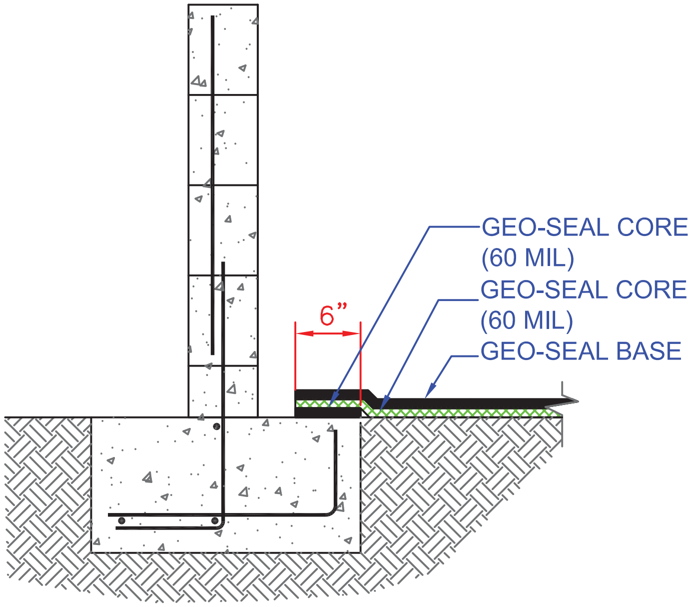
TITLE

REPAIR SEQUENCE



STEP 1



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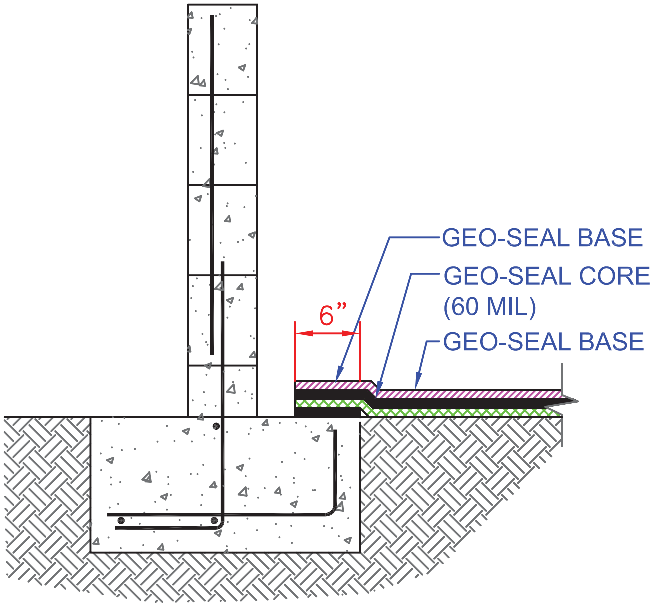

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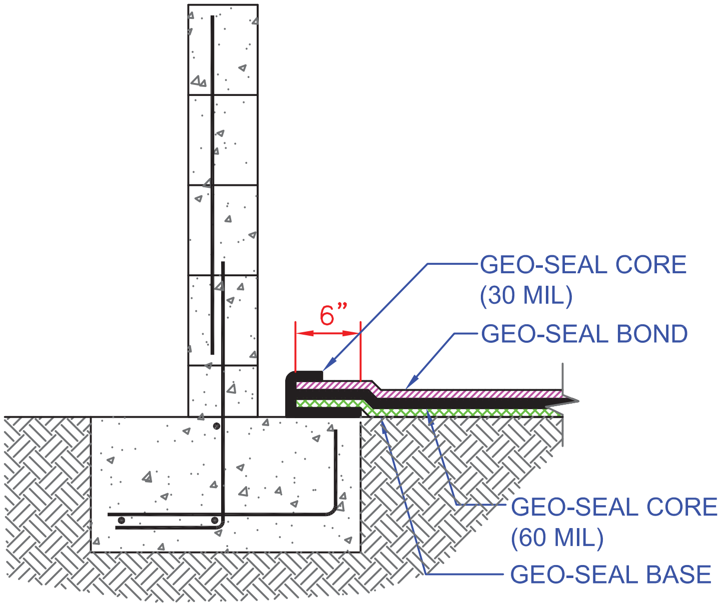

STEP 4

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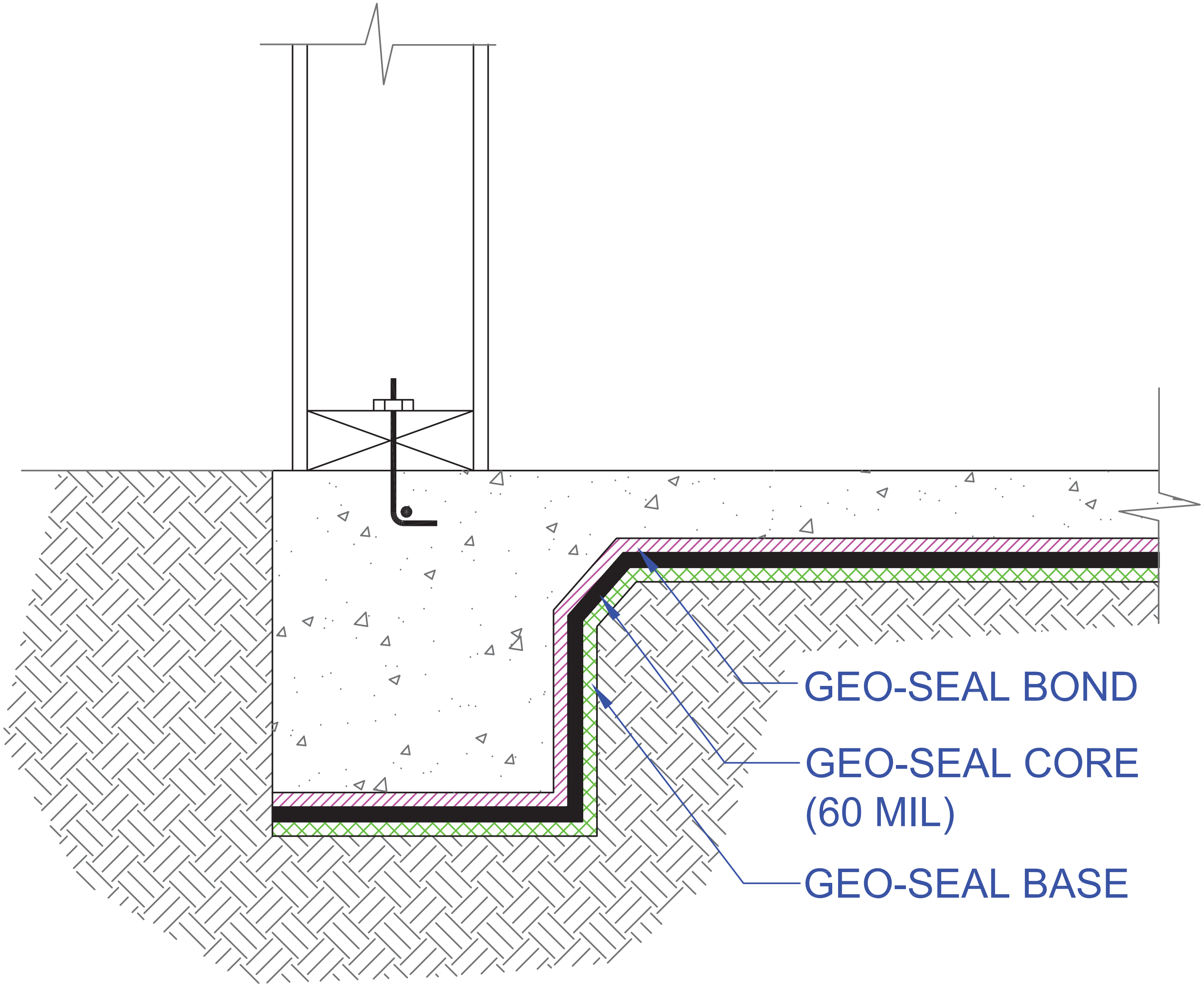
Vapor Intrusion Barrier

DATE

SCALE

TITLE

TERMINATION SEQUENCE



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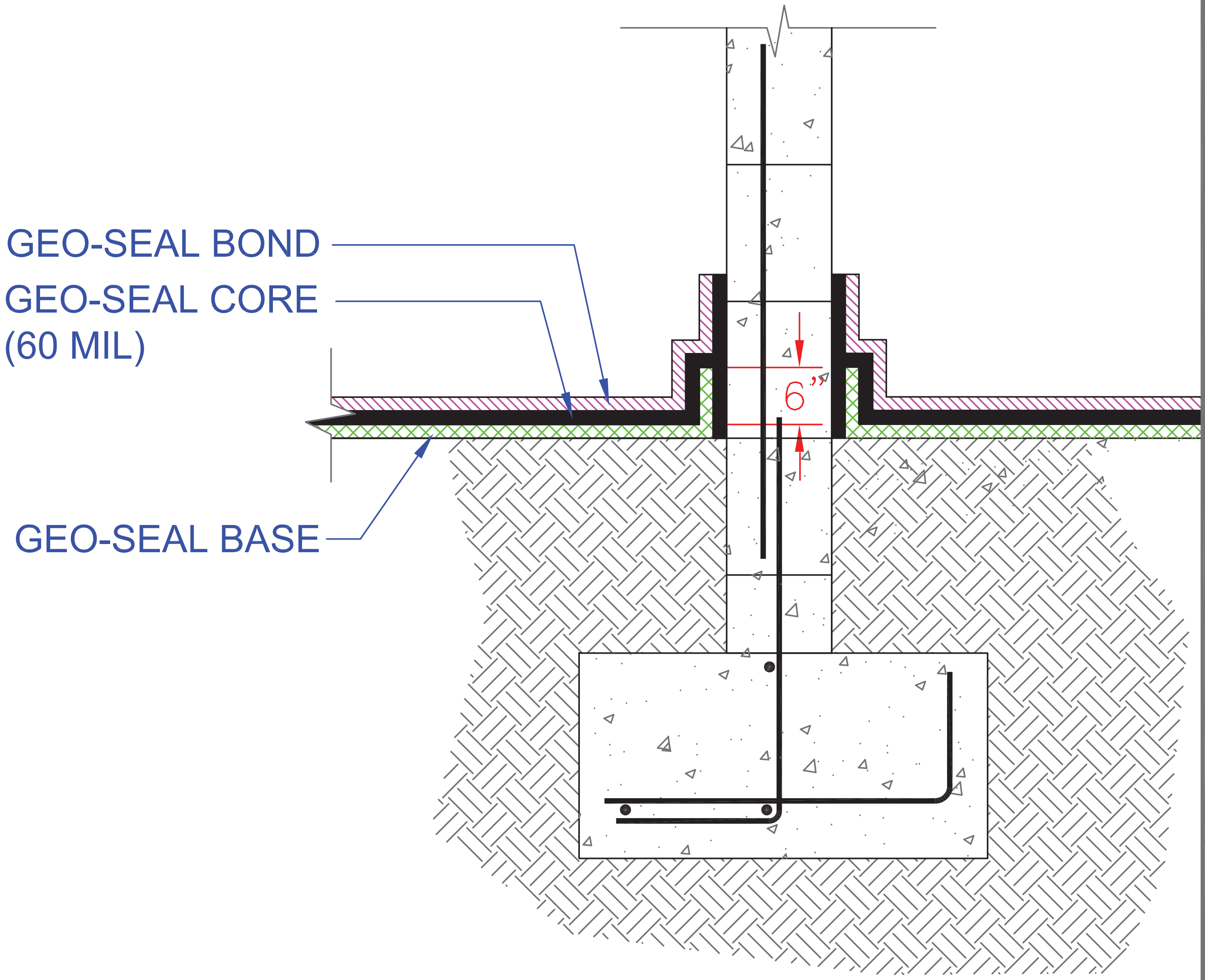
DATE

SCALE

TITLE

UNDER FOOTING DETAIL



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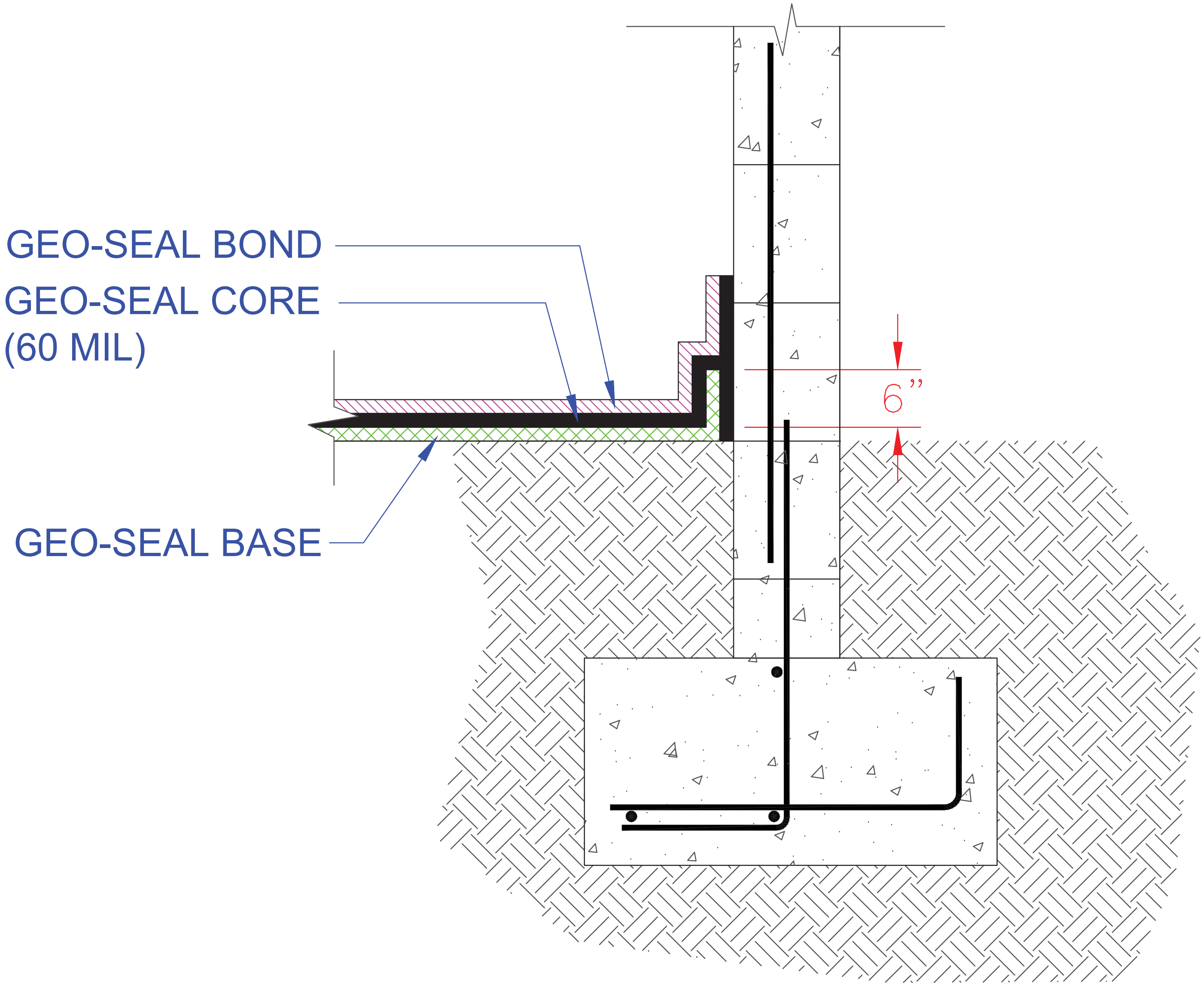
SCALE

TITLE

VERTICAL TERMINATION DETAIL



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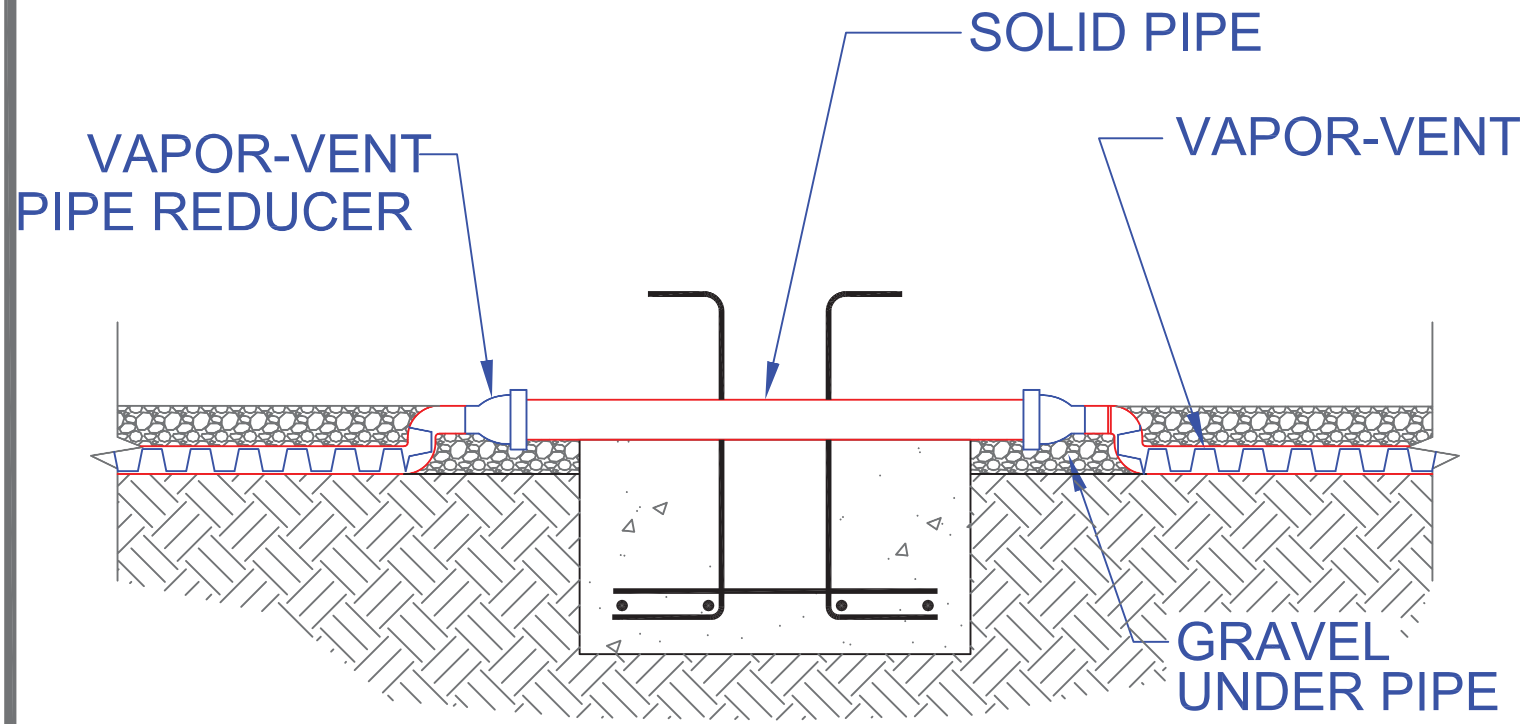
Vapor Intrusion Barrier

DATE

SCALE

TITLE

VERTICAL TERMINATION DETAIL



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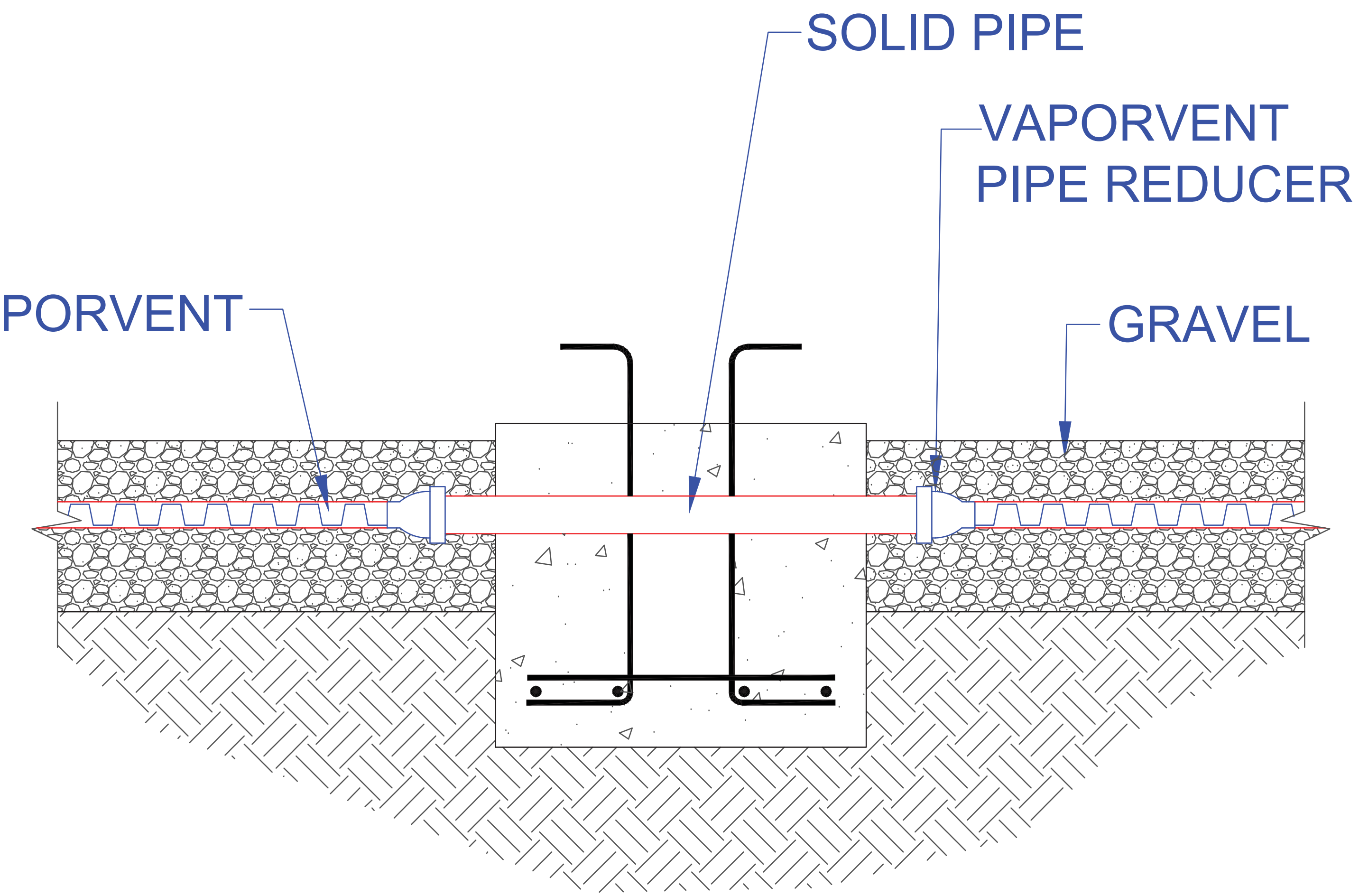
SCALE

TITLE

VAPOR-VENT
OVER FOOTING



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Vapor Intrusion Barrier

DATE

SCALE

TITLE

VAPORVENT THROUGH FOOTING

ALAMEDA COUNTY
DEPT. OF ENVIRONMENTAL HEALTH
Dilan Roe, Chief of Land and Water Division

LOCAL OVERSIGHT PROGRAM
OF HAZARDOUS MATERIALS RELEASES
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502
(510) 567-6700

February 24, 2022

THE PHOENIX REDEVELOPMENT CORRECTIVE ACTION PLAN

801 Pine Street
Oakland, CA 94607
Cleanup Program Site Case No. RO0003269

Summary – Alameda County Department of Environmental Health (ACDEH) is providing oversight of environmental investigation and cleanup activities in support of The Phoenix redevelopment project at 801 Pine Street in Oakland (Site). This fact sheet provides information on proposed actions to cleanup contamination at the Site and engineering controls that will be used to protect the health of the community and workers during Site development.

Site Background – The 4.6-acre Site consists of a vacant lot covered with a concrete slab. Historically, the Site has been used for industrial operations including iron fabrication, fireworks manufacturing, and auto parts manufacturing. In 1994, the property was purchased by Caltrans and used for storage of construction material. Construction activities were also conducted in the southwestern corner of the Site to support the realignment of I-880 and the associated frontage road.

Site Redevelopment – Urban Designs LLC owns the Site and Holliday Development is the developer. Holliday Development has received entitlements to subdivide the Site into four parcels and develop it into multi-story mixed-use affordable housing.

Community Meeting

If you are interested in this project, you are invited to attend an electronic public meeting to learn more about Site conditions and the cleanup actions, discuss community protection measures, and answer questions.

When: Tuesday, March 8, 2022
Time: 6:30 to 7:30 p.m.
Join via Zoom: https://tinyurl.com/801Pine
Join by Phone: Dial 1-669-900-9128 and enter meeting 844 1198 8357#

(Please contact Tracy Craig at 510-334-4866 or tracy@craig-communications.com if you need assistance accessing the meeting.)

Development will begin with Parcel 1, which will provide 101 units of affordable housing with 50 units for formerly unsheltered families. The development will also include offices for supportive services and laundry facilities for future residents. Construction at Parcel 1 is anticipated to begin in May 2022.

Site Investigations – Environmental investigations have found elevated levels of lead in shallow soil and solvent vapors in soil gas (the air in between soil particles) at the Site. Holliday Development did not contaminate the Site but is responsible for cleaning up the property to support development.

Site Cleanup Plan – In 2020, Holliday Development prepared a *Corrective Action Plan* (CAP) which included the following measures to address contamination found at the Site:

- Excavating shallow soils across the site to remove shallow lead impacts and prepare for redevelopment construction
- Placing lead-impacted soil into the bottom of an excavation adjacent to the Frontage Road sound wall and backfilling the remaining excavation with clean soil
- Capping the area of lead-impacted soil with asphalt/concrete roadways to act as a protective cover over the impacted soil
- Installing vapor intrusion mitigation and migration engineering controls including a sub-slab vapor barrier and venting system beneath the planned buildings to prevent petroleum products and solvents from entering indoor air
- Installing plugs in new utility trenches to prevent off-Site migration of impacted soil vapor
- Implementing administrative and institutional controls including long-term monitoring and management of the vapor barriers and the cover material for the lead-impacted soil.

Community Protection Measures – Before environmental work can begin, ACDEH requires the preparation of a *Corrective Action Implementation Plan* (CAIP) that describes construction activities and engineering techniques to protect the health of the community and workers from exposure to contaminated soil and dust during Site development. Measures that will be implemented for this Site include:

- Implementation of a Soil and Groundwater Management Plan with protocols for handling and management of contaminated soil during Site development
- Controlling dust during soil moving activities by using water and covering soil stockpiles
- Monitoring noise levels during Site development activity and reducing equipment speeds or using noise mufflers, as needed
- Performing real-time perimeter air monitoring during soil disturbing work
- Cleaning truck tires and undercarriages to prevent track out of contaminated soil for any soil that is removed from the Site
- Following the City of Oakland approved truck route for any soil that is removed from the Site
- Using flaggers and traffic signage to safely manage construction-related traffic
- Installing signage that includes a phone number for more information on existing Site fencing

Next Steps – ACDEH will host a community meeting on March 8, 2022 to provide an overview of the environmental cleanup work in the CAP and the community and worker protection measures being developed for the CAIP. Please see the Community Meeting information box on the first page for more information on the meeting. ACDEH will incorporate input from the meeting into the Site development plans, as appropriate.

Environmental work will not begin until ACDEH has approved the CAP and CAIP. The developer anticipates that work will begin at Parcel 1 in May 2022 and environmental work will be performed at the same time as redevelopment construction. ACDEH will send out a work notice prior to environmental work starting.

For More Information – The CAP, investigation results and additional documents associated with the cleanup of this Site can be viewed online at the State Water Resources Control Board's GeoTracker website at:

https://geotracker.waterboards.ca.gov/profile_report?global_id=T10000011072

For more information about the corrective action process or related documents, how to access the virtual community meeting or general Site questions, please contact the following individuals:

- Drew York, ACDEH Case Manager
  510-639-1276
  Andrew.York@acgov.org
- Tracy Craig, Community Relations
  510-334-4866 (24/7)
  tracy@craig-communications.com

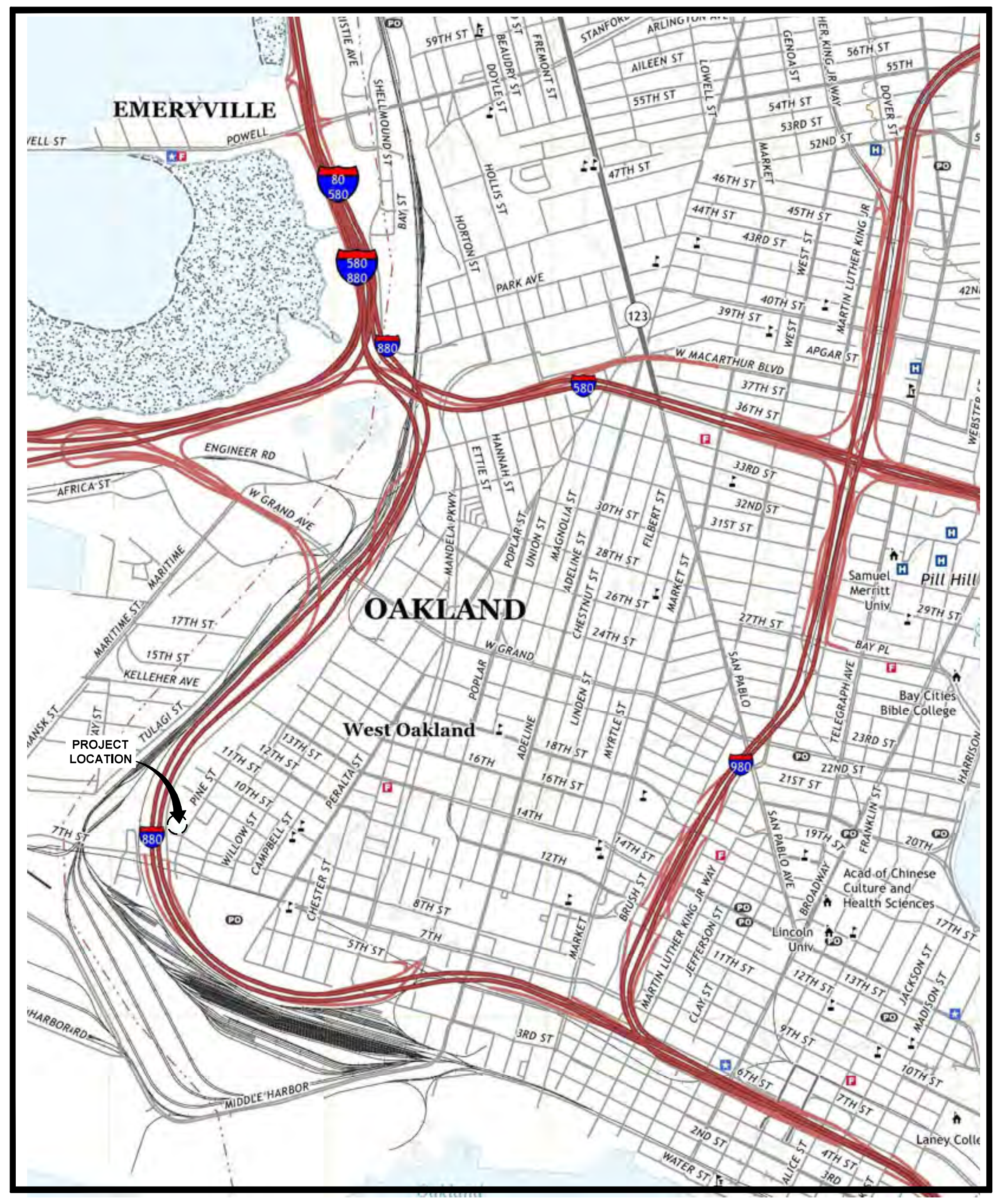
NOT ISSUED FOR CONSTRUCTION

REMEDIAL SOIL EXCAVATION PLAN

CORRECTIVE ACTION IMPLEMENTATION PLAN
HOLLIDAY DEVELOPMENT, LLC

THE PHOENIX
801 PINE STREET
OAKLAND, CALIFORNIA

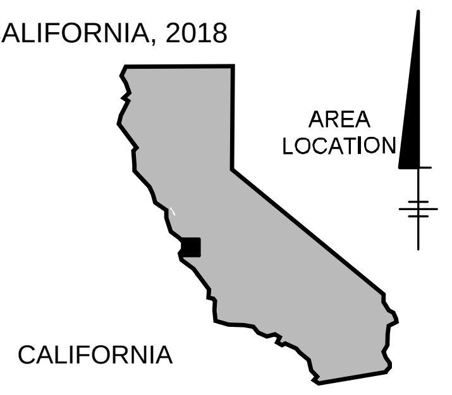
MARCH 21, 2022



REFERENCE: BASE MAP USGS 7.5 MIN. TOPO. QUAD., OAKLAND WEST, CALIFORNIA, 2018

LOCATION MAP

0 2000' 4000'
GRAPHIC SCALE



KEY CONTACTS:

DEVELOPER:
Holliday Development, LLC
Jamie Hiteshew
(510) 547-2122
Mark Trainer
(510) 588-5136
1500 Park Avenue, Suite 100
Emeryville, CA 94608

GENERAL CONTRACTOR:
Cannon Constructors North, Inc.
Michael W. Adler
(415) 692-3250
Ben Boyd
(415) 546-5500 x248
1245 Nimitz Avenue, Building 680
Vallejo, CA 94592

ENGINEER:
Terraphase Engineering, Inc.
Principal Geotechnical Engineer,
Jeff Raines, P.E.
(510) 645-1853
1300 Clay Street, Suite 1000
Oakland, CA 94612

ENVIRONMENTAL CONSULTANT:
P&D Environmental, Inc.
Paul King, P.G.
(510) 658-6916
55 Santa Clara Avenue, Suite 240
Oakland, CA 94610

INDEX TO DRAWINGS

P&D ENVIRONMENTAL, INC.
55 Santa Clara Avenue, Suite 240
Oakland, CA 94610

DRAWN BY: SJC
REVIEWED BY: PHK
APPROVED BY: JR
SCALE: AS SHOWN
DATE: 3/21/2022
PROJECT NO: 0772

SHEET NO:
1

THE PHOENIX
URBAN DESIGNS, LLC
HOLLIDAY DEVELOPMENT, LLC
801 PINE STREET, OAKLAND, CA

COVER SHEET

P&D Environmental, Inc.
55 Santa Clara Avenue, Suite 240
Oakland, CA 94610
(510) 658-6916

RO 3269

LICENSED PROFESSIONAL

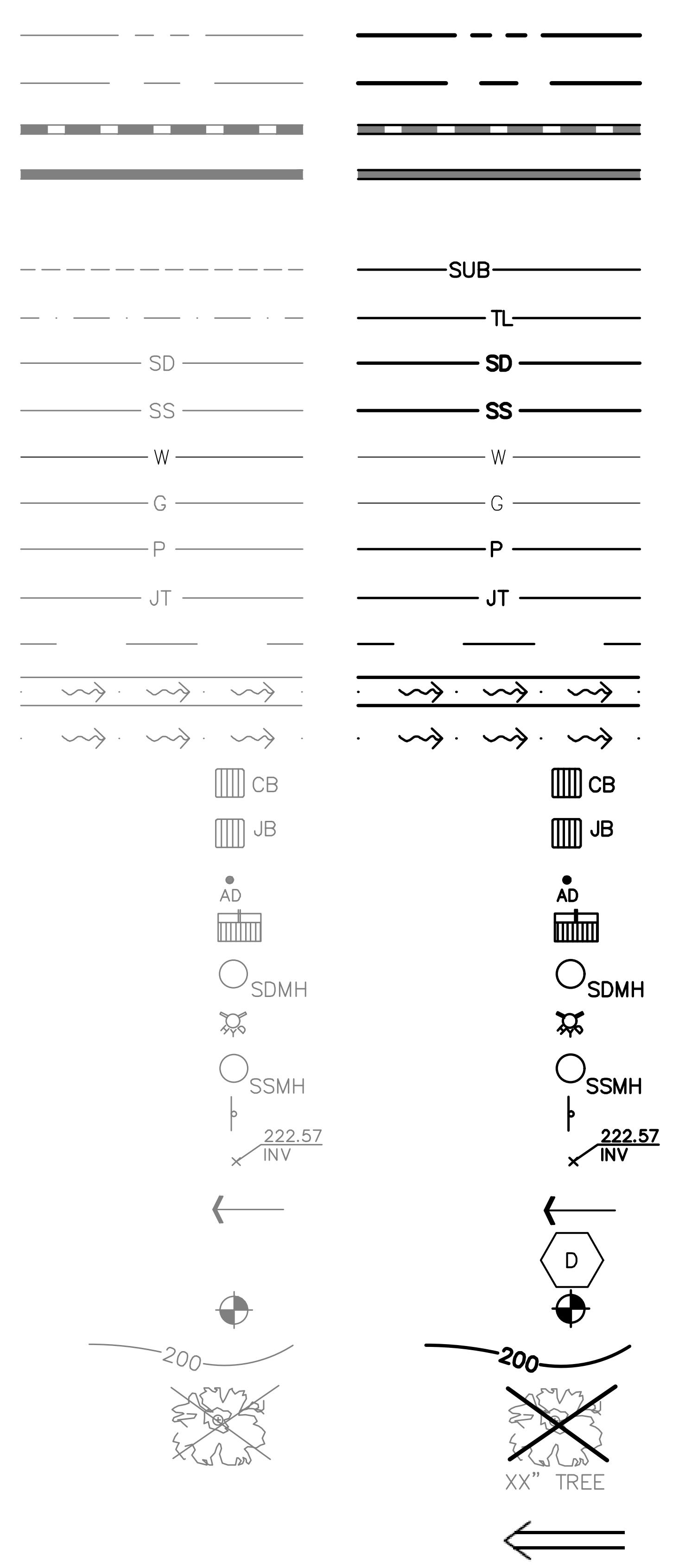
SIGNATURE DATE

REVISION HISTORY

NO.	DESCRIPTION	DATE	APPROVED

SUPERSEDED: SEE WORD DOCUMENT

LEGEND



DESCRIPTION

- BOUNDARY
- PROPERTY LINE
- RETAINING WALL
- LANDSCAPE RETAINING WALL
- RAINWATER TIGHTLINE
- SUBDRAIN LINE
- TIGHTLINE
- STORM DRAIN LINE
- SANITARY SEWER LINE
- WATER LINE
- GAS LINE
- PRESSURE LINE
- JOINT TRENCH
- SET BACK LINE
- CONCRETE VALLEY GUTTER
- EARTHEN SWALE
- CATCH BASIN
- JUNCTION BOX
- AREA DRAIN
- CURB INLET
- STORM DRAIN MANHOLE
- FIRE HYDRANT
- SANITARY SEWER MANHOLE
- STREET SIGN
- SPOT ELEVATION
- FLOW DIRECTION
- DEMOLISH/REMOVE
- BENCHMARK
- CONTOURS
- TREE TO BE REMOVED
- OVERLAND RELEASE

ABBREVIATIONS

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
ACC	ACCESSIBLE
AD	AREA DRAIN
BC	BEGINNING OF CURVE
B & D	BEARING & DISTANCE
BM	BENCHMARK
BW/FG GRADE	BOTTOM OF WALL/FINISH
CB	CATCH BASIN
C & G	CURB AND GUTTER
℄	CENTER LINE
CPP	CORRUGATED PLASTIC PIPE (SMOOTH INTERIOR)
CO	CLEANOUT
COTG	CLEANOUT TO GRADE
CONC	CONCRETE
CONST	CONSTRUCT or –TION
CONC COR	CONCRETE CORNER
CY	CUBIC YARD
D	DIAMETER
DI	DROP INLET
DIP	DUCTILE IRON PIPE
EA	EACH
EC	END OF CURVE
EG	EXISTING GRADE
EL	ELEVATIONS
EP	EDGE OF PAVEMENT
EQ	EQUIPMENT
EW	EACH WAY
(E)	EXISTING
FC	FACE OF CURB
FF	FINISHED FLOOR
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FS	FINISHED SURFACE
G	GAS
GA	GAGE OR GAUGE
GB	GRADE BREAK
HDPE	HIGH DENSITY CORRUGATED POLYETHYLENE PIPE
HORIZ	HORIZONTAL
HI PT	HIGH POINT
H&T	HUB & TACK
ID	INSIDE DIAMETER
INV	INVERT ELEVATION
JB	JUNCTION BOX
JT	JOINT TRENCH
JP	JOINT UTILITY POLE
L	LENGTH
LNDG	LANDING

LF	LINEAR FEET
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MON.	MONUMENT
(N)	NEW
NO.	NUMBER
NTS	NOT TO SCALE
O.C.	ON CENTER
O/	OVER
(PA)	PLANTING AREA
PED	PEDESTRIAN
PIV	POST INDICATOR VALVE
PSS	PUBLIC SERVICES EASEMENT
⅊	PROPERTY LINE
PP	POWER POLE
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RIM	RIM ELEVATION
RW	RAINWATER
R/W	RIGHT OF WAY
S	SLOPE
S.A.D.	SEE ARCHITECTURAL DRAWINGS
SAN	SANITARY
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SHT	SHEET
S.L.D.	SEE LANDSCAPE DRAWINGS
SPEC	SPECIFICATION
SPD	SEE PLUMBING DRAWINGS
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
ST.	STREET
STA	STATION
STD	STANDARD
STRUCT	STRUCTURAL
T	TELEPHONE
TC	TOP OF CURB
TEMP	TEMPORARY
TP	TOP OF PAVEMENT
TW/FG	TOP OF WALL/FINISH GRADE
TYP	TYPICAL
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
W/	WITH
W, WL	WATER LINE
WM	WATER METER
WWF	WELDED WIRE FABRIC

GENERAL NOTES

1. THE TERM "SITE" AS USED IN THESE DRAWINGS, REFERS TO THE PROPERTY LOCATED AT 801 PINE STREET IN OAKLAND, CALIFORNIA.
2. REMEDIATION CONTRACTOR (HEREIN REFERRED TO AS "CONTRACTOR") REFERS TO ALL CONTRACTORS RESPONSIBLE FOR COMPLETION OF THE ACTIVITIES SHOWN HEREIN. "ENGINEER" REFERS TO TERRAPHASE ENGINEERING, INC. "ENVIRONMENTAL CONSULTANT" REFERS TO P&D ENVIRONMENTAL, INC.
3. IN ADDITION TO THE REQUIREMENTS PROVIDED ON THESE DRAWINGS, THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS SET FORTH IN THE 2022 SOIL AND GROUNDWATER MANAGEMENT PLAN (SGMP) FOR THE SITE (P&D 2022). ALL SUPERVISORS AND FOREMEN SHALL SIGN A CERTIFICATION STATEMENT INDICATING THAT THEY HAVE READ THE SGMP, UNDERSTAND ITS CONTENTS, AND SHALL ADHERE AND HAVE ALL PERSONNEL UNDER THEIR SUPERVISION ADHERE TO ALL PROCEDURES CONTAINED THEREIN.
4. THE DECEMBER 1, 2017 SGMP THAT IS AVAILABLE ON GEOTRACKER IS SUPERSEDED BY THE 2022 SGMP.
5. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE CITY OF OAKLAND DESIGN GUIDELINES AND STANDARDS AND THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) 2018 STANDARD SPECIFICATIONS ("STATE STANDARD SPECIFICATIONS") AND STANDARD PLANS, WHICH ARE HEREBY INCORPORATED INTO THESE PLANS BY RERFERENCE, UNLESS SPECIFIED OTHERWISE.
6. CONTRACTOR SHALL ADHERE TO THE TRAFFIC SEQUENCING PLAN THAT IS PROVIDED AS AN APPENDIX TO THE 2022 SGMP AND ANY APPLICABLE REQUIREMENTS SET FORTH IN THE MANUAL OF UNIFORM TRAFFIC DEVICES (MUTCD) AND AS DIRECTED BY THE CITY ENGINEER. CONTRACTOR SHALL ADHERE TO THE SGMP DURING SITE REMEDIATION AND ASSOCIATED PREPARATION AND DEMOBILIZATION.
7. CAUTION IS TO BE EXERCISED FOR THE PRESENCE AND SAFETY OF HOMELESS PEOPLE LOCATED AT THE PERIMETER OF AND IN THE IMMEDIATE VICINITY OF THE SITE.
8. CONTRACTOR MUST ADHERE TO ALL PERMIT REQUIREMENTS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL FIELD DIMENSIONS AND ALL SITE CONDITIONS BEFORE STARTING WORK.
10. MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT ADJACENT AREAS AND PROPERTIES, PUBLIC AND PRIVATE, AT ALL TIMES DURING REMEDIATION ACTIVITIES.
11. CONTRACTOR TO NOT EXCAVATE BELOW FOOTING OF SOUND BARRIER WALL THAT IS LOCATED ON THE WEST SIDE OF THE SITE.
12. CONTRACTOR SHALL USE REASONABLE MITIGATION MEASURES TO MINIMIZE IMPACTS TO ADJACENT PROPERTIES TO THE EXTENT PRACTICABLE. POTENTIAL IMPACTS THE CONTRACTOR MUST ADDRESS INCLUDE IMPACTS FROM DUST, NOISE, CONSTRUCTION VIBRATIONS, AND ODORS. CONTRACTOR MUST NOT RESTRICT ACCESS TO NEIGHBORING PROPERTIES.
13. CONTRACTOR SHALL CONFIRM A CONSTRUCTION SCHEDULE WITH THE GENERAL CONTRACTOR AND ENVIRONMENTAL CONSULTANT AT LEAST 72-HOURS PRIOR TO ANY WORK AT THE SITE. THE PROPOSED SCHEDULE SHALL INCLUDE ESTIMATED START DATE, DURATION, AND COMPLETION TIMES FOR EACH INCLUDED ACTIVITY. CHANGES TO THIS SCHEDULE SHALL BE COMMUNICATED TO THE ENVIRONMENTAL CONSULTANT AT LEAST 24 WORKING HOURS (MONDAY THROUGH FRIDAY) BEFORE PROPOSED START OF WORK.
14. CONTRACTOR SHALL ADHERE TO HOURS OF OPERATION FOR CONSTRUCTION PERMITTED BY THE CITY OF OAKLAND.
15. CONTRACTOR SHALL PHOTO DOCUMENT ALL STRUCTURES LOCATED WITHIN 100 FEET OF ANY EXCAVATION PRIOR TO THE BEGINNING OF EXCAVATION AND PROVIDE COPIES OF PHOTO DOCUMENTATION TO THE GENERAL CONTRACTOR.

GENERAL SCOPE OF WORK

1. THE WORK SCOPE IN THESE DRAWINGS AND IN THE 2022 SGMP SUPERSEDES THE WORK SCOPE IDENTIFIED IN THE CORRECTIVE ACTION PLAN FOR THE SITE (P&D 2/4/20).
2. SITE TO BE PREPARED PRIOR TO REMEDIATION BY OTHERS BY INSTALLING A PERIMETER FENCE AND TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.
3. STORM WATER POLLUTION PREVENTION PLAN (SWPPP) EROSION AND SEDIMENT CONTROLS, FIBER ROLLS AND OTHER SWPPP ELEMENTS TO BE MAINTAINED BY GENERAL CONTRACTOR DURING SITE REMEDIATION IN ACCORDANCE WITH THE PROJECT DRAWINGS AND ANY OTHER STATE AND LOCAL REGULATIONS.
4. PERIMETER FENCE TO BE MAINTAINED BY GENERAL CONTRACTOR DURING SITE REMEDIATION.
5. ANY EXISTING SOIL GAS WELLS LOCATED WITHIN THE AREA OF THE SITE REMEDIATION WILL BE DESTROYED BY THE ENVIRONMENTAL CONSULTANT PRIOR TO THE BEGINNING OF SITE REMEDIATION. ANY EXISTING SOIL GAS WELLS THAT HAVE NOT BEEN DESTROYED THAT ARE LOCATED ON PARCELS 2, 3 OR 4 WILL BE MARKED WITH A RISER OR OTHER SIMILAR METHOD FOR EASY IDENTIFICATION AND WILL BE PROTECTED DURING SITE REMEDIATION.
6. PERIMETER AIR MONITORING FOR DUST IS REQUIRED FOR EXCAVATION OF LEAD-IMPACTED MATERIAL LOCATED BENEATH THE CONCRETE SURFACE COVER AND ALL CONSOLIDATION OF LEAD-IMPACTED MATERIAL AND ANY REMEDIATION-RELATED ACTIVITIES THAT EXPOSE LEAD-IMPACTED MATERIALS TO THE ATMOSPHERE. AIR MONITORING WILL BE PERFORMED IN ACCORDANCE WITH THE SGMP. AIR MONITORING CAN BE DISCONTINUED UPON COMPLETION OF EXCAVATION AND COMPLETION OF OFFSITE DISPOSAL OR ONSITE CONSOLIDATION AND COMPLETE COVERING OF LEAD-IMPACTED SOIL.
7. GENERAL CONTRACTOR TO PROVIDE A CONSULTANT TO PROVIDE PERIMETER AIR MONITORING DURING SITE REMEDIATION.
8. IN THE EVENT THAT A WATER SUPPLY WELL IS LOCATED AT THE SITE DURING EXCAVATION, STOP EXCAVATION IN THE IMMEDIATE VICINITY OF THE WELL AND NOTIFY THE GENERAL CONTRACTOR AND THE ENVIRONMENTAL CONSULTANT. DO NOT PERFORM ADDITIONAL EXCAVATION IN THE IMMEDIATE VICINITY (10-FOOT RADIUS) OF THE WATER SUPPLY WELL UNTIL AUTHORIZED BY THE GENERAL CONTRACTOR AND THE ENVIRONMENTAL CONSULTANT. EXCAVATION CAN CONTINUE AT OTHER LOCATIONS PENDING A RESPONSE FROM THE GENERAL CONTRACTOR AND THE ENVIRONMENTAL CONSULTANT.
9. LOCATE EXISTING UTILITIES IN AND AROUND THE CONSOLIDATION TRENCH. VERIFY THAT ALL UTILITIES HAVE BEEN DE-ENERGIZED OR CUT-OFF FROM THEIR SUPPLY, AS APPROPRIATE. ALL CONDUITS SHOULD BE PLUGGED OR CAPPED IN ACCORDANCE WITH THE 6/16/20 GEOTECHNICAL REPORT FOR THE SITE. UTILITIES WILL NOT BE RECONNECTED.
10. REMOVE SITE FEATURES AND UTILITIES AS NEEDED TO ALLOW SAFE EXCAVATION OF THE SOILS. REMOVE UTILITIES WITHIN THE EXCAVATION AREAS BEFORE OR DURING EXCAVATION OF SITE SOILS.
11. THE WORK DESCRIBED HEREIN INCLUDES THE FOLLOWING:
    a. REMOVE AND RECYCLE OFFSITE THE CONCRETE FROM THE PROPOSED FIRE LANE SHOWN ON THE FIGURES REFERENCED ABOVE (26 FEET WIDE), PLUS AN ADDITIONAL 12 FEET ON EITHER SIDE OF THE FIRE LANE (A TOTAL WIDTH OF APPROXIMATELY 50 FEET).
    b. EXCAVATE LEAD-IMPACTED MATERIAL THAT IS LOCATED DIRECTLY BENEATH THE CONCRETE COVER AND STOCKPILE IT TEMPORARILY ON PARCEL 1.
    c. EXCAVATE A TRENCH FROM SHOREY STREET TO PARCEL 2 IN THE FOOTPRINT OF THE FIRE LANE TO A DEPTH OF APPROXIMATELY 8 FEET FOR ONSITE LEAD-IMPACTED MATERIAL CONSOLIDATION. SOIL REMOVED FROM THE TRENCH HAS PREVIOUSLY BEEN SAMPLED WITH SOIL BORING SAMPLES AND HAS BEEN IDENTIFIED BY ACDEH AS MATERIAL THAT CAN BE REUSED ONSITE. THE SOIL THAT IS REMOVED FROM THE TRENCH WILL BE TEMPORARILY STORED ON PARCEL 2. THE ENDS OF THE TRENCH WILL BE LOCATED APPROXIMATELY 10 FEET FROM THE PROPERTY LINE AT SHOREY STREET AND APPROXIMATELY 10 FEET FROM THE BOUNDARY WITH PARCEL 2.
    d. ALL STOCKPILES ARE TO BE COVERED AT THE END OF EACH DAY IN ACCORDANCE WITH THE SGMP.
    e. PLACE THE LEAD-IMPACTED SOIL THAT WAS TEMPORARILY STORED ON PARCEL 1 INTO THE TRENCH AND COMPACT IT IN ACCORDANCE WITH THE REQUIREMENTS OF THE GEOTECHNICAL REPORT. PLACE ORANGE DEMARCATION MATERIAL OVER THE COMPACTED SOIL WHEN LEAD-IMPACTED MATERIAL CONSOLIDATION IS COMPLETED.
    f. ONCE THE TEMPORARILY STORED LEAD-IMPACTED MATERIAL IS CONSOLIDATED IN THE TRENCH, REMOVE THE REMAINING CONCRETE COVER FOR PARCEL 1. RECYCLE THE CONCRETE OFFSITE, AND CONSOLIDATE THE UNDERLYING LEAD-IMPACTED MATERIAL IN THE ONSITE TRENCH AS THE LEAD-IMPACTED MATERIAL BECOMES EXPOSED. THE EXTENT OF CONCRETE REMOVAL IS DEFINED AS FOLLOWS:
        i. NORTH - THE BOUNDARY WITH PARCEL 2.
        ii. EAST – THE PARCEL 1 PROPERTY LINE ALONG PINE STREET.
        iii. SOUTH – THE PARCEL 1 PROPERTY LINE ALONG SHOREY STREET.
        iv. WEST - THE WESTERN PROPERTY LINE FOR PARCEL 1, WHICH IS LOCATED APPROXIMATELY 5.7 FEET FROM THE SOUND BARRIER WALL AT THE SOUTHWEST CORNER OF THE PROPERTY AND WHICH NARROWS TO APPROXIMATELY 2.2 FEET FROM THE SOUND BARRIER WALL AT A LOCATION APPROXIMATELY 55 FEET NORTH OF THE SOUTHWESTERN PROPERTY BOUNDARY.
    g. ANY LEAD-IMPACTED MATERIALS THAT ARE PLACED INTO THE TRENCH FOR ONSITE CONSOLIDATION WILL BE COVERED AT THE END OF EACH DAY PENDING FINAL COVER WITH CLEAN SOIL.
    h. DEMOLISH AND REMOVE CONCRETE IN A MANNER TO KEEP CONCRETE DEMOLITION AND REMOVAL EQUIPMENT AND TRUCKS ON CONCRETE SURFACES AT ALL TIMES.
    i. CONCRETE FOOTINGS AND STRUCTURES AND UTILITIES THAT ARE ENCOUNTERED BENEATH THE SITE CONCRETE SLAB THAT EXTEND BELOW THE DEPTH OF LEAD-IMPACTED SOIL REMOVAL WILL REMAIN IN PLACE FOR REMOVAL AND RECYCLING BY THE PROJECT GRADING CONTRACTOR FOLLOWING THE COMPLETION OF LEAD-IMPACTED SOIL REMEDIATION.
    j. WHEN ALL OF THE LEAD-IMPACTED MATERIAL IS CONSOLIDATED IN THE TRENCH, PLACE ORANGE DEMARCATION MATERIAL OVER IT AND COVER IT WITH THE CLEAN MATERIAL THAT WAS STOCKPILED ON PARCEL 2. THE REMAINING CLEAN MATERIAL ON PARCEL 2 WILL BE TEMPORARILY LEFT ON PARCEL 2 PENDING POST-REMEDIATION SITE COMPACTION AND GRADING.
12. STOCKPILING OF LEAD-IMPACTED MATERIALS, WITH THE EXCEPTION OF THE LEAD-IMPACTED MATERIALS THAT ARE TEMPORARILY STOCKPILED DURING TRENCH EXCAVATION BENEATH THE PROPOSED FIRE LANE, IS NOT ALLOWED.

AIR MONITORING AND SURVEYS

1. GENERAL CONTRACTOR SHALL RETAIN A THIRD-PARTY AIR MONITORING SPECIALIST TO MONITOR DUST AT THE SITE PERIMETER DURING IMPLEMENTATION OF SOIL REMEDIATION AND MITIGATION ACTIVITIES AT LOCATIONS SHOWN ON THE DRAWINGS. MONITORING SHALL BE CONDUCTED DAILY DURING EXCAVATION, BACKFILLING, AND OTHER EARTHWORK ACTIVITIES INVOLVING LEAD-IMPACTED SOIL. SITE REMEDIATION WORK SHALL BE STOPPED IMMEDIATELY AND MITIGATION MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE 2022 SGMP IF THE ACTION LEVELS PROVIDED IN THE SGMP ARE EXCEEDED. THE MONITORING SPECIALIST SHALL SUBMIT DAILY MONITORING REPORTS TO THE ENVIRONMENTAL CONSULTANT.
2. THE GENERAL CONTRACTOR SHALL CONDUCT SURVEYS TO DEFINE THE BOUNDARIES OF EXCAVATED AREAS ASSOCIATED WITH SITE REMEDIATION AND THE HORIZONTAL AND VERTICAL LOCATIONS OF CONSOLIDATION FOR ANY LEAD-IMPACTED MATERIALS THAT ARE CONSOLIDATED ONSITE.
3. NO EXCAVATION SHALL BE CONDUCTED IF SUSTAINED WINDS EXCEED 20 MILES PER HOUR DURING ANY 1-MINUTE PERIOD, OR IF ANY GUST WITHIN THE HOUR EXCEEDS 40 MILES PER HOURS.
4. THE AIR MONITORING SUBCONTRACTOR WILL MONITOR WIND SPEEDS AT 5 FEET ABOVE THE GROUND SURFACE.
5. IF VISIBLE DUST IS PRESENT AT THE PROPERTY BOUNDARY, ALL WORK WILL STOP UNTIL THE VISIBLE DUST IS MITIGATED.

DRAWN BY:	SJC
REVIEWED BY:	PHK
APPROVED BY:	
SCALE:	AS SHOWN
DATE:	3/21/2022
PROJECT NO:	0772

SHEET NO:
2

THE PHOENIX
URBAN DESIGNS, LLC
HOLLIDAY DEVELOPMENT, LLC
801 PINE STREET, OAKLAND, CA

GENERAL NOTES AND SPECIFICATIONS

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RO 3269

LICENSED PROFESSIONAL

SIGNATURE
DATE

REVISION HISTORY

NO.	DESCRIPTION	DATE	APPROVED

SUPERSEDED: SEE WORD DOCUMENT

EXCAVATION REQUIREMENTS

1. SITE SOILS WILL BE EXCAVATED IN CLOSE PROXIMITY TO ADJACENT PROPERTIES. TO REDUCE THE POTENTIAL FOR LATERAL DEFORMATIONS IN THE SOILS AND SETTLEMENT OF ADJACENT AREAS, THE CONTRACTOR WILL BE REQUIRED TO EITHER SHORE, SLOPE, OR BENCH THE EXCAVATION.
2. SLOPING WILL BE REQUIRED AT 1.5:1 OR AS DETERMINED AND DIRECTED BY OSHA EXCAVATION COMPETENT PERSON AND THE GEOTECHNICAL ENGINEER.
3. GROUNDWATER WILL LIKELY BE ENCOUNTERED AT AN APPROXIMATE DEPTH OF 10 FEET BELOW EXISTING GRADE, BUT GROUNDWATER LEVELS MAY BE HIGHER OR LOWER. CONTRACTOR SHALL EXCAVATE AN EXPLORATORY POTHOLE WITHIN THE FOOTPRINT OF THE FIRE LANE TO DETERMINE THE DEPTH TO GROUNDWATER AND WILL EXCAVATE THE TRENCH FOR ONSITE LEAD-IMPACTED MATERIAL CONSOLIDATION TO A DEPTH OF ONE FOOT ABOVE THE STATIC WATER LEVEL THAT IS ENCOUNTERED IN THE EXPLORATORY POTHOLE.
4. LOAD DEMOLISHED CONCRETE DIRECTLY INTO TRUCKS FOR TRANSPORT AND OFFSITE RECYCLING.
5. LOAD SOIL FOR OFFSITE DISPOSAL DIRECTLY INTO TRUCKS FOR TRANSPORT AND OFFSITE DISPOSAL.
6. ONSITE CONSOLIDATION OF LEAD-IMPACTED MATERIALS WILL BE NO DEEPER THAN 8 FEET BELOW EXISTING GRADE, AND WILL BE NO SHALLOWER THAN 1 FOOT BELOW PROJECT FINISH GRADE. AT LOCATIONS WHERE NEW UTILITIES OR NEW FOUNDATION FEATURES MIGHT ENCOUNTER LEAD-IMPACTED MATERIALS THAT ARE CONSOLIDATED ONSITE, A MINIMUM HORIZONTAL AND A MINIMUM VERTICAL DISTANCE OF 1 FOOT OF CLEAN BACKFILL MATERIAL WILL BE MAINTAINED BETWEEN THE NEW UTILITY OR NEW FOUNDATION FEATURE AND LEAD-IMPACTED MATERIAL THAT IS CONSOLIDATED ONSITE.
7. ALL LEAD-IMPACTED MATERIAL THAT IS CONSOLIDATED ONSITE WILL BE PLACED ON ORANGE DEMARCATION CONSTRUCTION FENCE, INCLUDING ON THE SIDES OF THE EXCAVATION WHERE THE LEAD-IMPACTED MATERIALS ARE PLACED. ALL LEAD-IMPACTED MATERIAL THAT IS CONSOLIDATED ONSITE WILL BE COVERED WITH ORANGE DEMARCATION CONSTRUCTION FENCE AT THE COMPLETION OF ONSITE CONSOLIDATION OF LEAD-IMPACTED MATERIAL.
8. AREAS IN THE CONSOLIDATION TRENCH WHERE FUTURE UTILITIES WILL CROSS THE CONSOLIDATION TRENCH WILL BE FILLED USING CLEAN FILL. THE CLEAN FILL IN THE CONSOLIDATION TRENCH WILL MEET THE FOLLOWING REQUIREMENTS:
    a. TRENCHES WILL BE LINED ON THE BOTTOM AND SIDES ONLY WITH ORANGE DEMARCATION CONSTRUCTION FENCE (NOT ON THE TOP).
    b. DETECTABLE METALIZED WARNING TAPE (CALPICO TYPE 2, SETON, OR EQUIVALENT) WILL BE PLACED APPROXIMATELY 6 TO 12 INCHES BELOW THE FINAL ROUGH GRADED SURFACE ON EACH SIDE OF TRENCHES FOR THE ENTIRE LENGTH OF THE CLEAN FILL PORTION OF THE TRENCH.
    c. MARK WITH PAINT ON CONCRETE SURFACES AT THE ENDS OF TRENCHES WHERE CONCRETE IS NOT DEMOLISHED FOR FUTURE TRENCH LOCATION.
    d. CLEAN FILL TRENCH LOCATIONS AND DEPTHS WILL BE SURVEYED BY THE GENERAL CONTRACTOR TO CONFIRM PROPER FUTURE PLACEMENT FOR UTILITIES.
9. THE LOCATIONS WHERE LEAD-IMPACTED MATERIAL IS CONSOLIDATED ONSITE WILL BE SURVEYED HORIZONTALLY AND VERTICALLY BY THE GENERAL CONTRACTOR AND THE SURVEYED LOCATIONS RECORDED ON A SITE MAP THAT WILL BE PROVIDED TO THE ENVIRONMENTAL CONSULTANT.
10. TRANSPORT AND DISPOSE OF EXCAVATED SOIL AND OTHER WASTE IN ACCORDANCE WITH STATE AND FEDERAL LAWS, AT DISPOSAL FACILITIES APPROVED BY THE ENVIRONMENTAL CONSULTANT.
11. BACKFILL AND COMPACT EXCAVATION AREAS AS SPECIFIED IN THE 6/16/20 GEOTECHNICAL REPORT FOR THE PROJECT.
12. ALL STOCKPILES ARE TO BE COVERED AT THE END OF EACH DAY IN ACCORDANCE WITH THE SGMP.
13. ANY LEAD-IMPACTED MATERIALS THAT ARE PLACED INTO THE TRENCH FOR ONSITE CONSOLIDATION WILL BE COVERED AT THE END OF EACH DAY PENDING FINAL COVER WITH CLEAN SOIL.
14. FOLLOWING EXCAVATION OF THE TRENCH FOR ONSITE CONSOLIDATION OF LEAD-IMPACTED MATERIALS, REMOVE CONCRETE STARTING AT PINE STREET AND THEN WORKING NORTHWARDS. KEEP CONCRETE DEMOLITION AND REMOVAL EQUIPMENT AND TRUCKS ON CONCRETE SURFACES AT ALL TIMES.
15. REMOVAL OF FOOTINGS THAT ARE LOCATED OUTSIDE THE FOOTPRINT OF THE TRENCH FOR LEAD-IMPACTED SOIL CONSOLIDATION AND THAT EXTEND BELOW THE DEPTH OF LEAD-IMPACTED SOIL REMOVAL WILL BE MANAGED BY THE GENERAL CONTRACTOR OUTSIDE THE SCOPE OF THE 2022 SGMP AND THIS REMEDIAL SOIL EXCAVATION PLAN FOLLOWING THE COMPLETION OF SITE SOIL REMEDIATION.

HEALTH AND SAFETY

1. PRIOR TO CONTRACTOR MOBILIZATION, THE CONTRACTOR SHALL PREPARE A SITE-SPECIFIC HEALTH AND SAFETY PLAN AND ASSURE THAT ALL CONTRACTOR PERSONNEL HAVE REVIEWED THE PLAN AND WILL ABIDE BY IT. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF THEIR PERSONNEL. ALL PERSONNEL ON SITE SHALL HAVE 'STOP WORK AUTHORITY' AND SHALL BE INFORMED OF THEIR AUTHORITY.
2. ALL CONTRACTORS AND SUBCONTRACTORS SHALL SIGN A CERTIFICATION STATEMENT INDICATING THAT THEY HAVE READ THE SGMP, UNDERSTAND ITS CONTENTS, AND SHALL ADHERE TO ALL PROCEDURES CONTAINED THEREIN.
3. CONTRACTOR SHALL MAINTAIN A COPY OF THE HASP ONSITE DURING ALL PHASES OF THE WORK AND SHALL BE RESPONSIBLE FOR ALL WORKER SAFETY DURING ALL ON-SITE ACTIVITIES.
4. IN THE EVENT AN UNSAFE CONDITION IS DETECTED BY THE CONTRACTOR, SUBCONTRACTOR OR THE ENGINEER, ALL WORK IN THE AREA OF THE UNSAFE CONDITION SHALL BE STOPPED IMMEDIATELY. THE UNSAFE CONDITION SHALL BE RESOLVED BASED ON THE PROVISIONS OF THE HASP.
5. ALL PERSONNEL PERFORMING REMEDIATION WORK AT THE SITE WILL BE 40-HOUR HAZWOPER TRAINED WITH A CURRENT REFRESHER CERTIFICATE AND HAVE HAD A WORK PHYSICAL WITHIN THE PAST 12 MONTHS.
6. THE CONTRACTOR, SUBCONTRACTORS, AND THEIR EMPLOYEES SHALL BE FAMILIAR WITH AND COMPLY WITH OSHA SAFETY REQUIREMENTS FOR HAZWOPER SET FORTH IN THE CODE OF FEDERAL REGULATIONS, TITLE 29, PARTS 1910 AND 1926, AND ALL FEDERAL, STATE, AND LOCAL REGULATIONS, AS APPLICABLE. THE CONTRACTOR SHALL BEAR SOLE RESPONSIBILITY FOR COMPLIANCE WITH THESE REGULATIONS.
7. THE CONTRACTOR SHALL ABIDE BY THE RULES AND REGULATIONS OF THE STATE OF CALIFORNIA CONSTRUCTION SAFETY ORDERS PERTAINING TO EXCAVATIONS AND TRENCHES.
8. GENERATORS, IF USED, SHALL BE PLACED AT A REASONABLE DISTANCE AWAY FROM THE NEIGHBORING PROPERTIES TO MINIMIZE DISTURBANCE.

UTILITIES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES THAT ARE NOT REQUIRED TO BE DEMOLISHED.
2. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF EXISTING UTILITIES TO BE REMOVED WITHIN THE EXCAVATIONS.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITIES WITHIN THE EXCAVATION AREAS AND ADJACENT AREAS PRIOR TO START OF SITE REMEDIATION.
4. LOCATE EXISTING UTILITIES IN AND AROUND THE SITE AND DE-ENERGIZE ELECTRICAL LINES. PLUG OR CAP ALL OTHER UTILITIES WITHIN EXCAVATION AREAS. PLUG OR CAP UTILITY PIPES THAT CONVEY FLUIDS OUTSIDE OF THE EXCAVATION FOOTPRINTS IN ACCORDANCE WITH THE 6/16/20 GEOTECHNICAL REPORT REQUIREMENTS.
5. THE LOCATIONS OF THE UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY OR ACTUAL LOCATIONS. ADDITIONAL UTILITIES MAY EXIST. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT TELEPHONE NUMBER 811 AT LEAST TWO FULL WORKING DAYS PRIOR TO THE START OF WORK.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING APPROPRIATE UTILITIES AND REQUESTING VERIFICATION OF SERVICE POINTS, FIELD VERIFICATION OF LOCATION, SIZE, AND DEPTH FOR ALL THEIR FACILITIES AND TO COORDINATE WORK SCHEDULE.
7. OMISSION OR INCLUSION OF UTILITY ITEMS ON THE DRAWINGS DOES NOT CONSTITUTE NONEXISTENCE OR DEFINITE LOCATION. LOCATION OF THE UTILITIES PROVIDED ON THE PLANS ARE FOR CONTRACTOR'S INFORMATION ONLY AND THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES IN THE FIELD.
8. CONTRACTOR MUST MAKE ALL ATTEMPTS TO LOCATE UTILITIES INCLUDING POTHOLING, IF NECESSARY, PRIOR TO COMMENCING EXCAVATION.
9. WHEN UTILITY LINES NOT KNOWN OR INDICATED ON THE PLANS ARE ENCOUNTERED WITHIN THE AREA OF OPERATIONS, THE CONTRACTOR MUST NOTIFY THE OWNER'S REPRESENTATIVE AND UTILITY OWNER, IF KNOWN, IMMEDIATELY. MEASURES SHALL BE TAKEN TO PROTECT THE UTILITY AND PREVENT DAMAGE TO THE UTILITY FOR UTILITIES LOCATED OUTSIDE OF PROJECT EXCAVATIONS.
10. ALL BURIED UTILITIES LOCATED OUTSIDE OF EXCAVATION FOOTPRINTS WILL BE MANAGED BY THE GENERAL CONTRACTOR OUTSIDE THE SCOPE OF THE 2022 SGMP AND THE REMEDIAL SOIL EXCAVATION PLAN FOLLOWING THE COMPLETION OF ONSITE CONSOLIDATION OF LEAD-IMPACTED MATERIALS.

ENVIRONMENTAL PROTECTION

1. THE CONTRACTOR SHALL SUBMIT THEIR ENVIRONMENTAL PROTECTION PLAN TO THE ENVIRONMENTAL CONSULTANT, WHICH SHALL INCLUDE SPILL PREVENTION AND RESPONSE PROCEDURES.
2. THE CONTRACTOR SHALL BE PREPARED AT ALL TIMES TO INTERCEPT, CLEAN UP, AND DISPOSE ANY SPILLS THAT MAY OCCUR.
3. THE CONTRACTOR SHALL KEEP ALL MATERIALS REQUIRED TO CLEAN UP SPILLS (SPILL KITS) READILY AVAILABLE ON SITE.
4. THE CONTRACTOR SHALL SUBMIT TO THE ENVIRONMENTAL CONSULTANT FOR APPROVAL A DECONTAMINATION PLAN TO PROVIDE DETAILS ON DECONTAMINATION PROCEDURES, DECONTAMINATION AREAS, AND THE MANAGEMENT OF DECONTAMINATION WASTES.
5. DECONTAMINATE EQUIPMENT AND REUSABLE MATERIALS PRIOR TO DEPARTURE FROM THE SITE.
6. EACH PIECE OF EQUIPMENT OR MATERIAL MUST BE INSPECTED BY THE CONTRACTOR PRIOR TO DEPARTURE FROM THE SITE TO VERIFY THAT DECONTAMINATION HAS BEEN CONDUCTED. CONTRACTOR SHALL. PROVIDE DOCUMENTATION OF DECONTAMINATION TO THE ENVIRONMENTAL CONSULTANT.
7. CONTAIN DECONTAMINATION WATER, SOLIDS, AND OTHER MATERIALS GENERATED DURING EQUIPMENT DECONTAMINATION AT THE SITE, AND DO NOT ALLOW THESE MATERIALS TO BE RELEASED TO DRAINS OR STORM DRAINS OR WATERWAYS OR TO CONTACT NATIVE MATERIALS. CONTRACTOR SHALL DISPOSE OF WATER, SOLIDS, AND OTHER MATERIALS GENERATED DURING DECONTAMINATION OFF-SITE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.
8. PERFORM MAJOR MAINTENANCE, REPAIR JOBS OFF SITE.
9. IF REFUELING OR VEHICLE MAINTENANCE MUST BE DONE ONSITE, WORK IN A BERMED AREA AWAY FROM STORM DRAINS AND OVER A DRIP PAN OR DROP CLOTHS LARGE ENOUGH TO COLLECT FLUIDS. RECYCLE OR DISPOSE OF FLUIDS APPROPRIATELY.
10. IF VEHICLE OR EQUIPMENT CLEANING IS DONE ONSITE, CLEAN WITH WATER ONLY IN A BERMED AREA THAT WILL NOT ALLOW RINSE WATER TO RUN INTO GUTTERS, STREETS, STORM DRAINS, OR SURFACE WATERS.
11. DO NOT CLEAN VEHICLE OR EQUIPMENT ONSITE USING SOAPS, SOLVENTS, DEGREASERS, OR STEAM CLEANING EQUIPMENT.
12. LABEL ALL HAZARDOUS MATERIALS AND HAZARDOUS WASTES (SUCH AS PESTICIDES, PAINTS, THINNERS, FUEL, OIL AND ANTIFREEZE) IN ACCORDANCE WITH CITY, COUNTY, STATE AND FEDERAL REGULATIONS.
13. STORE HAZARDOUS MATERIALS AND WASTES IN WATERTIGHT CONTAINERS. STORE IN APPROPRIATE SECONDARY CONTAINMENT AND COVER THEM AT THE END OF EVERY WORK DAY OR DURING WET WEATHER OR WHEN RAIN IS FORECAST.
14. FOLLOW MANUFACTURER'S APPLICATION INSTRUCTIONS FOR HAZARDOUS MATERIALS AND BE CAREFUL NOT TO USE MORE THAN NECESSARY. DO NOT APPLY CHEMICALS OUTDOORS WHEN RAIN IS FORECAST WITHIN 24 HOURS.
15. ARRANGE FOR APPROPRIATE DISPOSAL OF ALL WASTES.

SPILL PREVENTION AND CONTROL

1. IMPLEMENT SUFFICIENT BEST MANAGEMENT PRACTICES (BMPS) TO PREVENT THE SPREAD OF MATERIALS FROM THE SITE – SEE HTTPS://DOT.CA.GOV/-/MEDIA/DOT-MEDIA/PROGRAMS/CONSTRUCTION/DOCUMENTS/ENVIRONMENTAL-COMPLIANCE/CSBMP-MAY-2017-FINAL.PDF
2. DO NOT HOSE DOWN SURFACES WHERE FLUIDS HAVE SPILLED. USE DRY CLEANUP METHODS (ABSORBENT MATERIALS, CAT LITTER, AND/OR RAGS).
3. KEEP SPILL CLEANUP MATERIALS (E.G., RAGS, ABSORBENTS AND CAT LITTER) AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.
4. INSPECT VEHICLES AND EQUIPMENT FREQUENTLY AND REPAIR LEAKS PROMPTLY. USE DRIP PANS TO CATCH LEAKS UNTIL REPAIRS ARE MADE.
5. CLEAN UP SPILLS OR LEAKS IMMEDIATELY AND DISPOSE OF CLEANUP MATERIALS PROPERLY.
6. SWEEP UP SPILLED DRY MATERIALS IMMEDIATELY. DO NOT TRY TO WASH THEM AWAY WITH WATER, OR BURY THEM.
7. CLEAN UP SPILLS ON DIRT AREAS BY DIGGING UP AND PROPERLY DISPOSING OF CONTAMINATED SOIL.
8. REPORT SIGNIFICANT SPILLS IMMEDIATELY. YOU ARE REQUIRED BY LAW TO REPORT ALL SIGNIFICANT RELEASES OF HAZARDOUS MATERIALS, INCLUDING OIL. TO REPORT A SPILL: 1) DIAL 911 OR YOUR LOCAL EMERGENCY RESPONSE NUMBER; 2) CALL THE GOVERNOR'S OFFICE OF EMERGENCY SERVICES WARNING CENTER AT (800) 852-7550 (24 HOURS).

STORMWATER POLLUTION PREVENTION

1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) MEASURES AND BEST MANAGEMENT PRACTICES (BMPS). THE TESC MEASURES SHOWN ON THE PROJECT CIVIL DRAWINGS ARE TO BE CONSIDERED MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL MEASURES AND BMPS AS NECESSARY FOR STORMWATER POLLUTION PREVENTION.
2. GENERAL MANAGEMENT PRACTICES, HEREIN, SHALL BE FOLLOWED TO MINIMIZE STORM WATER POLLUTION EMANATING FROM THIS WORK SITE AND ACHIEVE THE FOLLOWING:
    A. KEEP MATERIALS OUT OF DRAINAGEWAYS
    B. PREVENT OFF-SITE TRACKING OF SEDIMENT
    C. KEEP POLLUTANTS OFF EXPOSED SURFACES
    D. PREVENT POLLUTANT CONTACT WITH RAINFALL OR RUNOFF
    E. PROTECT EXISTING VEGETATION TO BE RETAINED
    F. MINIMIZE WASTE AND DISPOSE OF WASTE PROPERLY
    G. PREVENT SPILLS AND LEAKS; CLEAN SPILLS AND LEAKS IMMEDIATELY
    H. COVER AND SECURELY STORE ALL MATERIALS WITH SECURED TARPS OR PLASTIC SHEETING.
    I. KEEP CONCRETE AND CEMENT MORTAR OUT OF DRAINAGE WAYS AND STREAMS
    J. CONTROL. EROSION AND RUN-OFF OF SEDIMENT
3. THE SEQUENCE OF CONSTRUCTION ACTIVITIES AND THE MITIGATION ELEMENTS SHALL BE AS FOLLOWS:
    A. INSPECT CONSTRUCTION ENTRANCE AT ALL ACCESS POINTS
    B. INSTALL TEMPORARY STRAW BALE BARRIER WATTLES AND/OR SILT FENCE AT GRADING LIMITS AND OTHER AREAS AS INDICATED
    C. GRUB AND CLEAR THE SITE AS NEEDED
    D. CREATE TEMPORARY CONSTRUCTION AND WASTE MATERIALS STORAGE AND CONTAINMENT AREA
    E. PROTECT EXISTING DRAINAGE INLETS WITH TEMPORARY DRAINAGE INLET PROTECTION AS NEEDED
    F. PERFORM EXCAVATION AND BACKFILLING
4. ALL STOCKPILES WILL BE TARPED AT THE END OF EACH DAY.
5. ALL ACTIVE STOCKPILES WILL BE TARPED FOR THOSE PORTIONS OF THE STOCKPILE THAT ARE NOT ACTIVELY BEING USED.
6. ALL DUST CONTROL SHALL BE MANAGED BY THE APPLICATION OF WATER.
7. WATER TRUCK SHALL BE PRESENT AND IN USE AT THE REMEDIATION SITE. ALL PORTIONS OF THE SITE SUBEJCT TO BLOWING DUST SHALL BE WATERED AS OFTEN AS NEEDED IN ORDER TO ENSURE PROPER CONTROL OF BLOWING DUST FOR THE DURATION OF THE PROJECT.
8. WATERING ASSOCIATED WITH ONSITE ACTIVITY SHALL TAKE PLACE BETWEEN THE ESTABLISHED SITE WORK HOURS AND SHALL INCLUDE AT LEAST ONE LATE-AFTERNOON WATERING TO MINIMIZE THE EFFECTS OF BLOWING DUST.
9. ONSITE PAVED ACCESS ROADS, PARKING AERAS AND STAGING AREAS SHALL BE SWEPT DAILY WITH A WATER SWEEPER.
10. ALL GRADING OPERATIONS SHALL BE SUSPENDED DURING SECOND (OR WORSE) STAGE SMOG ALERTS.
11. ALL TRUCK LOADS SHALL BE COVERED TO REDUCE DUST.
12. THE STREET ADJACENT TO PARCEL 1 SHALL BE CLEANED BY VACUUM OR BY WET SWEEPING DAILY TO THE SATISFACTION OF THE CITY ENGINEER.
13. ALL GRADED SURFACES AND MATERIALS, WHETHER FILLED, EXCAVATED, TRANSPORTED OR STOCKPILED, SHALL BE WETTED, PROTECTED OR CONTAINED IN SUCH A MANNER AS TO PREVENT NUISANCE FROM DUST, OR SPILLAGE UPON ADJOINING PROPERTY OR STREETS.
14. IN THE EVENT OF EXTREME RAINS, FILTER MATS (OR OTHER APPROVED METHODS) SHALL BE PLACED OVER STORM DRAINS TO PREVENT SEDIMENTS FROM ENTERING THE STORM DRAINAGE SYSTEM DURING GRADING AND CONSTRUCTION ACTIVITIES.
15. CONFLICTS WITH THE SWPPP ARE SUPERSEDED BY THE MORE STRINGENT REQUIREMENT.

CONSTRUCTION ENTRANCE AND EXIT

1. GENERAL CONTRACTOR TO ESTABLISH AND MAINTAIN EFFECTIVE PERIMETER CONTROLS AND INSTALL CONSTRUCTION ENTRANCES AND EXITS IN ACCORDANCE WITH CALIFORNIA DEPARTMENT OF TRANSPORTATION BMP R-1 (MAY 2017) TO SUFFICIENTLY CONTROL EROSION AND SEDIMENT DISCHARGES FROM SITE AND TRACKING OFFSITE. METHODS FOR CONTROLLING TRACKING OFFSITE MAY INCLUDE RUMBLE STRIPS AND/OR CRUSHED ROCK GRAVEL AT SITE EXIT IF MAINTAINING TRUCKS ON CONCRETE SURFACES AT ALL TIMES IS NOT ADEQUATE TO PREVENT TRACKING SOIL ONTO CITY STREETS.
2. GENERAL CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE CONSTRUCTION ENTRANCES AND EXITS.
3. CAUTION WILL BE EXERCISED WHEN ENTERING AND EXITING THE SITE BASED ON THE POSSIBLE PRESENCE OF HOMELESS PEOPLE LIVING IN THE IMMEDIATE VICINITY OF THE SITE.
4. TRAFFIC TO AND FROM THE SITE FOR SITE REMEDIATION WILL BE IN ACCORDANCE WITH THE TRAFFIC SEQUENCING PLAN IN THE 2022 SGMP.
5. ALL TRAFFIC ENTERING THE SITE WILL APPROACH THE SITE FROM THE SOUTH HEADING NORTH ON PINE STREET AND WILL ENTER PARCEL 2 LOCATED IMMEDIATELY TO THE NORTH OF THE SITE FROM PINE STREET.
6. ALL TRAFFIC EXITING THE SITE WILL EXIT ONTO PINE STREET HEADING SOUTH.
7. SWEEP OR VACUUM DIRT TRACKED ONTO ANY STREET IMMEDIATELY AND SECURE THE SEDIMENT SOURCE TO PREVENT FURTHER TRACKING. NEVER HOSE DOWN STREETS TO CLEAN UP TRACKING.
8. NO TIRE WASHOUT IS REQUIRED. HOWEVER, IF EXCESS OFF-SITE TRACKING IS ENCOUNTERED, WHEEL WASHERS SHALL BE INSTALLED AND USED TO CLEAN ALL TRUCKS AND EQUIPMENT LEAVING THE SITE. IF WHEEL WASHERS CANNOT BE INSTALLED, TIRES OR TRACKS OF ALL TRUCKS AND EQUIPMENT SHALL BE WASHED OFF BEFORE LEAVING THE CONSTRUCTION SITE.

WASTE MANAGEMENT

1. CONTRACTOR WILL IMPLEMENT AND VERIFY PROPER WASTE MANAGEMENT, LABELING, CHARACTERIZATION, AND DISPOSAL OF CONTRACTOR-GENERATED WASTE (I.E. PPE, TRASH, CLEAN-UP WASTE). ALL WASTE WILL BE APPROPRIATELY CHARACTERIZED AND MANIFESTED FOR OFF-SITE DISPOSAL AT A DISPOSAL FACILITY APPROVED BY THE ENVIRONMENTAL CONSULTANT.
2. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND FEDERAL REGULATIONS, STANDARDS, AND GUIDELINES FOR HANDLING AND DISPOSAL OF WASTE.
3. EXCAVATED SOIL AND WASTE WATER SHALL BE DISPOSED OF AT AN APPROPRIATE DISPOSAL FACILITY APPROVED BY THE ENVIRONMENTAL CONSULTANT.
4. THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLETION, MANAGEMENT, AND TRACKING OF ALL TRANSPORTATION AND DISPOSAL DOCUMENTATION, INCLUDING BILLS OF LADING, WASTE MANIFESTS, WEIGHT TICKETS, AND CERTIFICATES OF DISPOSAL.
5. THE CONTRACTOR WILL BE RESPONSIBLE FOR CHARACTERIZING, PROFILING, AND PROCESSING ANY EXCAVATED SOIL FOR OFFSITE DISPOSAL SUCH THAT THE MATERIAL MEETS THE REQUIREMENTS OF THE DISPOSAL FACILITIES FOR ACCEPTANCE.
6. LOAD MATERIALS FOR TRANSFER TO THE CONSOLIDATION TRENCH OR FOR TRANSPORT FOR OFFSITE DISPOSAL IN A MANNER THAT PREVENTS SPILLAGE OR SPREADING OF WASTE. PROVIDE PROTECTIVE TEMPORARY COVERING, SUCH AS POLYETHYLENE SHEETING (6-MIL VISQUEEN OR EQUIVALENT) TO PROTECT CLEAN AREAS SITUATED BETWEEN TRANSPORT AND THE EXCAVATION FROM CROSS-CONTAMINATION DUE TO SPILLAGE OF WASTE MATERIAL, AS NEEDED.
7. FOR EACH WASTE DISPOSED AT FACILITIES, PROVIDE WEIGHT TICKETS DOCUMENTING THE AMOUNT OF WASTE DISPOSED.
8. COVER WASTE DISPOSAL CONTAINERS SECURELY WITH TARPS AT THE END OF EVERY WORK DAY AND DURING WET WEATHER.
9. CHECK WASTE DISPOSAL CONTAINERS FREQUENTLY FOR LEAKS AND TO MAKE SURE THEY ARE NOT OVERFILLED. NEVER HOSE DOWN A DISPOSAL CONTAINER ON THE CONSTRUCTION SITE.
10. GENERAL CONTRACTOR TO CLEAN OR REPLACE PORTABLE TOILETS, AND INSPECT THEM FREQUENTLY FOR LEAKS AND SPILLS.
11. DISPOSE OF ALL WASTES AND DEBRIS PROPERLY. RECYCLE MATERIALS AND WASTES THAT CAN BE RECYCLED (SUCH AS ASPHALT, CONCRETE, AGGREGATE BASE MATERIALS, WOOD, GYPSUM BOARD, PIPE, ETC.).
12. CONTRACTOR SHALL SUBMIT A TRANSPORT AND DISPOSAL PLAN FOR ALL WASTES FOR APPROVAL BY THE ENVIRONMENTAL CONSULTANT. THE PLAN MUST CLEARLY DESCRIBE HAUL ROUTES TO AND FROM THE APPROVED DISPOSAL FACILITIES.

BACKFILL AND COMPACTION REQUIREMENTS

1. MATERIALS FOR USE AS FILL SHALL CONFORM TO REQUIREMENTS FOR FILL AS SET FORTH IN THE 6/16/20 GEOTECHNICAL REPORT FOR THE PROJECT.
2. IMPORTED MATERIAL FOR USE AS FILL AT THE SITE SHALL CONFORM TO REQUIREMENTS FOR IMPORTED FILL AS SET FORTH IN THE 2022 SGMP.
3. PRIOR TO IMPORT MATERIAL ARRIVING ON SITE, CONTRACTOR SHALL PROVIDE ANALYTICAL AND GEOTECHNICAL TESTING RESULTS FOR IMPORT MATERIAL TO THE GEOTECHNICAL ENGINEER AND ENVIRONMENTAL CONSULTANT. ALL IMPORTED MATERIAL SHALL MEET THE PROJECT GEOTECHNICAL REQUIREMENTS SET FORTH IN THE PROJECT GEOTECHNICAL REPORT AND SHALL MEET THE CHEMISTRY REQUIREMENTS SET FORTH IN THE 2022 SGMP. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANT WILL RESPOND REGARDING ACCEPTABILITY WITHIN 5 BUSINESS DAYS OF RECEIPT OF DOCUMENTATION REGARDING CHARACTERISTICS OF THE MATERIAL. NO CLEAN FILL IMPORT IS TO BE BROUGHT ONTO THE SITE WITHOUT THE WRITTEN APPROVAL OF BOTH THE GEOTECHNICAL ENGINEER AND THE ENVIRONMENTAL CONSULTANT.
4. ANY SITE MATERIAL THAT IS RECYCLED FOR USE AS FILL AT THE SITE SHALL CONFORM TO THE REQUIREMENTS FOR RECYCLED MATERIAL AS SET FORTH IN THE 2022 SGMP.
5. ANY CONFLICT IN BACKFILL SPECIFICATIONS IS SUPERSEDED BY THE SPECIFICATIONS SET FORTH IN THE 6/16/20 PROJECT GEOTECHNICAL REPORT.
6. FILL WILL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH SPECIFICATIONS SET FORTH IN THE 6/16/20 PROJECT GEOTECHNICAL REPORT AND IN ACCORDANCE WITH DIRECTION FROM THE GEOTECHNICAL ENGINEER. CONTRACTOR WILL WORK COOPERATIVELY WITH THE GEOTECHNICAL ENGINEER TO PERFORM COMPACTION TESTING TO VERIFY COMPLIANCE WITH GEOTECHNICAL REPORT BACKFILLING AND COMPACTION REQUIREMENTS.
7. ANY CONFLICT REGARDING COMPACTION SPECIFICATIONS IS SUPERSEDED BY THE 6/16/20 PROJECT GEOTECHNICAL REPORT.
8. COMPACTION OF THE BACKFILL MATERIAL SHALL BE TESTED BY THE GEOTECHNICAL ENGINEER IN ACCORDANCE WITH THE 6/16/20 PROJECT GEOTECHNICAL REPORT.
9. IN ADDITION TO REQUIREMENTS IDENTIFIED ABOVE FOR IMPORTED FILL MATERIAL, CONTRACTOR WILL PROVIDE DOCUMENTATION TO THE GEOTECHNICAL ENGINEER FOR USE OF ANY CONTROLLED LOW-STRENGTH MATERIAL (CLSM) FOR APPROVAL THAT THE CLSM MIXTURE DESIGN WILL ACHIEVE THE STRENGTH AND FLOWABILITY REQUIREMENTS IDENTIFIED BY THE GEOTECHNICAL ENGINEER. CERTIFIED PLANT MIX REPORTS FOR CLSM SHALL BE DELIVERED TO THE GEOTECHNICAL ENGINEER. CLSM SHALL BE SELF-LEVELING AND SELF-COMPACTING CEMENTITIOUS MATERIAL. CEMENT: TYPE II PORTLAND CEMENT. CLSM MATERIAL SHALL BE SELECTED AND PROPORTIONED BY THE CLSM SUPPLIER ON THE BASIS OF FIELD EXPERIENCE AND/OR LABORATORY TRIAL MIXTURE TO PRODUCE COHESIVE AND NON-SEGREGATING MIXTURE MEETING THE FOLLOWING PROPERTIES:
    a. STRENGTH: PRIOR TO MOBILIZATION AND EVERY 50 CUBIC YARDS OR ONCE PER DAY, WHICHEVER IS MORE FREQUENT.
    b. 50 TO 100 POUNDS PER SQUARE INCH UNCONFINED COMPRESSIVE STRENGTH.

DRAWN BY: SJC
REVIEWED BY: PHK
APPROVED BY:
SCALE: AS SHOWN
DATE: 3/21/2022
PROJECT NO: 0772

SHEET NO:
2.1

THE PHOENIX
URBAN DESIGNS, LLC
HOLLIDAY DEVELOPMENT, LLC
801 PINE STREET, OAKLAND, CA

GENERAL NOTES AND SPECIFICATIONS

P&D Environmental, Inc.
55 Santa Clara Street, Suite 240
Oakland, Ca 94610
Phone: 510-658-6916

RO 3269

LICENSED PROFESSIONAL

SIGNATURE
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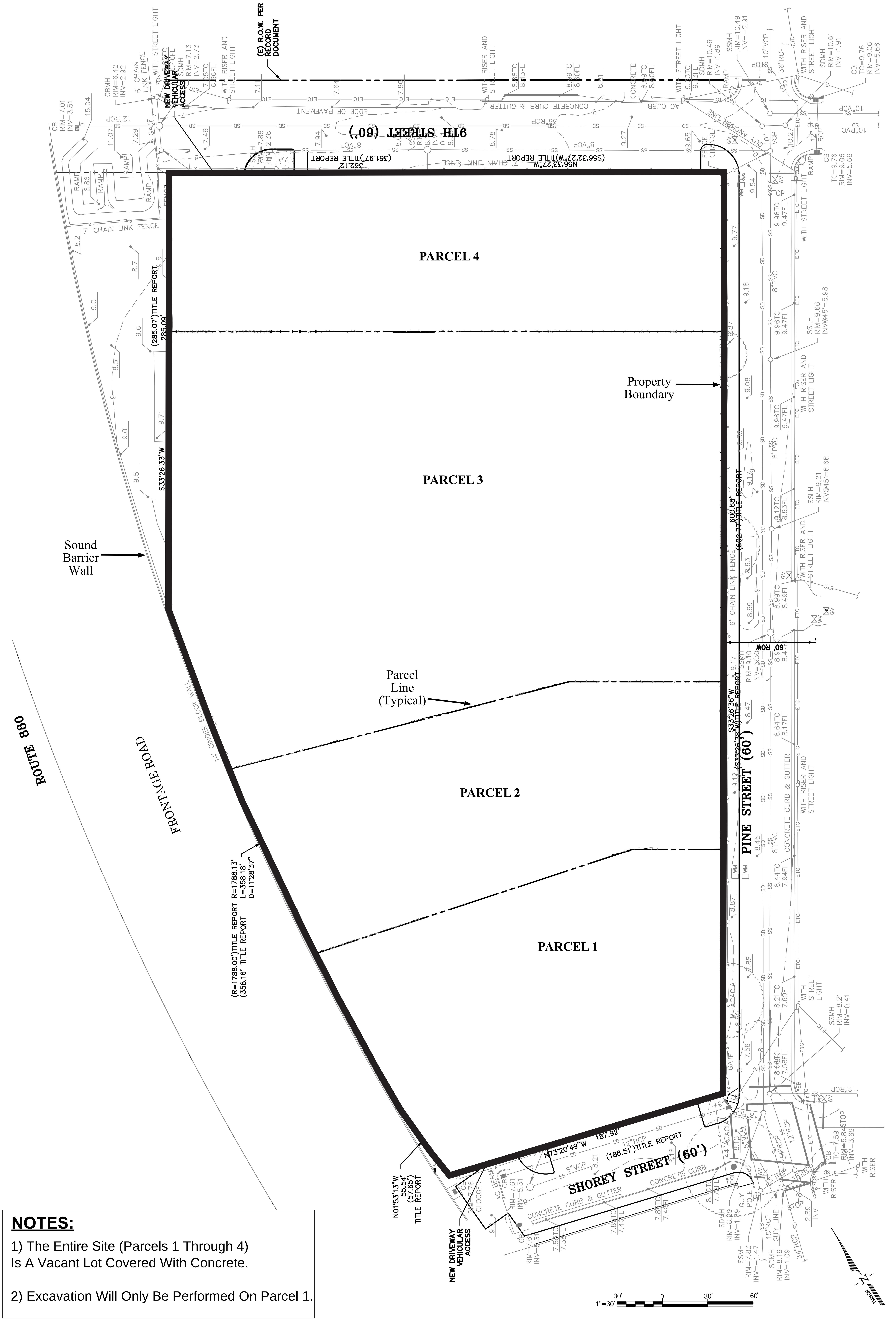

NOTES:

1) The Entire Site (Parcels 1 Through 4) Is A Vacant Lot Covered With Concrete.

2) Excavation Will Only Be Performed On Parcel 1.

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NO.	DESCRIPTION	DATE	APPROVED

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SIGNATURE DATE

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(510) 658-6916

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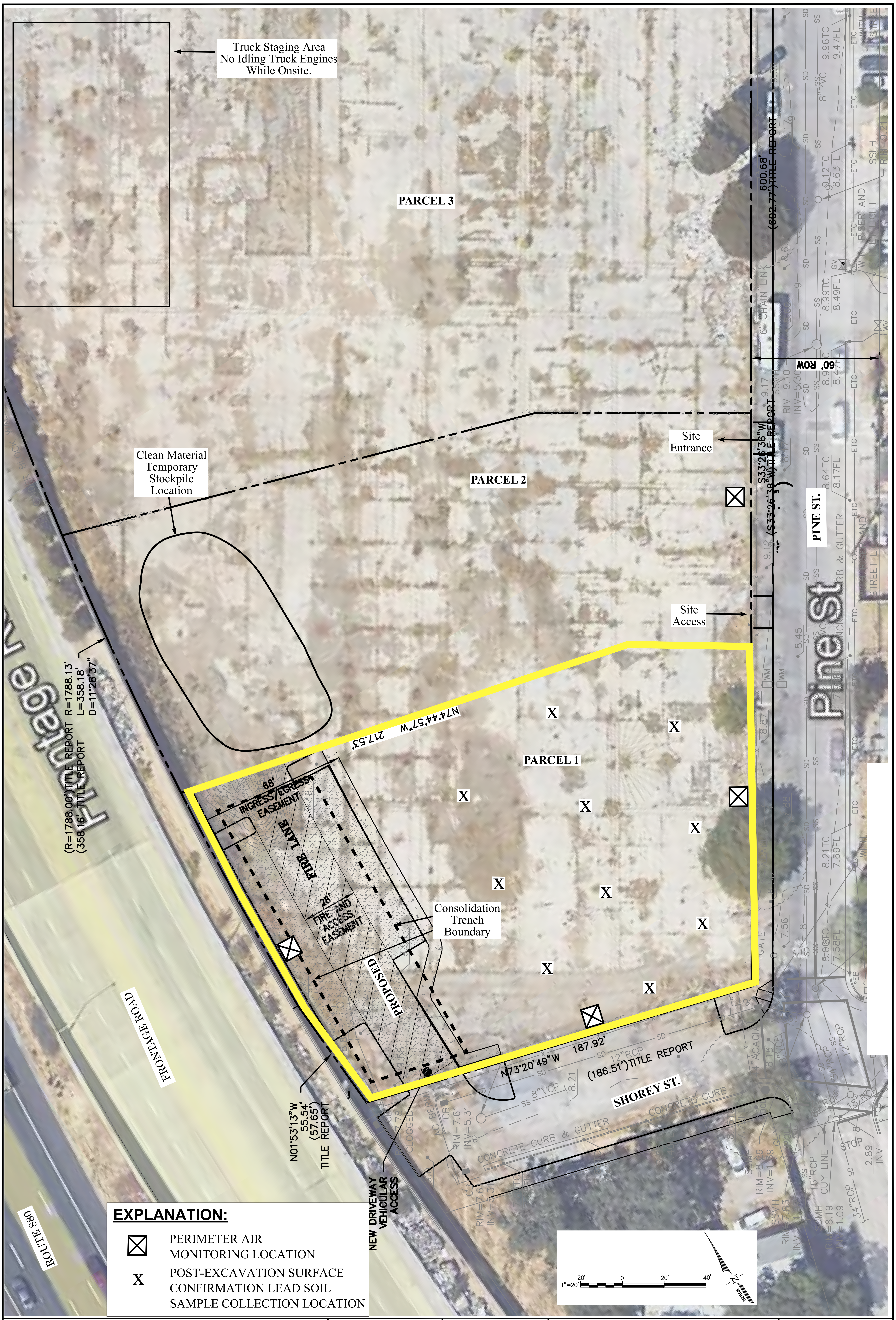
THE PHOENIX
URBAN DESIGNS, LLC
HOLLIDAY DEVELOPMENT, LLC
801 PINE STREET, OAKLAND, CA

EXISTING CONDITIONS

DRAWN BY:	SJC
REVIEWED BY:	PHK
APPROVED BY:	
SCALE:	AS SHOWN
DATE:	3/21/2022
PROJECT NO:	0772
SHEET NO:	3



EXPLANATION:

☒ PERIMETER AIR MONITORING LOCATION

X POST-EXCAVATION SURFACE CONFIRMATION LEAD SOIL SAMPLE COLLECTION LOCATION

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THE PHOENIX
URBAN DESIGNS, LLC
HOLLIDAY DEVELOPMENT, LLC
801 PINE STREET, OAKLAND, CA

EXCAVATION PLAN

DRAWN BY:	SJC
REVIEWED BY:	PHK
APPROVED BY:	
SCALE:	AS SHOWN
DATE:	3/14/2022
PROJECT NO:	0772

SHEET NO:
4

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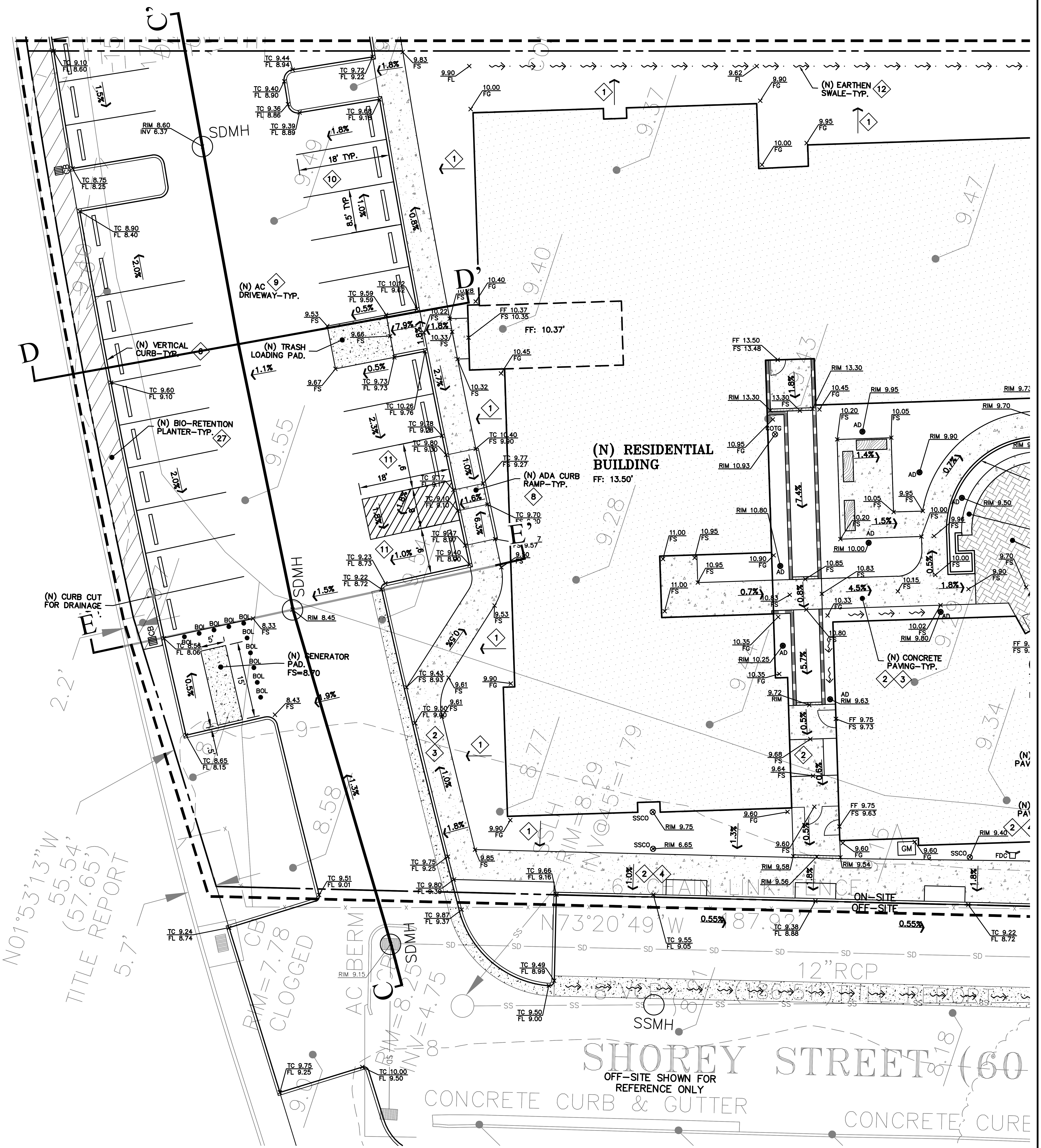
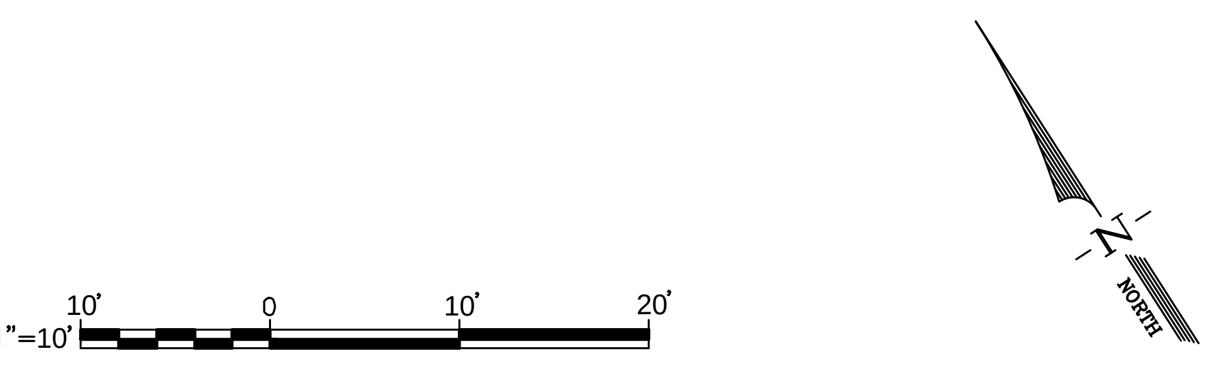


SEE SHEET C-2.2

NOTES:

1) Abbreviations and Symbols are identified on Sheet 2.2.

2) Source: Lea & Braze Engineering Inc., Sheet C-2.1, 11-15-19 Submittal Set.



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THE PHOENIX
URBAN DESIGNS, LLC
HOLLIDAY DEVELOPMENT, LLC
801 PINE STREET, OAKLAND, CA

GRADING & DRAINAGE PLAN DETAIL WITH ADDED CROSS SECTION LOCATIONS

DRAWN BY:	SJC
REVIEWED BY:	PHK
APPROVED BY:	
SCALE:	AS SHOWN
DATE:	3/21/2022
PROJECT NO:	0772

SHEET NO:
5.1

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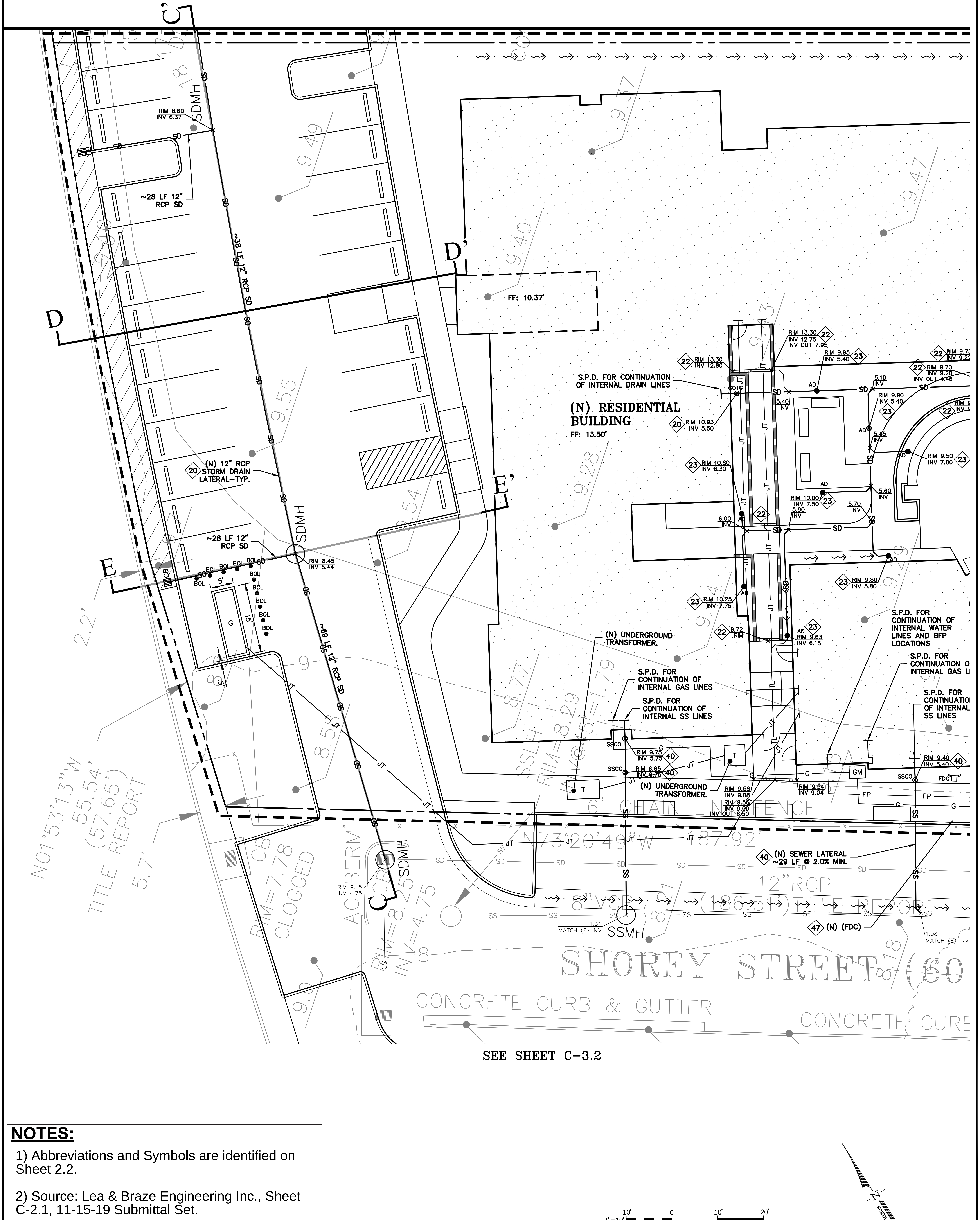

NOTES:

1) Abbreviations and Symbols are identified on Sheet 2.2.

2) Source: Lea & Braze Engineering Inc., Sheet C-2.1, 11-15-19 Submittal Set.

REVISION HISTORY

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THE PHOENIX
URBAN DESIGNS, LLC
HOLLIDAY DEVELOPMENT, LLC
801 PINE STREET, OAKLAND, CA

UTILITY PLAN DETAIL WITH ADDED CROSS SECTION LOCATIONS

DRAWN BY: SJC
REVIEWED BY: PHK
APPROVED BY:
SCALE: AS SHOWN
DATE: 3/21/2022
PROJECT NO: 0772

SHEET NO:
5.2

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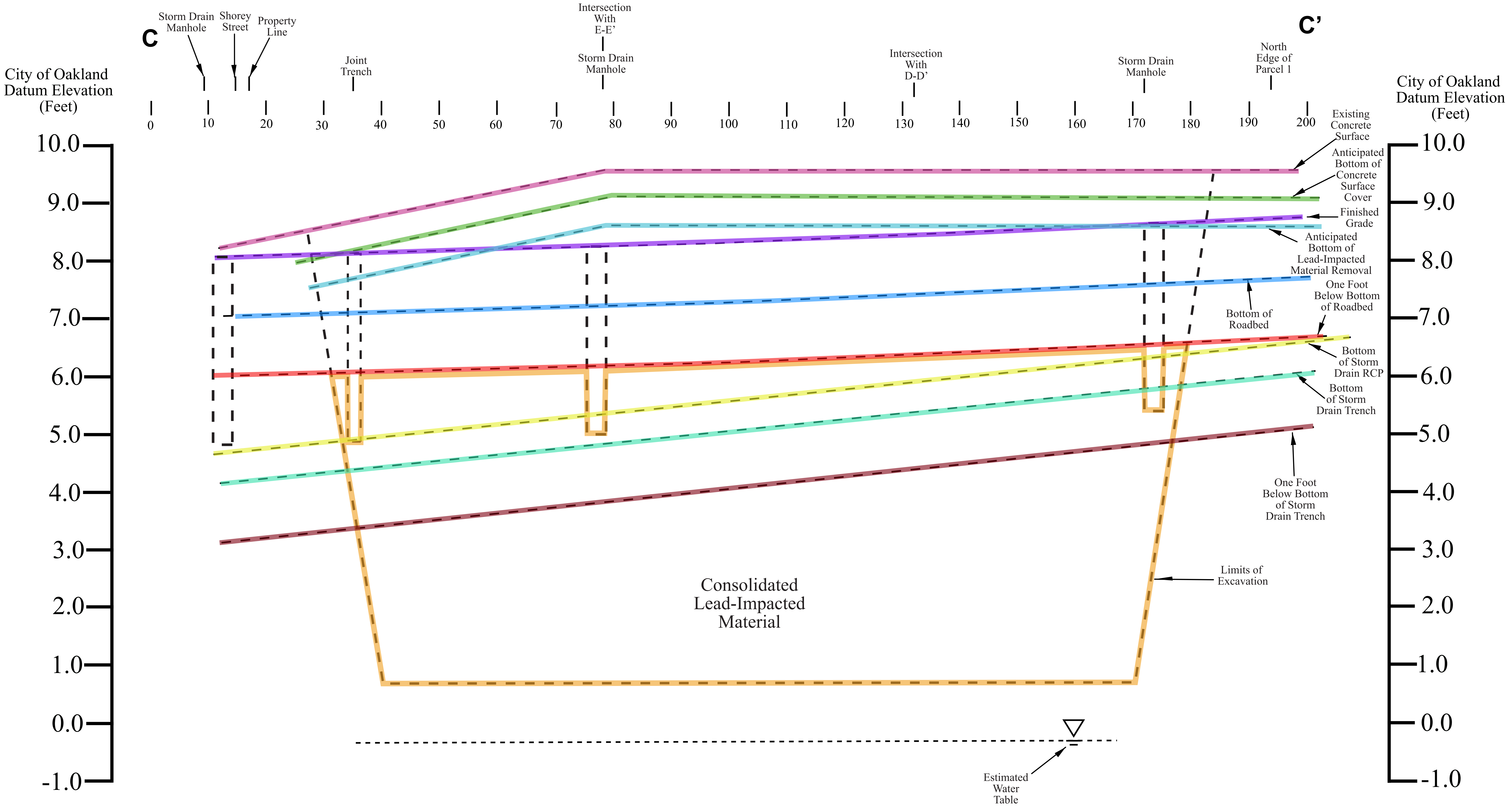

NOTES:

1) Vertical Exaggeration = 10:1

2) Excavation Walls are Sloped 1.5:1

3) Type 1 City Manhole Specification
for Manholes

4) Water Table is Estimated to Be 10 Feet Below
Existing Grade, But Could Be Higher or Lower

0 5 10

Approximate Horizontal Scale
In Feet

EXPLANATION:

🟧	Orange Demarcation Material

DRAWN BY: SJC
REVIEWED BY: PHK
APPROVED BY:
SCALE: AS SHOWN
DATE: 3/21/2022
PROJECT NO: 0772

SHEET NO:
6.1

THE PHOENIX
URBAN DESIGNS, LLC
HOLLIDAY DEVELOPMENT, LLC
801 PINE STREET, OAKLAND, CA

CROSS SECTION
C-C'

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Oakland, CA 94610
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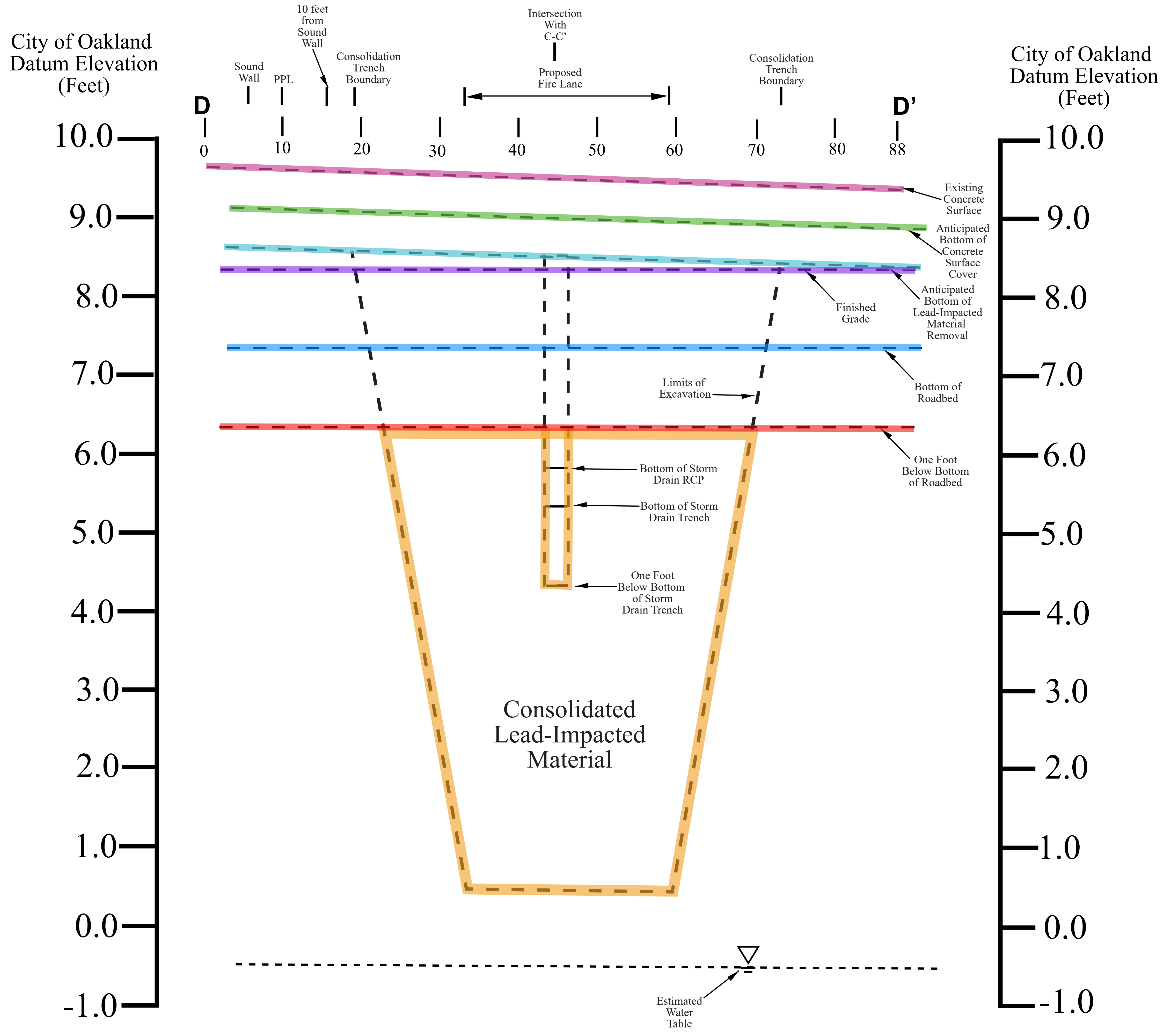
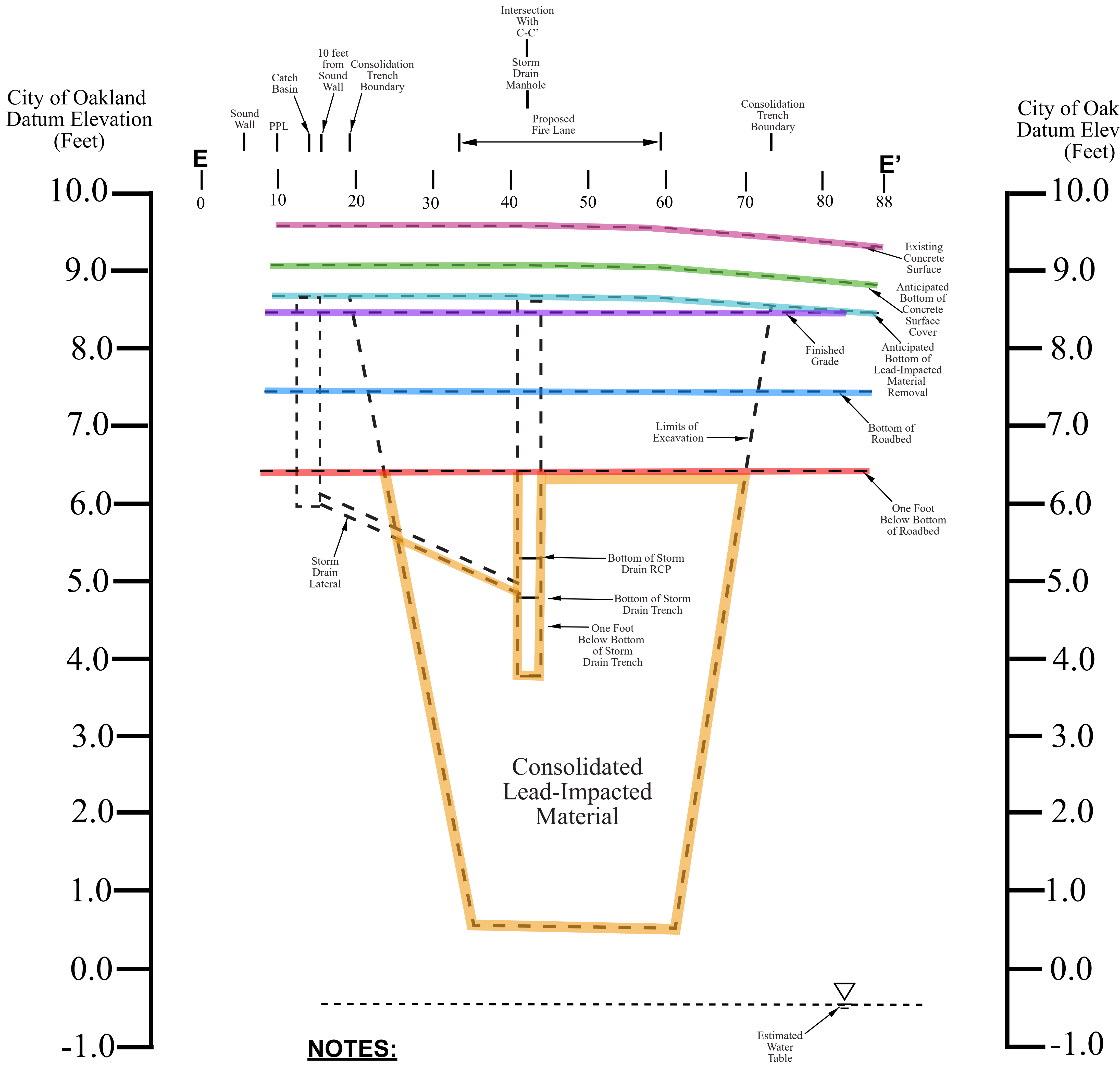




NOTES:

1) Vertical Exaggeration = 10:1

2) Excavation Walls are Sloped 1.5:1

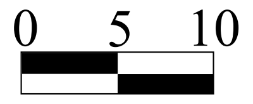
3) Type 1 City Manhole Specification for Manholes

4) See Lea & Braze Engineering, Inc. Sheet C-6.0 Details - Detail 3 Catch Basin, 11/15/2019

5) Water Table is Estimated to Be 10 Feet Below Existing Grade, But Could Be Higher or Lower

EXPLANATION:

- - - Orange Demarcation Material



Approximate Horizontal Scale In Feet

DRAWN BY: SJC
REVIEWED BY: PHK
APPROVED BY:
SCALE: AS SHOWN
DATE: 3/21/2022
PROJECT NO: 0772

SHEET NO: 6.2

THE PHOENIX
URBAN DESIGNS, LLC
HOLLIDAY DEVELOPMENT, LLC
801 PINE STREET, OAKLAND, CA

CROSS SECTIONS D-D' AND E-E'

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(510) 658-6916

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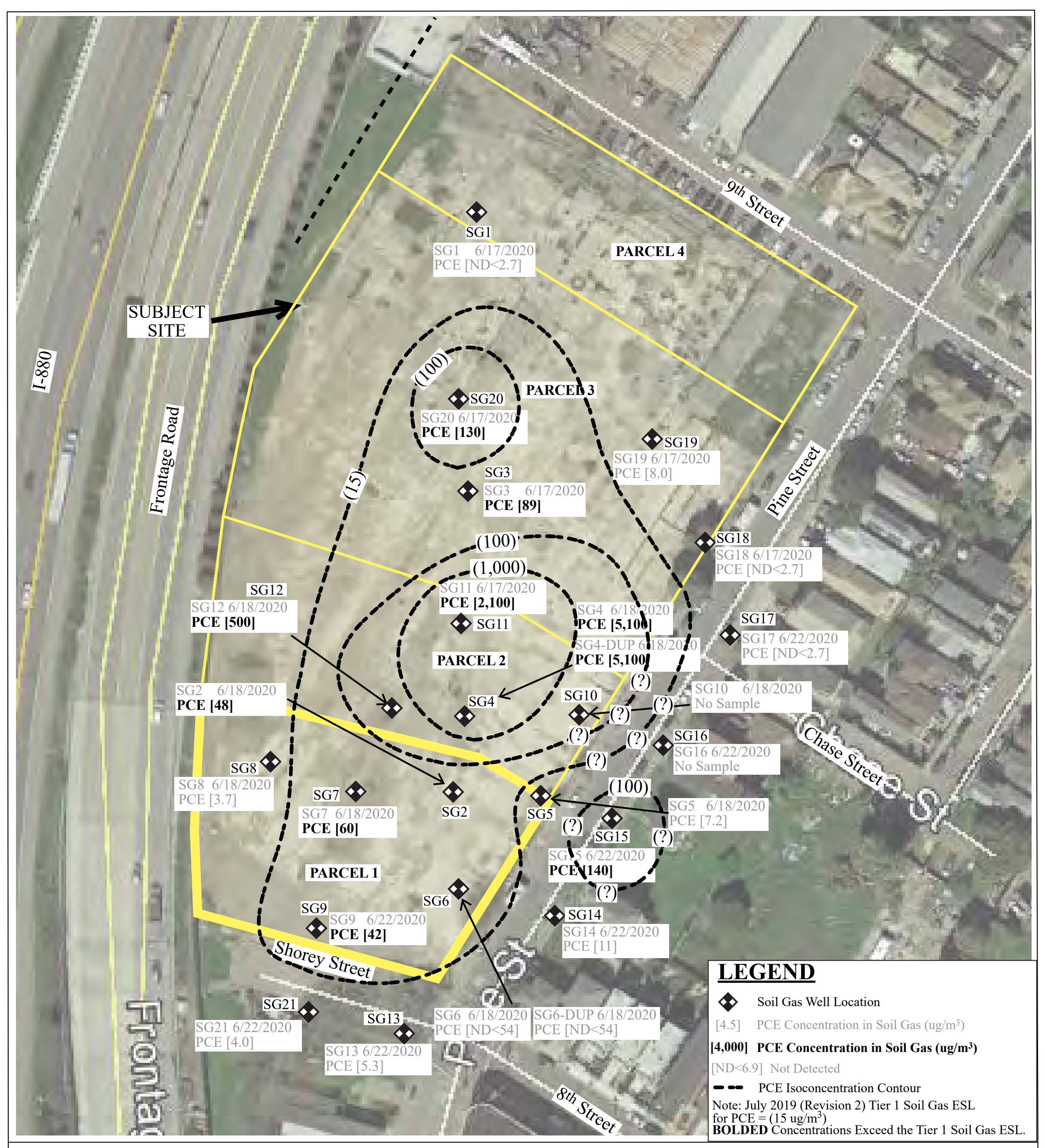

Detail 1
Site Aerial Photograph Showing PCE in Soil Gas
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Lea & Braze Engineering, Inc. Parcel Map No. 10835, For 4 Lot Subdivision For Residential Purposes, City of Oakland, Alameda County, State of California, October 2019, and Google Earth, Imagery Dated March 11, 2017

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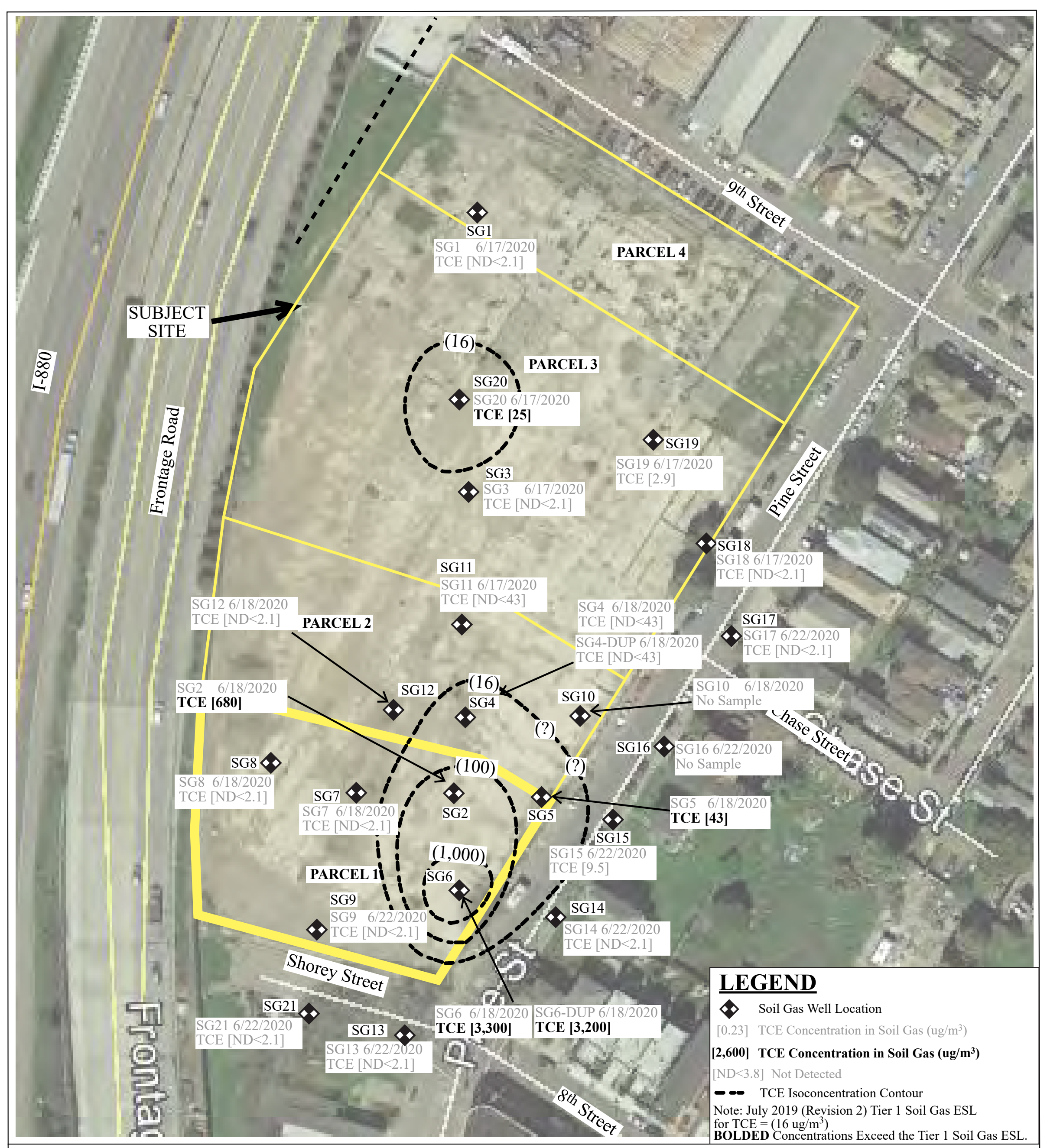
Oakland, CA 94610



Detail 2
Site Aerial Photograph Showing TCE in Soil Gas
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Lea & Braze Engineering, Inc. Parcel Map No. 10835, For 4 Lot Subdivision For Residential Purposes, City of Oakland, Alameda County, State of California, October 2019, and Google Earth, Imagery Dated March 11, 2017

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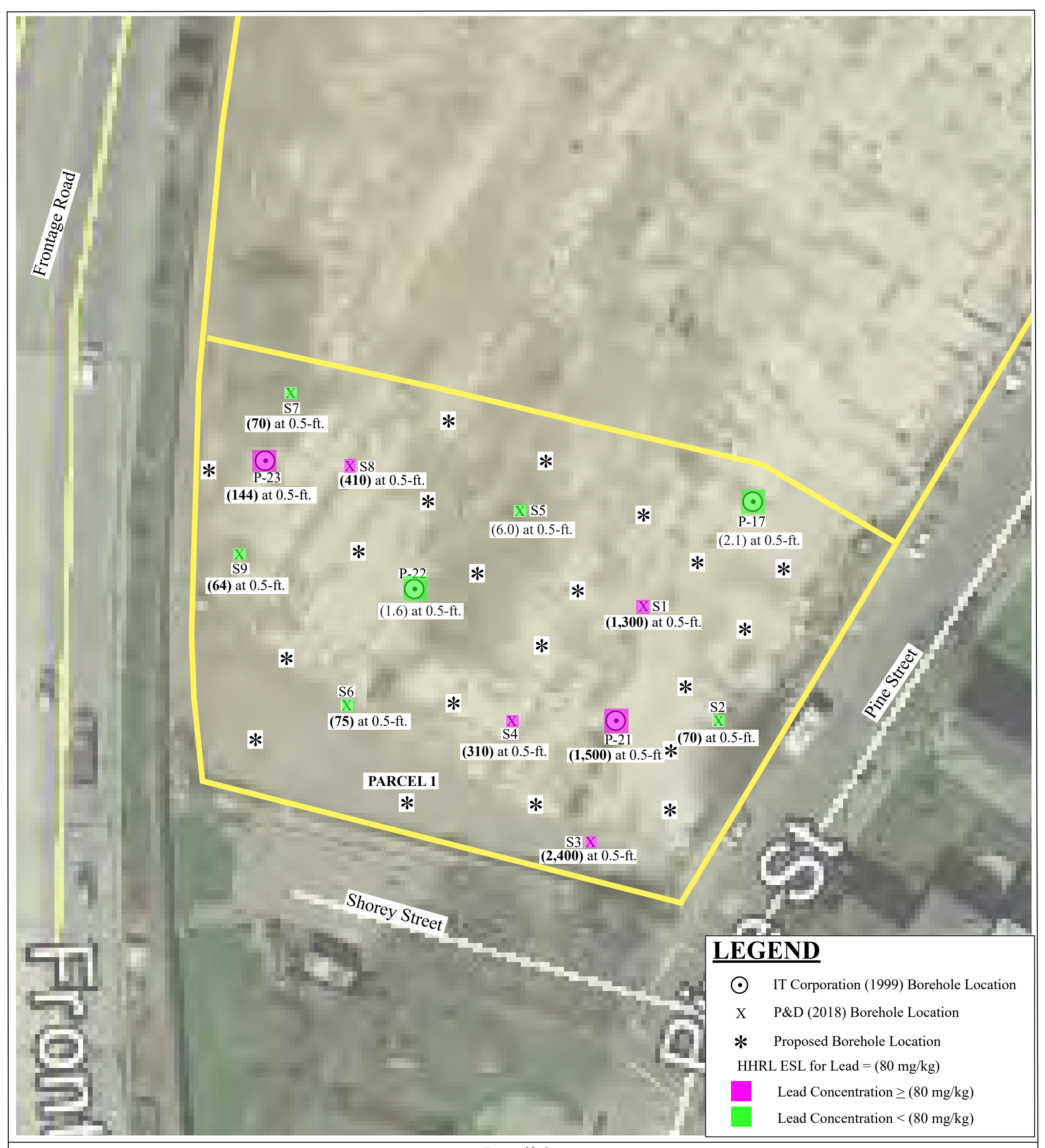

Detail 3
Site Aerial Photograph Showing Historical Soil Lead Concentrations in Parcel 1 at 0.5-Foot Depth
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

Detail 4
Site Aerial Photograph Showing Historical Soil Lead Concentrations in Parcel 1 at 1.0-Foot Depth
The Phoenix
801 Pine Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

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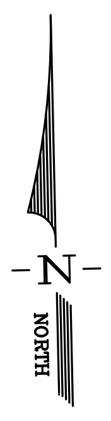
Oakland, CA 94610



REVISION HISTORY

NO.	DESCRIPTION	DATE	APPROVED

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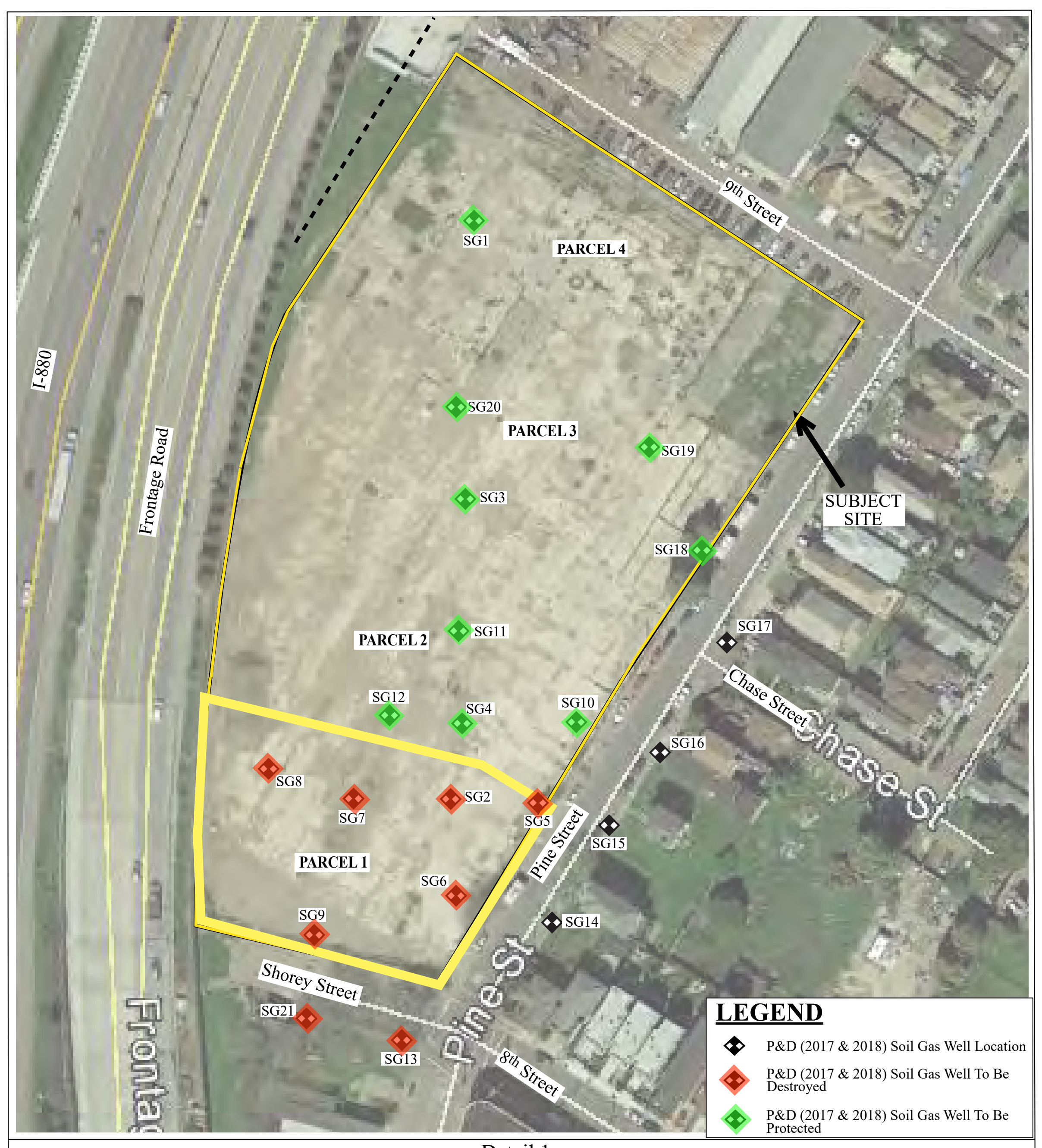
RO 3269

THE PHOENIX
URBAN DESIGNS, LLC
HOLLIDAY DEVELOPMENT, LLC
801 PINE STREET, OAKLAND, CA

SITE CHARACTERIZATION INFORMATION

DRAWN BY:	SJC
REVIEWED BY:	PHK
APPROVED BY:	
SCALE:	AS SHOWN
DATE:	3/21/2022
PROJECT NO:	0772

SHEET NO:
7.1



Detail 1
Site Aerial Photograph Showing All Soil Gas Well Locations
The Phoenix
800 Cedar Street
Oakland, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 50 100
Approximate Scale in Feet

NOT ISSUED FOR CONSTRUCTION

N
NORTH

REVISION HISTORY

NO.	DESCRIPTION	DATE	APPROVED

LICENSED PROFESSIONAL

SIGNATURE DATE

P&D Environmental, Inc.
55 Santa Clara Avenue, Suite 240
Oakland, CA 94610
(510) 658-6916

RO 3269

THE PHOENIX
URBAN DESIGNS, LLC
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SITE CHARACTERIZATION INFORMATION

DRAWN BY: SJC
REVIEWED BY: PHK
APPROVED BY:
SCALE: AS SHOWN
DATE: 3/21/2022
PROJECT NO: 0772

SHEET NO:
7.2

SUPERSEDED: SEE WORD DOCUMENT

REMEDIATION NOTES

ABBREVIATIONS

ACDEH = ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
BOL = BOLLARD
CB = CATCH BASIN
E = EXISTING
EPA = ENVIRONMENTAL PROTECTION AGENCY
FF = FINISHED FLOOR
FT = FOOT OR FEET
G = GAS
INV = INVERT ELEVATION
JT = JOINT TRENCH
LF = LINEAR FEET
N = NEW
P&D = P&D ENVIRONMENTAL, INC.
RCP = REINFORCED CONCRETE PIPE
SD = STORM DRAIN
SDMH = STORM DRAIN MANHOLE
SGMP = SOIL AND GROUNDWATER MANAGEMENT PLAN
SPD = SEE PLUMBING DRAWINGS
SS = SANITARY SEWER
SSCO = SANITARY SEWER CLEAN OUT
SWPPP = STORM WATER POLLUTION PREVENTION PLAN
T = TELEPHONE

GENERAL NOTES

1) ALL HISTORICAL SITE ENVIRONMENTAL INVESTIGATION INFORMATION IS PROVIDED ON GEOTRACKER AT THE FOLLOWING LINK: https://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000011072
2) SANITATION INCLUDING SINK FOR WASHING TO BE PROVIDED BY AND MAINTAINED BY GENERAL CONTRACTOR.
3) GENERAL CONTRACTOR TO MAINTAIN SITE ENTRANCE AND EXIT FREE FROM OBSTRUCTIONS.
4) NO TEMPORARY POWER POLE OR ELECTRICITY WILL BE AVAILABLE AT THE SITE DURING SITE REMEDIATION EXCAVATION.
5) NO WATER WILL BE AVAILABLE AT THE SITE DURING SITE REMEDIATION.
6) GENERAL CONTRACTOR TO PROVIDE WATER METER FOR FIRE HYDRANT FOR WATER TO BE USED ON SITE. CONTRACTOR TO PROVIDE THEIR OWN WATER TRUCK AND ANY WATER STORAGE.
7) CONTRACTOR TO PERFORM SURVEY AND PROVIDE DOCUMENTATION OF CITY ROAD CONDITIONS FOR TRUCK ROUTES ASSOCIATED WITH SOIL REMOVAL FROM THE SITE PRIOR TO INITIATION OF CONCRETE OR SOIL OFFHAUL.
8) CONTRACTOR SHALL EXCAVATE AN EXPLORATORY POTHOLE WITHIN THE FOOTPRINT OF THE FIRE LANE TO DETERMINE THE DEPTH TO GROUNDWATER AND WILL EXCAVATE THE TRENCH FOR ONSITE LEAD-IMPACTED MATERIAL CONSOLIDATION TO A DEPTH OF ONE FOOT ABOVE THE STATIC WATER LEVEL IN THE EXPLORATORY POTHOLE.

BENCHMARK NOTES

1) LEA & BRAZE ENGINEERING, INC. CIVIL DRAWING SHEET C-1.0 TITLE SHEET FOR SUBMITTAL SET DATED 11-15-19 SITE BENCHMARK NOTES IDENTIFIES ELEVATIONS IN THE DRAWINGS AS BEING BASED ON CITY OF OAKLAND DATUM.

NEW UTILITY NOTES

1) LEA & BRAZE ENGINEERING, INC. CIVIL DRAWING SHEET C-3.2 UTILITY PLAN (AREA OF DETAIL) FOR SUBMITTAL SET DATED 11-15-19 INCLUDES INFORMATION FOR THE FOLLOWING NEW UNDERGROUND UTILITIES IN THE PROPOSED EXCAVATION FOR LEAD-IMPACTED MATERIAL ONSITE CONSOLIDATION:
    a) STORM DRAIN.
    b) CATCH BASIN STORM DRAIN LATERAL.
    c) JOINT TRENCH.
2) NO OTHER PROPOSED UNDERGROUND UTILITIES ARE KNOWN TO BE PRESENT IN THE PROPOSED EXCAVATION FOR LEAD-IMPACTED MATERIAL ONSITE CONSOLIDATION.
3) UTILITY TRENCH BEDDING ASSUMED TO BE 6 INCHES (0.5 FT) OF SAND BEDDING BENEATH UTILITIES.

REMEDIATION EXCAVATION AND BACKFILLING NOTES

1) ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE CURRENT SITE SGMP.
2) THE WORK DESCRIBED HEREIN INCLUDES THE FOLLOWING:
    a) REMOVE AND RECYCLE OFFSITE THE CONCRETE FROM THE PROPOSED FIRE LANE SHOWN ON THE FIGURES REFERENCED ABOVE (26 FEET WIDE), PLUS AN ADDITIONAL 12 FEET ON EITHER SIDE OF THE FIRE LANE (A TOTAL WIDTH OF APPROXIMATELY 50 FEET).
    b) EXCAVATE LEAD-IMPACTED MATERIAL THAT IS LOCATED DIRECTLY BENEATH THE CONCRETE COVER AND STOCKPILE IT TEMPORARILY ON PARCEL 1.
    c) EXCAVATE A TRENCH FROM SHOREY STREET TO PARCEL 2 IN THE FOOTPRINT OF THE FIRE LANE TO A DEPTH OF APPROXIMATELY 8 FEET FOR ONSITE LEAD-IMPACTED MATERIAL CONSOLIDATION. SOIL REMOVED FROM THE TRENCH HAS PREVIOUSLY BEEN SAMPLED WITH SOIL BORING SAMPLES AND IDENTIFIED AS CLEAN. THE CLEAN SOIL THAT IS REMOVED FROM THE TRENCH WILL BE TEMPORARILY STORED ON PARCEL 2. THE ENDS OF THE TRENCH WILL BE LOCATED APPROXIMATELY 10 FEET FROM THE PROPERTY LINE AT SHOREY STREET AND APPROXIMATELY 10 FEET FROM THE BOUNDARY WITH PARCEL 2.
    d) ALL STOCKPILES ARE TO BE COVERED AT THE END OF EACH DAY TO MINIMIZE DUST.
    e) PLACE THE LEAD-IMPACTED SOIL THAT WAS TEMPORARILY STORED ON PARCEL 1 INTO THE TRENCH WITH ORANGE DEMARCATION MATERIAL AND COMPACT.
    f) ONCE THE TEMPORARILY STORED LEAD-IMPACTED MATERIAL IS CONSOLIDATED IN THE TRENCH, REMOVE THE REMAINING CONCRETE COVER FOR PARCEL 1. RECYCLE THE CONCRETE OFFSITE, AND CONSOLIDATE THE UNDERLYING LEAD-IMPACTED MATERIAL IN THE ONSITE TRENCH AS THE LEAD-IMPACTED MATERIAL BECOMES EXPOSED. THE EXTENT OF CONCRETE REMOVAL IS DEFINED AS FOLLOWS:
        i) NORTH - THE BOUNDARY WITH PARCEL 2.
        ii) EAST – THE PARCEL 1 PROPERTY LINE ALONG PINE STREET.
        iii) SOUTH – THE PARCEL 1 PROPERTY LINE ALONG SHOREY STREET.
        iv) WEST - THE WESTERN PROPERTY LINE FOR PARCEL 1, WHICH IS LOCATED APPROXIMATELY 5.7 FEET FROM THE SOUND BARRIER WALL AT THE SOUTHWEST CORNER OF THE PROPERTY AND WHICH NARROWS TO APPROXIMATELY 2.2 FEET FROM THE SOUND BARRIER WALL AT A LOCATION APPROXIMATELY 55 FEET NORTH OF THE SOUTHWESTERN PROPERTY BOUNDARY.
    g) ANY LEAD-IMPACTED MATERIALS THAT ARE PLACED INTO THE TRENCH FOR ONSITE CONSOLIDATION WILL BE COVERED AT THE END OF EACH DAY PENDING FINAL COVER WITH CLEAN SOIL.
    h) DEMOLISH AND REMOVE CONCRETE IN A MANNER TO KEEP CONCRETE DEMOLITION AND REMOVAL EQUIPMENT AND TRUCKS ON CONCRETE SURFACES AT ALL TIMES.
    i) CONCRETE FOOTINGS AND STRUCTURES AND UTILITIES THAT ARE ENCOUNTERED BENEATH THE SITE CONCRETE SLAB THAT EXTEND BELOW THE DEPTH OF LEAD-IMPACTED SOIL REMOVAL WILL REMAIN IN PLACE FOR REMOVAL AND RECYCLING BY THE PROJECT GRADING CONTRACTOR FOLLOWING THE COMPLETION OF LEAD-IMPACTED SOIL REMEDIATION.
    j) WHEN ALL OF THE LEAD-IMPACTED MATERIAL IS CONSOLIDATED IN THE TRENCH, COVER IT WITH CLEAN MATERIAL THAT WAS STOCKPILED ON PARCEL 2. THE REMAINING CLEAN MATERIAL ON PARCEL 2 WILL BE TEMPORARILY LEFT ON PARCEL 2 PENDING POST-REMEDIATION SITE COMPACTION AND GRADING.
3) NO STOCKPILING OF LEAD-IMPACTED MATERIALS WITH THE EXCEPTION OF THE LEAD-IMPACTED MATERIALS THAT ARE TEMPORARILY STOCKPILED DURING TRENCH EXCAVATION BENEATH THE PROPOSED FIRE LANE.
4) ONSITE CONSOLIDATION OF LEAD-IMPACTED MATERIALS WILL BE NO DEEPER THAN 8 FEET BELOW EXISTING GRADE, AND WILL BE NO SHALLOWER THAN 1 FOOT BELOW PROJECT FINISH GRADE. AT LOCATIONS WHERE NEW UTILITIES OR NEW FOUNDATION FEATURES MIGHT ENCOUNTER LEAD-IMPACTED MATERIALS THAT ARE CONSOLIDATED ONSITE, A MINIMUM HORIZONTAL AND A MINIMUM VERTICAL DISTANCE OF 1 FOOT OF CLEAN BACKFILL MATERIAL WILL BE MAINTAINED BETWEEN THE NEW UTILITY OR NEW FOUNDATION FEATURE AND LEAD-IMPACTED MATERIAL THAT IS CONSOLIDATED ONSITE.
5) ALL LEAD-IMPACTED MATERIAL THAT IS CONSOLIDATED ONSITE WILL BE PLACED ON ORANGE DEMARCATION CONSTRUCTION FENCE, INCLUDING ON THE SIDES OF THE EXCAVATION WHERE THE LEAD-IMPACTED MATERIALS ARE PLACED. ALL LEAD-IMPACTED MATERIAL THAT IS CONSOLIDATED ONSITE WILL BE COVERED WITH ORANGE DEMARCATION CONSTRUCTION FENCE AT THE COMPLETION OF ONSITE CONSOLIDATION OF LEAD-IMPACTED MATERIAL.
6) AREAS IN THE CONSOLIDATION TRENCH WHERE FUTURE UTILITIES WILL CROSS THE CONSOLIDATION TRENCH WILL BE FILLED USING CLEAN FILL. THE CLEAN FILL IN THE CONSOLIDATION TRENCH WILL MEET THE FOLLOWING REQUIREMENTS:
    a) TRENCHES WILL BE LINED ON THE BOTTOM AND SIDES ONLY WITH ORANGE DEMARCATION CONSTRUCTION FENCE (NOT ON THE TOP).
    b) DETECTABLE METALIZED WARNING TAPE (CALPICO TYPE 2, SETON, OR EQUIVALENT) WILL BE PLACED APPROXIMATELY 6 TO 12 INCHES BELOW THE FINAL ROUGH GRADED SURFACE ON EACH SIDE OF TRENCHES FOR THE ENTIRE LENGTH OF THE CLEAN FILL PORTION OF THE TRENCH.
    c) MARK WITH PAINT ON CONCRETE SURFACES AT THE ENDS OF TRENCHES WHERE CONCRETE IS NOT DEMOLISHED FOR FUTURE TRENCH LOCATION.
    d) CLEAN FILL TRENCH LOCATIONS AND DEPTHS WILL BE SURVEYED BY THE GENERAL CONTRACTOR TO CONFIRM PROPER FUTURE PLACEMENT FOR UTILITIES.
7) THE LOCATIONS WHERE LEAD-IMPACTED MATERIAL IS CONSOLIDATED ONSITE WILL BE SURVEYED HORIZONTALLY AND VERTICALLY BY THE GENERAL CONTRACTOR AND THE SURVEYED LOCATIONS RECORDED ON A SITE MAP THAT WILL BE PROVIDED TO THE ENVIRONMENTAL CONSULTANT.
8) UNDERLYING LEAD-IMPACTED MATERIAL WILL BE REMOVED AND CONSOLIDATED ONSITE AS IT BECOMES EXPOSED TO THE ATMOSPHERE TO MINIMIZE THE POSSIBILITY OF DUST CONTAINING LEAD. ANY LEAD-IMPACTED MATERIAL THAT IS NOT CONSOLIDATED ONSITE WILL BE DISPOSED OF AT A PROJECT-APPROVED DISPOSAL FACILITY. LEAD-IMPACTED MATERIAL WILL NOT BE STOCKPILED ONSITE (WITH THE EXCEPTION OF LEAD-IMPACTED MATERIAL THAT IS TEMPORARILY STOCKPILED AND COVERED DURING EXCAVATION OF THE INITIAL CONSOLIDATION PIT FOR ONSITE CONSOLIDATION OF LEAD-IMPACTED MATERIALS), AND WILL BE COVERED AT THE END OF EACH DAY FOLLOWING PLACEMENT FOR ONSITE CONSOLIDATION SO AS TO MINIMIZE POSSIBLE DUST CONTAINING LEAD.
9) LEAD-IMPACTED MATERIAL WILL BE USED FOR BACKFILL IN A MANNER SO AS TO MAINTAIN A HORIZONTAL AND VERTICAL DISTANCE OF AT LEAST ONE FOOT FROM ALL FUTURE UTILITIES SHOWN ON SITE CONSTRUCTION DRAWINGS, AND TO MAINTAIN A HORIZONTAL AND VERTICAL DISTANCE OF AT LEAST ONE FOOT FROM EXCAVATIONS FOR BUILDING FOUNDATIONS AND FROM THE BOTTOM OF LANDSCAPING, SURFACE COVER MATERIALS, AND ANY SITE IMPROVEMENTS.
10) FOLLOWING PLACEMENT OF ORANGE DEMARCATION MATERIAL ON TOP OF THE LEAD-IMPACTED MATERIAL, THE REMAINING PORTION OF THE ONSITE CONSOLIDATION PIT WILL BE BACKFILLED AND COMPACTED USING CLEAN FILL OBTAINED FROM THE CLEAN MATERIAL THAT WAS EXCAVATED FROM THE CONSOLIDATION TRENCH AND TEMPORARILY STOCKPILED ON PARCEL 2.
11) ALL BACKFILLING AND COMPACTION WILL BE PERFORMED IN ACCORDANCE WITH PROCEDURES AND SPECIFICATIONS APPROVED BY THE GEOTECHNICAL ENGINEER AND IN ACCORDANCE WITH THE SITE GEOTECHNICAL REPORT.
12) CONTRACTOR TO COORDINATE BACKFILLING ACTIVITIES WITH GENERAL CONTRACTOR SO THAT GENERAL CONTRACTOR CAN CONFIRM THE LOCATION AND DIMENSIONS OF LEAD-IMPACTED MATERIALS BY SURVEYING.
13) FOLLOWING REMOVAL OF LEAD-IMPACTED MATERIAL, SURFACE CONFIRMATION SOIL SAMPLES WILL BE COLLECTED IN ACCORDANCE WITH TABLE 2 AND ANALYZED FOR TOTAL LEAD TO VERIFY THAT NO ADDITIONAL EXCAVATION OF LEAD-IMPACTED MATERIAL IS REQUIRED.
14) BASED ON CONFIRMATION SAMPLE RESULTS, ADDITIONAL SOIL EXCAVATION AND CONFIRMATION SAMPLE COLLECTION MAY BE REQUIRED.
15) WHEN BACKFILLING WITH LEAD-IMPACTED MATERIAL, CLEAN MATERIAL WILL BE USED FOR BACKFILLING IN THE VICINITY OF FUTURE UTILITIES TO MAINTAIN A ONE FOOT THICKNESS HORIZONTALLY AND VERTICALLY AS DESCRIBED ABOVE BETWEEN LEAD-IMPACTED MATERIAL AND THE LOCATIONS OF FUTURE BURIED UTILITIES AND BUILDING FOUNDATION ELEMENTS.
16) ANY EXCESS LEAD-IMPACTED MATERIAL THAT CANNOT BE CONSOLIDATED ONSITE IN ACCORDANCE WITH THE PROJECT DRAWINGS WILL BE REMOVED FROM THE SITE IN ACCORDANCE WITH THE CURRENT SGMP.
17) ANY REQUIRED TREATMENT OF LEAD-IMPACTED MATERIAL OR CLEAN SOIL THAT IS USED FOR BACKFILLING SO THAT THE LEAD-IMPACTED MATERIAL OR CLEAN SOIL WILL BE NON-EXPANSIVE WILL BE PERFORMED IN ACCORDANCE WITH GEOTECHNICAL ENGINEER REQUIREMENTS AND IN ACCORDANCE WITH GEOTECHNICAL REPORT REQUIREMENTS FOR NON-EXPANSIVE SOIL.
18) ENVIRONMENTAL CONSULTANT TO MARK EXCAVATION BOUNDARY LOCATIONS WITH WHITE PAINT. GENERAL CONTRACTOR TO VERIFY THE LOCATIONS WITH SURVEYING BEFORE THE BEGINNING OF CONCRETE SURFACE REMOVAL.

SITE CHARACTERIZATION NOTES

OTHER SITE CONTAMINANTS

1. TETRACHLOROETHENE (PCE) SOIL GAS CONCENTRATIONS AT THE SITE ARE SHOWN ON SHEET 8 IN DETAIL 1.
2. TRICHLOROETHENE (TCE) SOIL GAS CONCENTRATIONS AT THE SITE ARE SHOWN ON SHEET 8 IN DETAIL 2.
3. THE HIGHEST DETECTED PCE AND TCE SOIL GAS CONCENTRATIONS DETECTED TO DATE DO NOT EXCEED OSHA PERMISSIBLE EXPOSURE LIMITS.
4. AIR MONITORING FOR VOLATILE ORGANIC COMPOUNDS THAT INCLUDE PCE AND TCE WILL BE PERFORMED BY THE AIR MONITORING CONTRACTOR PROVIDED BY THE GENERAL CONTRACTOR DURING SITE EXCAVATION.

LEAD-IMPACTED MATERIALS

5) LEAD-IMPACTED MATERIAL THICKNESS AT THE SITE WILL BE EVALUATED AT PROPOSED LOCATIONS SHOWN ON SHEET 8 DETAIL 3.
6) SAMPLES WILL BE COLLECTED AT DEPTHS OF 0.5, 1.0, AND 1.5 FEET BELOW THE GROUND SURFACE BY CORING THROUGH THE CONCRETE SURFACE AND USING A SLIDE HAMMER OR GEOPROBE DIRECT PUSH MACROCORE BARREL SAMPLER TO COLLECT BASE ROCK AND SOIL SAMPLES TO THE TOTAL PROPOSED DEPTH OF EXPLORATION.
7) SAMPLES COLLECTED AT DEPTHS OF 0.5 AND 1.0 FEET BELOW THE GROUND SURFACE WILL BE ANALYZED FOR TOTAL LEAD AND PERCENT MOISTURE AT A STATE-ACCREDITED LABORATORY.
8) ALL OTHER SAMPLES WILL BE PLACED ON HOLD AT THE LABORATORY PENDING RECEIPT OF THE SAMPLE RESULTS.
9) ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH PROCEDURES IN THE FOLLOWING ACDEH-APPROVED DOCUMENTS PREPARED BY P&D:
10) MARCH 23, 2018 LIMITED SUBSURFACE INVESTIGATION WORK PLAN.
11) JUNE 10, 2020 LIMITED SUBSURFACE INVESTIGATION WORK PLAN.
12) THE SAMPLE RESULTS WILL BE PROVIDED TO ACDEH FOR APPROVAL OF THE LEAD-IMPACTED MATERIAL EXCAVATION DEPTH AND LOCATIONS.

SOIL GAS WELLS

13) SOIL GAS WELLS ASSOCIATED WITH THE SITE ARE SHOWN ON SHEET 7.1 DETAIL 1.
14) SOIL GAS WELLS ASSOCIATED WITH PARCEL 1 WILL BE DESTROYED PRIOR TO DEMOLITION OF CONCRETE SURFACE COVER FOR PARCEL 1 IN ACCORDANCE WITH PROCEDURES IDENTIFIED IN A WORK PLAN APPROVED BY THE ACDEH.
15) SOIL GAS WELLS THAT ARE LOCATED ON PARCELS 2, 3 AND 4 THAT ARE NOT DESTROYED WILL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR DURING SITE REMEDIATION AND BY THE GENERAL CONTRACTOR DURING SITE CONSTRUCTION.

DRAWN BY: SJC
REVIEWED BY: PHK
APPROVED BY:
SCALE: AS SHOWN
DATE: 3/21/2022
PROJECT NO: 0772

SHEET NO:
8

THE PHOENIX
URBAN DESIGNS, LLC
HOLLIDAY DEVELOPMENT, LLC
801 PINE STREET, OAKLAND, CA

REMEDIATION NOTES AND SPECIFICATIONS

P&D Environmental, Inc.
55 Santa Clara Street, Suite 240
Oakland, Ca 94610
Phone: 510-658-6916

RO 3269

LICENSED PROFESSIONAL

SIGNATURE
DATE

REVISION HISTORY

NO.	DESCRIPTION	DATE	APPROVED

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APPENDIX E

ENDANGERED SPECIES

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Sacramento Fish And Wildlife Office
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
Phone: (916) 414-6600 Fax: (916) 414-6713

In Reply Refer To:
Consultation Code: 08ESMF00-2020-SLI-0982
Event Code: 08ESMF00-2020-E-03133
Project Name: The Phoenix

February 06, 2020

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, under the jurisdiction of the U.S. Fish and Wildlife Service (Service) that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

Please follow the link below to see if your proposed project has the potential to affect other species or their habitats under the jurisdiction of the National Marine Fisheries Service:

http://www.nwr.noaa.gov/protected_species/species_list/species_lists.html

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Sacramento Fish And Wildlife Office
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
(916) 414-6600

Project Summary

Consultation Code:	08ESMF00-2020-SLI-0982
Event Code:	08ESMF00-2020-E-03133
Project Name:	The Phoenix
Project Type:	DEVELOPMENT
Project Description:	Development of two detached buildings on a vacant site. A four-story, 101-unit multifamily residential building will provide permanent, supportive housing and affordable housing for low-income households. A two-story community building will provide 7,503 square feet of gathering and office space to provide supportive housing services.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/37.809857052520115N122.30322544794424W

Counties: Alameda, CA

Endangered Species Act Species

There is a total of 12 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Salt Marsh Harvest Mouse *Reithrodontomys raviventris* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/613	Endangered

Birds

NAME	STATUS
California Clapper Rail *Rallus longirostris obsoletus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4240	Endangered
California Least Tern *Sterna antillarum browni* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8104	Endangered
Western Snowy Plover *Charadrius nivosus nivosus* Population: Pacific Coast population DPS-U.S.A. (CA, OR, WA), Mexico (within 50 miles of Pacific coast) There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/8035	Threatened

Reptiles

NAME	STATUS
Alameda Whipsnake (=striped Racer) *Masticophis lateralis euryxanthus* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5524	Threatened
Green Sea Turtle *Chelonia mydas* Population: East Pacific DPS No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6199	Threatened

Amphibians

NAME	STATUS
California Red-legged Frog *Rana draytonii* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2891 Species survey guidelines: https://ecos.fws.gov/ipac/guideline/survey/population/205/office/11420.pdf	Threatened

Fishes

NAME	STATUS
Delta Smelt *Hypomesus transpacificus* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/321	Threatened
Tidewater Goby *Eucyclogobius newberryi* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/57	Endangered

Insects

NAME	STATUS
San Bruno Elfin Butterfly *Callophrys mossii bayensis* There is **proposed** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/3394	Endangered

Flowering Plants

NAME	STATUS
California Seablite *Suaeda californica* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6310	Endangered
Santa Cruz Tarplant *Holocarpha macradenia* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6832	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

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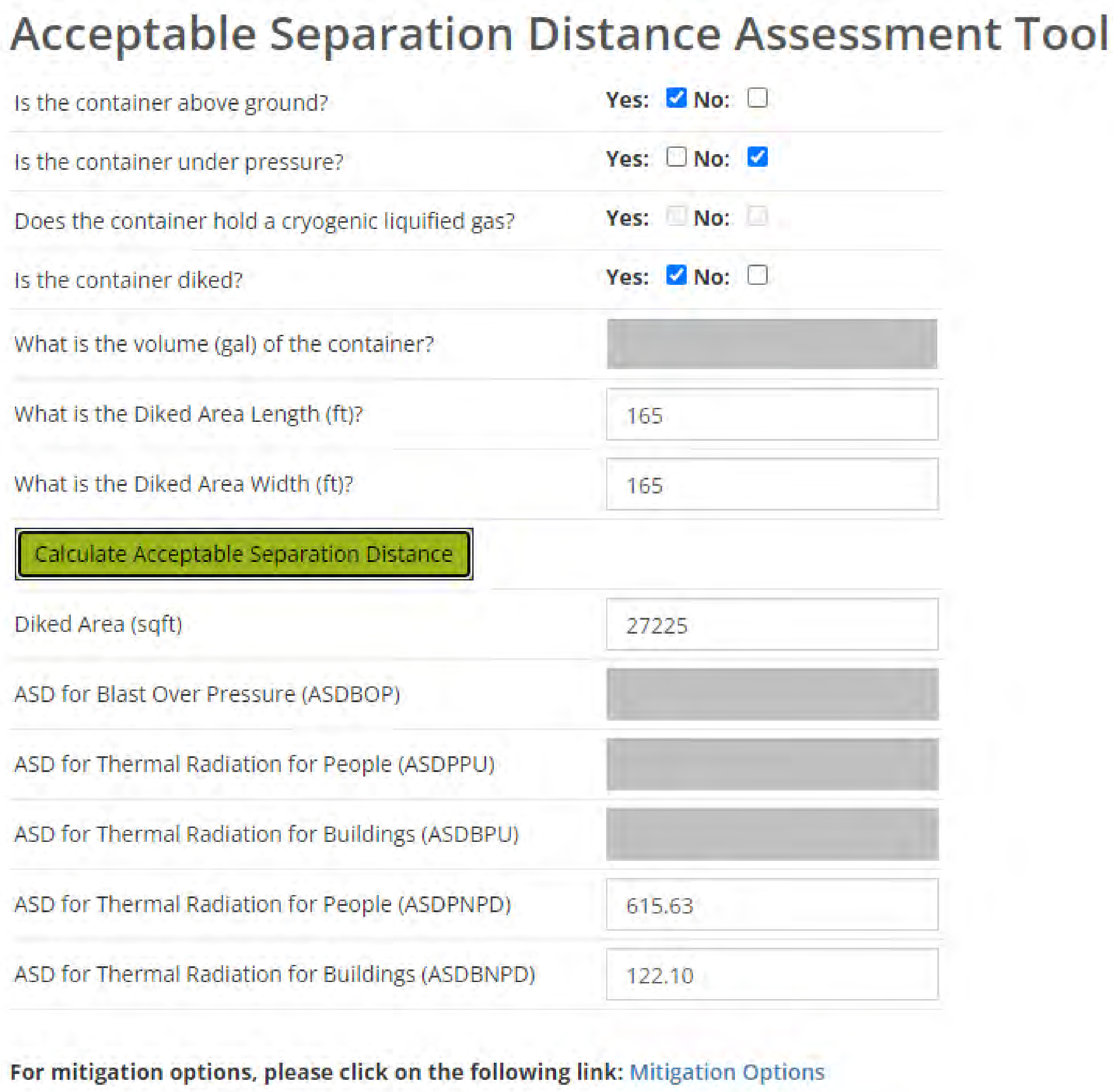
APPENDIX F

EXPLOSION HAZARDS

Tank 1 (Dike 165’x165’)

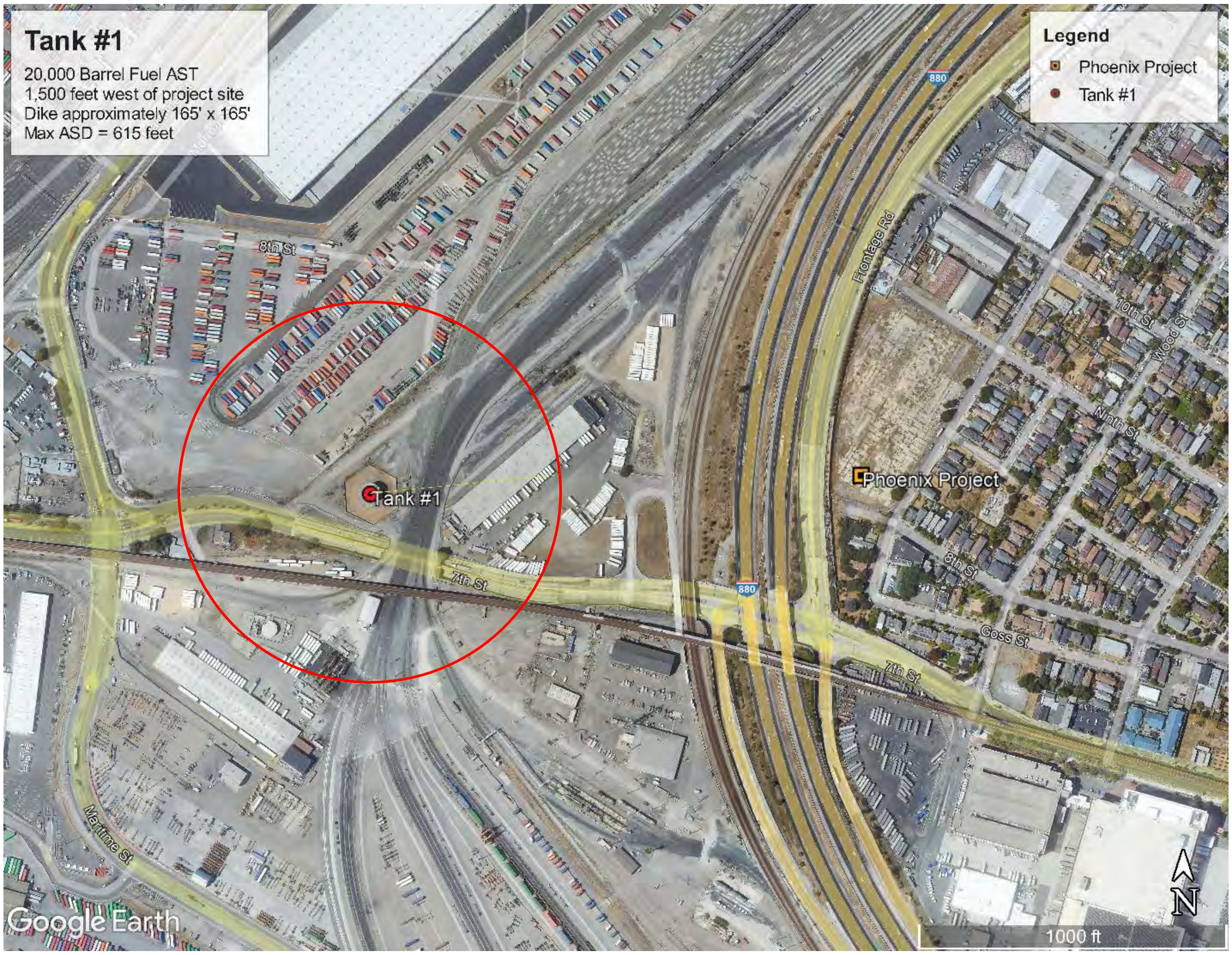


Acceptable Separation Distance Assessment Tool

Is the container above ground?	**Yes:** ☑ **No:** ☐
Is the container under pressure?	**Yes:** ☐ **No:** ☑
Does the container hold a cryogenic liquified gas?	**Yes:** ☐ **No:** ☐
Is the container diked?	**Yes:** ☑ **No:** ☐
What is the volume (gal) of the container?	
What is the Diked Area Length (ft)?	165
What is the Diked Area Width (ft)?	165

Diked Area (sqft)	27225
ASD for Blast Over Pressure (ASDBOP)	
ASD for Thermal Radiation for People (ASDPPU)	
ASD for Thermal Radiation for Buildings (ASDBPU)	
ASD for Thermal Radiation for People (ASDPNPD)	615.63
ASD for Thermal Radiation for Buildings (ASDBNPD)	122.10

For mitigation options, please click on the following link: Mitigation Options


Tank #1
20,000 Barrel Fuel AST
1,500 feet west of project site
Dike approximately 165' x 165'
Max ASD = 615 feet
Legend
Phoenix Project
Tank #1
8th St
Frontage Rd
10th St
Wood St
Ninth St
Phoenix Project
Tank #1
7th St
880
880
8th St
Cass St
7th St
Maritime St
Google Earth
1000 ft
N

Re: PRA Request

1 message

Dooha-Chambers, Joel, Env. Health <Joel.Dooha-Chambers2@acgov.org> Wed, Feb 2, 2022 at 12:21 PM
To: "patrick@baseline-env.com" <patrick@baseline-env.com>

Thank you for contacting Alameda County Department of Environmental Health (ACDEH) Certified Unified Program Agency (CUPA) for your Public Records Act Request.

We have no ACDEH CUPA records for the address(es) you requested.

Please note that ACDEH CUPA only has files for sites within its jurisdiction and some cities within Alameda County are not part of the ACDEH CUPA jurisdiction. In those cases we advise that you contact the Fire or Planning Department of that city for any records. **Please view our Jurisdiction List in this link:**
https://deh.acgov.org/hazmat-assets/docs/CUPA-jurisdictions.pdf

In addition, ACDEH has other divisions which may have records for the requested address(es). I have listed the divisions below and who to contact to acquire records if relevant.

- Solid/Medical Waste
  Contact: LaTresca Porter at latresca.porter@acgov.org

- Operations Division (retail food, recreation, and tattoo parlors)
  Contact: dehwebmain@acgov.org

- Vector Control Division
  Contact: Daniel Wilson at daniel.wilson@acgov.org

- Land and Water Division (Local Oversite Program (LOP) and Onsite Wastewater Treatment Systems)
  The links listed below may be helpful to gather information on LOP sites. The search on the geotracker link may be conducted by address or site name. If you cannot find documents you are searching for then please contact LOP directly.
  Contact: deh.loptoxic@acgov.org
  https://deh.acgov.org/landwater/index.page
  http://geotracker.waterboards.ca.gov/

Due to the COVID-19 pandemic, all requested files are provided electronically.
However, once the precautionary measures related to COVID-19 are lifted, our office may make files available by appointment for review on Thursdays and Fridays from 9:00 AM until 12:00 noon. We will keep our requestors aware of this situation as it progresses.

Please send all future requests to dehcupafilereview@acgov.org.

Please reach out to us if you have any further questions or clarifications.

Thank you,
Joel Dooha-Chambers

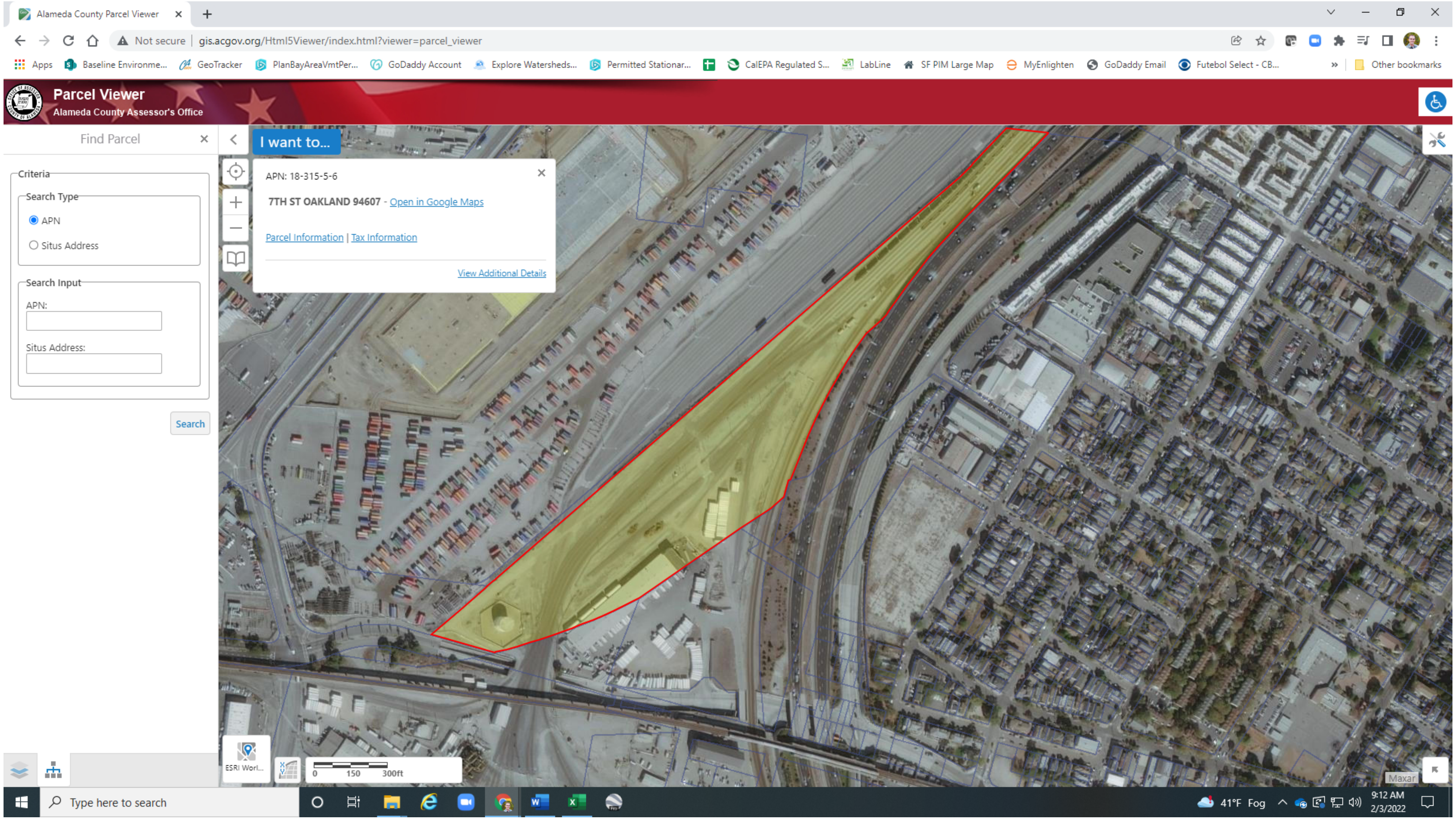
Specialist Clerk I- Alameda County CUPA
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
510.567.6702 (x36702)
QIC: 30440
http://deh.acgov.org/

From: no-reply@acgov.org <no-reply@acgov.org>
Sent: Tuesday, February 1, 2022 7:18 PM
To: dehwebmain, Env. Health Mailbox <dehwebmain@acgov.org>
Subject:

E-mail submitted from: Alameda County Environmental Health

Assessor Parcel Number:	18-315-5-6
Property Address Number:	
Property Address Street:	7TH ST
Property Address City:	Oakland
Contact Full Name:	Patrick Sutton
Contact Phone:	510-922-0080

Contact Email:	patrick@baseline-env.com
Reason for Request:	Need to determine the volume and status of chemical storage in the AST on the property to evaluate potential Explosive and Flammable Hazards for a proposed HUD project located at 801 Pine Street.



Criteria

Search Type

● APN

○ Situs Address

Search Input

APN:

Situs Address:

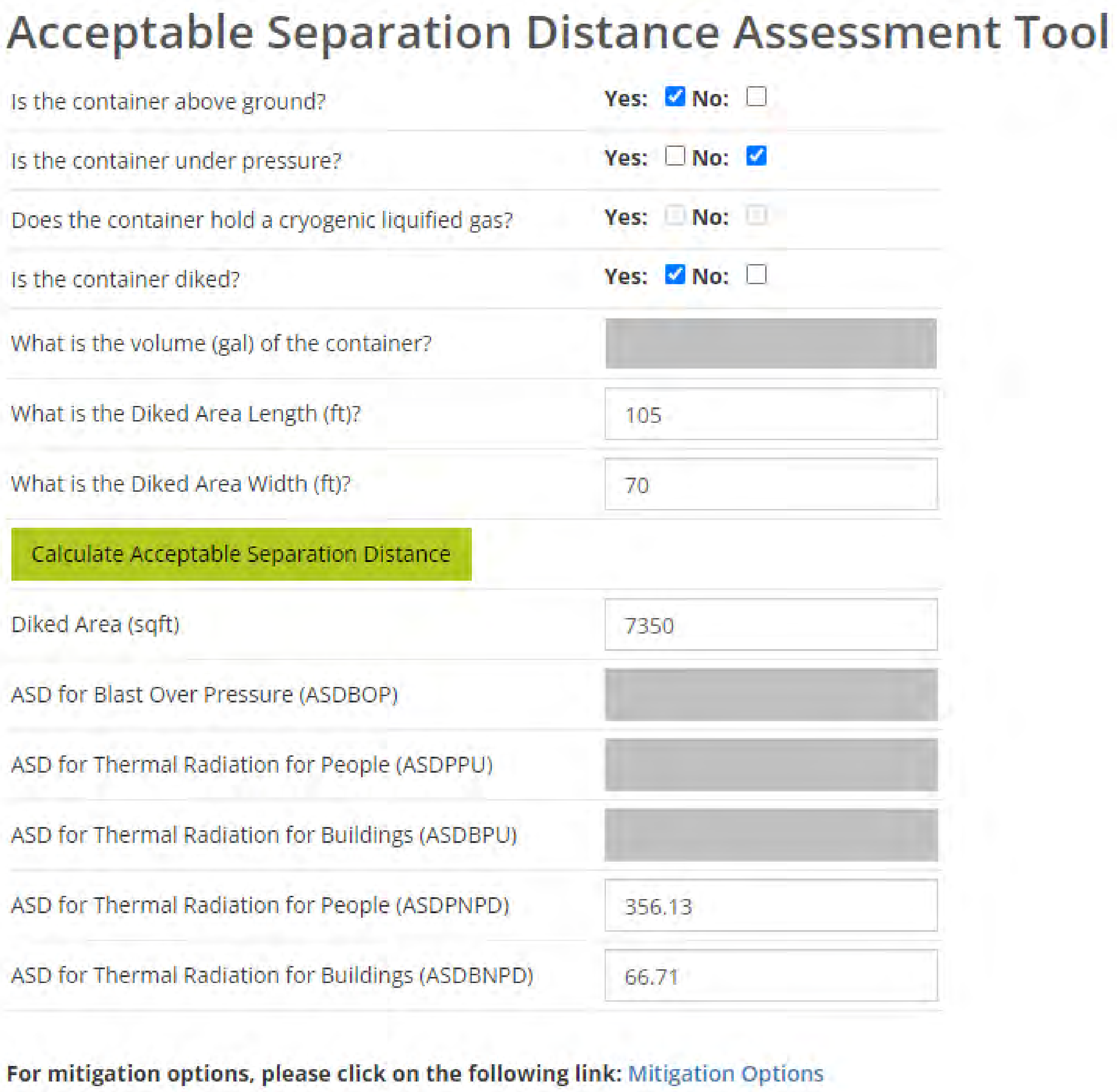
APN: 18-315-5-6

7TH ST OAKLAND 94607 - Open in Google Maps

Parcel Information | Tax Information

View Additional Details

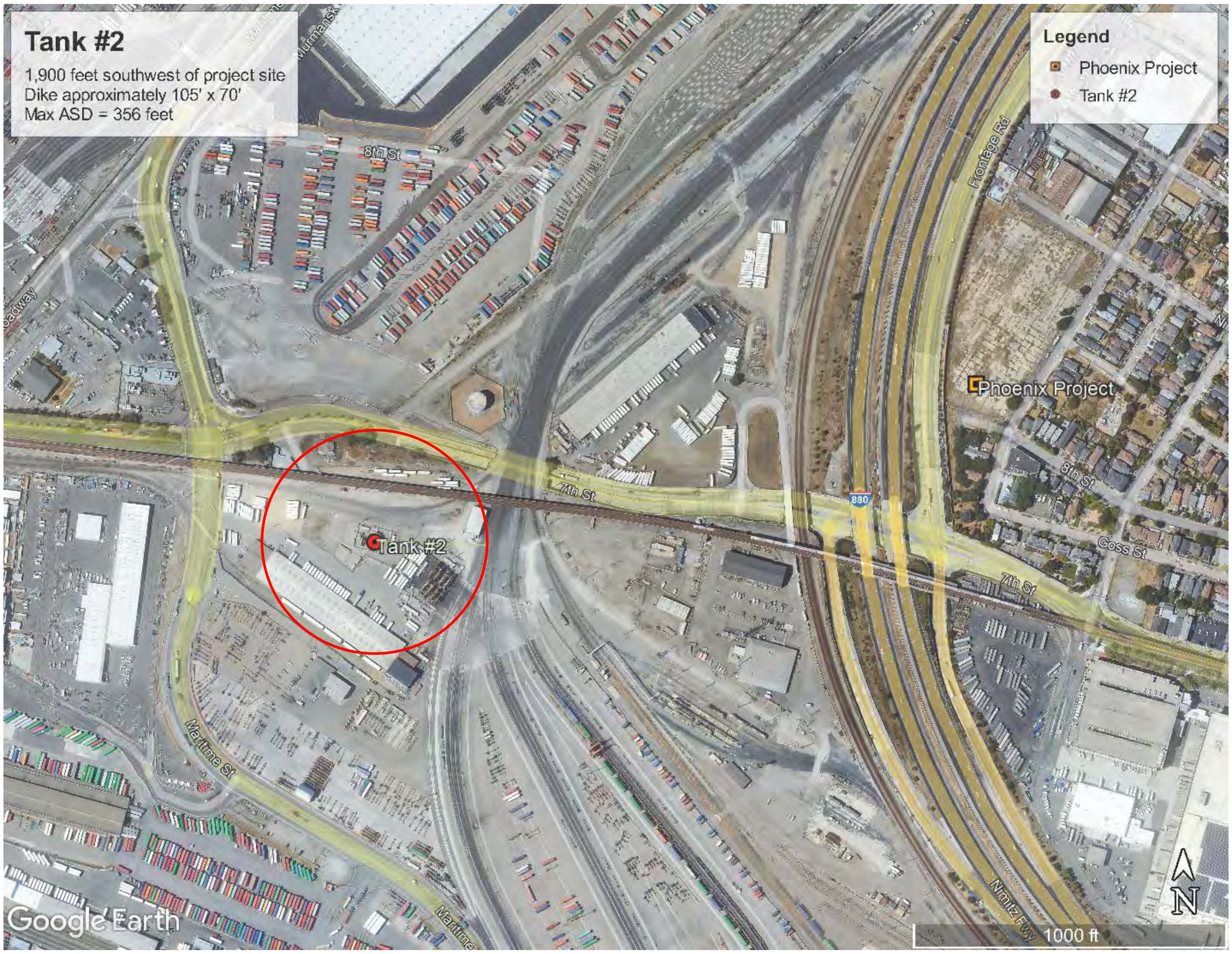
Tank 2 (Dike 105’ x 70’)



Acceptable Separation Distance Assessment Tool

Is the container above ground?	**Yes:** ☑ **No:** ☐
Is the container under pressure?	**Yes:** ☐ **No:** ☑
Does the container hold a cryogenic liquified gas?	**Yes:** ☐ **No:** ☐
Is the container diked?	**Yes:** ☑ **No:** ☐
What is the volume (gal) of the container?	
What is the Diked Area Length (ft)?	105
What is the Diked Area Width (ft)?	70
Diked Area (sqft)	7350
ASD for Blast Over Pressure (ASDBOP)	
ASD for Thermal Radiation for People (ASDPPU)	
ASD for Thermal Radiation for Buildings (ASDBPU)	
ASD for Thermal Radiation for People (ASDPNPD)	356.13
ASD for Thermal Radiation for Buildings (ASDBNPD)	66.71

For mitigation options, please click on the following link: Mitigation Options


Tank #2
1,900 feet southwest of project site
Dike approximately 105' x 70'
Max ASD = 356 feet
Legend
Phoenix Project
Tank #2
Murmansk
8th St
Broadway
Frontage Rd
Phoenix Project
Tank #2
7th St
880
8th St
Goss St
7th St
Maritime St
Maritime
Nimitz Fwy
Google Earth
1000 ft
N

BASELINE ENVIRONMENTAL CONSULTING

Patrick Sutton <patrick@baseline-env.com>

Re: PRA Request

1 message

Dooha-Chambers, Joel, Env. Health <Joel.Dooha-Chambers2@acgov.org>
To: "patrick@baseline-env.com" <patrick@baseline-env.com>

Wed, Feb 2, 2022 at 12:46 PM

Thank you for contacting Alameda County Department of Environmental Health (ACDEH) Certified Unified Program Agency (CUPA) for your Public Records Act Request.

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https://deh.acgov.org/hazmat-assets/docs/CUPA-jurisdictions.pdf

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  Contact: LaTresca Porter at latresca.porter@acgov.org

- Operations Division (retail food, recreation, and tattoo parlors)
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- Vector Control Division
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- Land and Water Division (Local Oversite Program (LOP) and Onsite Wastewater Treatment Systems)
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  Contact: deh.loptoxic@acgov.org
  https://deh.acgov.org/landwater/index.page
  http://geotracker.waterboards.ca.gov/

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Please reach out to us if you have any further questions or clarifications.

Thank you,
Joel Dooha-Chambers

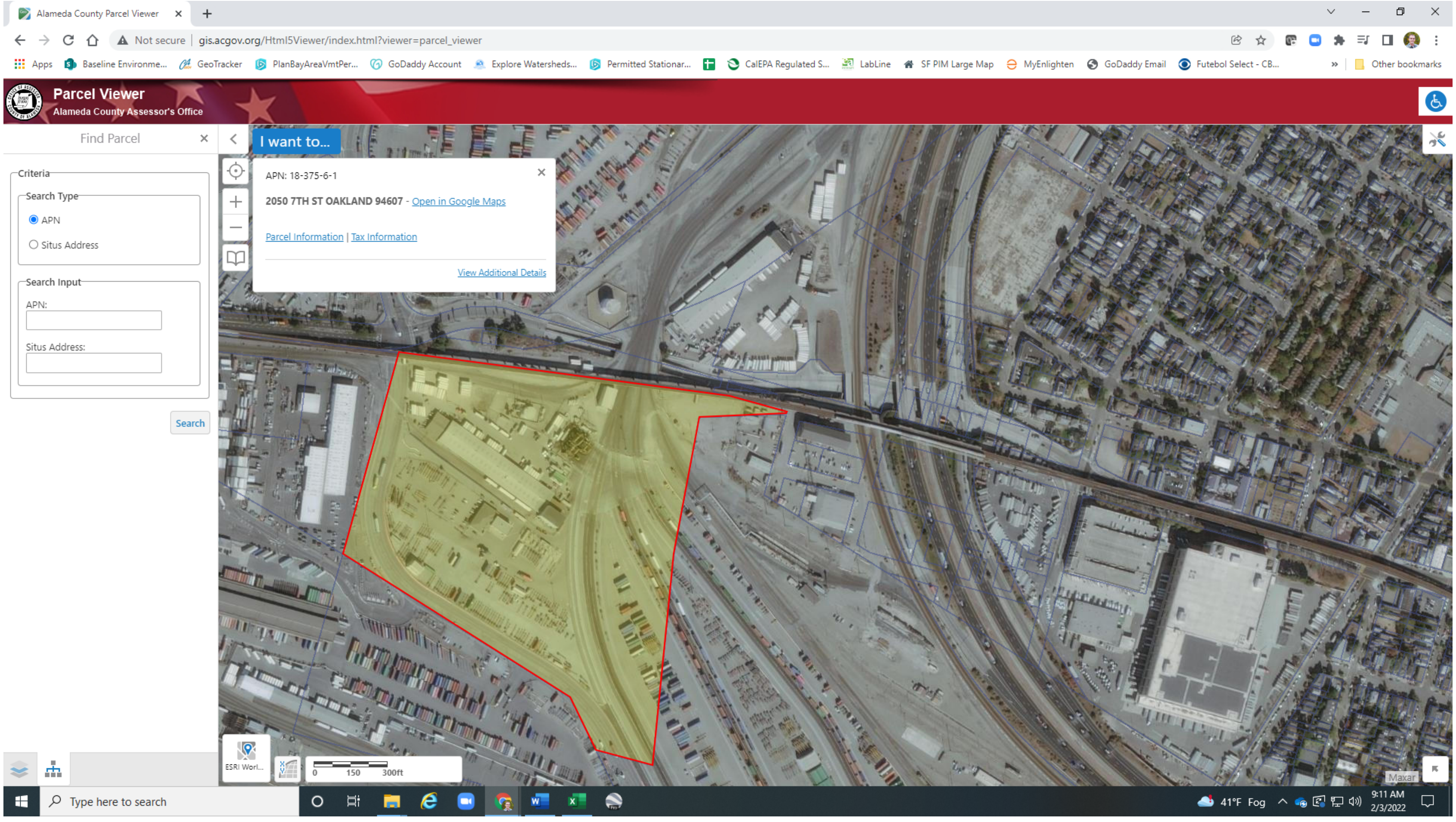
Specialist Clerk I- Alameda County CUPA
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
510.567.6702 (x36702)
QIC: 30440
http://deh.acgov.org/

From: no-reply@acgov.org <no-reply@acgov.org>
Sent: Tuesday, February 1, 2022 7:21 PM
To: dehwebmain, Env. Health Mailbox <dehwebmain@acgov.org>
Subject:

E-mail submitted from: Alameda County Environmental Health

Assessor Parcel Number:	18-375-6-1
Property Address Number:	2050
Property Address Street:	7TH ST
Property Address City:	Oakland
Contact Full Name:	Patrick Sutton
Contact Phone:	510-922-0080

Contact Email:	patrick@baseline-env.com
Reason for Request:	Need to determine the volume and status of chemical storage in the AST(s) on the property to evaluate potential Explosive and Flammable Hazards for a proposed HUD project located at 801 Pine Street.



Criteria

Search Type

● APN

○ Situs Address

Search Input

APN:

Situs Address:

APN: 18-375-6-1

2050 7TH ST OAKLAND 94607 - Open in Google Maps

Parcel Information | Tax Information

View Additional Details

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APPENDIX G

HISTORIC PRESERVATION

CITY OF OAKLAND

DALZIEL BUILDING • 250 FRANK H. OGAWA PLAZA • SUITE 3315 • OAKLAND, CALIFORNIA 94612

Planning and Building Department (510) 238-3941
Bureau of Planning FAX (510) 238-6538
TDD (510) 238-3254

Sent Via Email

April 28, 2022

Julianne Polanco
Office of Historic Preservation
Department of Parks & Recreation
1725 23rd Street, Suite 100
Sacramento, CA 95816
calshpo.ohp@parks.ca.gov

Subject: Request For Section 106 Review: The Phoenix Mixed-Use Affordable Housing Project; 800 Pine Street or 800 Cedar (south half of city block bounded by 9th, Pine, and Shorey Street); Oakland, Alameda County, California; Assessor Parcel Number 006 004700101

Dear Ms. Polanco:

The City of Oakland (City) and the East Bay Asian Local Development Corporation (EBALDC) are proposing to use funding from the U.S. Department of Housing and Urban Development (HUD) for the purposes of providing affordable housing. HUD requires the City to satisfy federal environmental review under the National Environmental Policy Act (NEPA) and the National Historic Preservation Act (NHPA) and all related federal statutes, including 24 CFR Part 58, HUD's Environmental Review Regulations, prior to use of its program funds.

Enclosed are materials to identify and evaluate historic properties and cultural resources within the Area of Potential Effect of this undertaking, pursuant to Section 106 of the Historic Preservation Act and its implementing regulations at 36 CFR Part 800. On behalf of William Gilchrist, Agency Official for this project, I request your views regarding the effect of the project upon historic properties and cultural resources. Horizon Water and Environment, LLC and Baseline LLC have been engaged to prepare the federal environmental review under NEPA and 24 CFR Part 58, HUD Environmental Review Regulations.

Upon reviewing the attached Cultural Resources Assessment Report, I concur with the description of the undertaking and the Area of Potential Effects. The undertaking may result in disturbance and removal of subsurface deposits of potentially important cultural resources and/or Tribal cultural resources during construction, which the City proposes to mitigate with Conditions of Approval that include archaeological monitoring, data recovery and post-discovery review protocols.

Please contact me if you have any questions or need additional information. I can be reached at (510) 238-3659 or hklein@oaklandca.gov.

Thank you,

Heather Klein Planner IV, for
William Gilchrist, Agency Official

cc: Shannon.Pries@parks.ca.gov

Enclosure: *CULTURAL RESOURCES ASSESSMENT REPORT; The Phoenix Mixed-Use Affordable Housing Project*

Final Technical Report

CULTURAL RESOURCES ASSESSMENT REPORT

The Phoenix Mixed-Use Affordable Housing Project
Oakland, Alameda County, California

April 2022

Prepared for:

Heather Klein
City of Oakland
Planning and Building Department
250 Frank H. Ogawa Plaza
Oakland, CA 94612

Prepared by:

Horizon Water and Environment, LLC
P.O. Box 2727
Oakland, CA 94612
Janis Offermann, MA, RPA
Cultural Resources Practice Lead
Kara Brunzell, MA
Senior Architectural Historian

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Limitations

This report contains confidential cultural resources location information; report distribution should be restricted to those with a need to know. Cultural resources are non-renewable, and their scientific, cultural, and aesthetic values can be significantly impaired by disturbance. To deter vandalism, artifact hunting, and other activities that can damage cultural resources, the locations of cultural resources should be kept confidential. The legal authority to restrict cultural resources information is in California Government Code 6254.1 and the National Historic Preservation Act of 1966, as amended, Section 304.

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Table of Contents

Appendices

Figures

Tables

List of Acronyms

AB	Assembly Bill
APE	area of potential effects
API	area of primary importance
APN	assessor's parcel number
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
City	City of Oakland
CHRIS	California Historical Resources Information System
CRHR	California Register of Historical Resources
DPR	California Department of Parks and Recreation
EBALDC	East Bay Asian Local Development Corporation
Horizon	Horizon Water and Environment, LLC
HUD	U.S. Department of Housing and Urban Development
I-880	Interstate 880
NAHC	Native American Heritage Commission
NHPA	National Historic Preservation Act
NRHP	National Register of Historic Places
NWIC	Northwest Information Center
OCHS	Oakland Cultural Heritage Survey
OHP	Office of Historic Preservation
Origer	Tom Origer & Associates
PRC	Public Resources Code
Project	The Phoenix, a mixed-use affordable and supportive housing project (project or proposed project)
RPA	Registered Professional Archaeologist
TCR	tribal cultural resource
The Phoenix	A mixed-use affordable and supportive housing project (project or proposed project)
USC	United States Code
USGS	U.S. Geological Survey

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Executive Summary

The City of Oakland (City) and the East Bay Asian Local Development Corporation (EBALDC) are proposing to develop The Phoenix affordable housing project (project or proposed project), a mixed-use affordable and supportive housing project at the northwest corner of Pine Street and Shorey/8th Street in Oakland, California. The project is part of a larger master-plan development on the 4.65-acre site bound by 9th/Pine/Shorey streets, and the frontage road to Interstate 880 (I-880). The proposed project will consist of 101 affordable apartments and a community building and is Phase 1 of the master-plan development.

The project will be partially funded by the U.S. Department of Housing and Urban Development (HUD); therefore, the Project must comply with the implementing regulations of Title 54 United States Code (USC) Section 306108, commonly known as Section 106 of the National Historic Preservation Act (NHPA) (Section 106), and its implementing regulations under 36 Code of Federal Regulations (CFR) 800, as amended. The project must also comply with the California Environmental Quality Act (CEQA). A cultural resources study for the project was begun in early 2020 by Tom Origer & Associates (Origer). Origer conducted a records search for the project area at the Northwest Information Center (NWIC) of the California Historical Resources Information System (CHRIS) at Sonoma State University and a pedestrian survey of the project site before the project was suspended. Origer was not available to complete the work, once the project was reactivated in the fall of 2021, and Horizon Water and Environment (Horizon) was retained by Baseline Environmental Consultants to prepare this Cultural Resources Assessment Report. Record search materials and the results of the survey, as well as photographs of the project area, were graciously provided by Origer to complete this effort.

The project is immediately adjacent to the western border of the Oakland Point Historic District, which according to the Built Environment Resources Directory (BERD) maintained by the California Office of Historic Preservation, was formally determined eligible for the National Register of Historic Places (NRHP) in 1990. Eleven properties containing historic-era buildings are located both within the boundaries of the Oakland Point Historic District and within the architectural area of potential effects (APE) defined by the City for the Phoenix project. Nine of these historic-era buildings were contributors to the district and two were found ineligible as district contributors as of 1990 (according to the BERD). The current study recommends that one of the contributing residences has been significantly altered such that it no longer retains its historic integrity. Five properties in the Oakland Point Historic District and the APE have residences that are not of sufficient age (50 years) to be considered historic properties. Six parcels within the Oakland Point Historic District and the APE are vacant.

An additional seven parcels are located within the APE for visual effects (i.e., adjacent to the project area) but outside the historic district; four are vacant. There are a total of seven historic-era buildings located on the three properties within the APE and outside the historic district. These properties were evaluated for NRHP eligibility under the current study and one, a commercial building at 1791 8th Street, is recommended eligible for listing.

The Phoenix housing project will not directly impact any of the historical resources in the Oakland Point Historic District or the building at 1791 8th Street; however, it will be visible from each of the parcels and would change the viewscape. That being said, the proposed project is a residential building which is compatible with the mixed use (residential, industrial, and commercial) of the Oakland Point Historic District and its surroundings. Furthermore, the size of the proposed buildings is in scale with industrial buildings historically located on the project site, and the design will be compatible with the historic neighborhood. Therefore, there would be no adverse effect to built environment historic properties pursuant to 36 CFR 800.4(d)(1) as the result of project implementation.

No archaeological resources were identified at the project site, other than the concrete slab remaining after demolition of the Independent Iron Works/Phoenix building: the slab was not recorded on a Department of Parks and Recreation (DPR) form 523. Research indicates that a residence and ancillary building existed on the subject parcel by 1889. By 1931, these were replaced by the iron works foundry, which operated until 1989 when the Loma Prieta earthquake occurred. As a result, there is a potential for discovering late 19th century archaeological remains during demolition of the concrete slab and construction of the Phoenix facility. Research also indicates that the potential for discovery of tribal resources is low based on the site's location near the historic margins of San Francisco Bay and now overlain by artificial fill as well as the geology (sand dunes) which would likely not have supported substantial human activity. However, Native American outreach to local tribes indicated that the project site may be located near a potentially significant pre-Contact site; therefore, there is also the possibility of encountering ancestral Native American materials during project construction.

1 Introduction

1.1 Location and Setting

The project site is located at 801 Pine Street in southwest Oakland, Alameda County, California (**Figure 1**), as depicted on the Oakland West 7.5' U.S. Geological Survey (USGS) topographic map (**Figure 2**). The project is in the Prescott neighborhood, at the west edge of residential Oakland (City of Oakland 2014a, 2014b). I-880 is directly west, and west of the freeway is the Port of Oakland and the San Francisco Bay. The area is characterized by residences that date back to the 1800s, along with some historic-era commercial and industrial buildings and contemporary residential infill. The houses across from the project parcel along the east side of Pine Street and at its intersection with 9th Street are within the Oakland Point Historic District and the APE. (The historic district extends beyond the project APE to the east and north.) A property featuring several historic-era industrial buildings is across the street from the subject parcel to its north; there is a historic-era church across the street from the subject parcel to its south and a historic-era commercial building to the southeast. These three historic-era properties are outside the boundaries of the historic district.

The project site consists of 0.9 acres which is the south half of a larger 4.65-acre site (APN 006-0047-001-00 and APN 006-0047-002-00) that comprises the city block bounded by 9th, Pine, and Shorey (the west extension of 8th Street) streets on the north, east, and south, respectively; the frontage road (once the location of Cedar Street) to I-880 marks the west side of the block. The parcel is flat and sits at an elevation of 10 feet above sea level. The block was once occupied by a large factory/warehouse that was demolished to accommodate construction of I-880 in the 1990s (see Section 2.3, Historic Era Context, for a history of the project area). Today, the block is covered with decomposing concrete (**Figure 3**). Vegetation is sparse and limited to grasses and forbs that have pushed through cracks in the concrete, along with a few trees at the edge of the parcel.

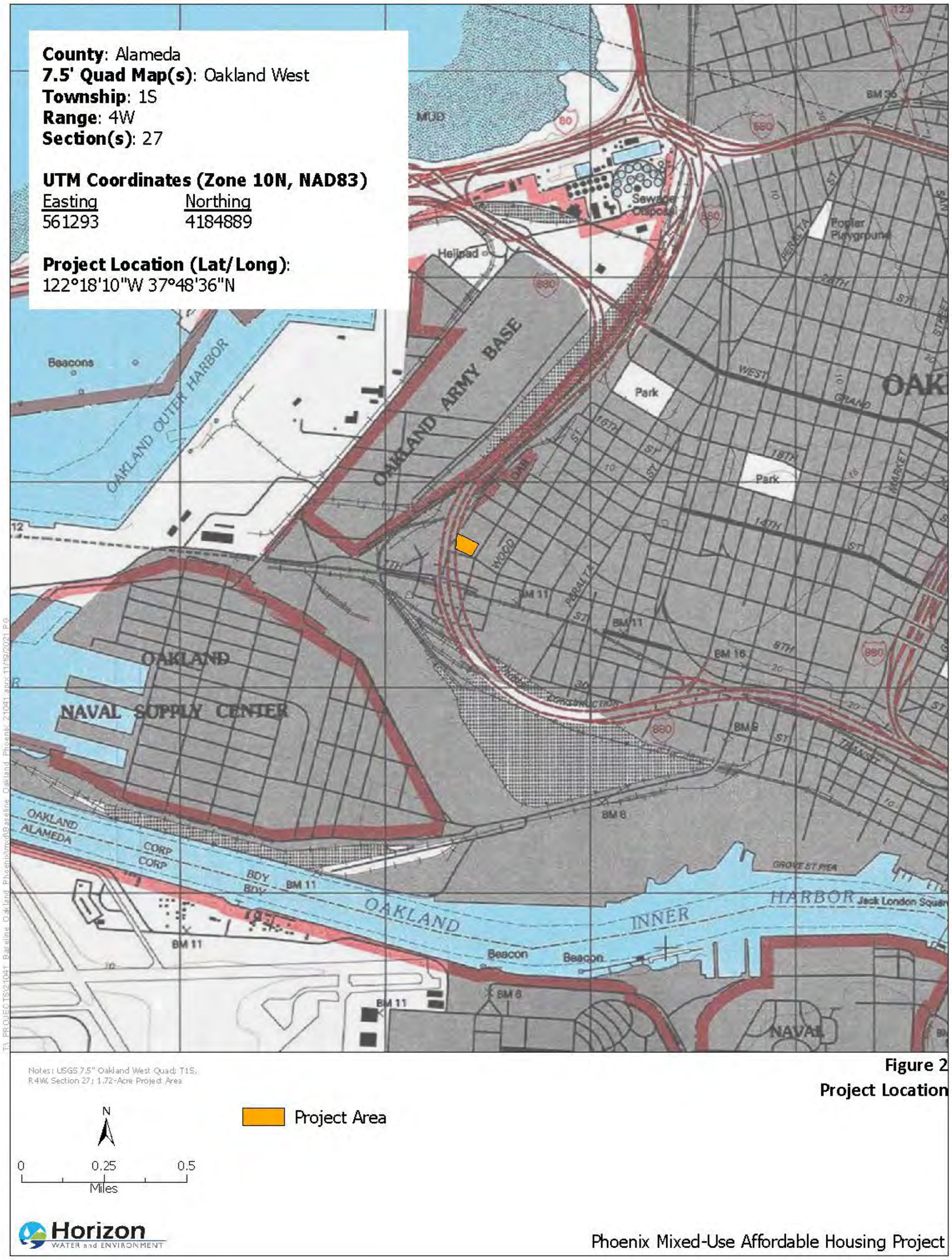
1.2 Project Description and Area of Potential Effects

1.2.1 Project Description

The proposed project will construct a four-story, 101-unit residential building and a two-story community building (**Figure 4**). The project is part of a larger master-plan development that will consist of a total of 316 apartments and 12,000 square feet of ground floor retail and commercial maker space on the 4.65-acre site bound by 9th/Pine/Shorey streets, and the frontage road to I-880. The proposed project will consist of 101 affordable apartments and a community building and is Phase 1 of the master-plan development. There will be a shared access fire lane for the master plan along the west side of the subject property, but the proposed project will only be responsible for construction and maintenance of the portion of the lane that sits on the subject parcel, and all the required fire access needed by the subject property will sit on the subject parcel. For these reasons, the current proposed project is not dependent on future phases and their associated improvements.

Figure 1
Project Vicinity

● Project Location



County: Alameda
7.5' Quad Map(s): Oakland West
Township: 1S
Range: 4W
Section(s): 27

UTM Coordinates (Zone 10N, NAD83)

Easting	Northing
561293	4184889

Project Location (Lat/Long):
122°18'10"W 37°48'36"N

Notes: USGS 7.5" Oakland West Quad; T1S, R4W, Section 27; 1.72-Acre Project Area

🟧 Project Area

Figure 2
Project Location

Phoenix Mixed-Use Affordable Housing Project

Figure 3. Project Site View to North from Shorey Street (courtesy of Tom Origer & Associates 2020)

Figure 4. Perspective from Pine Street and Shorey Street Intersection (Lowney Architecture 2018)

The L-shaped residential building will be wood frame and factory built. Its west leg will be four stories and its north leg three stories. Exterior materials will include board-form concrete at the foundation as well as wood composite veneer, stucco, and fiber cement panels. Fenestration will consist of vertically oriented rectangular openings of varying widths. approximately half of the units will be permanent supportive housing. Supportive housing combines permanent, independent rental apartments with services that help people who formerly experienced homelessness live more stable, productive lives. The balance of the residential units will be reserved for low-income households, with incomes no greater than 60 percent of the area median income. Each apartment will have its own bathroom and kitchen area. The unit mix will be 82 studios, three one-bedroom units, and 16 two-bedroom units. Lobby space and trash facilities will be located on each floor.

The approximately 7,503-square-foot community building will be L-shaped and two stories. Exterior materials will include stucco, and fiber cement panels. Horizontal wood composite cladding will be utilized around the corner entrance facing the intersection of Pine and Shorey streets. Fenestration will consist of large vertically oriented rectangular openings. The community building will provide meeting space and office space for the case workers, property managers, and security guards who support the health of the residents. The community building will also include laundry facilities, mailboxes, and a bike room with 75 long-term bicycle parking spaces for residents. The residential and community building will surround a 3,582-square-foot courtyard that will serve as outdoor common space for the buildings' residents. An access road will be developed along the western boundary of the property; it will provide a fire lane along with 21 surface parking spaces on either side. The project will provide several on-street vehicle parking spaces along Shorey Street near the south elevations of the buildings. Concrete curbing and gutters will also be developed.

Design plans and visual simulations for the project are provided in **Appendix A**.

1.2.2 Area of Potential Effects

The area of potential effects (APE) (**Figure 5**) for the proposed project consists of the entire block that contains the project site on its south half, and the first row of adjacent buildings to the north, east, and south; there are no buildings to the west.

The archaeological APE is limited to the south half of parcel APN 006-0047-001-00, which is the block bounded by 9th/Pine/Shorey streets, and the frontage road to I-880 as well as Shorey Street. The vertical archeological APE is 10 feet below the ground surface to accommodate utility installations/connections, and 56 feet above the ground surface to reflect the highest point of the new facilities.

The individual parcels surrounding the project site constitute the architectural APE. There are 29 parcels within the indirect architectural APE (**Figure 6**); of these, 19 contain at least one building and one contains a structure, while the balance (nine parcels) are vacant lots. Potential adverse effects pursuant to Section 106 primarily pertain to potential visual effects on historic properties within the APE by construction of the new facility.

T:\ PROJECTS\21041 Baseline Oakland Phoenix\Map Projects\Baseline Oakland Phoenix 21041.aprx 4/15/2022 PG

▨ Project Site

▭ Area of Potential Effects

▬ Oakland Point Historic District Boundary

― Roads

N

0 75 150 300 Feet

Horizon WATER and ENVIRONMENT

Figure 5

Area of Potential Effects

Phoenix Mixed-Use
Affordable Housing Project

▨ Project Site
Oakland Point Historic District Boundary
Roads

Resource Status

🟩 District contributor (per BERD) lacks integrity
🟪 District contributor (per BERD) retains integrity
🟦 District non contributor (per BERD)
🟥 Evaluated by this study recommended eligible
🟩 Evaluated by this study recommended ineligible
⬛ Not historic period
▨ Subject Parcel
▦ vacant

Figure 6
Resource Status

Phoenix Mixed-Use
Affordable Housing Project

T:\ PROJECTS\21041 Baseline Oakland Phoenix\Map Projects\Baseline Oakland Phoenix 21041.aprx 3/24/2022 PG

1.3 Federal Policies and Regulations

1.3.1 National Environmental Policy Act, 42 U.S.C. Sections 4321–4347, 40 C.F.R. Part 1508.27

NEPA, as amended, establishes the federal policy for assessing effects on important historic, cultural, and natural aspects of our national heritage during federal project planning. All federal or federally assisted projects requiring action pursuant to Section 102 of NEPA must take into account the effects on cultural resources. According to the NEPA regulations, in considering whether an action may "significantly affect the quality of the human environment," an agency must consider, among other things, unique characteristics of the geographic area such as proximity to historic or cultural resources (40 C.F.R. § 1508.27(b)(3)) and the degree to which the action may adversely affect districts, sites, highways, structures, or objects listed in or eligible for listing in the National Register of Historic Places (NRHP).

The NEPA regulations also require that, to the fullest extent possible, agencies prepare draft environmental impact statements concurrently with and integrated with environmental impact analyses and related surveys and studies required by the National Historic Preservation Act (NHPA). When Section 106 of the NHPA and NEPA are integrated, project impacts that cause adverse effects under Section 106 are usually considered to be significant under NEPA.

1.3.2 Section 106 of the National Historic Preservation Act

Section 106 of the NHPA requires federal agencies to consider the effects of their actions on historic properties (54 U.S.C. 306108). The Section 106 review process typically consists of the following major steps by federal agencies, all of which occur in consultation with the State Historic Preservation Officer (SHPO), Native American Tribes, and other consulting parties.

1. Initiate Section 106 process by defining the federal undertaking and establishing a plan for consultation.

2. Identify the area of potential effect (APE).

3. Identify historic properties within the limits of the APE.

4. Assess the effects of the undertaking by applying the criteria for adverse effects.

5. Resolve adverse effects.

The Section 106 regulations define an adverse effect as an effect that alters, directly or indirectly, the qualities that make a resource eligible for listing on the NRHP (36 C.F.R. § 800.5[a][1]).

Consideration must be given to the property's location, design, setting, materials, workmanship, feeling, and association, to the extent that these qualities contribute to the integrity and significance of the resource. Adverse effects may be direct and reasonably foreseeable or may be more remote in time or distance (36 C.F.R. § 800.5[a][1]).

1.3.3 National Register of Historic Places

The NRHP is a federal registration program that was established in the NHPA and is administered by the National Parks Service. Historic properties are districts, sites, buildings, structures, and/or objects that are listed in or eligible for listing in the NRHP (36 C.F.R. §800.16[l][1]). A property may be listed in the NRHP if it meets the criteria for significance and integrity described in the NRHP regulations (36 C.F.R. § 60.4).

Historic properties possess integrity of location, design, setting, materials, workmanship, feeling, and association that conveys historical significance found under one or more of the following significance criteria:

A. That are associated with events that have made a significant contribution to the broad patterns of our history; or

B. That are associated with the lives of persons significant in our past; or

C. That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess artistic value, or that represent a significant and distinguishable entity whose components may lack individual distinction; or

D. That have yielded, or may be likely to yield, information important in prehistory or history.

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2 Project Context

2.1 Pre-Contact Context

The pre-contact (or prehistoric) era of the project area reflects information known about the indigenous population from the time the region was first populated with humans until the arrival of the first Europeans, who visited and recorded their journeys through the written record. The pre-contact record is derived from over a century of archaeological research, and while much has been gleaned from these studies, large gaps in the data record remain. The following pre-contact culture sequence, derived from Milliken et al. (2010:114-118), briefly outlines the prehistory of the San Francisco Bay region.

The Early Holocene (Lower Archaic; 8000 to 3500 B.C.) is considered a time when populations continued to be very mobile as they practiced a foraging subsistence pattern around the region. Artifacts that characterize this period include the milling slab and handstone to process seeds, as well as large wide-stemmed and leaf-shaped projectile points.

The Early Period (Middle Archaic; 3500 to 500 B.C.) is marked by the appearance of cut shell beads in the archaeological record, as well as the presence of the mortar and pestle for processing acorns. House floors with postholes indicate substantial living structures, which suggests a move toward establishing a more sedentary lifestyle and an increasing population.

The Middle Period, which includes the Lower Middle Period (Initial Upper Archaic; 500 B.C. to A.D. 430) and Upper Middle Period (Late Upper Archaic; A.D. 430 to 1050), appears to be a time when geographic mobility may have continued, although groups began to establish longer-term base camps in localities from which a more diverse range of resources could be exploited. The first rich black middens are recorded from this period. The addition of milling tools, obsidian and chert concave-base projectile points, and the occurrence of sites in a wider range of environments suggest that the economic base was more diverse. By the Upper Middle Period, mobility was being replaced by the development of numerous small villages. Around A.D. 430 a “dramatic cultural disruption” occurred, as evidenced by the sudden collapse of the Olivella saucer bead trade network.

The Initial Late Period (Lower Emergent; A.D. 1050 to 1550) reflects a social complexity that had developed toward lifeways of large, central villages with resident political leaders and specialized activity sites. Artifacts associated with the period include the bow and arrow, small corner-notched projectile points, and a diversity of beads and ornaments.

The Terminal Late Period (Upper Emergent; A.D. 1550 to circa 1750) generally represents the indigenous cultures that were encountered by the Spanish when they first arrived in San Francisco Bay.

2.2 Ethnohistoric Context

The population indigenous to the project area spoke a language referred to as Costonoan, a derivative from a Spanish term for “coast people.” Costonoan, which consisted of six known languages and various dialects within those languages, was spoken over a broad territory that included all of the San Francisco Peninsula and all lands along the east and south of San Francisco Bay, and that extended south to include Monterey Bay, Salinas Valley, and the area around Hollister. Those residing in the project area likely spoke the Chochenyo dialect of San Francisco Bay Costonoan (Milliken et al. 2009:33-35).

The Costonoan peoples, who are referred to as the Ohlone, Mutsun, or Rumsen, depending on geography, were not a united cultural or political entity (Milliken et al. 2009:2-4). Rather, there were strong differences, not only in language but also in culture, between the San Francisco and Monterey bay occupants, and political affinity was based on the tribelet, which comprised one or more villages within a specific geographic territory (Levy 1978:487).

Tribelet territory had a range of 10 to 12 miles in diameter and contained a population that consisted of 200 to 400 people living among four or five villages (Milliken et al. 2010:99). Those living in the project area resided in large villages along permanent streams in locations that allowed access to the diverse resources found in the tidal marshlands, the valley floor, and the hills. (Milliken et al. 2010:106; Moratto 2004:225).

The Ohlone group associated with the project area are the Huchiuns, who occupied all of the lands bordering San Francisco Bay from Oakland north to Richmond and the Carquinez Strait (Milliken et al. 2009:40). Records indicate that they were closely tied to the Yelamu tribe, who lived across the bay on the northern San Francisco Peninsula, with whom they shared the Chochenyo language dialect, intermarried, and traded. No Huchiun villages are known within proximity to the project site.

The Huchiuns were among the first in the region to feel the impact created by the arrival of the Spanish. Mission Dolores was founded in San Francisco in 1777, and Mission Santa Clara, in the town of Santa Clara, was established just seven months later. This was followed by the pueblo at San Jose (El Pueblo San Jose de Guadalupe) shortly thereafter (Kyle et al. 2002:423-424). Members of the Huchiuns were quickly conscripted into Mission Dolores, and by 1794 the tribe had the largest population of any local tribe there. The following year, they rebelled, along with their Saclan neighbors who lived around Mount Diablo, and many returned to the East Bay. Mission San Jose, in present-day Fremont, was established in 1797 in response to the rebellion. Most of the Huchiun population appears to have been returned to Mission Dolores or other nearby missions over the next two decades.

Today the Ohlone reside throughout the region and strive to maintain their cultural traditions.

2.3 Historic-Era Context

Northern Alameda County was part of Rancho San Antonio, a vast tract of land granted to the Peralta family (who lived in San José) in 1820. Like other Mexican land grant recipients, the Peraltas had difficulty holding onto their land after California entered the United States in 1850. When the Gold Rush brought large numbers of Americans to California in 1849, the East Bay became an important transit station for passengers and cargo. American hunters and fortune-seekers began camping in the area that would become Oakland. Horace Carpentier was one of these squatters, and after obtaining a lease from the Peralta family incorporated Oakland in 1852. Carpentier received an extremely valuable grant for the use of most of its waterfront at the first meeting of the city trustees (PGAdesign Inc. and Page & Turnbull 2006; Wood 1883).

Oakland Point is notable for its position as the closest East Bay land location to San Francisco. In the 1850s, the area was occupied by small farm plots and cut off from the rest of the city by a large marsh, with more marshes to the north and south. These marshes were initially used as dumps and sewage outlets before their development for industrial uses in the 20th century. In the 1860s, Rodmond

Gibbons and partners developed the Bay Street Wharf and the San Francisco and Oakland Railroad at the Point. The railroad included a commuter line that met the ferry at the wharf. Railroad service began in 1862-63 and was expanded to the east in 1864 and the west in 1868. In 1869 the Central Pacific Railroad connected Oakland Point to the transcontinental railroad. Former mayor Horace Carpentier formed a partnership with the Central Pacific Railroad in 1869. He subsequently deeded most of the waterfront to the Central Pacific Railroad, allowing Oakland to become the western terminus of the railroad, with transcontinental shipping passing through, but preventing other development in the area. The railroad tracks and pier system were expanded in 1870, 1871, and 1879–1881; at one point, the piers extended 2 miles into the Bay to reach deep water (City of Oakland 1990; Minor 2000).

Railroad development in the area led to rapid residential and commercial growth in the 1870s. Two large-scale developers, John Winfield Pearson and John Ziegenbein, built many houses in Oakland Point over the 1870s-1890s. The neighborhood was largely built out by the end of the century; 70 percent of buildings extant in the historic district in 1990 were built before 1889. Large numbers of Oakland Point residents were railroad employees through the 1930s; until the 1920s, railroad workers were required to live west of Adeline Street near their jobs. The Pullman Palace Car Company, which employed exclusively Black porters, arrived in 1869, giving rise to the beginnings of Oakland's large and early Black population. The Pullman Company employed around 30 percent of the local Black population as late as 1929. Many Oakland Point residents of this era were lodgers and moved frequently, especially those who worked for the railroad. The Point was also a convenient residential area for San Francisco commuters. Early Oakland Point included a notably large population of working women; an 1880–1881 city directory reported at least 15 businesses owned by women. Oakland Point during the 19th century was dominated by Americans who had moved to Oakland from northern states and immigrants from northwestern Europe, with small but visible Black and Chinese communities. By 1900, there were significant Irish, British, German, and Scandinavian populations as well as over 1,000 Black residents (nearly 20 times the 1870 Black population). The early 20th century saw large increases in the Italian and Slavic populations. The surrounding city grew significantly at this time; Oakland's population doubled between 1900 and 1910 as a result of the 1906 San Francisco earthquake. The Point's Black population also continued to grow and included homeowners and business owners. The Pacific Coast Real Estate and Employment Company was established in 1907 to serve this growing community. The Oakland and East Bay Negro Business League, the first organization of its kind in the region, was formed in 1919. Oakland Point was known in the 1920s and 1930s for its Black music venues and nightclubs; touring performers were barred from most hotels and generally lodged with local residents. Oakland Point was highly praised by residents in the first decades of the 20th century for its racial diversity (Allen 2005; City of Oakland 1990).

By 1910, the Western Pacific Railroad had broken the Southern Pacific Railroad (successor to the Central Pacific Railroad) monopoly in court. This action allowed the Western Pacific to construct its own pier to the south of the existing pier and begin its own service as the main freight and passenger route from the Bay Area to Northeastern California. Oakland Point's hold as the geographic center of the railroad industry was diluted by the Southern Pacific Railroad's conversion of local passenger service from steam to electric, which required more widely-scattered headquarters. There were several electrical power stations in the region, and lineman had to maintain long overhead power lines, so electrical service maintenance was dispersed rather than concentrated in the rail yards. The Southern Pacific Railroad built a car shop in Alameda, and the Oakland Point area began to open to other kinds of development; by the 1910s; most new construction in Oakland Point was for industrial properties located around the edges of the neighborhood's residential center. This included the establishment of shipyards and shipping terminals, which expanded significantly during World

War I. Oakland became one of the foremost shipbuilding centers in the nation; in 1920, their peak year, Oakland shipyards reportedly employed more men than every other industry combined. Oakland Point continued to develop local businesses in the 1910s and 1920s, especially along 7th Street (Railroad Avenue) including neighborhood-serving ventures like grocery stores and gas stations. Business owners tended to live in the neighborhood, and Oakland Point was noted locally for residents' ability to meet all their needs without leaving the Point. The influence of the railyards declined in the 1920s as trucking began to compete with rail freight and ferry service became an increasingly significant part of the Southern Pacific Railroad's business. Passenger service declined as well with the opening of the Bay Bridge between Oakland and San Francisco in 1936, and local service stopped in 1941 (City of Oakland 1990).

The City of Oakland was zoned in the 1930s, by which time it was one of the largest cities in California. Oakland Point was zoned industrial (a designation retained until 1974). By the 1930s, houses in the Point were considered deteriorated, and new residential redevelopment began in 1939 with the construction of two large Federally funded housing projects, Campbell Village and Peralta Villa. These housing projects were controversial among Oakland Point residents, many of whom regarded them as an insidious attempt at racial segregation. Objectors pointed out that the locations chosen for the projects had large numbers of Black residents, while whiter blocks in worse condition were allowed to remain. The 1939 studies that justified the projects explicitly mapped "non-white families" alongside factors like disease and substandard housing. At least half of the displaced residents were homeowners with limited options to buy elsewhere, and attempts to force the projects to integrate were only moderately successful. During World War II, Oakland shipyards sent recruiters to the south and more than 50,000 Black people moved to the East Bay. High demand for housing led to further rapid residential redevelopment as single-family houses were divided into multiple units and commercial buildings were converted to housing. Many houses in Oakland Point had basement units added in the 1940s. Moore Shipyards built its own housing project in 1942 to accommodate wartime employees, and there were several other temporary dormitories for wartime workers in industrial neighborhoods around the city (Allen 2005; City of Oakland 1990).

Historically an integrated area, Black residents became a larger percentage of the population in West Oakland as southerners moving to the Bay Area for defense work displaced Black communities in East Oakland, Richmond, and other cities across the region. Oakland Point's Black population reached a majority of around 80 percent in 1950 and remained about the same until at least the 1980s. The Oakland City Council designated West Oakland as "blighted" in 1949, leading to additional demolitions that decreased its population. Redevelopment projects of the ensuing decades continued to target West Oakland's Black population. In the 1950s, Cypress Freeway construction cut through the neighborhood and isolated it from the rest of the city. Five hundred homes were demolished for the US Postal Distribution Center in 1960, and much of the neighborhood's commercial core on 7th Street (which has been home to a lively cultural scene) was destroyed in 1970 to make way for the Bay Area Rapid Transit station. By the end of the 1960–1970 era of urban renewal, more than 800 businesses had closed, 2,500 houses had been demolished, and almost 5,000 households had been pushed out (Bindman 2020; City of Oakland 1990).

Redevelopment was a devastating blow to a community that had been hit hard by the shrinking railroad industry and loss of industrial jobs in the decades following the end of World War II. Redlining meant that West Oakland homeowners were excluded from federally insured mortgages. Of the 137 groceries serving in West Oakland in 1960, just 22 remained by 1980, and many of these businesses had been replaced by liquor stores. Social problems followed disinvestment and redevelopment. Oakland, and particularly West Oakland, was hit hard by the drug epidemics of the 1970s and 1980s, with drugs sold openly on many corners and violence following the drug trade. The large office buildings, hotels, and convention center facilities that brought economic revitalization to downtown Oakland during this era did not bring similar benefits to West Oakland (Lindsey 1984; Schwarzer 2021).

The Loma Prieta earthquake in 1989 destroyed a number of historic buildings in Oakland Point, and the Cypress Freeway collapsed, killing 42 people. Oakland Point and South Prescott residents organized and successfully pushed Caltrans to re-route I-880 around the neighborhood, turning the space previously used by the freeway into a greenway called the Mandela Parkway. Gentrification due to the Bay Area's tech economy began to affect Oakland in the 1990s and escalated after 2000. An eviction crisis led to unprecedented levels of homelessness in the city, and the Black population has consistently declined in numbers for decades. By 2010, Oakland's Black population was smaller than the white population for the first time since 1970, and by 2020 only about one out of four households in West Oakland was Black (City of Oakland 2014a; Connect Oakland 2015; Jackson 1998; Rowen 2021).

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3 Native American Consultation and Archival Research

In accordance with the Secretary of the Interior's Standards and the Guidelines for Archaeology and Historic Preservation (Title 48 CFR Section 44716 [amended 1983]), the goals of this cultural resources assessment were to identify and completely document the location, qualities, and condition of any potential historic properties in the project's APE. Methods employed to achieve these goals follow.

3.1 Native American Consultation

An email request was made to the Native American Heritage Commission (NAHC) on November 19, 2021, to review its files for the presence of recorded sacred sites on the project site. The NAHC responded on February 14, 2022. Their letter noted that the sacred lands file search was positive, indicating that significant Native American resources are located near the project site. The NAHC also recommended contacting the Amah Mutsun Tribal Band of Mission San Juan Bautista and the North Valley Yokuts Tribe for additional information.

The City contacted the Amah Mutsun Tribal Band of Mission San Juan Bautista and the North Valley Yokuts Tribe, as well as 11 additional tribes on January 27, 2022, via U.S mail with a return receipt, as well as by email. Letters were also sent to additional contacts for the Indian Canyon Mutsun Band of Costanoan, Muwekma Ohlone Indian Tribe of the SF Bay Area, North Valley Yokuts Tribe on February 17, 2022, as the result of the NAHC response letter. **Table 1** lists those contacted and summarizes the results of the outreach.

Table 1. Native American Consultation (results as of February 3, 2022)

Organization/Tribe	Name of Contact	Letter Date	Response	Comments
Amah Mutsun Tribal Band of Mission San Juan Bautista	Irene Zwierlein, Chairperson	01/27/2022	No formal response to date	
Costanoan Rumsen Carmel Tribe	Tony Cerda, Chairperson	01/27/2022	No formal response to date	
Guidiville Indian Rancheria	Donald Duncan, Chairperson	01/27/2022	No formal response to date	
Indian Canyon Mutsun Band of Costanoan	Ann Marie Sayers, Chairperson	01/27/2022	No formal response to date	

Organization/Tribe	Name of Contact	Letter Date	Response	Comments
Muwekma Ohlone Indian Tribe of the San Francisco Bay Area	Charlene Nijmeh, Chairperson	01/27/2022	No formal response to date	
North Valley Yokuts Tribe	Katherine Erolinda Perez, Chairperson	01/27/2022	No formal response to date	
Rumsen Am:a Tur:ataj Ohlone	Dee Dee Manzanares Ybarra, Chairperson	01/27/2022	No formal response to date	
Tamien Nation	Quirina Luna Geary, Chairperson	01/27/2022	Email response on February 1, 2022	Deferred to Corrina Gould and Andrew Galvin
The Confederated Villages of Lisjan	Corrina Gould, Chairperson	01/27/2022	Email response on January 31, 2022	Requested results of NAHC sacred lands search and a copy of the cultural resources report. A response was sent on behalf of the City on the same day, noting that the NAHC had not responded, and that the cultural report would be made available when it was completed. Noted the project is near a potentially significant site in a subsequent email on 02/09/2022. Additional project locational information was provided via email on the same day.
Ohlone Indian Tribe	Andrew Galvin	01/27/2022	No formal response to date	
Tule River Indian Tribe	Neil Peyron, Chairperson	01/27/2022	No formal response to date	

Organization/Tribe	Name of Contact	Letter Date	Response	Comments
Wilton Rancheria	Jesus G. Tarango Jr., Chairperson	01/27/2022	No formal response to date	
Wuksache Indian Tribe/Eshom Valley Band	Kenneth Woodrow, Chairperson	01/27/2022	No formal response to date	
Indian Canyon Mutsun Band of Costanoan	Kanyon Sayers-Roods, MLD* Contact	02/17/2022	Email response on March 17, 2022	Noted the project is near a potentially significant site. interest in consulting, recommending construction monitoring, sensitivity training, and acknowledgement of the Ohlone ancestry in some manner (such as a plaque) at the new facility
Muwekma Ohlone Indian Tribe of the San Francisco Bay Area	Monica Arellano, Vice Chairwoman	02/17/2022	No formal response to date	
North Valley Yokuts Tribe	Timothy Perez, MLD Contact	02/17/2022	No formal response to date	

*MLD = Most Likely Descendent

Chairperson Corrina Gould, Chairperson of the Confederated Villages of Lisjan, and Kanyon Sayers-Roods, representing the Indian Canyon Mutsun Band of Costanoan, both indicated that project site may be very near an important Native American resource. This information was forwarded to the project proponent. All correspondence with the NAHC and Native American tribes, is provided in **Appendix B**..

3.2 Archival Research and Results

A record search was conducted by Origer at the NWIC on May 1, 2020 (NWIC File No. 19-1765) (see **Appendix C**). The purpose of the record search was to determine whether any portions of the project area had been previously surveyed for cultural resources and to identify the presence of any previously recorded cultural resources within the project study area, as well as within a 0.25-mile buffer. According to the record search results, four previous studies have been conducted within or partially within the current project study area. Another 14 studies have been conducted within the 0.25-mile search radius. Studies identified by the record search in the project area are listed in

Table 2. Other sources of information reviewed included, but were not limited to, the current listings of properties on the National Register of Historic Places, California Historical Landmarks, California Register of Historical Resources, California Points of Historical Interest as listed in the Office of Historic Preservation's (OHP's) Historic Property Directory, and the Built Environment Resource Directory for Alameda County available at the OHP website.

Table 2. Previous Studies within the Project Study Area

Report Number	Author(s)	Year	Title
Studies within the Project Study Area			
S-012289	Garaventa, D. M., M. R. Fong, S. A. Jarvis, and A. M. Banet	1990	Archaeological Survey Report I-880/Cypress Replacement Project, 04-ALA-880 P.M. 32.4/34.3, Cities of Oakland and Emeryville, Alameda County, California
S-025526	Busby, C. I., M. E. Tannam, and D. M. Garaventa; and M. R. Corbett and W. C. Minor	1997	Historic Property Survey Report/Finding of Effect 50-Foot Channel Navigation Improvements Project, Oakland Harbor, Alameda County
S-037362	California Department of Transportation	1990	Historic Property Survey Report for the Proposed I-880 Reconstruction Project in the Cities of Oakland and Emeryville, Alameda County
S-046249	Praetzellis, M., and A. Praetzellis	2004	Putting the "There" There: Historical Archaeologies of West Oakland; I-880 Cypress Freeway Replacement Project

Sources: NWIC File No. 19-1765

The record search did not identify any previously recorded Native American or historic era archaeological sites within the project study area or record search buffer.

The archival research also revealed that the western edge of the Oakland Point Historic District is within the project APE. The district was formally determined eligible to the NRHP by the California SHPO on October 5, 1990. It is a residential district that covers about 47 city blocks in West Oakland. As of 1990, as documented by the Oakland Cultural Heritage Survey, the district included 845 properties, of which about 750 were wood-frame residential buildings erected before 1919, most between the 1870s and the 1890s (within the 1866–1910 period of significance). It exhibits Italianate, Stick, Queen Anne, Shingle, Craftsman, and Gothic Revival architecture as well as 19th-century vernacular residences. Its character-defining features include:

- Wood-frame residential construction
- Suburban-style building placement with relatively uniform front setback, back yards, and minimal side yards on predominantly 25' x 100' lots

- One- to two-story massing, usually with first floor above a raised basement
- Steeply-pitched hipped and gabled roof forms and some false-fronts
- Modest size and rectangular or stepped-back plan
- Partial-width front porches
- Cladding and ornamental features executed in wood
- Predominantly residential, with some commercial and industrial uses

The BERD shows the Oakland Point Historic District with a resource status code of 2S2, individually determined eligible for the NRHP by consensus through Section 106 process. As such, it is automatically listed in the CRHR, as are its individual contributing buildings with status codes of 2D2. Additional historical information on the Oakland Point Historic District is provided in Section 2.3 and in Appendix C. Sixteen of the 19 parcels that contain buildings in the project APE are within the Oakland Point Historic District boundaries; nine of these residences are contributors to the district and two are non-contributors according to the BERD. The Oakland Point Historic District properties within the APE are discussed in Section 4.2.

Three parcels in the APE that are outside the boundaries of the Oakland Point Historic District have historic-era buildings. These parcels contain a total of seven extant buildings. Buildings on two of the parcels (**#s 1 and 19 in Figure 6**) were recorded as part of the City's historic resources inventory in 1990 (See **Appendix D**). The historic-era building on the third parcel has not been previously evaluated.

The building at 918 Cedar Street (#1 in Figure 6,), which has since been demolished, was one of numerous buildings on the parcel. It was a brick building constructed by Standard Oil in 1889. The City evaluated the building as eligible for listing in the NRHP under Criteria A (history) and C (architecture) as "a rich artifact that has associations with known events, a rare surviving example of an important regional building type, and one that might yield important information about construction technology under further investigation" (OCHS 1990a).

The building at 1791 8th Street (**Figure 6, # 19**) was originally a two-story wood-framed structure in 1907 for the Oakland Athletic Club, but was significantly remodeled into a streamlined moderne office building in the 1940s. The 1990 OCHS evaluation determined that the building as remodeled was not eligible for the NRHP because it was then not yet 50 years old and did not appear to be of "exceptional importance" (OCHS 1990b).

In addition to the NWIC record search both Origer and Horizon conducted a review of historical maps and atlases. This research found that the project parcel was once occupied by residential buildings in the late 1800s, followed by industrial buildings by the 1930s.

3.3 Geoarchaeological Research

Information regarding the potential for the project site to contain buried archaeological resources was also researched by Origer and Horizon. A model for predicting a location's sensitivity for buried Native American archaeological sites was formulated by Byrd et al. (2017) based on the age of the landform, slope, and proximity to water. A location is considered to have the highest sensitivity if the landform dates to the Holocene[1] , has a slope of five percent or less, is within 150 meters (500 feet) of fresh water, and 150 meters (500 feet) of a confluence. A basic premise of the model is that Native American archaeological deposits will not be buried within landforms that predate human colonization of the area. Calculating these factors using the buried site model (Byrd et al. 2017: Tables 11 and 12), a location's sensitivity was scored on a scale of 1–10 and classed as follows: lowest (<1); low (1-3); moderate (3-5.5); high (5.5-7.5); highest (>7.5).

Based on landform age and the other factors described above, Byrd et al. (2017) determined that the sensitivity for buried sites at the location of the project area is considered low. Moreover, a review of Witter et al. (2006), a quaternary geology review of the Bay Area—from which the Byrd et al. (2017) analysis is partially derived—indicates that the project area is underlain by the Latest Pleistocene (20,000 years ago to 11, 700 years ago) to Holocene dune sand. This suggests that the location is underlain by a landform that would not have supported substantial human activity—that is, it is underlain by dune sand as opposed to alluvial plains that would have been more suitable for settlement and allowed for exploitation of resources. Further, the project area is directly east of the historic margins of San Francisco Bay (see **Figure 7**) and, as such, these areas representing former San Francisco Bay are overlain by artificial fill, which constitutes the lowest potential for buried Native American archaeological sites. However, given the presence of early historic era residences within the subject parcel, as discussed above, there is a high likelihood of buried materials related to late 19th century and early 20th century occupation of the parcel.

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[1] The Holocene Epoch is the current period of geologic time, which began about 11,700 years ago, and coincides with the emergence of human occupation of the area.

Figure 6
Historical Bay Margins

Source: San Francisco Estuary Institute (SFEI). 1998. "Bay Area EcoAtlas V1.50b4 1998: Geographic Information System of wetland habitats past and present." Accessed Dec 27 2021. http://www.sfei.org/content/ecoatlas-version-150b4-1998.

Phoenix Mixed-Use Affordable Housing Project

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4 Inventory Methods and Results

4.1 Cultural Resources Survey

An examination of the project area was completed by Origer on May 5, 2020. The ground surface of the project site was not visible as it is covered by paved surfaces and the surrounding surface areas are also paved or built upon. As a result, no archaeological resources were identified during the survey for the project. Built Environment Inventory

As noted in Section 1.2.2 Area of Potential Effects, there are 29 parcels within the indirect architectural APE (**Figure 6; Table 3**); of these, 19 contain at least one building and one contains a structure (a non-historic era skate park), while the balance (nine parcels) are vacant lots. Of the 19 parcels containing buildings, sixteen are within the Oakland Point Historic District. Three parcels containing buildings are within the APE but outside the Oakland Point Historic District.

Table 3. Parcels within the APE and Oakland Point Historic District

Figure 6 identification	Address	Assessor Parcel Number	Comment
N/A	878 Pine Street	006-0035-003-00	In Oakland Point Historic District/ Vacant
N/A	848 Pine Street	006-0035-067-00	In Oakland Point Historic District/ Vacant
N/A	826 Pine Street	006-0035-062-00	In Oakland Point Historic District/ Vacant/Determined District contributor 1990, demolished 1991-1999
N/A	822 Pine Street	006-0035-061-00	In Oakland Point Historic District/ Vacant/ Determined District contributor 1990, demolished 1991-1999
N/A	812 Pine Street	006-0035-059-00	In Oakland Point Historic District/ Vacant
N/A	808 Pine Street	006-0035-058-00	In Oakland Point Historic District/ Vacant
N/A		006-0049-027-01	Contains a structure (c.2012 skate park)
N/A	1815 Shorey Street	006-0045-014-03	Vacant
N/A	1813 Shorey Street	006-0045-006-02	Vacant
N/A	1815 Shorey Street	006-0045-006-02	Vacant
1	1819 10th Street	006-0045-005-02	Contains warehouses constructed before 1940
2	903 Pine St	006-0049-023-00	In Oakland Point Historic District/ contains a historic era building
3	884/886 Pine St	006-0035-001-00	In Oakland Point Historic District/ contains a historic era building
4	882 Pine St	006-0035-002-00	In Oakland Point Historic District/ contains a historic era building r
5	874 Pine St	006-0035-004-00	In Oakland Point Historic District/ contains a non-historic era building
6	870 Pine St	006-0035-005-00	In Oakland Point Historic District/ contains a non-historic era building
7	866 Pine St	006-0035-006-00	In Oakland Point Historic District/ contains a historic era building
8	862 Pine St	006-0035-007-00	In Oakland Point Historic District/ contains a non-historic era building

Figure 6 identification	Address	Assessor Parcel Number	Comment
9	854/858 Pine St	006-0035-009-01	In Oakland Point Historic District/ contains a historic era building
10	850 (852) Pine St	006-0035-010-00	In Oakland Point Historic District/ contains a historic era building
11	842-844 (848) Pine St.	006-0035-066-00	In Oakland Point Historic District/ contains a historic era building
12	840 Pine St.	006-0035-065-00	In Oakland Point Historic District/ contains a historic era building
13	834 Pine St.	006-0035-064-00	In Oakland Point Historic District/ contains a non-historic era building
14	830 Pine St	006-0035-063-00	In Oakland Point Historic District/ contains a historic era building
15	816 Pine St.	006-0035-060-00	In Oakland Point Historic District/ contains a historic era building
16	1796 (1798) 8th St.	006-0035-057-00	In Oakland Point Historic District/ contains a historic era building
17	767 Pine Street	006-0045-009-01	Contains a historic era building
18	1798 9th St	006-0033-026-00	Oakland Point Historic District/ contains a historic era building
19	1791 8th Street	006-0037-001-00	Contains a historic era building

A field review of the APE was conducted by a qualified Horizon architectural historian on November 25, 2021. All 19 of the parcels containing buildings in the APE were photographed from the public right of way; an attempt was made to collect several different angles of each building. Sixteen of the parcels with buildings are within the boundaries of the Oakland Point Historic District. Three parcels with buildings are within the APE, but outside of the Oakland Point Historic District.

A DPR form, including photographs, was prepared for each building in the APE. Condition assessments were made for those buildings that are within the Oakland Point Historic District to determine if they still retained sufficient integrity to be considered contributors to the district. The three buildings outside of the Oakland Point Historic District, were recorded and evaluated for NRHP/CRHR eligibility. The DPR forms for all the buildings are included as **Appendix D** of this report.

4.1.1 Oakland Point Historic District Buildings in the APE

As previously discussed, the Oakland Point Historic District has been determined eligible to the NRHP as a historic district under both Criterion A (history) and Criterion C (architecture). It is one of the largest Victorian-era neighborhoods in Oakland, and features a remarkable degree of integrity, with 616 contributors out 845 properties.

Sixteen buildings in the project APE are within the boundaries of the Oakland Point Historic District. As noted, each resource was recorded for the present report on a DPR form and a condition assessment for integrity was made. Relevant data on the properties containing buildings with the

Historic District including address, APN number, BERD status, and the results of the condition assessment are listed in **Table 4**. Each of the properties are identified by number in Figure 6.

Table 4. Buildings within the APE and Oakland Point Historic District

Figure 6 #	Address	APN	Year Built	Oakland Point Historic District (NRHP Status per BERD)	BERD (CA OHP)	Current Study Recommendations
2	903 Pine St	006-0049-023-00	1884	district contributor	2D2	Retains integrity
3	884/886 Pine St	006-0035-001-00	1884	district contributor	2D2	Retains integrity
4	882 Pine St	006-0035-002-00	1881	district contributor	2D2	Retains integrity
5	874 Pine St	006-0035-004-00	1991	Not evaluated		Not Historic Period
6	870 Pine St	006-0035-005-00	1991	Not evaluated		Not Historic Period
7	866 Pine St	006-0035-006-00	1882	district contributor	2D2	Retains integrity
8	862 Pine St	006-0035-007-00	2007	Not evaluated		Not Historic Period
9	854/858 Pine St	006-0035-009-01	1992	Not evaluated		Not Historic Period
10	850 (852) Pine St	006-0035-010-00	1881	district contributor	2D2	Retains integrity
11	842-844 (848) Pine St.	006-0035-066-00	1880s/1924	non-contributor (1990 city finding)	6Y	substantially altered after determined ineligible in 1990
12	840 Pine St.	006-0035-065-00	1945	non-contributor 1990 city finding)	6Y	utilitarian design lacks architectural significance
13	834 Pine St.	006-0035-064-00	2021	Not evaluated	none	Not Historic Period /constructed 2021
14	830 Pine St	006-0035-063-00	1877	district contributor	2D2	Extant but lacks integrity, see DPR update (completely rebuilt 2019)
15	816 Pine St.	006-0035-060-00	1888	district contributor	2D2	Retains integrity
16	1796 (1798) 8th St.	006-0035-057-00	1886	district contributor	2D2	Retains integrity
18	1798 9th St	006-0033-026-00	1868	district contributor	2D2	Retains integrity

All the buildings that are both within the Oakland Point Historic District boundary and the APE are residential properties. Nine of the properties (Figure 6 #s 2, 3, 4, 7, 10, 14, 15, 16, and 18) were determined eligible as contributors to the Oakland Point Historic District in 1990. The current evaluation determined that eight of those properties retain integrity as contributors to the Oakland

Point Historic District. One residence (Figure 6 #14 at 830 Pine Street) has been sufficiently altered such that it no longer retains its historic integrity (see DPR 523 update from, Appendix D). Research and field observation determined that four residences (Figure 6 #s 5, 6, 8, 9, and 13) within the Oakland Point Historic District limits had been constructed within the last 30 years; therefore, they do not meet the age criteria to be a historic property/historical resource. In fact, one residence (Figure 6 #13) was under construction at the time of the field review. Two houses (Figure 6 #s 11 and 12) are older than 50 years, but were determined ineligible in 1990.

4.1.2 Other Buildings in the APE

Three buildings (see **Table 5**) within the APE are not part of the Oakland Point Historic District. Each building was recorded on the appropriate DPR forms and evaluated for NRHP/CRHR eligibility. A summary description of each building is provided below; NRHP/CRHR evaluations are provided in Section 4.3. More detailed information can be found in the individual DPRs in Appendix D.

Table 5. Buildings within the APE but outside Oakland Point Historic District

Figure 6 #	Address	APN	Construction Year	Resource Type	NRHP/CRHR Evaluation
1	1819 10th Street	006-0049-025-01	Various times before 1940	Industrial	Not Eligible
17	767 Pine Street	006-0045-009-01	1945	Commercial	Not Eligible
19	1791 8th Street		1907; remodeled 1942	Commercial	Eligible

Figure 6 #1 – 1819 10th Street

This parcel comprises most of the block bounded by the I-880 frontage road (which roughly corresponds with what was once Cedar Street) and 9th, 10th, and Pine streets. The large industrial parcel with five buildings takes up most of the block, with a row of historic-era residences at its eastern border. Immediately across 9th Street, to the south, is the parcel on which the Phoenix project is proposed to be constructed.

The 1.64-acre parcel holds five industrial buildings:

- 1819 10th Street is oriented east-west and occupies most of the north half of the parcel. It is a double-height, gable-roofed industrial building with corrugated metal cladding and roofing. Large vehicle openings are fitted with metal rollup doors. There are banks of industrial-sash windows along the east, west, and south elevations.
- 1824 9th Street, which is oriented north-south and located at the southeast corner of the parcel. It is double-height gable-roofed industrial building with corrugated metal cladding and roofing. A vehicle opening along 9th Street is fitted with a top-mounted sliding door. An adjacent human-scale door is fitted with a metal security screen door. The building lacks fenestration.
- 1826 9th Street, which is oriented north-south and located immediately adjacent to the west elevation of 1824. 1826 9th Street is a single-height gable-roofed industrial building with

corrugated metal cladding and roofing. A vehicle opening along 9th Street is fitted with a metal rollup door.

- 1832 9th Street, which is oriented north-south and located at the center of the block. Itis a single-height industrial building with a low pitch gable roof with wide eaves. Cladding and roofing are corrugated metal. A vehicle opening along 9th Street is fitted with a metal rollup door. The small building at the southwest corner of the parcel also features a gable roof and metal cladding. There is a temporary metal carport structure near the center of the parcel.

- A small building at the southwest corner of the parcel

The buildings were constructed at various times between 1902 and 1985, as described below.

The block, which is bounded by Cedar, 9th, 10th, and Pine streets, was developed for housing in the 19th century. The shift to industry began when Standard Oil Company was the first to develop a warehouse on the southwest corner of the block in 1889 (918 Cedar). It was a valuable location for industrial development due to its proximity to the railroad tracks and waterfront. With the construction of more warehouses, industrial spurs were developed to connect the warehouses to the railroad tracks. The Spears-Wells Machinery Company developed multiple warehouses on the southwest half of block 703, at addresses 1830 9th Street, 1832 9th Street, and 1824 9th Street. Independent Iron Works had a warehouse to the east of the Spears-Wells assembling warehouse. On the northeast half of block 703, the Irving Subway Grating Company developed a large warehouse at 1819 10th Street and 1849 10th Street in 1949. Houses remain on the east edge of the block, facing Pine Street. In the 1990s, the original Standard Oil Company warehouse on the southwest corner was demolished (Sanborn Map Company, 1912-1951).

4.1.3 Spears-Wells Machinery Company

The Spears-Wells Machinery Company was owned by Charles Alvah Spears and Ira Moore Wells. Spears was the vice-president while Wells was secretary of the company. Prior to Spear-Wells Machinery Company, Charles Spears owned Graves-Spears Road Machinery Company in the 1910s. Wells, who was often present when company machinery was being used in road construction, appears to have been the technical expert in the partnership. In 1919, Spears-Wells Machinery Company began manufacturing farm machinery in Oakland, establishing an office on 12th Street and the factory in the brick former Standard Oil facility at the corner of Cedar and 9th streets (which had fallen into disuse after Standard Oil opened a new plant in Richmond). By September of that year, the company was installing its own machinery in the facility. Additional buildings were constructed, with a total expenditure of $50,000 to develop the plant. The company made graders, oilers, and other large equipment for road-building that was shipped all over the Western US. In 1920, it claimed to be the only company west of Chicago manufacturing road-building equipment (Oakland Tribune 1919, 1920, 1925, 1928).

Business was good in the 1920s, and the company added 5,640 square feet of floor space as well as new machinery in 1927 in order to increase production by 30 percent. Aerial photographs show that by 1931, there was a small addition (use for machinery storage) to the south of the original building as well as several large new buildings to the east including a brick machine shop and corrugated metal buildings used as assembly and shop areas. The company appears to have remained active through the late 1950s (Oakland Tribune 1927).

4.1.4 Independent Iron Works, Ltd.

The building at 1822-24 9th Street was constructed by the Independent Iron Works company as a warehouse after they purchased the property in 1942. It was across the street from the company's primary warehouses and manufacturing plant (no longer extant), which were on the parcel slated for development by the Phoenix project. Independent Iron Works was a steel manufacturing company founded in the 1920s by Henry Gede and William George Meagher. Gede was co-owner of the Independent Iron Works until he retired in 1954. Meagher continued with the company and his son, William G. Meagher, Jr., became vice-president for the Independent Iron Works, working alongside his father (Oakland Tribune 1973, 1979).

The company started out in fairly small facilities on the block bounded by Pine, 8th, 9th, and Cedar streets (across 9th Street to the south of the subject building). The plant appears to have expanded gradually over the 1930s, and eventually occupied the entire block as well as an office on 8th Street. By 1939, the plant had 250 employees. The company fabricated all sorts of steel products: structural steel beams for buildings, bridge girders, and small pre-fabricated buildings like gas stations and restrooms. With U.S. entry into World War II, Independent Iron Works expanded into the war work market, competing with the likes of Bethlehem Steel and Kaiser Steel. It supplied prefabricated parts to at least ten local plants that produced war materiel, and also manufactured its own metal barges. Many of the items it manufactured were for U.S. Navy or Merchant Marine ships including ladders, ships' doors, shelving, and sea chests. The warehouse north of 9th Street was developed as part of this expansion (Oakland Tribune 1939).

After the war, Independent Iron Works went back to manufacturing ordinary consumer goods, adding new products like barbells. Forty years after the company was started, the Meaghers sold it to Vinnell Steel in 1961. Vinnell Steel, which was based in Irwindale, California, was itself acquired by a larger company a few years later. By 1969, the Independent Iron Works main plant on Pine Street had been shuttered (Oakland Tribune 1961a). Phoenix Iron Works took over the space shortly thereafter and occupied the building until the Loma Prieta earthquake in 1989 (Litzing 2004; Northgate Environmental Management 2011). The main plant, located on the proposed project parcel, was demolished in the late 1990s.

4.1.5 Irving Subway Grating Company

Walter E. Irving established Irving Iron Works in Long Island, New York, in 1902. Irving was an innovator and inventor, introducing wire mesh grating systems for the New York City subway system in 1912. The firm changed its name to Irving Subway Grating Company, and began producing open-mesh decking for bridges. At the start of World War II, the company introduced innovative portable landing mats that were utilized by the U.S. Army Air Corps to quickly create airfields (IKG 2021).

Irving Subway Grating Company opened its West Coast factory in Emeryville in 1943, where it manufactured the landing mats as well as steel grating for industrial floors and bridges. During World War II, the company was the principal supplier of portable airstrips in the Pacific. In 1949, the company outgrew its Emeryville factory and built its 23,000-square-foot, corrugated metal plant on 10th Street. In the 1950s, J. C. Lynn was the president of the Irving Subway Grating Company's western division until he died in 1954. James E. Irving, Walter Irving's son, succeeded J. C. Lynn as president of the western division of Irving Subway Grating Company in 1955. He was also the executive vice president and general manager of the parent company in Long Island, New York (Oakland Tribune 1952, 1955).

In 1952, the Irving Subway Company warehouse at 1819 10th Street was used by the American Committee for Protection of the Foreign Born for a meeting to help with those who faced deportation. The chairman for that meeting was Henry Saunders, an attorney from Oakland who specialized in the legal matters for left-wing labor unions and Communist Party members. That same month, the Bay Area annual festival for the International Workers Order was held at this address. Around 100 people attended this gathering, most of them supporters of the Communist Party of California (Legislature of the State of California 1953).

Harsco Corporation acquired Irving Subway Grating and another company, Gary Gratings, in 1965, and Kerrigan Iron Works Company a year later. In 1966, the company expanded its Oakland facility by purchasing the adjacent property at 1832 9th Street from Spears-Wells Machinery Company. The brick warehouse that had been constructed by Spears-Wells Machinery Company between 1919 and 1927 was demolished in 1967. In 1969, the company changed its name to IKG to reflect the names of the firms it had merged (Oakland Tribune 1963, 1966).

IKG continued to operate the plant into the 1980s, and constructed a new corrugated metal warehouse at 1832 9th Street in 1985. By the end of the decade, the facility had been shuttered and Joe Clar and Sons, a scrap metal business, moved into 1819 10th Street in 1991. Between 1993 and 2000, 1820 and 1822-18249th Street were used by a company that gave lessons in trapeze and other circus performing arts. The brick warehouse constructed by Standard Oil Company west of 1824 9th at 918 Cedar in 1889 was demolished sometime between 1993 and 2000.

Figure 6 #17 – 767 Pine Street (APN 006-0045-009-01)

This small church building is located on the southwest corner of Pine Street and Shorey/8th Street, directly across the street and south of the proposed project location. It has a rectangular plan and features a medium-pitched gable roof with a vent on the gable end and minimal eaves. It is clad in stucco siding. The centered main entrance on the main (east) façade is fitted with a metal security screen door and is accessed via a wide set of concrete steps with a simple wood balustrade. Fenestration consists of fixed and sliding aluminum sash windows in rectangular openings with bars. The main façade features a square tower with a hipped roof to the left of the main entrance.

The first building on the property was a small residential building constructed in the early 1880s. The building was square in plan and set well back from the street, perhaps to take advantage of a lot that was somewhat wider than others on the block. In 1883, the house was advertised as a rooming house and records show that it was later a rental property (Oakland Tribune 1883, 1945a, 1961b).

At the end of 1945, the Mt. Moriah (Mariah) Baptist Church applied to remodel the house at 767 Pine Street for use as a neighborhood church. Reverend R. H. Sims, Jr. was the pastor of the Mt. Moriah Baptist Church. A Black man, he apparently moved from Pittsburg in 1945 in order to establish a Baptist congregation in the neighborhood to serve its Black residents. Irwin M. Johnson, a prolific Oakland architect best known for residential construction, was hired for the remodel. The modest project appears to have roughly doubled the size of the small house, extending it toward the street. The small church building apparently did not attract the interest of local newspapers, and research has not revealed any historic-era descriptions or photographs. A small building behind the main church was constructed for use as a church school and, at some point, a small belfry addition was constructed adjacent to Pine Street. A few years after its establishment, a second church with the same name was started in central Oakland; Reverend Sims may have moved to the new church (Oakland Tribune 1945b; Pittsburgh Courier 1964).

By 1975, the name of the congregation had changed to St. Luke Missionary Baptist Church. The institution appears to have continued to serve the local Black community, although little is known about its history. In 1975, Aristade Green, a local contractor who was also a deacon in the church, stuccoed the front of the building and replaced two of its original windows with aluminum sliding-sash windows; the other sides were later stuccoed as well. Later, Oakland-based evangelist Altha Washington was involved with the congregation. Although Washington did not call herself a professional minister, she gained some renown as an evangelist and preacher in the 1960s and 1970s. In the mid-1980s, J. W. Morrison was the pastor, apparently a part-time position since he also led a Baptist church in Vallejo. Claude Mason was the pastor in 2019. In 2021, the property appears to be abandoned (Alameda County 2019).

Figure 6 #19 – 1791 8th Street

The two-story commercial building at 1791 8th Street sits at the southeast corner of the intersection of Pine Street and 8th Street, diagonally across the street from the proposed project location. The main entrance of the structure opens directly to the street corner, facing northwest to the empty lot scheduled for construction of the Phoenix facility. The entrance is fitted with double metal commercial doors and is accessed via a wide set of terrazzo steps. The building contains elements of Streamline Moderne architecture. The main façade features two columns on either side of the entrance, which are wrapped with gold and white square panels; they support a curved Streamline Moderne awning and are flanked with curved windows fitted with glass block. Fenestration consists of steel casement windows in bands wrapping around both street fronts. Windows are fitted with steel security screens on the first floor. The off-street (south) elevation, which faces a fenced parking lot, is stuccoed and has a secondary entrance. The off-street, stuccoed east elevation has large window openings fitted with glass block.

The commercial/office building was originally constructed in 1907 for the West Oakland Athletic Club. It was a two-story wood-frame building with projecting square window bays on the second floor (see the DPR in Appendix D for a photograph), and only its footprint was retained when it was remodeled to its current form in 1942 by Mac D. Perkins. Mac Dudley Perkins (1897–1989) was an architect and engineer. Born in Colorado, he moved with his new wife to Berkeley in the 1924. Perkins had a practice as consulting engineer in San Francisco. He was part of a team of architects and engineers who designed the Art Deco Monterey County Courthouse, completed in 1943. He won an award as the structural engineer on the Hope Lutheran Church of San Francisco, designed with noted modernist Mario Corbett in 1954 (Oakland Tribune 1938, 1989; Progressive Architecture 1954:120).

The building was remodeled in 1942 to be used by the Independent Iron Works company as an office space for the company warehouses and manufacturing plant that were located diagonally across the street on the parcel proposed for the Phoenix project. Independent Iron Works was a steel manufacturing company founded in the 1920s by Henry Gede and William George Meagher. The company started out in fairly small facilities on the block bounded by Pine, 8th, 9th, and Cedar streets (across the street to the northwest of the subject building). The plant appears to have expanded gradually over the 1930s, and eventually occupied the entire block as well as a warehouse north of 9th Street. By 1939, the plant had 250 employees. The company fabricated all sorts of steel products: structural steel beams for buildings, bridge girders, and small pre-fabricated buildings like gas stations and restrooms. With U.S. entry into World War II, Independent Iron Works expanded into the war work market, competing with the likes of Bethlehem Steel and Kaiser Steel. It supplied prefabricated parts to at least 10 local plants that produced war materiel, and also manufactured its own metal barges. Many of the items it manufactured were for U.S. Navy or Merchant Marine ships including ladders, ships' doors, shelving, and sea chests (Oakland Tribune 1939, 1973, 1979).

By late 1942, the expanding steel plant across the street had taken over the old boxing arena at 1791 8th Street. Its interior had been converted to use as a paint shop, but it was lacking structurally; beams were strengthened, and framing added that would allow installation of ribbon bands of steel-sash windows. Floors and partitions were installed to convert the interior to use as Independent Iron Works office headquarters. The project appears to have been completed in 1943 (Oakland Tribune 1942).

After the war, Independent Iron Works went back to manufacturing ordinary consumer products, adding new products like barbells. Forty years after the company was started, the Meaghers sold it to Vinnell Steel in 1961. Vinnell Steel, which was based in Irwindale, California, was itself acquired by a larger company a few years later. By 1969, the Independent Iron Works plant on Pine Street had closed, though it was soon-after used by Phoenix Iron Works until 1989. The main plant was demolished in the late 1990s (Oakland Tribune 1961a).

In the 1980s, the office building at 1791 8th Street was used by the Rich and Famous Theatre Company, started by Diana D. Duffer. More recently, the building has been used as an art studio (Oakland Tribune 1985a, 1985b).

4.2 NRHP Evaluations

The Oakland Point Historic District has formally been determined eligible for listing in the NRHP (1990) and, therefore, is listed in the CRHR. Nine residences that were evaluated as contributors to the Historic District in 1990 are located within the project's APE. (Two additional district contributors within the APE were demolished between 1991 and 2000; their lots are currently vacant.) A condition assessment was made for each of the buildings as part of the current study, to compare the buildings with their recorded features in 19871990 during the original recordation of the district. The present study found that eight of the residences retain sufficient integrity to remain contributors to the Oakland Point Historic District. One residence (Figure 6 #14; 830 Pine Street), depicted in **Figures 8 and 9**, no longer retains integrity as it has been heavily altered and stripped of all Italianate decorative features including porch, cornice, and surface ornamentation. Only its two-story massing and double-height bay window reference its original form. It does not convey its identity as a Victorian-era building and does not retain sufficient integrity to be considered a district contributor.

Buildings on three parcels in the APE (Figure 6 #s 1, 17, and 19) were evaluated for NRHP eligibility. The NRHP require that a significance criterion from A-D be met for a resource to be eligible. (See Section 1.3.3 for criteria requirements).

Figure 8. 826 – 830 Pine Street (Map # 14) in November 2011 (Google street view image).

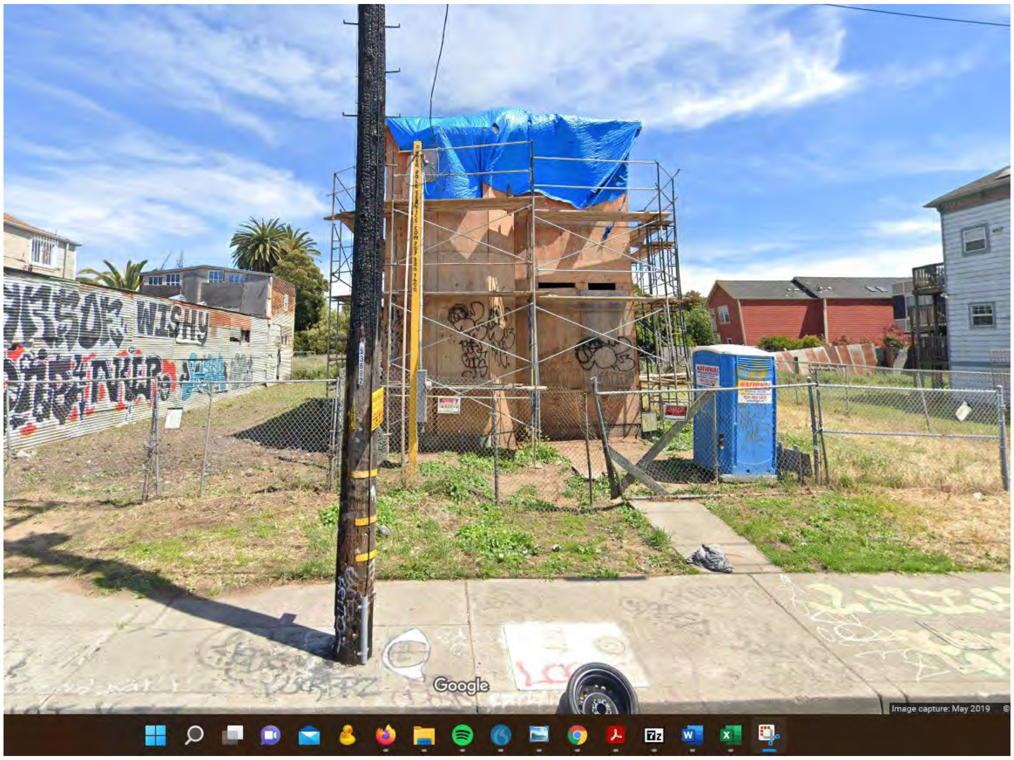

Figure 9. 826 – 830 Pine Street (Map # 14) in May 2019 (Google street view image).

Figure 6 #1 – 1819 10th Street

The large parcel, which is now referred to as 1819 10th Street, once contained a building on its southwest corner that was built by Standard Oil in 1889. In 1990, the City and Caltrans evaluated the building as eligible for listing in the NRHP during its historic resources inventory (OCHS 1990a); the building was razed shortly thereafter. However, the remaining buildings that exist on the parcel were not evaluated at that time and were evaluated for current project.

Criterion A/1: The extant buildings on the parcel at 1819 10th Street are not associated with events that have made a significant contribution to the broad patterns of our history. The property is generally associated with the industrial development of West Oakland during the 20th century. However, research has revealed no indication that any of the companies located on the block made important contributions to history. Irving Subway Grating Company did produce portable landing mats that were important to the U.S. war effort; however, they did not move to the site until after World War II. Likewise, Independent Iron Works contributed to Bay Area shipbuilding during the war, but its warehouse at the corner of Pine and 9th streets on the subject property was not its primary facility. Research has not revealed that the property is significant within the context of World War II defense production or any other historic context. Therefore, the property is recommended not eligible to the NRHP or CRHR under Criterion A/1.

Criterion B/2: The property is not associated with the life of persons important to our history. Research has not revealed any strong connection between the owners and managers of the various companies and the subject property; nor are these managers important historical figures. Therefore, the property lacks the strength of association required for eligibility under Criterion B/2. The property is recommended not eligible to the NRHP under Criterion B/2.

Criterion C/3: 1819 10th Street is not significant for its architecture. The extant warehouses on the property that were constructed within the historic period exhibit the typical characteristics of utilitarian buildings of the era. They are simple rectangular buildings with gabled roofs and corrugated metal cladding. They lack decorative features or associations with particular architectural styles. Nor do they possess unique engineering or other design features. For these reasons, the property is recommended not eligible to the NRHP under Criterion C/3.

Criterion D/4: In rare instances, buildings themselves can serve as sources of important information about historic construction materials or technologies and be significant under Criterion D/4. The buildings at 1819 10th Street are examples of a well-understood type of construction and do not appear to be a principal source of important information in this regard. For these reasons, the property is recommended not eligible to the NRHP or CRHR under Criterion D/4.

The property is recommended not eligible for listing on the NRHP.

Figure 6 #17 – 767 Pine Street (APN 006-0045-009-01)

Criterion A/1: The church at 767 Pine Street is not associated with events that have made a significant contribution to the broad patterns of our history. The property is generally associated with the residential development of the Oakland Point neighborhood in West Oakland and with its Black community. Research has not revealed that the property is significant within that or any other historic context. Therefore, the property is recommended not eligible to the NRHP under Criterion A/1.

Criterion B/2: The property is not associated with the life of persons important to our history. The families who lived on the property were not significant contributors to Oakland's development, and research has revealed no important professional accomplishments or lasting impact on local history. Nor do the pastors associated with the church appear to have been historically significant individuals. Therefore, the property lacks the strength of association required for eligibility under Criterion B/2. The property is recommended not eligible to the NRHP under Criterion B/2.

Criterion C/3: 767 Pine Street is not significant for its architecture. Originally a modest dwelling, the building has been altered many times over the decades and is not a good example of any historic architectural style. For these reasons, the property is recommended not eligible to the NRHP under Criterion C/3.

Criterion D/4: In rare instances, buildings themselves can serve as sources of important information about historic construction materials or technologies and be significant under Criterion D/4. 767 Pine Street is an example of a well-understood type of construction and does not appear to be a principal source of important information in this regard. For these reasons, the property is recommended not eligible to the NRHP or CRHR under Criterion D/4.

The property is recommended not eligible for listing on the NRHP.

Figure 6 #19 – 1791 8th Street

The building at 1791 8th Street was initially recorded and evaluated for NRHP-eligibility in 1990 as part of the City's historic resources inventory (OCHS 1990b). At that time, although built in 1907, the building was significantly remodeled in the 1940s and did not meet the age criteria for eligibility; therefore, it was determined not eligible for listing. Because the building, with its 1940s configuration, is now more than 50 years old, it was re-evaluated for NRHP eligibility.

Criterion A/1: 1791 8th Street is associated with events that have made a significant contribution to the broad patterns of our history. It was the office for Independent Iron Works, a small local steel fabrication company that expanded into war work during World War II. The company played a small but significant role in the production of ships and barges that were used in the U.S. war effort, and is associated with the important role of the East Bay as a locus of the industrial power that underpinned the war effort. 1791 8th Street was used as a paint shop early in the war as the plant was expanding, and then remodeled into its current form to serve as administrative offices for the company in 1943. Its plant, originally located across the street, has been demolished, leaving the office building the only remnant of the company in the built environment. Therefore, the property is recommended eligible to the NRHP and CRHR under Criterion A/1.

Criterion B/2: The property is not associated with the life of persons important to our history. William Meagher and Henry Gede were successful businessmen, but do not appear to have been technical innovators in the steel manufacturing field. Research has revealed no evidence that indicates that either man had a lasting impact on the steel business. Therefore, the property lacks the strength of association required for eligibility under Criterion B/2. The property is recommended not eligible to the NRHP or CRHR under Criterion B/2.

Criterion C/3: 1791 8th Street is significant for its architecture. It is an excellent, if rather simple, example of Streamline Moderne architecture, a relatively rare style that was popular for only a brief time. Its curved corner at the main entryway with character-defining curved awning and glass block are strong elements of the style. Because of its association with war work, it was constructed in 1943, a time when almost no office or commercial buildings were constructed in the U.S. because of material shortages caused by the war. Furthermore, because its steel-sash windows were in all likelihood fabricated across the street at the Independent Iron Works plant, the architecture of the building is associated with the purpose of the company. For these reasons, the property is recommended eligible to the NRHP and CRHR under Criterion C/3.

Criterion D/4: In rare instances, buildings themselves can serve as sources of important information about historic construction materials or technologies and be significant under Criterion D/4. 1791 8th Street is an example of a well-understood type of construction and does not appear to be a principal source of important information in this regard. For these reasons, the property is recommended not eligible to the NRHP or CRHR under Criterion D/4.

The building at 1791 8th Street has not been moved and therefore retains integrity of location. The composition of elements that constitute the form, plan, space, structure, and style of the building have not been altered substantially. The building's integrity of materials and workmanship is evident in the survival of original exterior details. The property retains sufficient significant physical characteristics from its period of significance to convey its historic qualities and, therefore, retains integrity of feeling. Continued use as commercial/art studio space allows it to convey integrity of association. Therefore, the building conveys its historic significance through all seven aspects of integrity.

The property is recommended eligible for listing on the NRHP and CRHR under Criteria A/1 and C/3.

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5 Finding of Effect

Historic properties are identified in the APE include contributing elements of one historic district, the Oakland Point Historic District, and the building at 1791 8th Street. Pursuant to 36 CFR 800.5(a)(1). The project (i.e., undertaking) has the potential to cause an adverse effect by directly or indirectly altering the characteristics of a historic property, such that it would diminish the integrity of the property's location, design, setting, materials, workmanship, feeling, or association. Applicable potential effects to the Oakland Point Historic District and 1791 8th Street could include a change of the character of physical features within the properties' setting that contribute to their historic significance, and introduction of visual, atmospheric, or audible elements that diminish the integrity of the properties' significant historic features (see 36 CFR 800.5(a)(2)). The proposed project would not physically alter any of the structures within the Oakland Point Historic District or to the building at 1791 8th Street.

The Secretary of the Interior's Standards for the Treatment of Historic Properties (Grimmer 2017) provide guidelines for the preservation and rehabilitation of historic properties. Adherence to these standards is widely accepted as a method of avoiding significant adverse effects to historic buildings while allowing their continued use. Most of the standards are directly related to the physical modification of individual buildings in some manner, such as the use of compatible materials during restoration activities, modifications to defining architectural features, or replacement of architectural elements with incompatible elements, and are not pertinent to the current project. However, applicable Secretary of Interior's Standards for Rehabilitation are listed below as a way for assessing the effects of the project on historic properties:

> *Standard 3: Each property will be recognized as a physical record of its time, place and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historic properties, will not be undertaken.*

The prohibition on conjectural features refers to application of "fantasy" architectural details to a historic-era building when such details have not been documented as original features. It therefore does not apply to the proposed project. Project design will allow the new buildings to be recognized as a physical record of their time, place, and use. The project will avoid creating a false sense of historical development, and repurposed elements of historic properties will not be utilized in the proposed project. Therefore, the proposed project conforms to this standard.

> *Standard 8: Archeological resources will be protected and preserved in place. If such resources must be disturbed, mitigation measures will be undertaken.*

Although no archaeological resources were identified during a pedestrian survey of the archaeological APE, construction of the proposed project has the potential to uncover buried archaeological remains that may be determined historic properties. Should unanticipated discovery of archaeological resources occur, appropriate measures would be implemented if the archaeological resources cannot be avoided, as discussed in section 6. Therefore, the proposed project conforms to this standard.

> *Standard 9: New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work will be differentiated from the old and will be compatible with the historic materials,*

> *features, size, scale and proportion, and massing to protect the integrity of the property and its environment.*

The proposed project will not destroy historic materials, features, or spatial relationships that characterize adjacent historic properties or the historic district. The new buildings will be differentiated from adjacent buildings by using a contemporary rather than a historicist architectural style. The project design will avoid inappropriate application of historicist ornament onto the essentially contemporary design of the building. Features such as vertical window openings will be utilized to respond to the design vocabulary of the existing historic neighborhood without mimicking its architecture. Variation in color, texture, and materials will respond to the rhythm of historic single-family residences across the street. Utilization of board-form concrete and horizontal board cladding will create compatibility of materials with the historic neighborhood. Size, scale, massing, and proportion will also be compatible with the nearby historic residential buildings, the closest of which are across the street. During the historic era, the subject property was the site of an industrial/warehouse facility similar in scale and massing to the proposed project. Furthermore, the proposed project has been designed to be stepped down in the areas closest to the historic district, with two-and three-story volumes nearest the historic residences and four-story volumes behind. For these reasons, the proposed project protects the integrity of individual historic buildings as well as the historic district and its environment. Therefore, the proposed project conforms to this standard.

> *Standard 10: New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.*

Future reversal of the proposed project would not impair the essential form and integrity of adjacent historic properties or historic districts. Therefore, the proposed project conforms to Standard 10.

In summary, a finding of no adverse effect to historic properties is recommended for this undertaking, pursuant to 36 CFR Section 800.5(b).

6 Summary and Recommendations

The City of Oakland and East Bay Asian Local Development Corporation propose to develop The Phoenix, a mixed-use affordable and supportive housing project on one lot that totals 0.90 acres (Parcel 1 of APN 006-0047-001-00) at 801 Pine Street, situated at the northwest corner of Pine Street and 8th Street in Oakland, California. The proposed project will construct a four-story, 101-unit residential building and a two-story community building. The residential and community buildings will surround a 3,582-square-foot courtyard which serves as outdoor common space for the buildings' residents. The project will demolish concrete slabs currently covering the site.

A cultural resources study for the proposed project was conducted in 2020 and 2021. The study identified the presence of the Oakland Point Historic District, a historic property determined eligible for inclusion to the NRHP, and a commercial building at 1791 8th Street that is recommended eligible for the NRHP, within the project's APE. No archaeological resources have been identified within the APE.

The proposed project will not materially alter any of the historic properties in the APE, nor will the new facilities create a false sense of historical development, or destroy historic materials, features, or spatial relationships that characterize adjacent historic properties or the historic district. The new facility will be similar in scale and massing to the industrial/warehouse facility that was historically present. As a result, the proposed project will have no adverse effect to historic properties according to 36 CFR Section 800.5(b).

Although no archaeological sites were identified by the archaeological inventory, significant cultural resources may be buried with no surface manifestation and be discovered during construction of the project. A geoarchaeological analysis indicates that there is a low potential for encountering buried pre-contact Native American resources at the project location; however, two Native American tribes noted that the project may be near an ancestral Native American site and this ancestral knowledge cannot be discounted. Archival research, furthermore, suggests that subsurface remains that date to the late 19th century residential occupation of the area may be present.

Due to the potential sensitivity of the project site to contain both Native American and historic era subsurface materials, it is recommended that, for post-review discovery of archaeological materials or human remains, protocols consistent with the Conditions of Approval adopted for the project by the City of Oakland (City of Oakland 2020), pursuant to prior local land use approvals, be implemented. Implementation of the protocols would result in no adverse effect to Pre-contact Native American and historic era archaeological resources discovered during project construction. These protocols provide for the following:

Archaeological and Paleontological Resources – Discovery during Construction: Pursuant to CEQA Guidelines section 15064.5(f), in the event that any historic or prehistoric subsurface cultural resources are discovered during ground disturbing activities, all work within 50 feet of the resources shall be halted and the project applicant shall notify the City and consult with a qualified archaeologist or paleontologist, as applicable, to assess the significance of the find. In the case of discovery of paleontological resources, the assessment shall be done in accordance with the Society of Vertebrate Paleontology standards. If any find is determined to be significant, appropriate avoidance measures recommended by the consultant and approved by the City must be followed unless avoidance is determined unnecessary or infeasible by the City. Feasibility of avoidance shall be determined with consideration of factors such as the nature of the find, project design, costs, and other considerations. If avoidance is unnecessary or infeasible, other appropriate measures (e.g., data recovery, excavation) shall be instituted. Work may proceed on other parts of the project site while measures for the cultural resources are implemented.

In the event of data recovery of archaeological resources, the project applicant shall submit an Archaeological Research Design and Treatment Plan (ARDTP) prepared by a qualified archaeologist for review and approval by the City. The ARDTP is required to identify how the proposed data recovery program would preserve the significant information the archaeological resource is expected to contain. The ARDTP shall identify the scientific/historic research questions applicable to the expected resource, the data classes the resource is expected to possess, and how the expected data classes would address the applicable research questions. The ARDTP shall include the analysis and specify the curation and storage methods. Data recovery, in general, shall be limited to the portions of the archaeological resource that could be impacted by the proposed project. Destructive data recovery methods shall not be applied to portions of the archaeological resources if nondestructive methods are practicable. Because the intent of the ARDTP is to save as much of the archaeological resource as possible, including moving the resource, if feasible, preparation and implementation of the ARDTP would reduce the potential adverse impact to less than significant. The project applicant shall implement the ARDTP at his/her expense.

In the event of excavation of paleontological resources, the project applicant shall submit an excavation plan prepared by a qualified paleontologist to the City for review and approval. All significant cultural materials recovered shall be subject to scientific analysis, professional museum curation, and/or a report prepared by a qualified paleontologist, as appropriate, according to current professional standards and at the expense of the project applicant.

When Required: During construction

Initial Approval: N/A

Monitoring/Inspection: Bureau of Building

Human Remains – Discovery During Construction: Requirement: Pursuant to CEQA Guidelines section 15064.5(e)(1), in the event that human skeletal remains are uncovered at the project site during construction activities, all work shall immediately halt and the project applicant shall notify the City and the Alameda County Coroner. If the County Coroner determines that an investigation of the cause of death is required or that the remains are Native American, all work shall cease within 50 feet of the remains until appropriate arrangements are made. In the event that the remains are Native American, the City shall contact the California Native American Heritage Commission (NAHC), pursuant to subdivision (c) of section 7050.5 of the California Health and Safety Code. If the agencies determine that avoidance is not feasible, then an alternative plan shall be prepared with specific steps and timeframe required to resume construction activities. Monitoring, data recovery, determination of significance, and avoidance measures (if applicable) shall be completed expeditiously and at the expense of the project applicant.

When Required: During construction

Initial Approval: N/A

Monitoring/Inspection: Bureau of Building

Archaeologically Sensitive Areas – Pre-Construction Measures:

Provision A: Intensive Pre-Construction Study: Requirement: The project applicant shall implement either Provision A (Intensive Pre-Construction Study) or Provision B (Construction ALERT Sheet) concerning archaeological resources.

Provision A: Intensive Pre-Construction Study.

The project applicant shall retain a qualified archaeologist to conduct a site-specific, intensive archaeological resources study for review and approval by the City prior to soil-disturbing activities occurring on the project site. The purpose of the site-specific, intensive archaeological resources study is to identify early the potential presence of history-period archaeological resources on the project site. At a minimum, the study shall include:

a. Subsurface presence/absence studies of the project site. Field studies may include, but are not limited to, auguring and other common methods used to identify the presence of archaeological resources.

b. A report disseminating the results of this research.

c. Recommendations for any additional measures that could be necessary to mitigate any adverse impacts to recorded and/or inadvertently discovered cultural resources.

If the results of the study indicate a high potential presence of historic-period archaeological resources on the project site, or a potential resource is discovered, the project applicant shall hire a qualified archaeologist to monitor any ground disturbing activities on the project site during construction and prepare an ALERT sheet pursuant to Provision B below that details what could potentially be found at the project site. Archaeological monitoring would include briefing If the results of the study indicate a high potential presence of historic-period archaeological resources on the project site, or a potential resource is discovered, the project applicant shall hire a qualified archaeologist to monitor any ground disturbing activities on the project site during construction and prepare an ALERT sheet pursuant to Provision B below that details what could potentially be found at the project site. Archaeological monitoring would include briefing construction personnel about the type of artifacts that may be present (as referenced in the ALERT sheet, required per Provision B below) and the procedures to follow if any artifacts are encountered, field recording and sampling in accordance with the Secretary of Interior's Standards and Guidelines for Archaeological Documentation, notifying the appropriate officials if human remains or cultural resources are discovered, and preparing a report to document negative findings after construction is completed if no archaeological resources are discovered during construction.

Or -

Provision B: Construction ALERT Sheet: The project applicant shall prepare a construction "ALERT" sheet developed by a qualified archaeologist for review and approval by the City prior to soil-disturbing activities occurring on the project site. The ALERT sheet shall contain, at a minimum, visuals that depict each type of artifact that could be encountered on the project site. Training by the qualified archaeologist shall be provided to the project's prime contractor, any project subcontractor firms (including demolition, excavation, grading, foundation, and pile driving), and utility firms involved in soil- disturbing activities within the project site. The ALERT sheet shall state, in addition to the basic archaeological resource protection measures contained in other standard conditions of approval, all work must stop and the City's Environmental Review Officer contacted in the event of discovery of the following cultural materials: concentrations of shellfish remains; evidence of fire (ashes, charcoal, burnt earth, fire- cracked rocks); concentrations of bones; recognizable Native American artifacts (arrowheads, shell beads, stone mortars [bowls], humanly shaped rock); building foundation remains; trash pits, privies (outhouse holes); floor remains; wells; concentrations of bottles, broken dishes, shoes, buttons, cut animal bones, hardware, household items, barrels, etc.; thick layers of burned building debris (charcoal, nails, fused glass, burned plaster, burned dishes); wood structural remains (building, ship, wharf); clay roof/floor tiles; stone walls or footings; or gravestones. Prior to any soil-disturbing activities, each contractor shall be responsible for ensuring that the ALERT sheet is circulated to all field personnel, including machine operators, field crew, pile drivers, and supervisory personnel. The ALERT sheet shall also be posted in a visible location at the project site.

When Required: Prior to approval of construction-related permit; during construction

Initial Approval: Bureau of Building; Bureau of Planning

Monitoring/Inspection: Bureau of Building

In summary, this report has been prepared to assist the City of Oakland, who has been delegated by HUD to act on behalf of the federal lead agency, comply with the requirements of Section 106 for the Phoenix affordable housing project. Acceptance of this report indicates the City's concurrence of the APE delineated for the project, as well as the recommended determination that no built environment historic properties will be adversely affected by this undertaking. Furthermore, implementation of the City of Oakland Standard Conditions of Approval, as required by the project, will ensure that there will be no adverse effect to archaeological resources (pre-contact Native American and historic era) and human remains discovered during project construction.

7 Personnel

Fieldwork, analysis, and reporting were carried out by the below-listed professionals who meet the U.S. Secretary of the Interior's Professional Standards for Archaeology (per Title 48 of the CFR, Section 44716, as amended in 1983). Procedures complied with NHPA Section 106 as set forth in Title 36 of the CFR, Section 800.

- **Janis Offermann, Registered Professional Archaeologist** (RPA) (Horizon), prepared this report. She has a bachelor's degree in Anthropology from Sonoma State University in Rohnert Park, California, and a master's degree in Anthropology from the University of California at Davis. She has more than 40 years of experience in California archaeology and cultural resource management. Ms. Offermann is the cultural resources practice leader with Horizon.

- **Kara Brunzell, Architectural Historian** (Horizon), conducted the field review of the parcels within APE, contributed heavily to the historic-era context of this report, prepared the DPRs found in Appendix D, and provided the impacts analysis for the historic properties in the APE. Ms. Brunzell holds a bachelor's degree in History from the University of California, Los Angeles, and a master's degree in Public History from California State University, Sacramento. She has been a practicing architectural historian in California for 15 years.

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1955. "James E. Irving," Feb. 7, 1955
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1966. "Grating Company Plans Expansion," Feb. 1, 1966.
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Appendix A
Phoenix Project Design Plans and Visual Simulations

THE PHOENIX

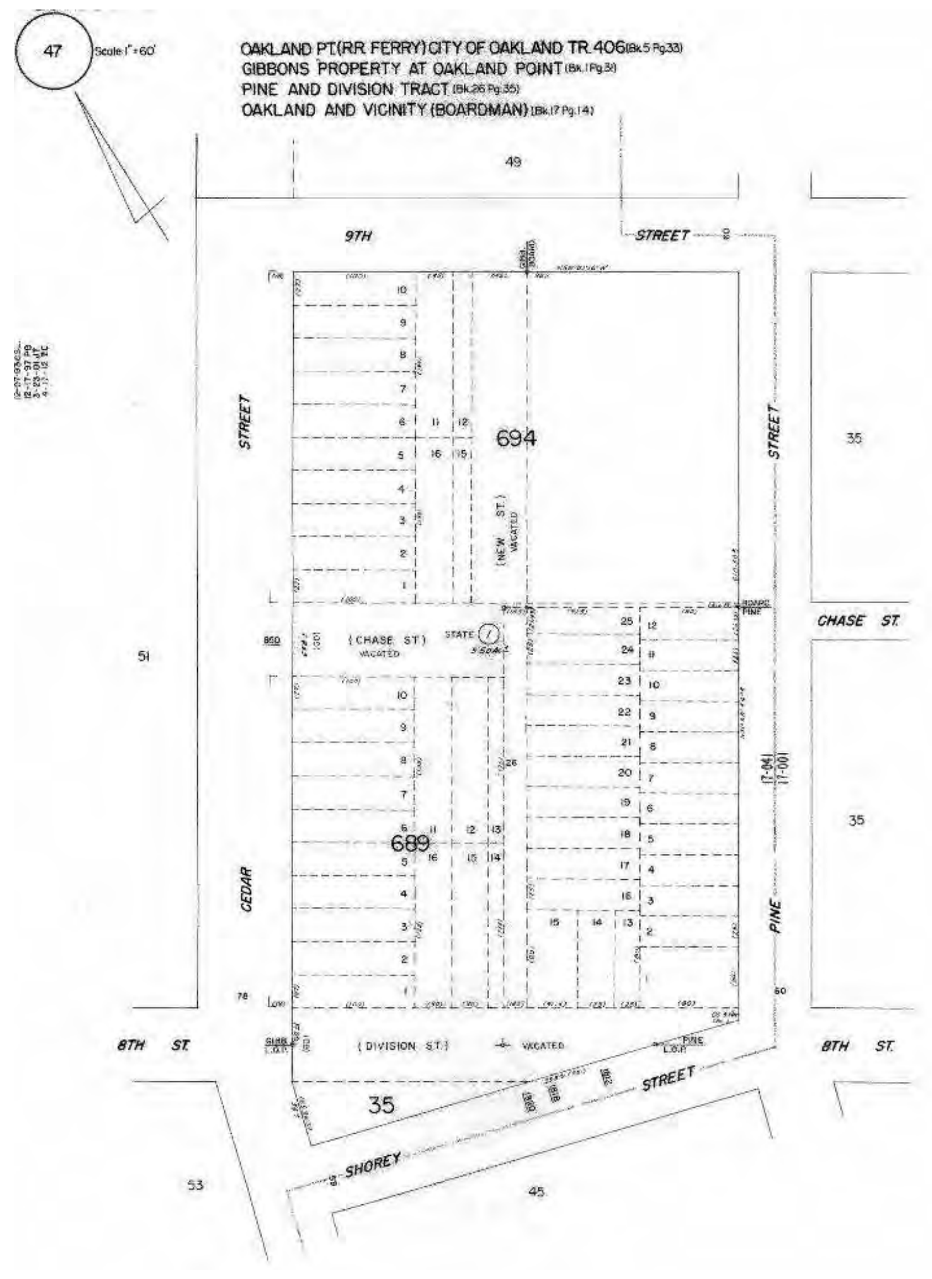
FINAL DEVELOPMENT PLAN FOR PHASE 1
801 PINE STREET
OAKLAND, CALIFORNIA 94607

DESIGN REVIEW COMMITTEE
RESUBMITTAL 08/28/2019

PROJECT DIRECTORY

OWNER:	URBAN DESIGNS LLC 1201 PINE STREET, SUITE 151 OAKLAND, CA 94607 KEVIN BROWN PHONE: 510-588-5158 KB@HOLLIDAYDEVELOPMENT.COM	CIVIL ENGINEER:	LEA & BRAZE ENGINEERING, INC. 2495 INDUSTRIAL PARKWAY WEST HAYWAD, CA 94545 PETER CARLINO PHONE 510-887-4086 PCARLINO@LEABRAZE.COM JEFF OSTERHOUT JOSTERHOUT@LEABRAZE.COM
ARCHITECT:	LOWNEY ARCHITECTURE 360 17TH STREET, SUITE 100 OAKLAND, CA 94612 ATTN: MARK DONAHUE 510.269.1123 MARK@LOWNEYARCH.COM	STRUCTURAL ENGINEER:	DCI ENGINEERS 818 STEWART STREET SUITE 1000 SEATTLE, WA 98101 AARON MILLER PHONE 206-787-842 AMILLER@DCI-ENGINEERS.COM
LANDSCAPE ARCHITECT:	MILLER COMPANY LANDSCAPE 1585 FOLSOM STREET SAN FRANCISCO, CA 94103 JEFF MILLER PHONE 415-252-7288 JMILLER@MILLERCOMP.COM	MECHANICAL ENGINEER:	FARD 309 LENNON LANE, SUITE 200 WALNUT CREEK, CA 94598 MAX SAIIDNIA PHONE 925-5505 X203 MAX@FARD.COM
		PLUMBING ENGINEER:	FARD 309 LENNON LANE, SUITE 200 WALNUT CREEK, CA 94598 MAX SAIIDNIA PHONE 925-5505 X203 MAX@FARD.COM309
		ELECTRICAL ENGINEER:	FARD 309 LENNON LANE, SUITE 200 WALNUT CREEK, CA 94598 MAX SAIIDNIA PHONE 925-5505 X203 MAX@FARD.COM309

PARCEL MAP

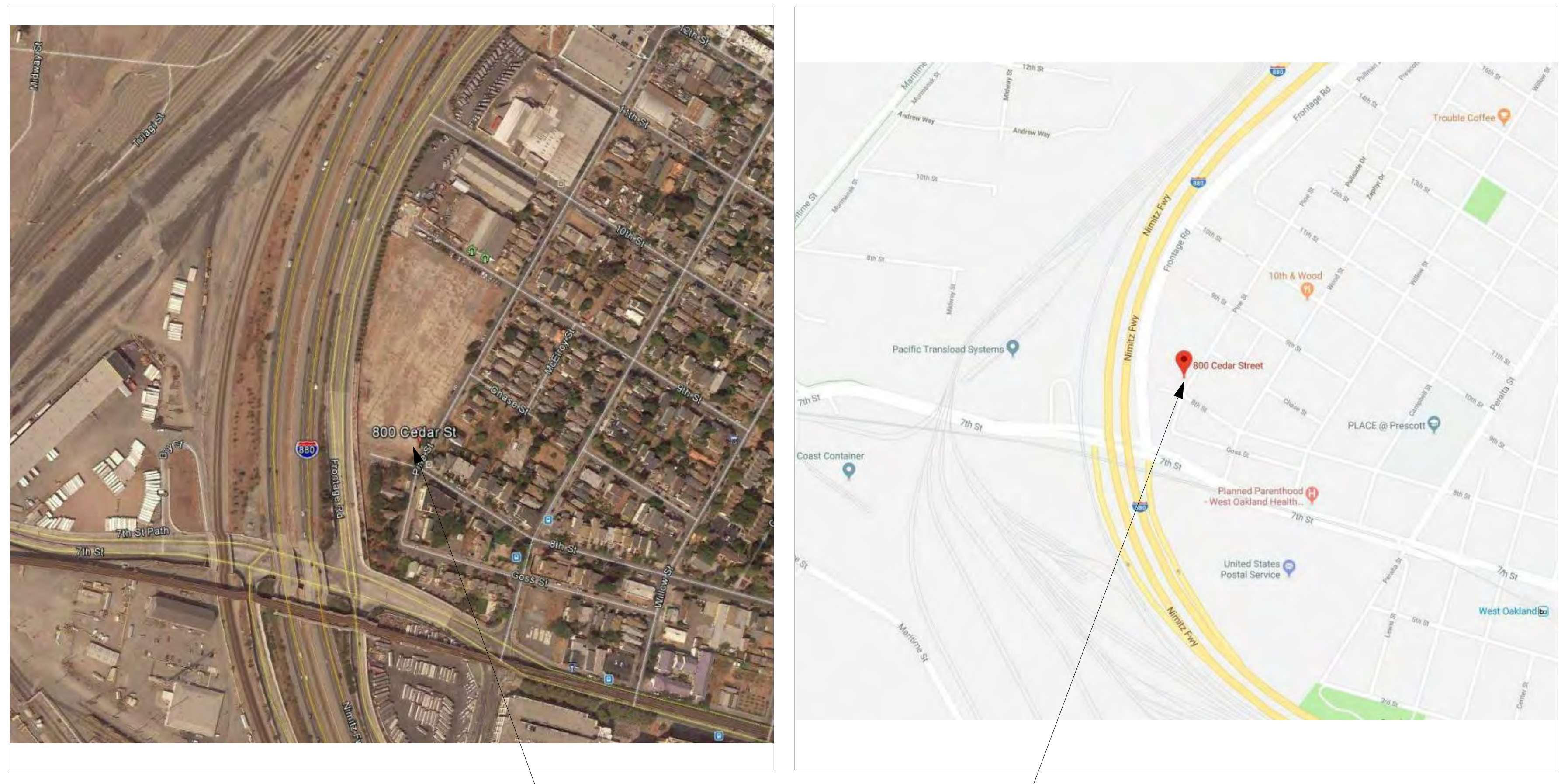


6-47-1

PROPOSED PROJECT

PINE STREET VIEW

PROJECT LOCATION



PROJECT LOCATION

N

DRAWING LIST

SHEET NUMBER	SHEET NAME
P0.0	COVER SHEET
P0.1	PROJECT INFORMATION
P0.2	EXISTING CONDITIONS
P0.3	EXISTING CONDITIONS
P0.4	EXISTING CONDITIONS
P0.5	GPR CHECKLIST & FIRE ACCESS DIAGRAM
C-1.0	TITLE SHEET
C-2.0	GRADING & UTILITY PLAN
SW-1	CONCEPTUAL STORMWATER TREATMENT & MANAGEMENT PLAN
SW-2	CONCEPTUAL STORMWATER TREATMENT & MANAGEMENT DETAILS
L1.01	LANDSCAPE MATERIALS PLAN
L2.01	LANDSCAPE PLANTING PLAN
L2.02	PLANTING PALETTE
L3.01	DETAILS
P1.0	SITE PLAN
P2.1	GROUND FLOOR PLAN
P2.2	SECOND LEVEL PLAN
P2.3	THIRD LEVEL PLAN
P2.4	FOURTH LEVEL PLAN
P2.5	ROOF PLAN
P3.0	BUILDING ELEVATIONS
P3.1	BUILDING ELEVATIONS
P3.2	BUILDING ELEVATIONS
P4.0	BUILDING SECTIONS
P4.1	BUILDING SECTIONS
P5.0	ENLARGED UNIT PLANS
P5.2	PERSPECTIVE DRAWINGS
P6.0	PERSPECTIVE DRAWINGS
P6.0A	PERSPECTIVE DRAWINGS
P6.1	PERSPECTIVE DRAWINGS
P6.2	PERSPECTIVE DRAWINGS
P7.0	LIGHTING PLAN
P7.1	LIGHTING PLAN
P7.2	LIGHTING PLAN

FOR REFERENCE ONLY: ALTA SURVEY

PROJECT DESCRIPTION

SUPPORTIVE HOUSING PROJECT THAT CONSISTS OF 101 UNITS AND AN ADMINISTRATIVE BUILDING. THE SUPPORTIVE HOUSING PROJECT CONTAINS A MIX OF TWO BEDROOM, ONE BEDROOM, AND STUDIO UNITS. THE ADMINISTRATIVE BUILDING HOUSES SHARED COMMERCIAL, COMMUNITY, AND UTILITY SPACES.

lowney arch
TEL 510.836.5400 URL lowneyarch.com
360 seventeenth street | suite 200 | oakland, california 94612

THE PHOENIX
801 PINE STREET, OAKLAND, CA 94607

URBAN DESIGNS LLC
1201 Pine St, Suite 151
Oakland, CA 94607

ARCHITECT STAMP

NOT FOR CONSTRUCTION

CONSULTANT

CONSULTANT STAMP

#	DATE	ISSUES & REVISIONS	BY
	04/04/2018	PLANNING SUBMITTAL	NG
	08/24/2018	PLANNING RESUBMITTAL	NG
	12/03/2018	PLANNING RESUBMITTAL	PS
	05/28/2019	PLANNING RESUBMITTAL	MD
	08/28/2019	DRC RESUBMITTAL	MD

DRAWN BY: Author
PROJECT NUMBER: 18-010
SHEET ISSUE DATE: 05/21/18
SHEET TITLE:

COVER SHEET

SHEET NUMBER

P0.0

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ZONING DATA

	LOT AREA (SF)	UNITS ALLOWED PER ZONING	UNITS PROPOSED BY PROJECT	PHASE 1 PERCENT COMPLETE	UNITS IN REMAINING PHASES
CIX-1B/S-19 *	119,129 SF	367	188	32%	215
HBX-4	58,427 SF	74	129		
TOTAL	169,529 SF	441	317		

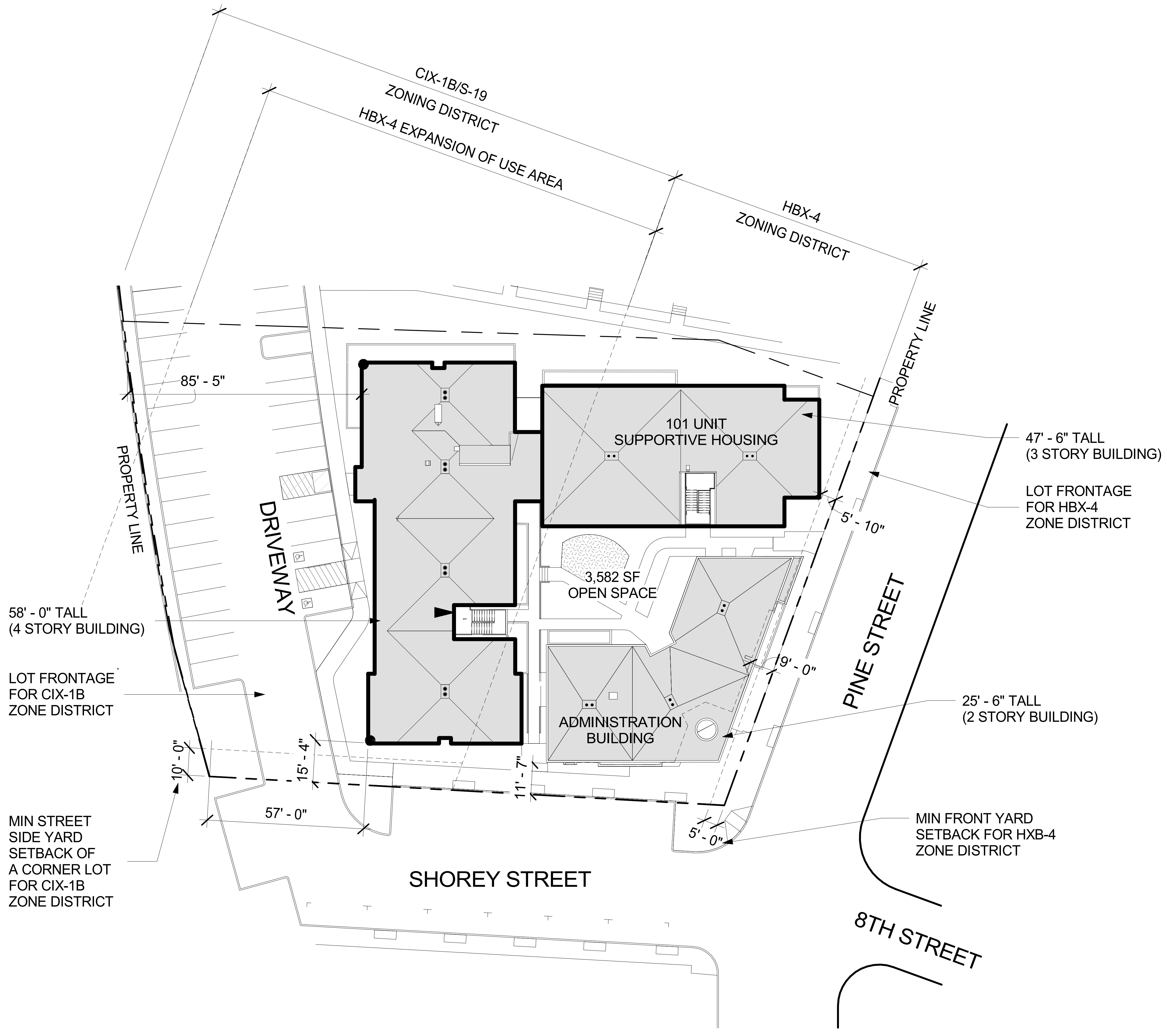
TOTAL UNITS FOR PHASE 1 = 101

CIX-1B/S-19 (HBX-4 EXPANSION OF USE AREA) = 69 UNITS

HBX-4 = 32 UNITS

* INCLUDES ONLY THE 200 FOOT EXPANSION OF USE AREA

NOTE: CIX-1B DENSITY BASED ON ALLOWABLE FAR OF 2.0 AND ESTIMATED AVERAGE MULTIFAMILY UNIT SIZE IN OAKLAND OF 650 SF. SEE PHOENIX PROJECT RESIDENTIAL DENSITY AND CONCESSIONS/ WAIVERS MEMO



① SITE PLAN
1" = 30'-0"

8/22/2019 9:32:56 AM

ALLOWABLE AREA CALCULATION

ALLOWABLE AREA CALCULATIONS (PER CBC SECTION 506)

AREA INCREASE FACTOR DUE TO FRONTAGE (If)
W= L1 X w1 + L2 X w2 + L3X w3) /F

W= (50 X 30 + 55 X 30 + 166 X 30) / 271

W= 30

If = (F/P - 0.25) W/30

If = (271/601 - 0.25) 30/30

If = 0.20

BUILDING AREA (CBC 506.2)
SINGLE OCCUPANCY MULTISTORY BUILDING
Aa=[A1 + (NS X If)] XSa

Aa = [36,000 + (12,000 X 0.20)] X 2

Aa = [36,000 + (2400)] X 2

Aa = 76,800

FULLY SPRINKLERED IN ACCORDANCE WITH 2016 CBC 903.3.1.1
TABULAR ALLOWABLE AREA FACTOR IN ACCORDANCE WITH TABLE 506.2 (At) = 36,000

PARKING & OPEN SPACE

LONG TERM BICYCLE PARKING: 75 IN ADMIN BLDG

SHORT TERM BICYCLE PARKING: 6

RESIDENTIAL PARKING: 5 ON STREET

OPEN SPACE: 3,582 SF

RECYCLING & GARBAGE SPACE ALLOCATION

RESIDENTIAL	REQUIRED	PROVIDED	NOTES
RECYCLING	1,413 SF GALLONS (2CF X 102 UNITS = 204 CF=7CY)	1,616 SF GALLONS (8 CY)	IN ADMIN. BUILDING
GARBAGE	3,231 GALLONS (4.3CF X 102 UNITS= 439 CF = 16 CY)	3,131 SF GALLONS (16 CY)	IN ADMIN. BUILDING
COMMERCIAL	REQUIRED	PROVIDED	NOTES
RECYCLING	75 GALLONS (2CF/1,000 SF X 4,819 SF = 10CF)	96 GALLONS (1 X 96 GALLON TOTER CART)	
GARBAGE		404 GALLONS (2 CY)	

PROJECT DATA

BUILDING INFORMATION

BUILDING ADDRESS:	801 PINE STREET, OAKLAND CA
NUMBER OF STORIES:	4
ALLOWABLE AREA:	36,000 PER FLOOR
PROPOSED AREA:	53,168
ALLOWABLE HEIGHT:	70'-0"
PROPOSED HEIGHT:	59'-0"
CONSTRUCTION TYPE:	TYPE V-A
SPRINKLERED:	YES
OCCUPANCY CLASSIFICATION:	R-2 & B

LOT AREA

TOTAL	39,020 SF

ZONING INFORMATION

ASSESSOR'S PARCEL #:	006-0047-001-00
ZONING DISTRICT:	CIX-1B/S-19 & HBX-4

UNIT TYPES

Unit	Count
	...
1 BEDROOM	3
2 BEDROOM	16
STUDIO	82
TOTAL : 101	

AREA CALCULATIONS

RESIDENTIAL BUILDING GROSS AREA

OCCUPANCY PER CBC 302	PROPOSED AREA
LEVEL 1	
R-2	12,060 SF
R-2 CIRCULATION	641 SF
	12,701 SF
LEVEL 2	
R-2	12,059 SF
R-2 CIRCULATION	641 SF
	12,699 SF
LEVEL 3	
R-2	12,060 SF
R-2 CIRCULATION	641 SF
	12,700 SF
LEVEL 4	
R-2	7,325 SF
R-2 CIRCULATION	400 SF
	7,725 SF
TOTAL	45,826 SF

ADMIN BLDG GROSS AREA

Name	Area
LEVEL 1	
AMENITY	641 SF
BUSINESS	1,124 SF
CIRCULATION	1,381 SF
UTILITY	620 SF
LEVEL 2	
BUSINESS	3,075 SF
CIRCULATION	533 SF
TOTAL	7,374 SF

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THE PHOENIX
801 PINE STREET, OAKLAND, CA 94607

URBAN DESIGNS LLC
1201 Pine St, Suite 151
Oakland, CA 94607

ARCHITECT STAMP

NOT FOR CONSTRUCTION

CONSULTANT

CONSULTANT STAMP

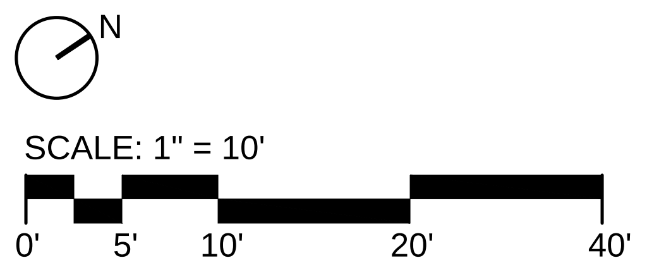
#	DATE	ISSUES & REVISIONS	BY
	04/04/2018	PLANNING SUBMITTAL	NG
	08/24/2018	PLANNING RESUBMITTAL	NG
	12/03/2018	PLANNING RESUBMITTAL	PS
	05/28/2019	PLANNING RESUBMITTAL	MD
	08/28/2019	DRC RESUBMITTAL	MD

DRAWN BY:	Author
PROJECT NUMBER:	18-010
SHEET ISSUE DATE:	03/21/18
SHEET TITLE:	PROJECT INFORMATION

SHEET NUMBER
P0.1

LEGEND

1. Outdoor Terrace with Enhanced Paving
2. Outdoor Area with Enhanced Paving
3. Concrete Accessible Ramp
4. Concrete Sidewalk Paving
5. Building Access
6. Street Tree in Tree Well
7. Egress Exit Gate and Fence, See L3.01
8. Concrete Paving with Saw Cut Joints
9. Bicycle Rack (3 Racks, Total), See L3.01
10. Property Line
11. Flow Through Planter
12. Planting Area
13. Courtyard Trees
14. Concrete Path
15. Bermed Planting Area
16. Feature Paving (Oculus Above)
17. Enhanced Paving at Furnishing Zone
18. Waste Management Service Access



SCALE: 1" = 10'

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CONSULTANT

MILLER COMPANY
landscape architects
1585 FOLSOM ST. SAN FRANCISCO, CA 94103
415.252.7288 www.millercomp.com

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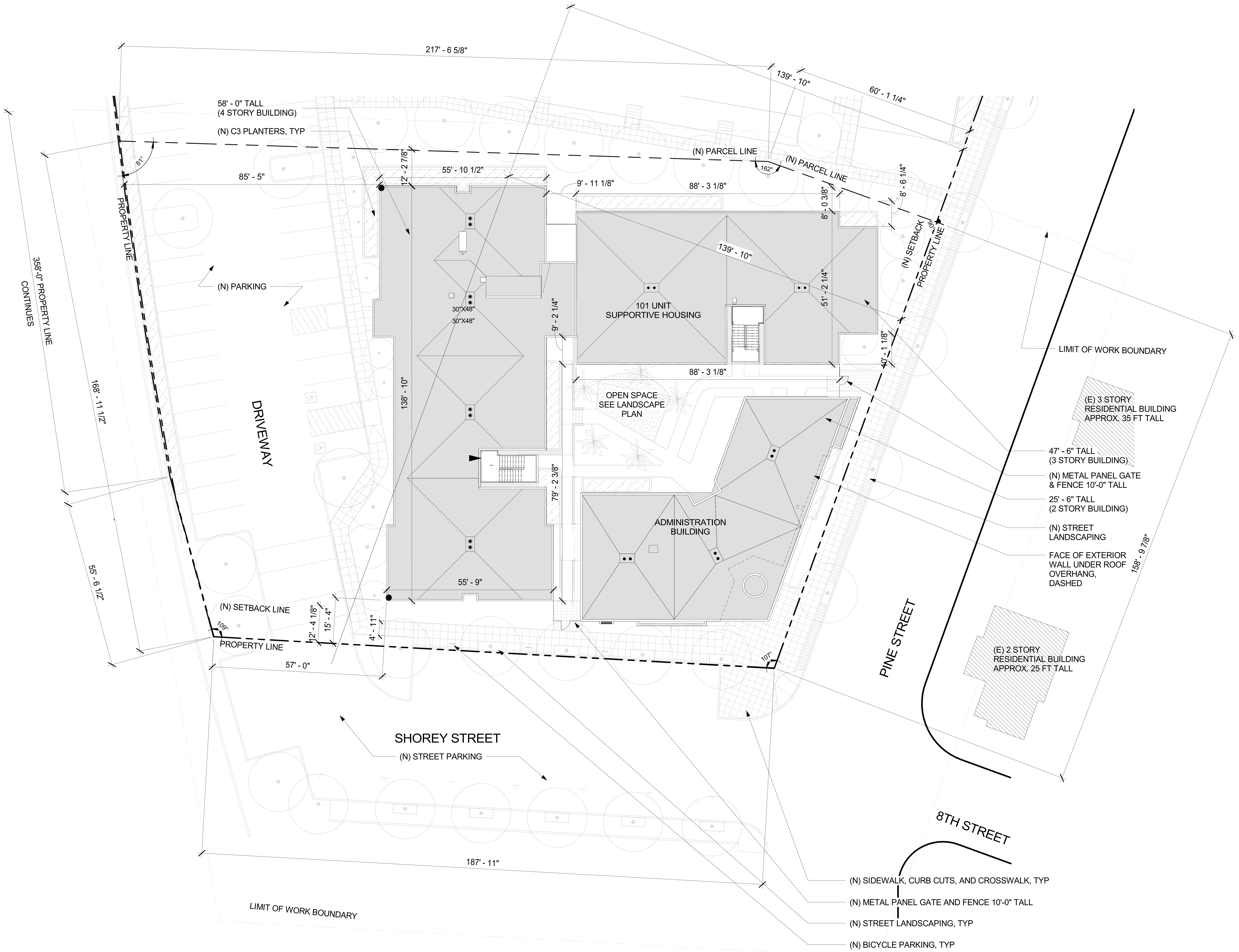
	03/26/2018	PLANNING SUBMITTAL	NG
	08/24/2018	PLANNING RESUBMITTAL	NG
	12/03/2018	PLANNING SUBMITTAL 2	NG
	05/24/2019	DRC SUBMITTAL	NG
	08/28/2019	DRC RESUBMITTAL	NG

DRAWN BY:
PROJECT NUMBER: 18-010
SHEET ISSUE DATE: 03/21/18
SHEET TITLE:

LANDSCAPE MATERIALS PLAN

SHEET NUMBER

L1.01



1 SITE PLAN
1/16" = 1'-0"

8/22/2019 9:33:01 AM

SHEET NOTES

1. OFF-SITE IMPROVEMENT TO INCLUDE NEW PARKING ON SHOREY STREET.

2. SHOREY LANE EXTENSION TO BE A NEW ROAD FOR FIRE ACCESS AND PARKING.

KEY NOTES

- ◇1 PUBLIC ART WALL OPPORTUNITY

OPEN SPACE

Name	Area
OPEN SPACE	3,582 SF

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	12/03/2018	PLANNING RESUBMITTAL	PS
	05/28/2019	PLANNING RESUBMITTAL	MD
	08/28/2019	DRC RESUBMITTAL	MD

PROJECT NORTH
TRUE NORTH

DRAWN BY: Author
PROJECT NUMBER: 18-010
SHEET ISSUE DATE: 03/21/18
SHEET TITLE:

SITE PLAN

SHEET NUMBER

P1.0

1 GROUND FLOOR PLAN
1/8" = 1'-0"

8/21/2019 6:12:53 PM

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	05/28/2019	PLANNING RESUBMITTAL	MD
	08/28/2019	DRC RESUBMITTAL	MD

N
PROJECT NORTH

N
TRUE NORTH

DRAWN BY: Author
PROJECT NUMBER: 18-010
SHEET ISSUE DATE: 03/21/18
SHEET TITLE:

GROUND FLOOR PLAN

SHEET NUMBER
P2.1

① LEVEL 2 FLOOR PLAN
1/8" = 1'-0"

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	05/28/2019	PLANNING RESUBMITTAL	MD
	08/28/2019	DRC RESUBMITTAL	MD

N
PROJECT NORTH

N
TRUE NORTH

DRAWN BY: Author
PROJECT NUMBER: 18-010
SHEET ISSUE DATE: 03/21/18
SHEET TITLE:

SECOND LEVEL
PLAN

SHEET NUMBER
P2.2

1 LEVEL 3 FLOOR PLAN
1/8" = 1'-0"

8/20/2019 3:17:49 PM

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	12/03/2018	PLANNING RESUBMITTAL	PS
	05/28/2019	PLANNING RESUBMITTAL	MD
	08/28/2019	DRC RESUBMITTAL	MD

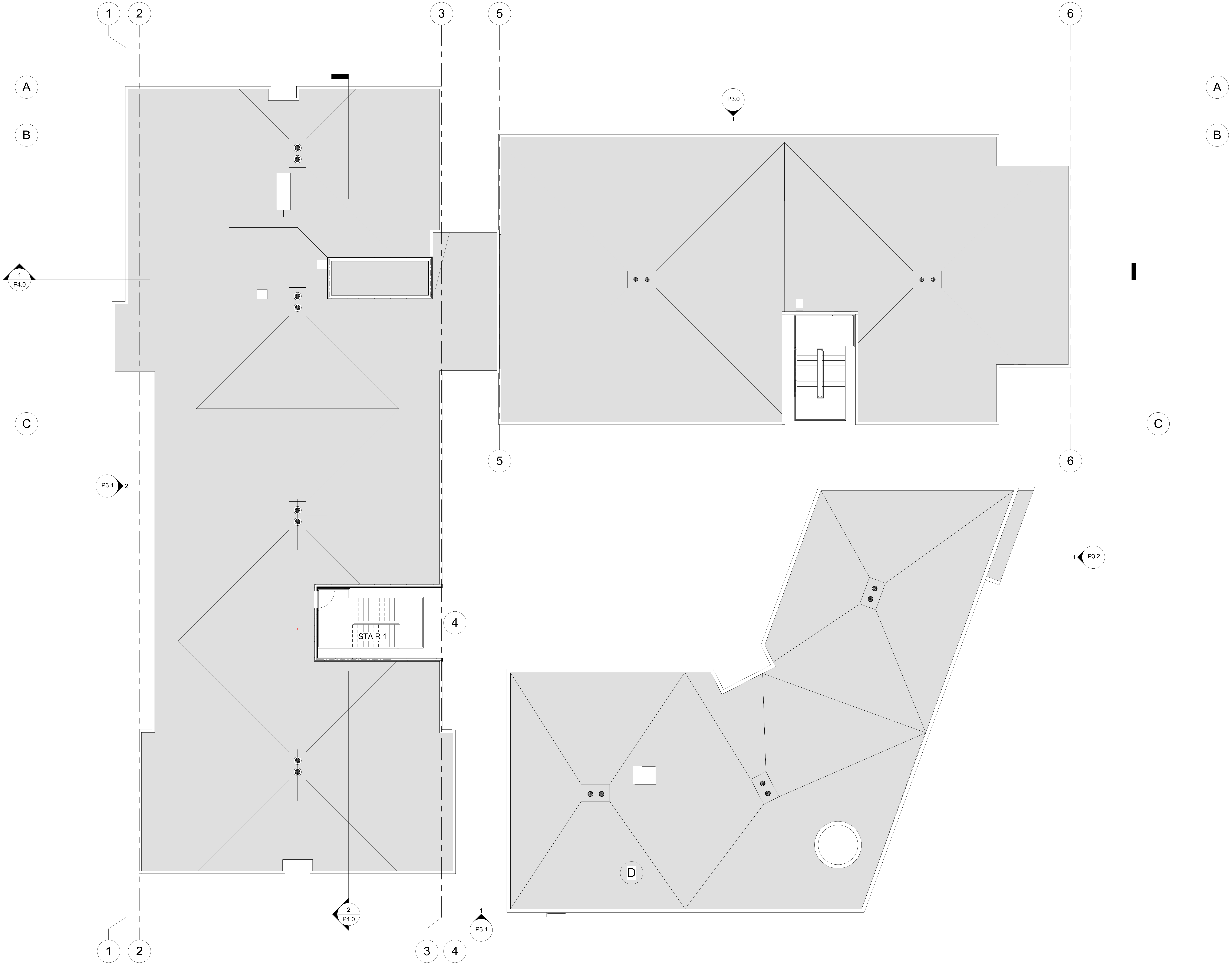
N N
PROJECT NORTH TRUE NORTH

DRAWN BY:	Author
PROJECT NUMBER:	18-010
SHEET ISSUE DATE:	03/21/18
SHEET TITLE:	

THIRD LEVEL
PLAN

SHEET NUMBER

P2.3



1 ROOF PLAN
1/8" = 1'-0"

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N PROJECT NORTH
N TRUE NORTH

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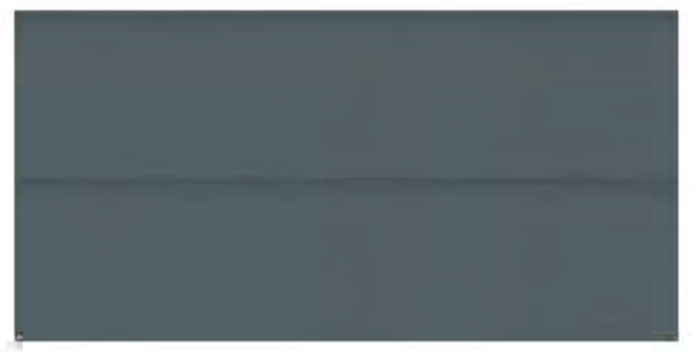
PROJECT NUMBER:	18-010
SHEET ISSUE DATE:	03/21/18
SHEET TITLE:	

ROOF PLAN

SHEET NUMBER

P2.5

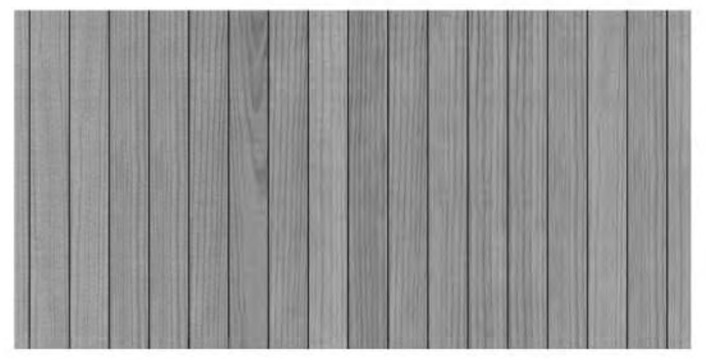

HS1 HORIZONTAL FIBER CEMENT SIDING RAINSTORM SW 6230


C1 BOARD FORMED CONCRETE WALL


S1 STUCCO PAINTED LUAU GREEN SW 6712


S3 STUCCO PAINTED CREAMY SW 7012


S5 STUCCO PAINTED MARCH WIND SW 7668


W2 WOOD LIKE PANEL


HS2 HORIZONTAL FIBER CEMENT SIDING TECHNO GRAY SW 6170


WF1 WINDOW FRAME DARK ANODIZED BRONZE


S2 STUCCO PAINTED EIDER WHITE SW 7014


S4 STUCCO PAINTED RESOLUTE BLUE SW 6507


W1 WOOD LIKE PANEL


W3 WOOD LIKE PANEL

MATERIAL LEGEND

HS1	HORIZONTAL FIBER CEMENT SIDING RAINSTORM SW 6230
HS2	HORIZONTAL FIBER CEMENT SIDING TECHNO GRAY SW 6170
C1	BOARD FORMED CONCRETE WALL
S1	STUCCO PAINTED LUAU GREEN SW 6712
S2	STUCCO PAINTED EIDER WHITE SW 7014
S3	STUCCO PAINTED CREAMY SW 7012
S4	STUCCO PAINTED RESOLUTE BLUE SW 6507
S5	STUCCO PAINTED MARCH WIND SW 7668
W1	WOOD LIKE PANEL - CHARCOAL
W2	WOOD LIKE PANEL - WEATHERED GREY
W3	WOOD LIKE PANEL - MEDIUM BROWN
WF1	WINDOW FRAME DARK ANODIZED BRONZE

1 BUILDING ELEVATION - NORTH
1/8" = 1'-0"

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	12/03/2018	PLANNING RESUBMITTAL	PS
	05/28/2019	PLANNING RESUBMITTAL	MD
	08/28/2019	DRC RESUBMITTAL	MD

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PROJECT NUMBER:	18-010
SHEET ISSUE DATE:	03/21/18
SHEET TITLE:	

BUILDING ELEVATIONS

SHEET NUMBER

P3.0

2 BUILDING ELEVATION - WEST
1/8" = 1'-0"

1 BUILDING ELEVATION - SOUTH
1/8" = 1'-0"

8/20/2019 3:23:18 PM

MATERIAL LEGEND

HS1	HORIZONTAL FIBER CEMENT SIDING RAINSTORM SW 6230
HS2	HORIZONTAL FIBER CEMENT SIDING TECHNO GRAY SW 6170
C1	BOARD FORMED CONCRETE WALL
S1	STUCCO PAINTED LUAU GREEN SW 6712
S2	STUCCO PAINTED EIDER WHITE SW 7014
S3	STUCCO PAINTED CREAMY SW 7012
S4	STUCCO PAINTED RESOLUTE BLUE SW 6507
S5	STUCCO PAINTED MARCH WIND SW 7668
W1	WOOD LIKE PANEL - CHARCOAL
W2	WOOD LIKE PANEL - WEATHERED GREY
W3	WOOD LIKE PANEL - MEDIUM BROWN
WF1	WINDOW FRAME DARK ANODIZED BRONZE

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	12/03/2018	PLANNING RESUBMITTAL	PS
	08/28/2019	DRC RESUBMITTAL	MD

DRAWN BY: Author
PROJECT NUMBER: 18-010
SHEET ISSUE DATE: 03/21/18
SHEET TITLE:

BUILDING ELEVATIONS

SHEET NUMBER
P3.1

MATERIAL LEGEND

HS1	HORIZONTAL FIBER CEMENT SIDING RAINSTORM SW 6230
HS2	HORIZONTAL FIBER CEMENT SIDING TECHNO GRAY SW 6170
C1	BOARD FORMED CONCRETE WALL
S1	STUCCO PAINTED LUAU GREEN SW 6712
S2	STUCCO PAINTED EIDER WHITE SW 7014
S3	STUCCO PAINTED CREAMY SW 7012
S4	STUCCO PAINTED RESOLUTE BLUE SW 6507
S5	STUCCO PAINTED MARCH WIND SW 7668
W1	WOOD LIKE PANEL - CHARCOAL
W2	WOOD LIKE PANEL - WEATHERED GREY
W3	WOOD LIKE PANEL - MEDIUM BROWN
WF1	WINDOW FRAME DARK ANODIZED BRONZE

1 BUILDING ELEVATION - EAST
1/8" = 1'-0"

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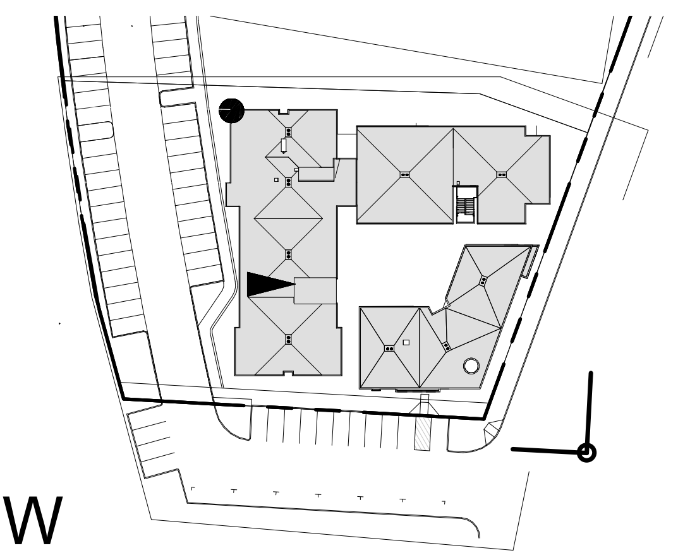
	12/03/2018	PLANNING RESUBMITTAL	PS
	08/28/2019	DRC RESUBMITTAL	MD

DRAWN BY: Author
PROJECT NUMBER: 18-010
SHEET ISSUE DATE: 03/15/18
SHEET TITLE:

BUILDING
ELEVATIONS

SHEET NUMBER
P3.2



PINE AND 8TH STREET VIEW

8/20/2019 3:28:33 PM

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	12/03/2018	PLANNING RESUBMITTAL	PS
	05/28/2019	PLANNING RESUBMITTAL	MD
	08/28/2019	DRC RESUBMITTAL	MD

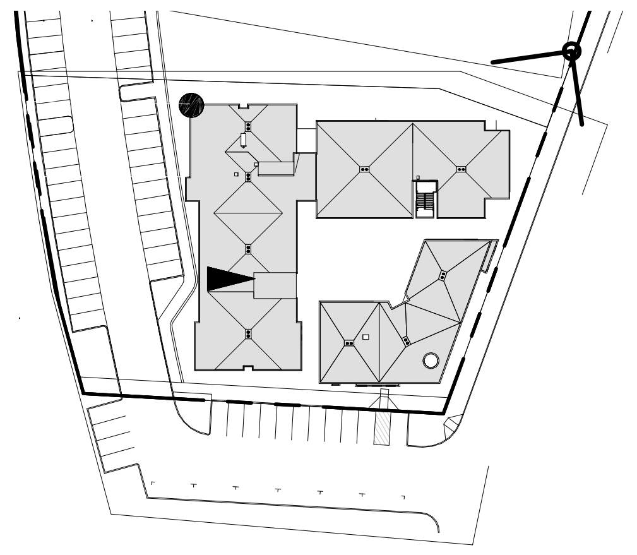
DRAWN BY:	Author
PROJECT NUMBER:	18-010
SHEET ISSUE DATE:	03/15/18

SHEET TITLE:

PERSPECTIVE DRAWINGS

SHEET NUMBER

P5.2



PINE STREET VIEW

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	05/28/2019	PLANNING RESUBMITTAL	MD
	08/28/2019	DRC RESUBMITTAL	MD

DRAWN BY: Author
PROJECT NUMBER: 18-010
SHEET ISSUE DATE: 03/15/18
SHEET TITLE:

PERSPECTIVE DRAWINGS

SHEET NUMBER

P6.0

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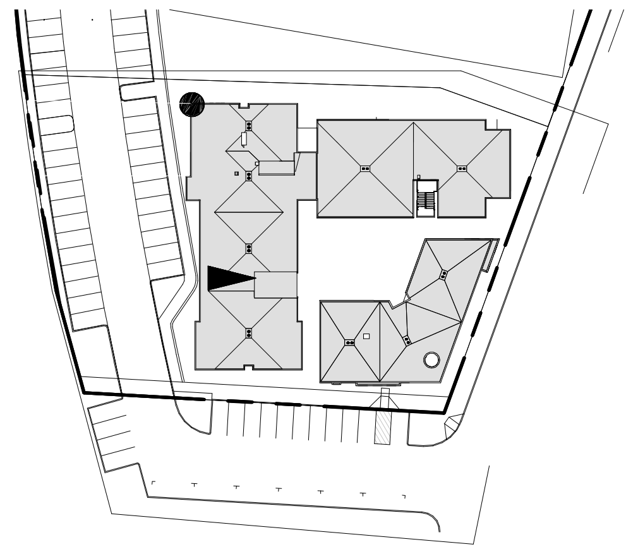
PINE STREET ZOOMED IN VIEW



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CONSULTANT STAMP

#	DATE	ISSUES & REVISIONS	BY
	08/28/2019	DRC RESUBMITTAL	MD

PROJECT NORTH

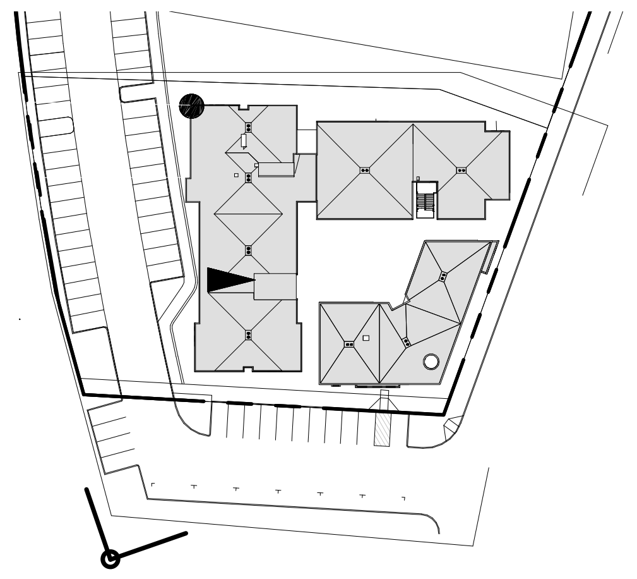
TRUE NORTH

DRAWN BY:	Author
PROJECT NUMBER:	18-010
SHEET ISSUE DATE:	08/20/19
SHEET TITLE:	

PERSPECTIVE DRAWINGS

SHEET NUMBER

P6.0A



SHOREY STREET VIEW

8/20/2019 3:34:51 PM

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#	DATE	ISSUES & REVISIONS	BY
	05/28/2019	PLANNING RESUBMITTAL	MD
	08/28/2019	DRC RESUBMITTAL	MD

N PROJECT NORTH

N TRUE NORTH

DRAWN BY: Author
PROJECT NUMBER: 18-010
SHEET ISSUE DATE: 05/20/19
SHEET TITLE:

PERSPECTIVE DRAWINGS

SHEET NUMBER

P6.1

Appendix B
Native American Correspondence

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Local Government Tribal Consultation List Request

Native American Heritage Commission
1550 Harbor Blvd, Suite 100
West Sacramento, CA 95691
916-373-3710
916-373-5471 – Fax
nahc@nahc.ca.gov

Type of List Requested

☒ **CEQA Tribal Consultation List (AB 52)** *– Per Public Resources Code § 21080.3.1, subs. (b), (d), (e) and 21080.3.2*

☐ **General Plan (SB 18)** *- Per Government Code § 65352.3.*

Local Action Type:

☐ **General Plan** ☐ **General Plan Element** ☐ **General Plan Amendment**

☐ **Specific Plan** ☐ **Specific Plan Amendment** ☐ **Pre-planning Outreach Activity**

Required Information

Project Title: Phoenix Mixed-Use Affordable Housing Project

Local Government/Lead Agency: City of Oakland, Planning and Building Department

Contact Person: Heather Klein, Zoning Area Supervisor

Street Address: 250 Frank H. Ogawa Plaza

City: Oakland, CA **Zip:** 94612

Phone: 510-238-3659 **Fax:**

Email: hklein@oaklandca.gov

Specific Area Subject to Proposed Action

County: Alameda **City/Community:** Oakland

Project Description:

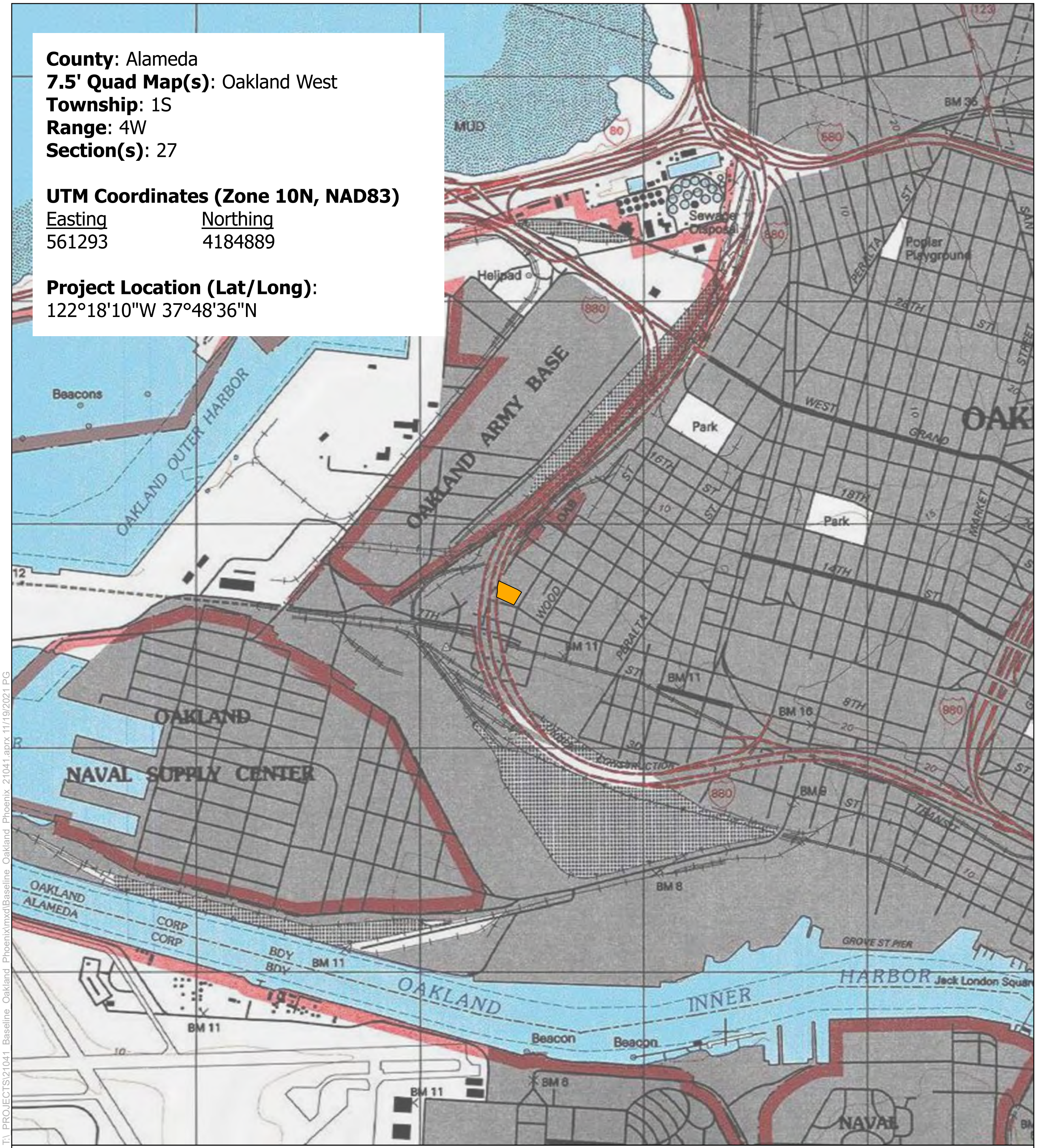
The City of Oakland is proposing to develop The Phoenix, a mixed-use affordable and supportive housing project at the northwest corner of Pine Street and 8th Street in Oakland, California. The Project will consist of a four-story, 101-unit residential building and a two-story community building.

Additional Request

☒ **Sacred Lands File Search** - ***Required Information:***

USGS Quadrangle Name(s): Oakland West 7.5" quad

Township: 1S **Range:** 4W **Section(s):** 27



County: Alameda
7.5' Quad Map(s): Oakland West
Township: 1S
Range: 4W
Section(s): 27

UTM Coordinates (Zone 10N, NAD83)

Easting	Northing
561293	4184889

Project Location (Lat/Long):
122°18'10"W 37°48'36"N

T:_PROJECTS\21041_Baseline_Oakland_Phoenix\mxd\Baseline_Oakland_Phoenix_21041.aprx 11/19/2021 PG

Notes: USGS 7.5" Oakland West Quad; T1S, R4W, Section 27; 1.72-Acre Project Area

N

0 0.25 0.5
Miles

🟧 Project Area

Figure 1
Project Location

Horizon
WATER and ENVIRONMENT

Phoenix Mixed-Use Affordable Housing Project

CITY OF OAKLAND

DALZIEL BUILDING • 250 FRANK H. OGAWA PLAZA • SUITE 3315 • OAKLAND, CALIFORNIA 94612

Planning and Building Department (510) 238-3941
Bureau of Planning FAX (510) 238-6538
TDD (510) 238-3254

January 27, 2022

Tony Cerda, Chairperson
Costanoan Rumsen Carmel Tribe
244 E. 1st Street
Pomona, CA 91766

RE: Phoenix Affordable Housing Project

Dear Honorable Chairperson Cerda:

The Oakland Housing Authority is considering funding the project listed above with federal funds from the U.S. Department of Housing and Urban Development (HUD). Under regulation 24 CFR 58.4, the City has assumed HUD's environmental review responsibilities for the project, including tribal consultation related to historic properties, on behalf of HUD. Historic properties include archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, traditional cultural places and landscapes, plant and animal communities, and buildings and structures with significant tribal association.

The City will conduct a review of the project described below to comply with Section 106 of the National Historic Preservation Act and its implementing regulations 36 CFR Part 800. While, we were unable to receive a tribal consultation list from the Native American Heritage Commission, we have identified you as a local Tribe and would like to invite you to be a consulting party in this review to help identify historic properties in the project area that may have religious and cultural significance to your tribe, and if such properties exist, to help assess how the project might affect them. If the project might have an adverse effect, we would like to discuss possible ways to avoid, minimize or mitigate potential adverse effects.

Enclosed are maps showing the project area (Figure 1). The East Bay Asian Local Development Corporation (EBALDC), and Allied Housing (Allied) are proposing to develop The Phoenix (proposed project), an affordable and supportive housing project at the northwest corner of Pine Street and Story/8th Street in Oakland, California. The project will consist of a four-story, 101-unit residential building and a two-story community building.

The project is in an area affected by the Loma Prieta earthquake and the subsequent reconstruction of I-880 near the Port of Oakland. The project will be located on half of a city

block that once housed a large warehouse. The warehouse was removed during freeway construction and the surface of the area is currently covered with concrete. The Oakland Point Historic District, which is largely comprised of homes built in the late 1800s, abuts the project block on the north and east.

A record search at the Northwest Information Center of the California Historical Resources Information System at Sonoma State University did not identify any known Native American cultural resources in or near the project location. A geoarchaeological analysis of the project site found the area to have a low sensitivity for buried cultural remains, as the area is underlain by dune sand and there are no fresh water sources within ¼ mile of the parcel.

More information on the Section 106 review process is available at http://www.comcon.org/sites/default/files/historic_preservation/ . HUD's process for tribal consultation under Section 106 is described in a Notice available at http://portal.hud.gov/hudportal/HUD?src=/program_offices/comm_planning/environment/atec.

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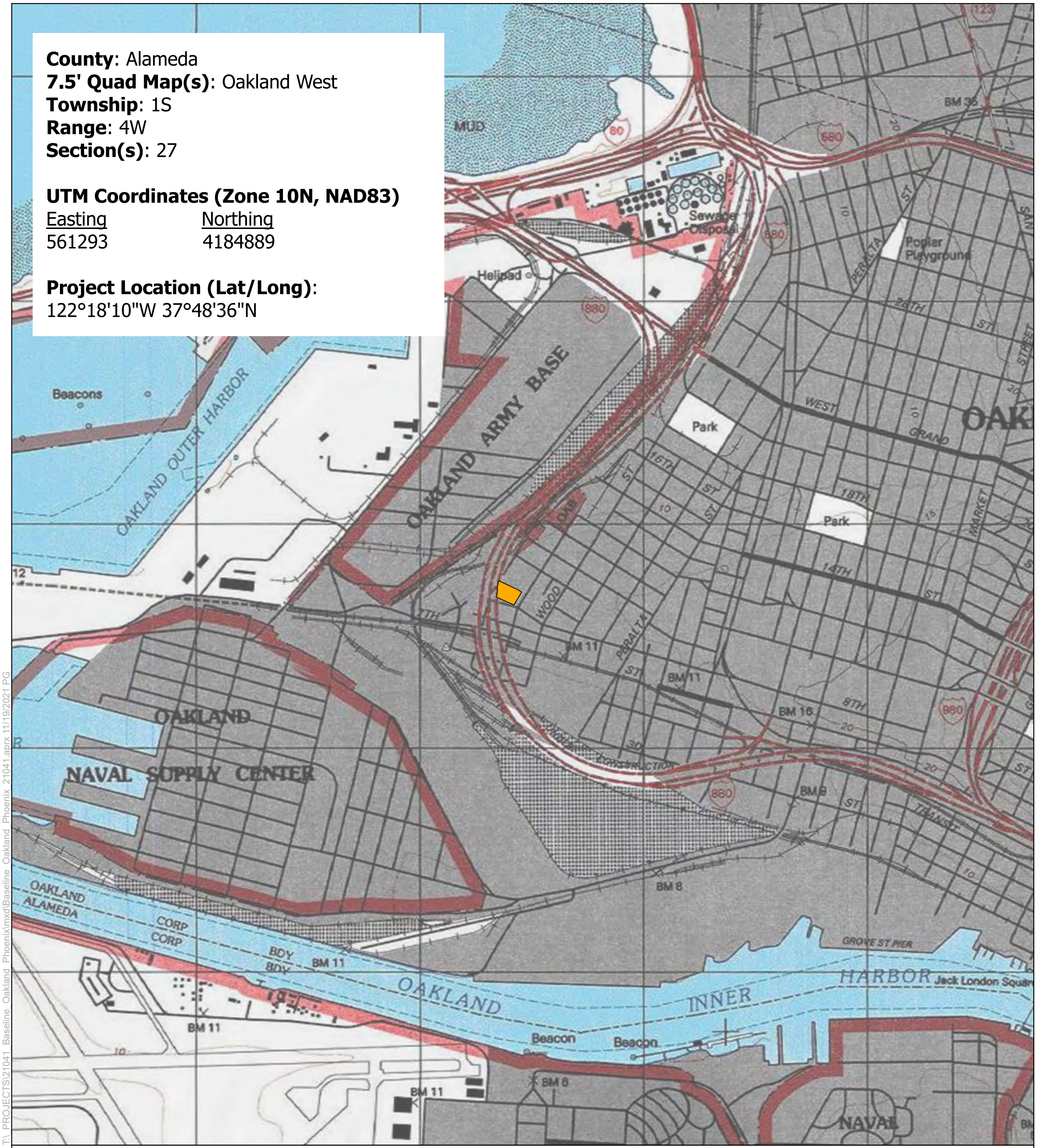
Your comments and concerns are important to us, and we look forward to hearing from you. If you have any questions or comments regarding the project, I can be contacted via email at hklein@oaklandca.gov or by phone at (510)238-3659.

Sincerely,

Heather Klein
Planner IV
Enclosures: Figure 1 – Project Location



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Project Location

Horizon WATER and ENVIRONMENT

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CITY OF OAKLAND

DALZIEL BUILDING • 250 FRANK H. OGAWA PLAZA • SUITE 3315 • OAKLAND, CALIFORNIA 94612

Planning and Building Department (510) 238-3941
Bureau of Planning FAX (510) 238-6538
TDD (510) 238-3254

January 27, 2022

Donald Duncan, Chairperson
Guidiville Indian Rancheria
P.O. Box 339
Talmage, CA 95481

RE: Phoenix Affordable Housing Project

Dear Honorable Chairperson Duncan:

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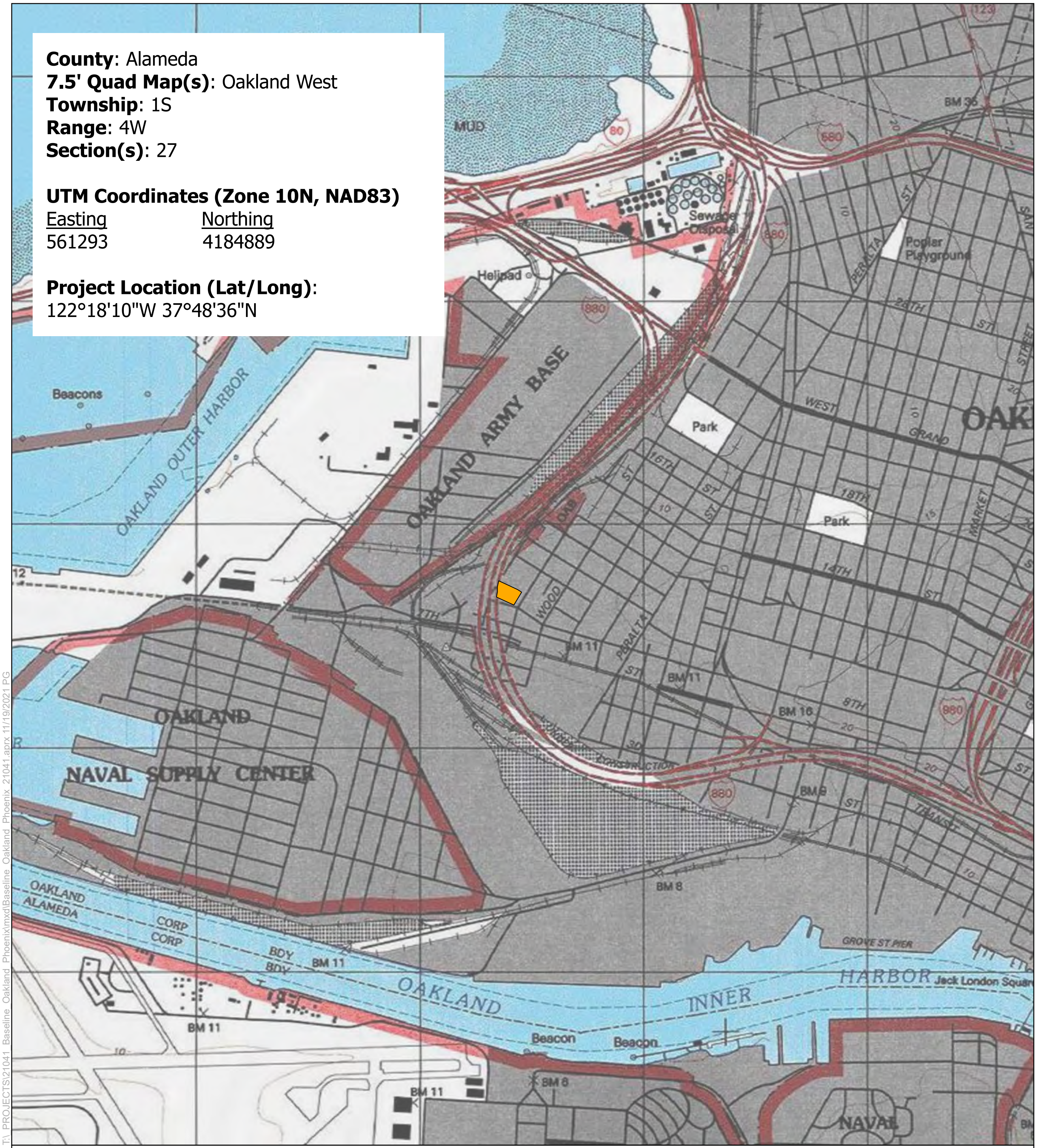

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Phoenix Mixed-Use Affordable Housing Project

CITY OF OAKLAND

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Planning and Building Department (510) 238-3941
Bureau of Planning FAX (510) 238-6538
TDD (510) 238-3254

January 27, 2022

Mr. Andrew Galvan
The Ohlone Tribe
P.O. Box 3388.
Fremont, CA 94539

RE: Phoenix Affordable Housing Project

Dear Honorable Mr. Galvin:

The Oakland Housing Authority is considering funding the project listed above with federal funds from the U.S. Department of Housing and Urban Development (HUD). Under regulation 24 CFR 58.4, the City has assumed HUD's environmental review responsibilities for the project, including tribal consultation related to historic properties, on behalf of HUD. Historic properties include archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, traditional cultural places and landscapes, plant and animal communities, and buildings and structures with significant tribal association.

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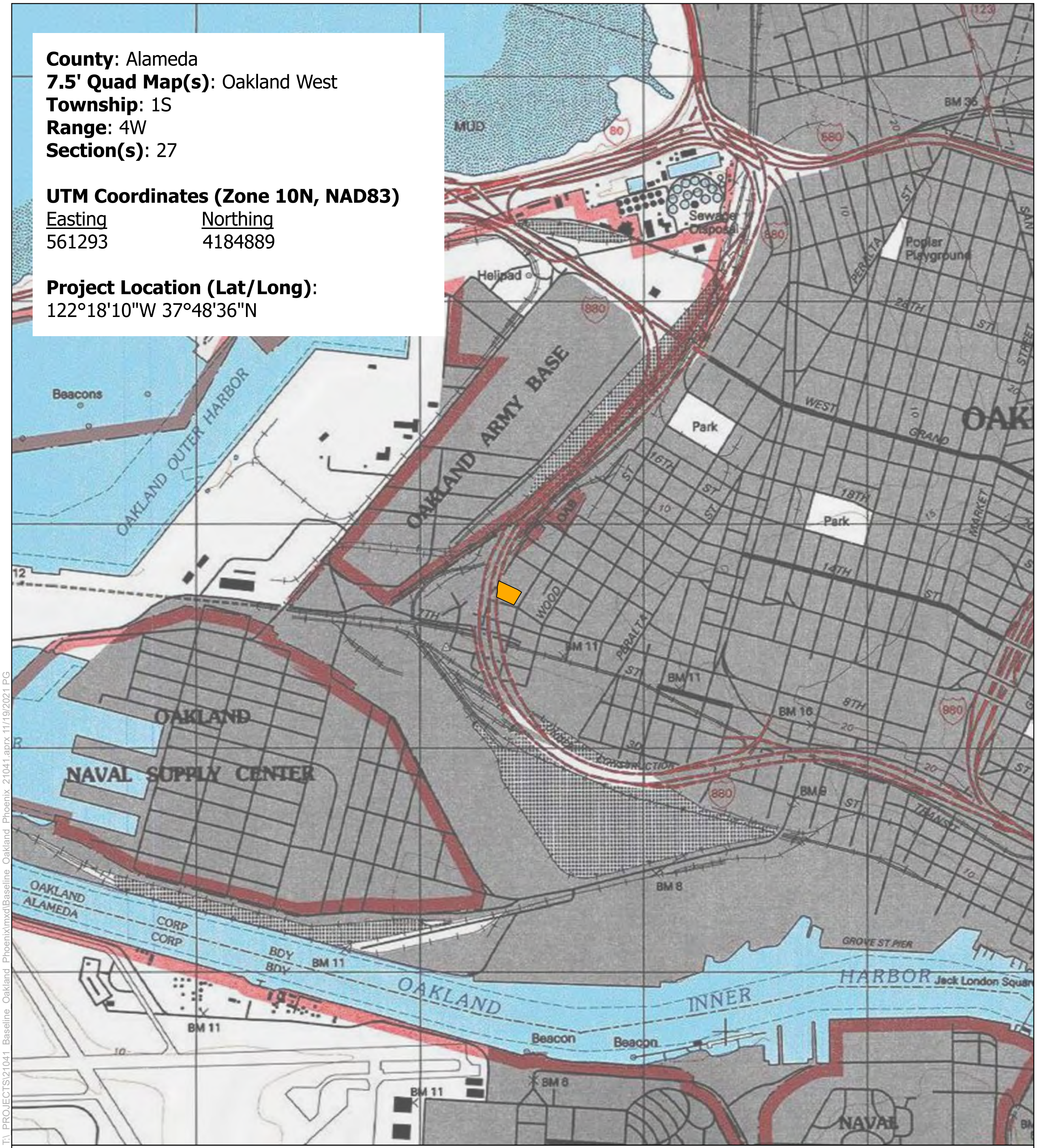

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Project Location

Horizon WATER and ENVIRONMENT

Phoenix Mixed-Use Affordable Housing Project

CITY OF OAKLAND

DALZIEL BUILDING • 250 FRANK H. OGAWA PLAZA • SUITE 3315 • OAKLAND, CALIFORNIA 94612

Planning and Building Department (510) 238-3941
Bureau of Planning FAX (510) 238-6538
TDD (510) 238-3254

January 27, 2022

Quirina Luna Geary, Chairperson
Tamien Nation
P.O. Box 8053
San Jose, CA 95155

RE: Phoenix Affordable Housing Project

Dear Honorable Chairperson Geary:

The Oakland Housing Authority is considering funding the project listed above with federal funds from the U.S. Department of Housing and Urban Development (HUD). Under regulation 24 CFR 58.4, the City has assumed HUD's environmental review responsibilities for the project, including tribal consultation related to historic properties, on behalf of HUD. Historic properties include archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, traditional cultural places and landscapes, plant and animal communities, and buildings and structures with significant tribal association.

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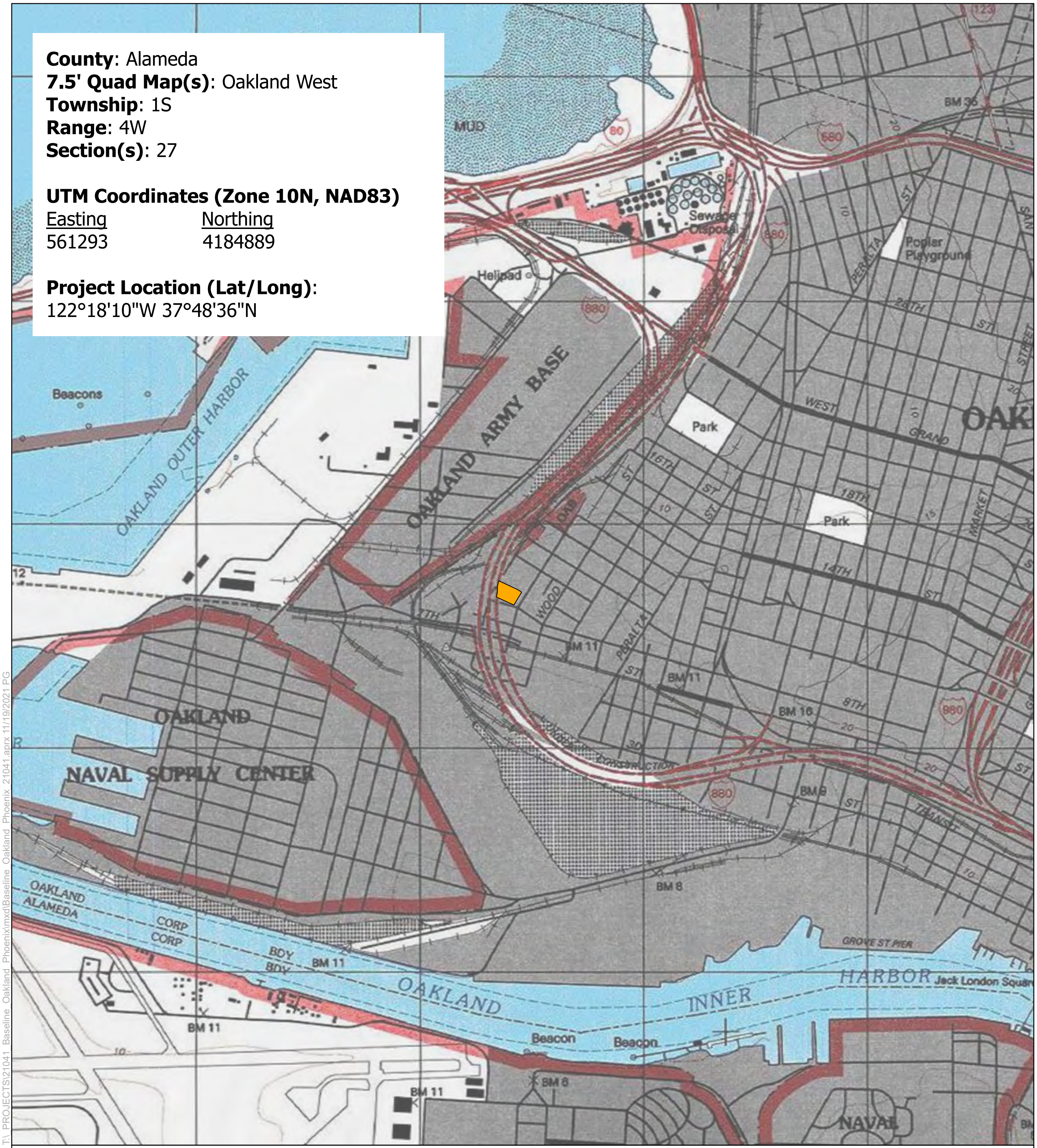

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Project Location

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Phoenix Mixed-Use Affordable Housing Project

CITY OF OAKLAND

DALZIEL BUILDING • 250 FRANK H. OGAWA PLAZA • SUITE 3315 • OAKLAND, CALIFORNIA 94612

Planning and Building Department
Bureau of Planning

(510) 238-3941
FAX (510) 238-6538
TDD (510) 238-3254

January 27, 2022

Corrina Gould, Chairperson
The Confederated Villages of Lisjan
10926 Edes Avenue
Oakland, CA 94603

RE: Phoenix Affordable Housing Project

Dear Honorable Chairperson Gould:

The Oakland Housing Authority is considering funding the project listed above with federal funds from the U.S. Department of Housing and Urban Development (HUD). Under regulation 24 CFR 58.4, the City has assumed HUD's environmental review responsibilities for the project, including tribal consultation related to historic properties, on behalf of HUD. Historic properties include archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, traditional cultural places and landscapes, plant and animal communities, and buildings and structures with significant tribal association.

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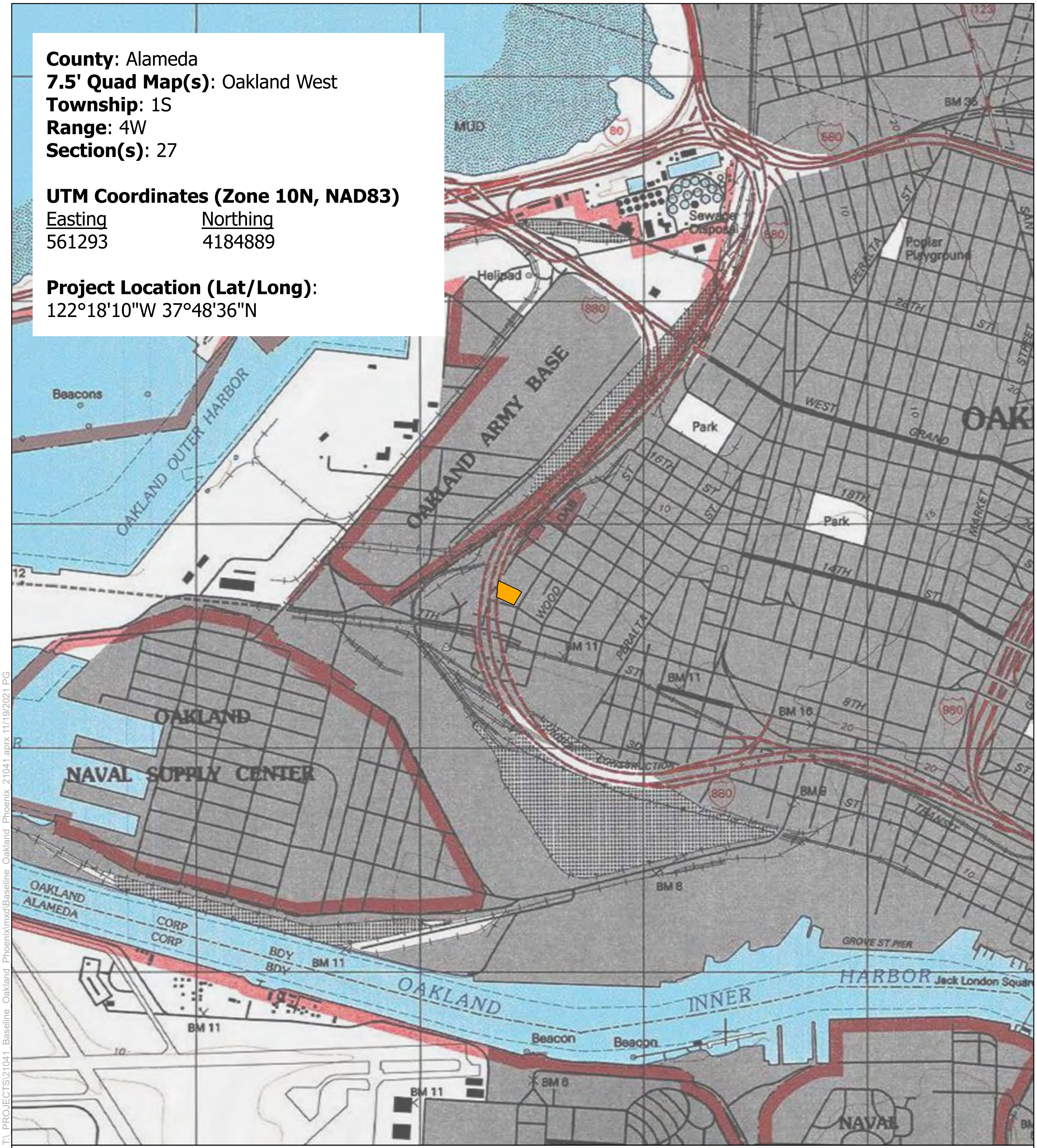

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CITY OF OAKLAND

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Planning and Building Department (510) 238-3941
Bureau of Planning FAX (510) 238-6538
TDD (510) 238-3254

January 27, 2022

Charlene Nijmeh, Chairperson
Muwekma Ohlone Indian Tribe of the SF Bay Area
20885 Redwood Road, Suite 232
Castro Valley, CA 94546

RE: Phoenix Affordable Housing Project

Dear Honorable Chairperson Nijmeh:

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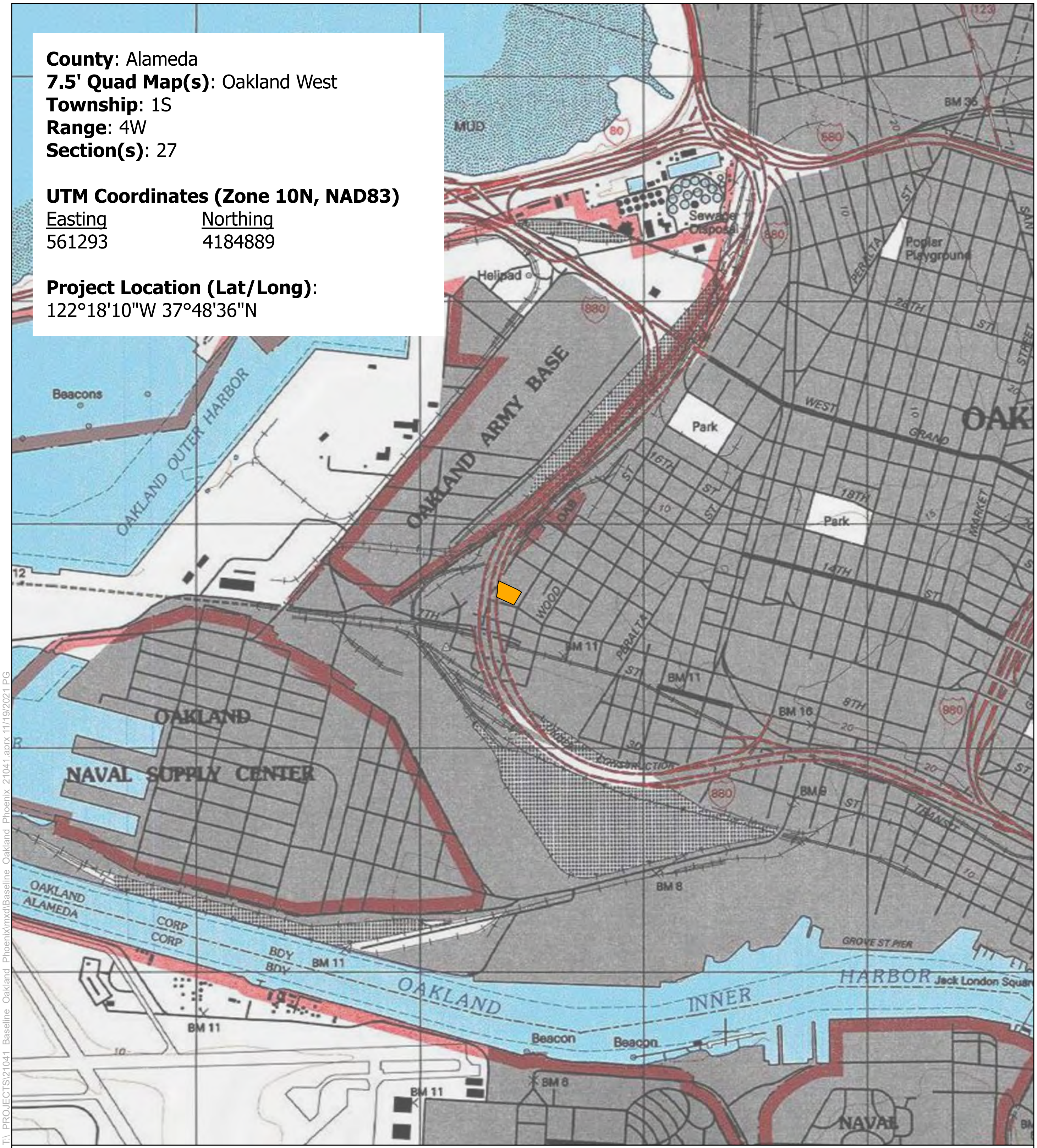

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January 27, 2022

Katherine Erolinda Perez, Chairperson
North Valley Yokuts Tribe
P.O. Box 717
Linden, CA 95236

RE: Phoenix Affordable Housing Project

Dear Honorable Chairperson Perez:

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Enclosed are maps showing the project area (Figure 1). The East Bay Asian Local Development Corporation (EBALDC), and Allied Housing (Allied) are proposing to develop The Phoenix (proposed project), an affordable and supportive housing project at the northwest corner of Pine Street and Story/8th Street in Oakland, California. The project will consist of a four-story, 101-unit residential building and a two-story community building.

The project is in an area affected by the Loma Prieta earthquake and the subsequent reconstruction of I-880 near the Port of Oakland. The project will be located on half of a city

block that once housed a large warehouse. The warehouse was removed during freeway construction and the surface of the area is currently covered with concrete. The Oakland Point Historic District, which is largely comprised of homes built in the late 1800s, abuts the project block on the north and east.

A record search at the Northwest Information Center of the California Historical Resources Information System at Sonoma State University did not identify any known Native American cultural resources in or near the project location. A geoarchaeological analysis of the project site found the area to have a low sensitivity for buried cultural remains, as the area is underlain by dune sand and there are no fresh water sources within ¼ mile of the parcel.

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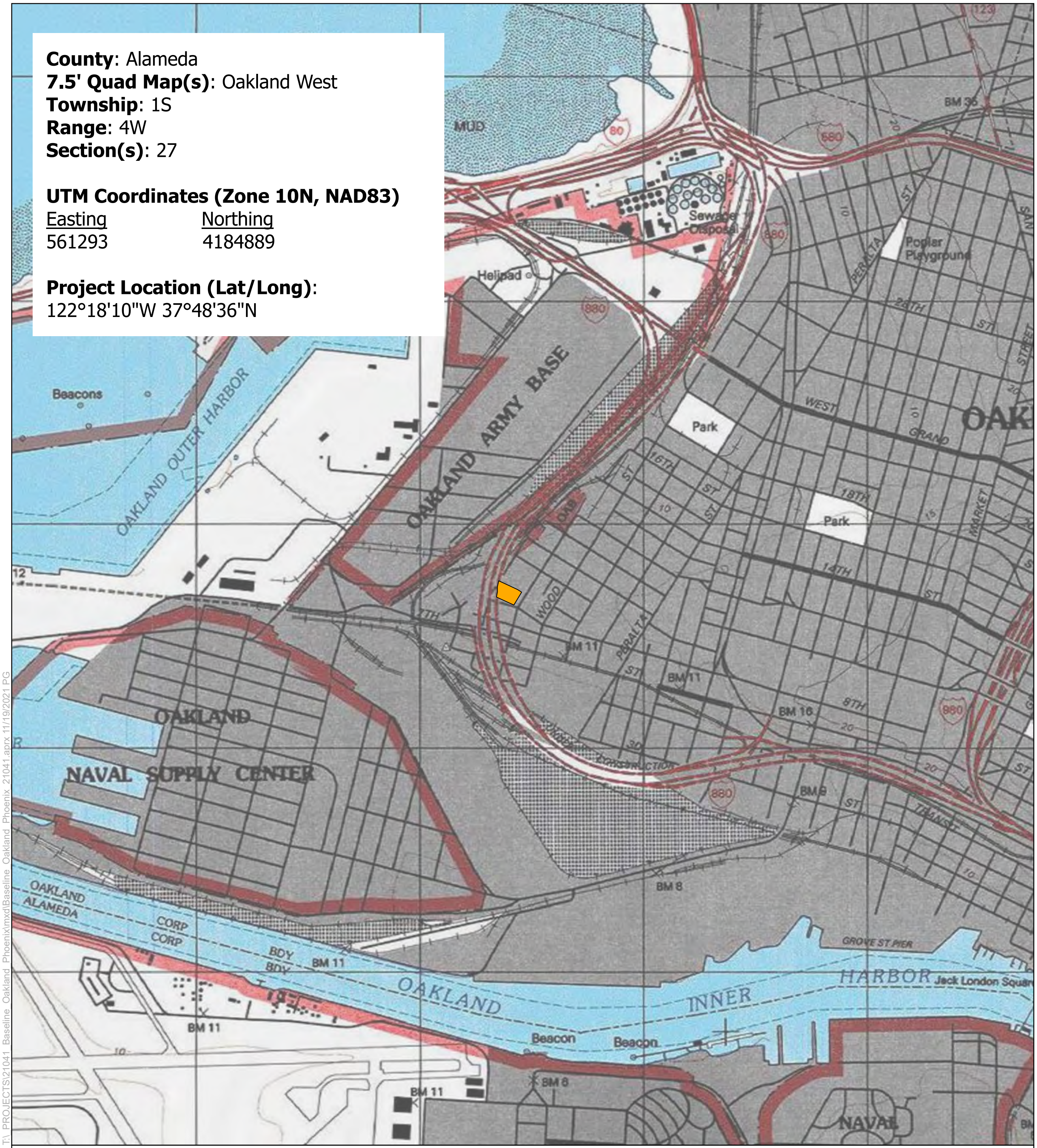
Your comments and concerns are important to us, and we look forward to hearing from you. If you have any questions or comments regarding the project, I can be contacted via email at hklein@oaklandca.gov or by phone at (510)238-3659.

Sincerely,

Heather Klein
Planner IV
Enclosures: Figure 1 – Project Location



County: Alameda
7.5' Quad Map(s): Oakland West
Township: 1S
Range: 4W
Section(s): 27

UTM Coordinates (Zone 10N, NAD83)

Easting	Northing
561293	4184889

Project Location (Lat/Long):
122°18'10"W 37°48'36"N

T:\ PROJECTS\21041 Baseline Oakland Phoenix\mxd\Baseline Oakland Phoenix 21041.aprx 11/19/2021 PG

Notes: USGS 7.5" Oakland West Quad; T1S, R4W, Section 27; 1.72-Acre Project Area

N

0 0.25 0.5
Miles

🟧 Project Area

Figure 1
Project Location

Horizon WATER and ENVIRONMENT

Phoenix Mixed-Use Affordable Housing Project

CITY OF OAKLAND

DALZIEL BUILDING • 250 FRANK H. OGAWA PLAZA • SUITE 3315 • OAKLAND, CALIFORNIA 94612

Planning and Building Department (510) 238-3941
Bureau of Planning FAX (510) 238-6538
TDD (510) 238-3254

January 27, 2022

Neil Peyron, Chairperson
Tule River Indian Tribe
P.O. Box 589
Porterville, CA 93258

RE: Phoenix Affordable Housing Project

Dear Honorable Chairperson Peyron:

The Oakland Housing Authority is considering funding the project listed above with federal funds from the U.S. Department of Housing and Urban Development (HUD). Under regulation 24 CFR 58.4, the City has assumed HUD's environmental review responsibilities for the project, including tribal consultation related to historic properties, on behalf of HUD. Historic properties include archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, traditional cultural places and landscapes, plant and animal communities, and buildings and structures with significant tribal association.

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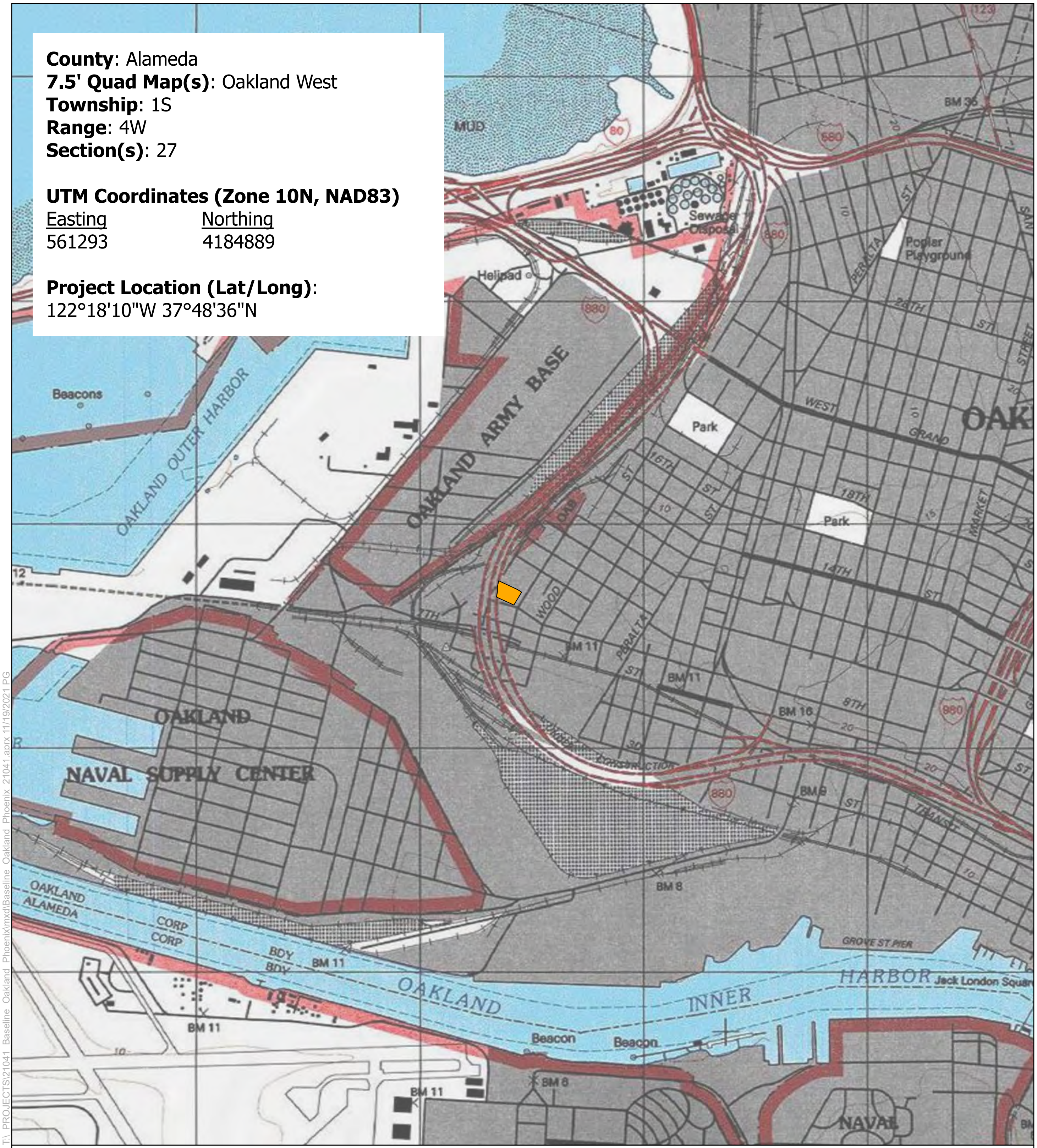

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Figure 1
Project Location

Horizon WATER and ENVIRONMENT

Phoenix Mixed-Use Affordable Housing Project

CITY OF OAKLAND

DALZIEL BUILDING • 250 FRANK H. OGAWA PLAZA • SUITE 3315 • OAKLAND, CALIFORNIA 94612

Planning and Building Department (510) 238-3941
Bureau of Planning FAX (510) 238-6538
TDD (510) 238-3254

January 27, 2022

Ann Marie Sayers, Chairperson
Indian Canyon Mutsun Band of Costanoan
P.O. Box 28
Hollister, CA 95024

RE: Phoenix Affordable Housing Project

Dear Honorable Chairperson Sayers:

The Oakland Housing Authority is considering funding the project listed above with federal funds from the U.S. Department of Housing and Urban Development (HUD). Under regulation 24 CFR 58.4, the City has assumed HUD's environmental review responsibilities for the project, including tribal consultation related to historic properties, on behalf of HUD. Historic properties include archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, traditional cultural places and landscapes, plant and animal communities, and buildings and structures with significant tribal association.

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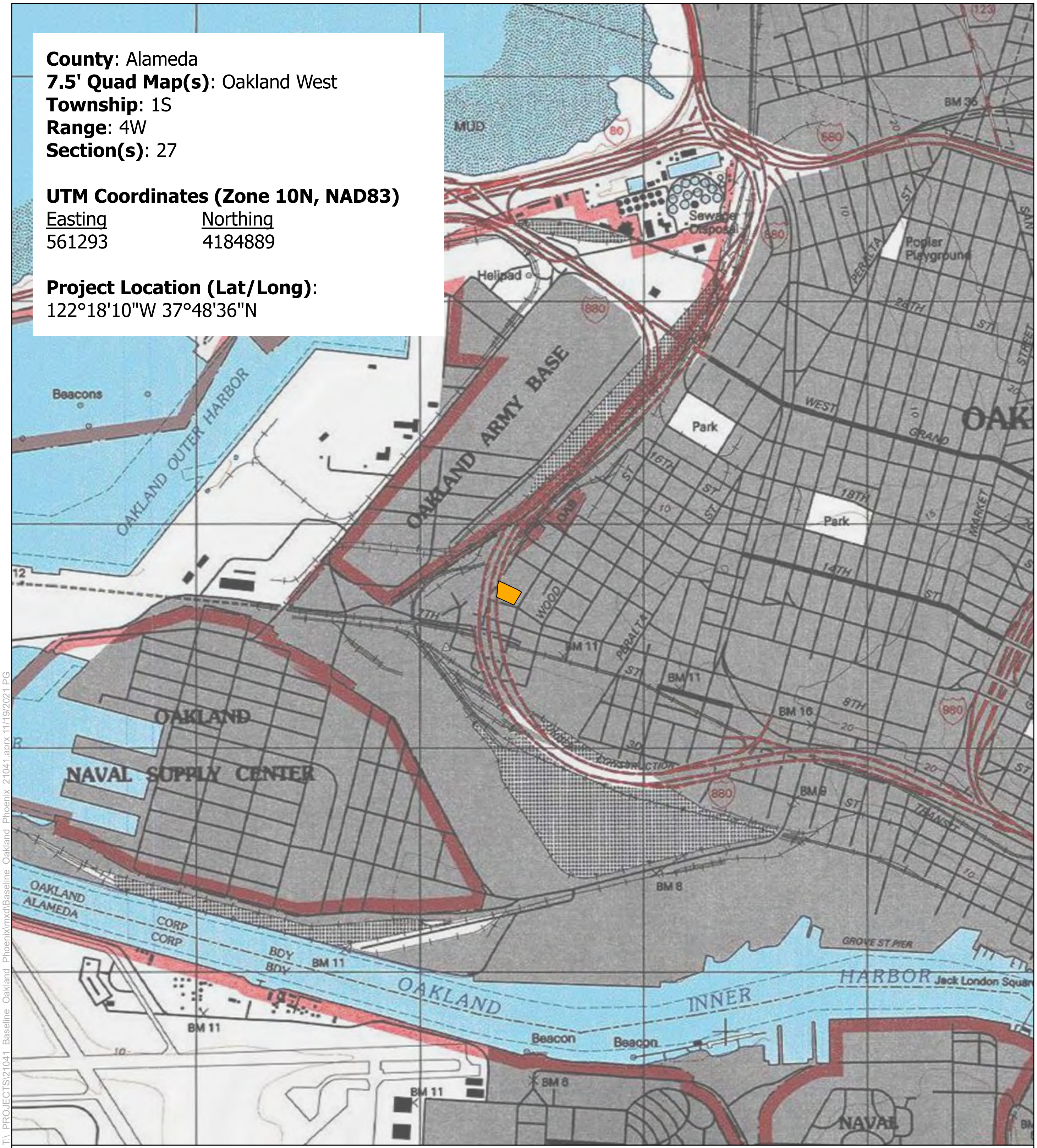

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Project Location

Horizon WATER and ENVIRONMENT

Phoenix Mixed-Use Affordable Housing Project

CITY OF OAKLAND

DALZIEL BUILDING • 250 FRANK H. OGAWA PLAZA • SUITE 3315 • OAKLAND, CALIFORNIA 94612

Planning and Building Department
Bureau of Planning

(510) 238-3941
FAX (510) 238-6538
TDD (510) 238-3254

January 27, 2022

Jesus G. Tarango, Jr, Chairperson
Wilton Rancheria
9728 Kent Street
Elk Grove, CA 95624

RE: Phoenix Affordable Housing Project

Dear Honorable Chairperson Tarango:

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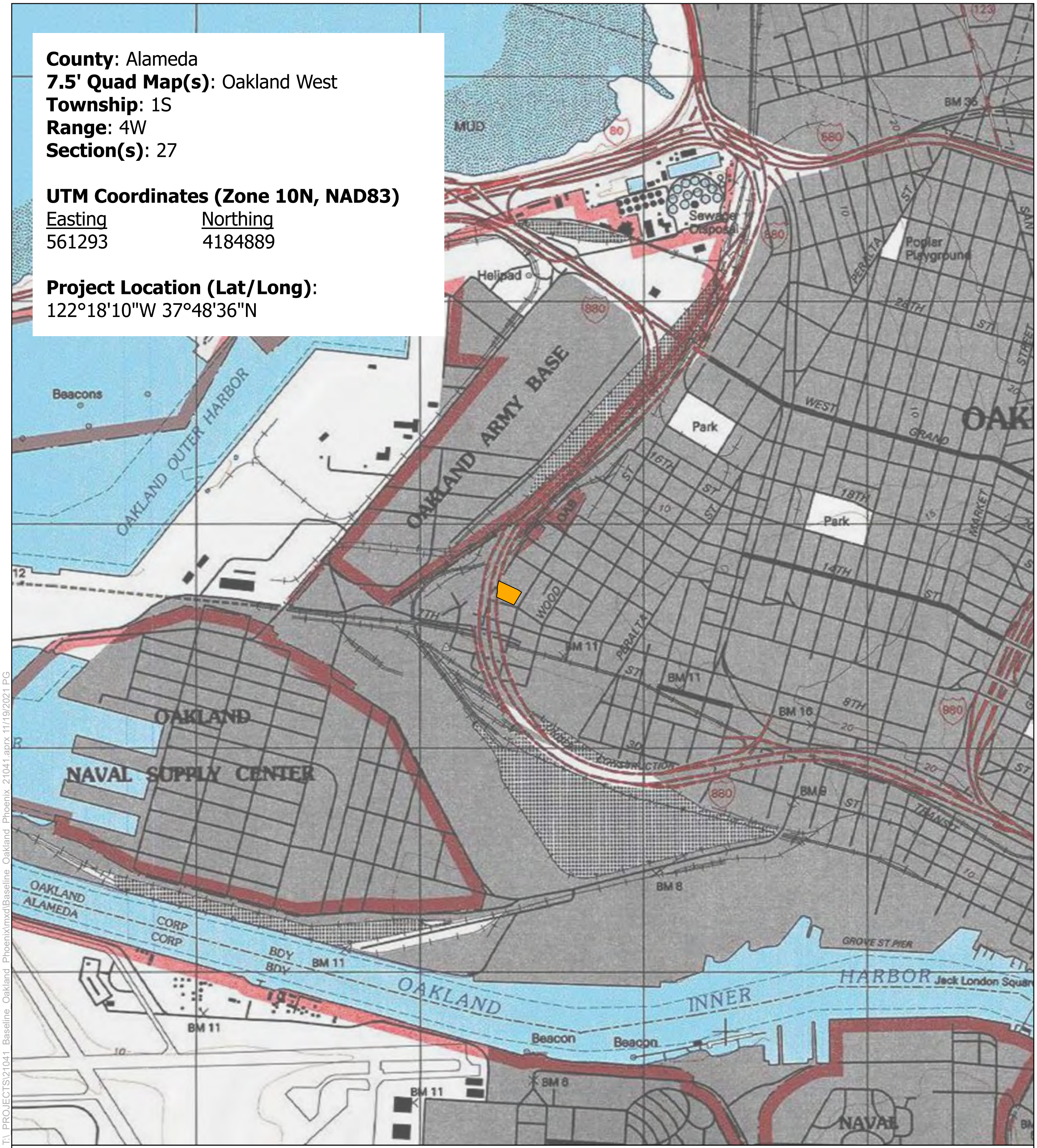

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Horizon WATER and ENVIRONMENT

Phoenix Mixed-Use Affordable Housing Project

CITY OF OAKLAND

DALZIEL BUILDING • 250 FRANK H. OGAWA PLAZA • SUITE 3315 • OAKLAND, CALIFORNIA 94612

Planning and Building Department (510) 238-3941
Bureau of Planning FAX (510) 238-6538
TDD (510) 238-3254

January 27, 2022

Kenneth Woodrow, Chairperson
Wuksache Indian Tribe/Eshom Valley Band
1179 Rock Haven Ct.
Salinas, CA 93906

RE: Phoenix Affordable Housing Project

Dear Honorable Chairperson Woodrow:

The Oakland Housing Authority is considering funding the project listed above with federal funds from the U.S. Department of Housing and Urban Development (HUD). Under regulation 24 CFR 58.4, the City has assumed HUD's environmental review responsibilities for the project, including tribal consultation related to historic properties, on behalf of HUD. Historic properties include archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, traditional cultural places and landscapes, plant and animal communities, and buildings and structures with significant tribal association.

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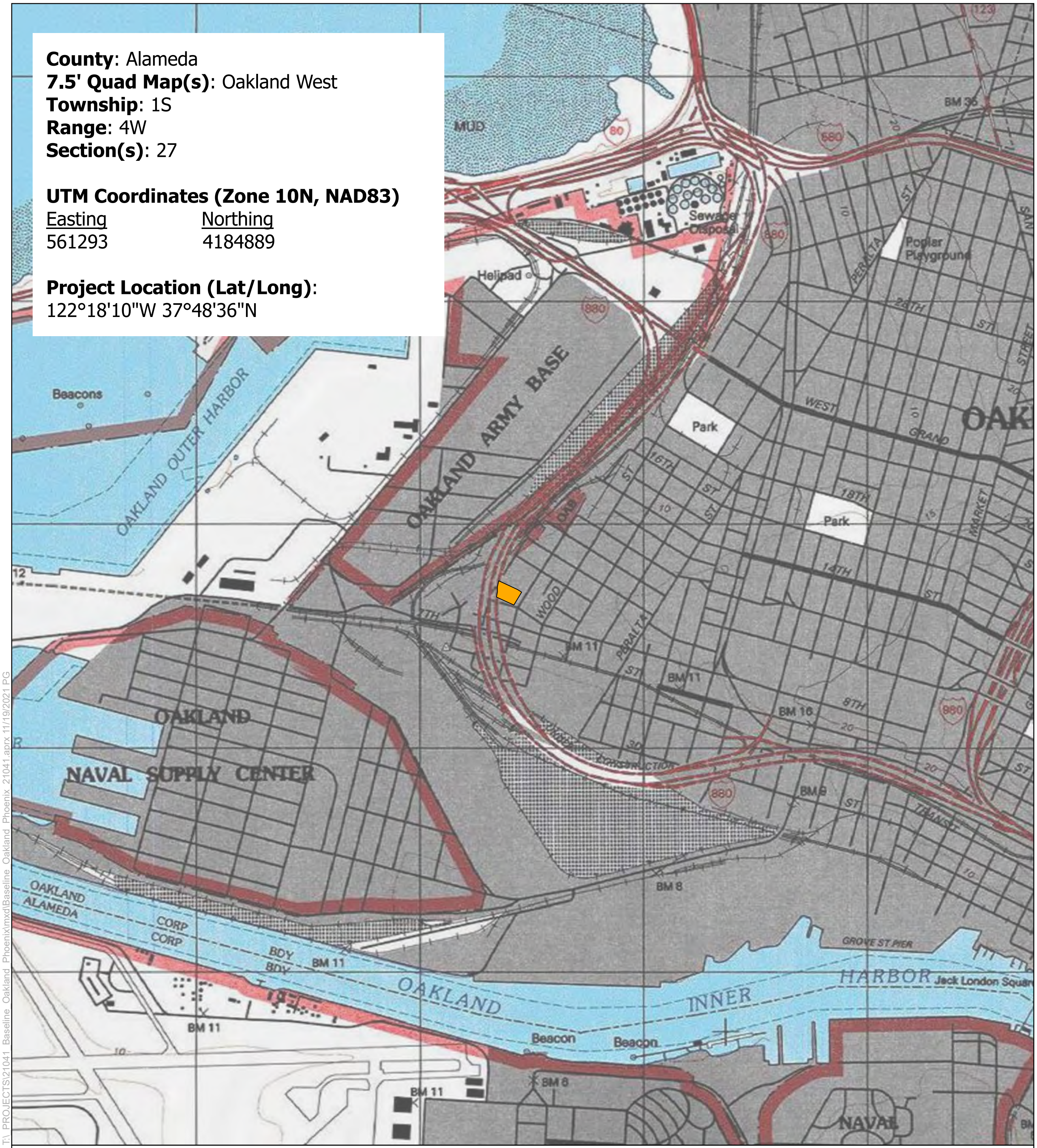

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Horizon
WATER and ENVIRONMENT

Phoenix Mixed-Use Affordable Housing Project

CITY OF OAKLAND

DALZIEL BUILDING • 250 FRANK H. OGAWA PLAZA • SUITE 3315 • OAKLAND, CALIFORNIA 94612

Planning and Building Department (510) 238-3941
Bureau of Planning FAX (510) 238-6538
TDD (510) 238-3254

January 27, 2022

Dee Dee Manzanares Ybarra, Chairperson
Rumsen Am:a Tur:ataj Ohlone
14671 Farmington Street
Hesperia, CA 92345

RE: Phoenix Affordable Housing Project

Dear Honorable Chairperson Ybarra:

The Oakland Housing Authority is considering funding the project listed above with federal funds from the U.S. Department of Housing and Urban Development (HUD). Under regulation 24 CFR 58.4, the City has assumed HUD's environmental review responsibilities for the project, including tribal consultation related to historic properties, on behalf of HUD. Historic properties include archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, traditional cultural places and landscapes, plant and animal communities, and buildings and structures with significant tribal association.

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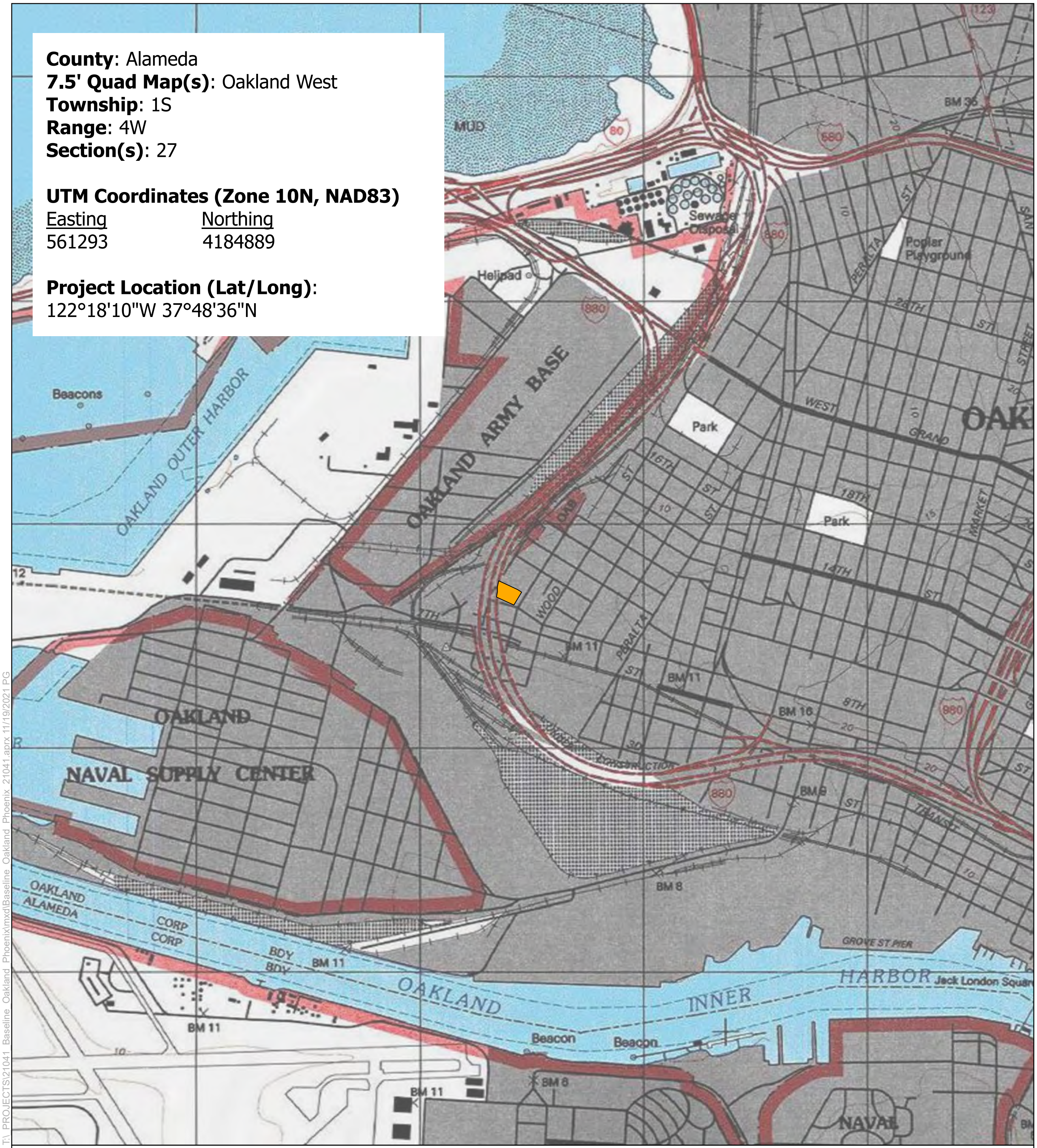

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Phoenix Mixed-Use Affordable Housing Project

CITY OF OAKLAND

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Bureau of Planning FAX (510) 238-6538
TDD (510) 238-3254

January 27, 2022

Irene Zwierlein, Chairperson
Amah Mutsun Tribal Band of Mission San Juan Bautista
3030 Soda Bay Road
Lakeport, CA 95453

RE: Phoenix Affordable Housing Project

Dear Honorable Chairperson Zwierlein:

The Oakland Housing Authority is considering funding the project listed above with federal funds from the U.S. Department of Housing and Urban Development (HUD). Under regulation 24 CFR 58.4, the City has assumed HUD's environmental review responsibilities for the project, including tribal consultation related to historic properties, on behalf of HUD. Historic properties include archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, traditional cultural places and landscapes, plant and animal communities, and buildings and structures with significant tribal association.

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A record search at the Northwest Information Center of the California Historical Resources Information System at Sonoma State University did not identify any known Native American cultural resources in or near the project location. A geoarchaeological analysis of the project site found the area to have a low sensitivity for buried cultural remains, as the area is underlain by dune sand and there are no fresh water sources within ¼ mile of the parcel.

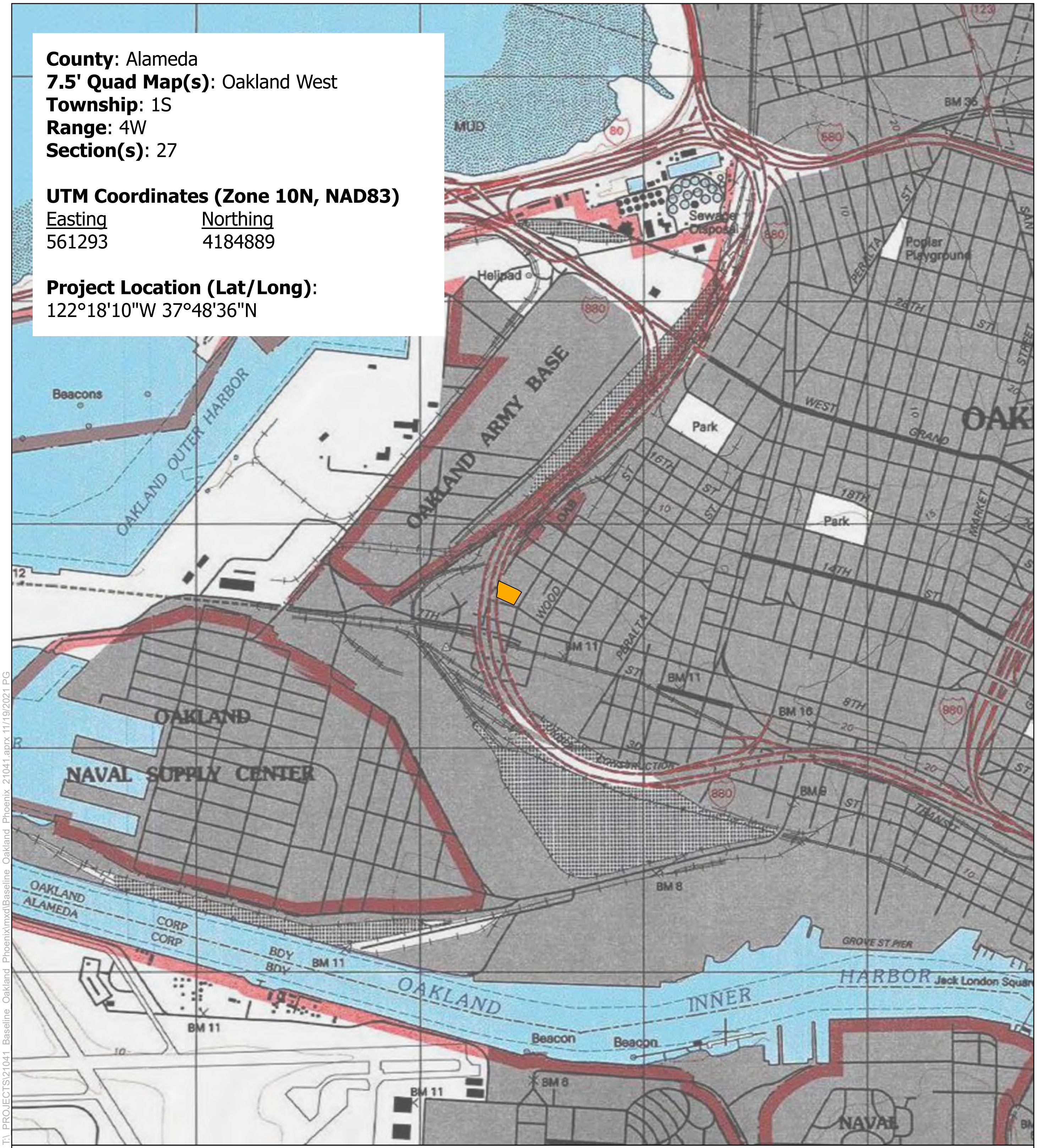
More information on the Section 106 review process is available at http://www.comcon.org/sites/default/files/historic_preservation/ . HUD's process for tribal consultation under Section 106 is described in a Notice available at http://portal.hud.gov/hudportal/HUD?src=/program_offices/comm_planning/environment/atec.

To meet project timeframes, if you would like to be a consulting party on this project, can you please let us know of your interest within 30 days? If you have any initial concerns with impacts of the project on religious or cultural properties, can you please note them in your response along with the name and contact information for the tribe's principal representative in the consultation? If you do not wish to consult on this project, can you please inform us?

Your comments and concerns are important to us, and we look forward to hearing from you. If you have any questions or comments regarding the project, I can be contacted via email at hklein@oaklandca.gov or by phone at (510)238-3659.

Sincerely,

Heather Klein
Planner IV
Enclosures: Figure 1 – Project Location



County: Alameda
7.5' Quad Map(s): Oakland West
Township: 1S
Range: 4W
Section(s): 27

UTM Coordinates (Zone 10N, NAD83)

Easting	Northing
561293	4184889

Project Location (Lat/Long):
122°18'10"W 37°48'36"N

T:\ PROJECTS\21041 Baseline Oakland Phoenix\mxd\Baseline Oakland Phoenix 21041.aprx 11/19/2021 PG

Notes: USGS 7.5" Oakland West Quad; T1S, R4W, Section 27; 1.72-Acre Project Area

Figure 1
Project Location

🟧 Project Area

N

0 0.25 0.5
Miles

Horizon WATER and ENVIRONMENT

Phoenix Mixed-Use Affordable Housing Project

From: Janis Offermann
To: "Corrina Gould"
Cc: "Klein, Heather"
Subject: RE: Phoenix Affordable Housing Project, Oakland, CA_project notification and request for information letter
Date: Monday, January 31, 2022 12:39:00 PM

Hello Chairperson Gould,
Thank you for your quick response to our email.

In answer to your questions, we submitted a request to the Native American Heritage Commission in mid-November 2021 and we have yet to receive a response from them, despite sending several follow-up emails to them and also giving them a call. So I am afraid I don't have information about the negative or positive findings of the Sacred Lands file search. However, a records search at the Northwest Information Center did not identify any Native American sites within ¼ mile of the project location.

A draft cultural resources assessment report is currently under preparation. With permission of the City of Oakland, we will be happy to provide you with a copy of the report when it is completed. Please let me know if you have any other questions.

Thank you
Janis

Janis Offermann
Cultural Resources Practice Leader
Horizon Water and Environment
1801 Seventh Street, Suite 100
Sacramento, CA 95811
530.220.4918 (cell)

From: Corrina Gould <cvltribe@gmail.com>
Sent: Monday, January 31, 2022 12:20 PM
To: Janis Offermann <janis@horizonh2o.com>
Subject: Re: Phoenix Affordable Housing Project, Oakland, CA_project notification and request for information letter

Hello,

Thank you for your email. Can you please send additional information regarding the site? Has there been a Sacred Lands File search at the Native American Heritage Commission with Negative or Positive findings? Once this information is available, we can move forward with possible consultation.

'Uni (Respectfully),

Corrina Gould, Tribal Chair
Confederated Villages of Lisjan Tribe

On Thu, Jan 27, 2022 at 4:02 PM Janis Offermann <janis@horizonh2o.com> wrote:

> Good afternoon,
> On behalf of the City of Oakland, attached please find a project notification and request for information letter for the Phoenix Affordable Housing Project in west Oakland, California. The project will receive federal funds from the U.S. Department of Housing and Urban Development; therefore, the City must comply with Section 106 of the National Historic Preservation Act.
>
> If you wish to consult on the project, or have any comments or questions, please do not hesitate to contact Heather Klein via email at hklein@oaklandca.gov or by phone at (510)238-3659. You will also be receiving a copy of this letter via U.S. Mail with a certified receipt.
>
> Thank you for your time.
>
> Janis Offermann
> Cultural Resources Practice Leader
> **Horizon Water and Environment**
> 1801 Seventh Street, Suite 100
> Sacramento, CA 95811
> 530.220.4918 (cell)

From: Quirina Geary
To: Janis Offermann
Cc: Corrina Gould; Andrew Galvan; Johnathan Costillas; Lillian Camarena; Monica Griffin
Subject: Re: Phoenix Affordable Housing Project, Oakland, CA_project notification and request for information letter
Date: Tuesday, February 01, 2022 9:43:33 AM

Good morning Janis,

Thank you for reaching out to Tamien Nation. This project is out of our area and we are deferring to Corrina Gould and Andrew Galvin (cc'd on this email).

If you have any questions, please let us know.

All the best,
Quirina Luna Geary
Chairwoman
Tamien Nation
www.tamien.org

.

On Thu, Jan 27, 2022 at 3:56 PM Janis Offermann <janis@horizonh2o.com> wrote:

> Good afternoon,
>
> On behalf of the City of Oakland, attached please find a project notification and request for information letter for the Phoenix Affordable Housing Project in west Oakland, California. The project will receive federal funds from the U.S. Department of Housing and Urban Development; therefore, the City must comply with Section 106 of the National Historic Preservation Act.
>
> If you wish to consult on the project, or have any comments or questions, please do not hesitate to contact Heather Klein via email at hklein@oaklandca.gov or by phone at (510)238-3659. You will also be receiving a copy of this letter via U.S. Mail with a certified receipt.
>
> Thank you for your time.
>
> Janis Offermann

Cultural Resources Practice Leader

Horizon Water and Environment

1801 Seventh Street, Suite 100

Sacramento, CA 95811

530.220.4918 (cell)

From: Janis Offermann
To: Corrina Gould
Cc: Klein, Heather
Subject: RE: Phoenix Affordable Housing Project, Oakland, CA_project notification and request for information letter
Date: Wednesday, February 16, 2022 11:58:28 AM

Hi, Chairwoman Gould
I am writing to inform you that the City finally received a response from the Native American Heritage Commission. The letter noted that the sacred lands file search was **positive**, but did not offer any addition information, as is common. The letter also recommended contacting the North Valley Yokuts Tribe and the Amah Mutsun Tribal Band of Mission San Juan Bautista, both of whom received the same letter sent to you. We have not yet heard back from either tribe, but will be following up shortly.

Please let me know if there is anything else I can do for you.
Thank you
Janis

Janis Offermann
Cultural Resources Practice Leader
Horizon Water and Environment
1801 Seventh Street, Suite 100
Sacramento, CA 95811
530.220.4918 (cell)

From: Janis Offermann <janis@horizonh2o.com>
Sent: Wednesday, February 09, 2022 5:26 PM
To: 'Corrina Gould' <cvltribe@gmail.com>
Cc: 'Klein, Heather' <HKlein@oaklandca.gov>
Subject: RE: Phoenix Affordable Housing Project, Oakland, CA_project notification and request for information letter

Hello again, Chairwoman Gould

Heather kindly reminded me that this is not an AB 52 action but a Section 106 undertaking. If the screen shot I sent does not provide enough information and you would like to visit the project site, please let me know and I will notify the federal lead agency (HUD).
Thank you and I apologize for the error.

Janis

Janis Offermann
Cultural Resources Practice Leader
Horizon Water and Environment
1801 Seventh Street, Suite 100

Sacramento, CA 95811
530.220.4918 (cell)

From: Janis Offermann <janis@horizonh2o.com>
Sent: Wednesday, February 09, 2022 3:59 PM
To: 'Corrina Gould' <cvltribe@gmail.com>
Cc: 'Klein, Heather' <HKlein@oaklandca.gov>
Subject: RE: Phoenix Affordable Housing Project, Oakland, CA_project notification and request for information letter

Hi, Chairwoman Gould
Thank you for sharing your concerns about the project. I have attached a snapshot from Google Earth that shows the location of the project (the yellow pin). You can see that Wood Street is the next street to the right of the project area.

I have copied Heather Klein, who is the AB 52 contact for the City of Oakland. If you would like to meet with the City at the project site, please coordinate with her.

Please let me know if there is any other information I can provide at this moment.
Best regards
Janis

Janis Offermann
Cultural Resources Practice Leader
Horizon Water and Environment
1801 Seventh Street, Suite 100
Sacramento, CA 95811
530.220.4918 (cell)

From: Corrina Gould <cvltribe@gmail.com>
Sent: Wednesday, February 09, 2022 3:02 PM
To: Janis Offermann <janis@horizonh2o.com>
Subject: Re: Phoenix Affordable Housing Project, Oakland, CA_project notification and request for information letter

Dear Janis,

Thank you for your email. The Tribes concern with this project is that it is planned to be in West Oakland in a historically old part of the City. On Wood Street the Tribe knows of buried cultural resources in the back yards of multiple homes. We will need to take a trip to identify how close it is to the current proposed project site.

'Uni (Respectfully),

Corrina Gould, Tribal Chair
Confederated Villages of Lisjan Tribe

On Mon, Jan 31, 2022 at 12:40 PM Janis Offermann <janis@horizonh2o.com> wrote:

> Hello Chairperson Gould,
> Thank you for your quick response to our email.
>
> In answer to your questions, we submitted a request to the Native American Heritage Commission in mid-November 2021 and we have yet to receive a response from them, despite sending several follow-up emails to them and also giving them a call. So I am afraid I don't have information about the negative or positive findings of the Sacred Lands file search. However, a records search at the Northwest Information Center did not identify any Native American sites within ¼ mile of the project location.
>
> A draft cultural resources assessment report is currently under preparation. With permission of the City of Oakland, we will be happy to provide you with a copy of the report when it is completed.
> Please let me know if you have any other questions.
>
> Thank you
> Janis
>
> Janis Offermann
> Cultural Resources Practice Leader
> **Horizon Water and Environment**
> 1801 Seventh Street, Suite 100
> Sacramento, CA 95811
> 530.220.4918 (cell)
>
> ---
>
> **From:** Corrina Gould <cvltribe@gmail.com>
> **Sent:** Monday, January 31, 2022 12:20 PM
> **To:** Janis Offermann <janis@horizonh2o.com>
> **Subject:** Re: Phoenix Affordable Housing Project, Oakland, CA_project notification and request for information letter
>
> Hello,

> Thank you for your email. Can you please send additional information regarding the site? Has there been a Sacred Lands File search at the Native American Heritage Commission with Negative or Positive findings? Once this information is available, we can move forward with possible consultation.
>
> **'Uni (Respectfully),**
>
> ***Corrina Gould, Tribal Chair***
> Confederated Villages of Lisjan Tribe
>
> On Thu, Jan 27, 2022 at 4:02 PM Janis Offermann <janis@horizonh2o.com> wrote:
>
> > Good afternoon,
> > On behalf of the City of Oakland, attached please find a project notification and request for information letter for the Phoenix Affordable Housing Project in west Oakland, California. The project will receive federal funds from the U.S. Department of Housing and Urban Development; therefore, the City must comply with Section 106 of the National Historic Preservation Act.
> >
> > If you wish to consult on the project, or have any comments or questions, please do not hesitate to contact Heather Klein via email at hklein@oaklandca.gov or by phone at (510)238-3659. You will also be receiving a copy of this letter via U.S. Mail with a certified receipt.
> >
> > Thank you for your time.
> >
> > Janis Offermann
> > Cultural Resources Practice Leader
> > **Horizon Water and Environment**
> > 1801 Seventh Street, Suite 100
> > Sacramento, CA 95811
> > 530.220.4918 (cell)

From: Janis Offermann
To: "KKLLC Admin"
Subject: RE: Phoenix Affordable Housing Project, Oakland, CA_project
Date: Wednesday, March 23, 2022 11:07:00 AM

Hello, Ms. Sayers-Rood

Thank you for your email. I apologize for the delayed response, but I was on vacation last week and I am still sorting through emails.

I appreciate your concerns and will forward your request to consult to the project proponent. Please note that this project is a Section 106 undertaking through HUD, and is not subject to the requirements of AB52/CEQA.

Thanks again. I am sure we will be in touch.

Janis

Janis Offermann, MA, RPA
Cultural Resources Practice Lead
Horizon Water and Environment
1800 7th Street, Suite 100
Sacramento, CA 95811
530.220.4918

From: KKLLC Admin <admin@kanyonkonsulting.com>
Sent: Thursday, March 17, 2022 10:53 AM
To: janis@horizonh2o.com
Subject: Phoenix Affordable Housing Project, Oakland, CA_project

miSmin Tuuhis [Good Day]

Kan rakat Kanyon Sayers-Roods. I am writing this on behalf of the Indian Canyon Band of Costanoan Ohlone People as requested, responding to your letter

As this project's Area of Potential Effect (APE) overlaps or is near the management boundary of a potentially eligible cultural site, I am interested in consulting and voicing our concerns. With some instances like this, usually we recommend that a Native American Monitor and an Archaeologist be present on-site at all times during any/all ground disturbing activities. The presence of a Native monitor and archaeologist will help the project minimize potential effects on the cultural site and mitigate inadvertent issues.

Kanyon Konsulting, LLC has numerous Native Monitors available for projects such as this, if applicable, we recommend a Cultural Sensitivity Training at the beginning of each project. This service is offered to aid those involved in the project to become more familiar with the indigenous history of the peoples of this land that is being worked on.

Kanyon Konsulting is a strong proponent of honoring truth in history, when it comes to impacting Cultural Resources and potential ancestral remains, we need to recognise the history of the territory we are impacting. We have seen that projects like these tend to come into an area to consult/mitigate and move on shortly after - barely acknowledging the Cultural Representatives of the territory they steward and are responsible for. Because of these possibilities, we highly recommend that you receive a specialized consultation provided by our company as the project commences, bringing in considerations about the Indigenous peoples and environment of this territory that you work, have settled upon and benefit from.

As previously stated, our goal is to Honor Truth in History. And as such we want to ensure that there is an effort from the project organizer to take strategic steps in ways that #HonorTruthinHistory. This will make all involved aware of the history of the Indigenous communities whom we acknowledge as the first stewards and land managers of these territories.
Potential Approaches to Indigenous Cultural Awareness/History:
⤜Signs or messages to the audience or community of the territory being developed. (ex. A commerable plaque, page on the website, mural, display, or an Educational/Cultural Center with information about the history/ecology/resources of the land)
⤜Commitment to consultation with the Native Peoples of the territory in regards to presenting and messaging about the Indigenous history/community of the land (Land Acknowledgement on website, written material about the space/org/building/business/etc, Cultural display of cultural resources/botanical knowledge or Culture sharing of Traditional Ecological Knowledge - Indigenous Science and Technology)
⤜Advocation of supporting indigenous lead movements and efforts. (informing one's audience and/or community about local present Indigenous community)

We look forward to working with you.
Tumsan-ak kannis [Thank You]
Kanyon Sayers-Roods
Consultant / Tribal Monitor [ICMBCO]
Kanyon Konsulting, LLC

Appendix C
CHRIS Northwest Information Center Results

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary# P-01-005962
HRI #
Trinomial
NRHP Status Code
Other Listings
Review Code **Reviewer** **Date**

Page 1 **of** 3 ***Resource Identifier**(Assigned by recorder): Oakland Point District

P1. **Other Identifier:** Oakland Point

***P2.** **Location:** ☐Not for Publication X Unrestricted ☐**a. County** Alameda
and (P2b and P2c or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** Oakland West, CA **Date** 1993 **T** N/A **; R** N/A **;** N/A **1/4 of** N/A **1/4 of** N/A **1/4 of Sec.** N/A **;** N/A **B.M.**
c. Address Cypress to Pine, 8th to 17th streets **City** Oakland **Zip** 94607
d. UTM: (Give more than one for large and/or linear resources)

Zone 10	562540 **mE/**	4185200 **mN**
Zone 10	562320 **mE/**	4184240 **mN**
Zone 10	562340 **mE/**	4184530 **mN**
Zone 10	561630 **mE/**	4185000 **mN**

e. Other Locational Data (e.g., parcel #, directions to resource, elevation, etc., as appropriate):

See individual Primary Record forms for assessor's parcel number.

***P3a.** **Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries):**

The Oakland Point residential district is an area of about 47 city blocks in West Oakland bounded on the south by the 7th Street commercial strip along the elevated BART tracks; on the east by the site of the Cypress Street portion of the Nimitz Freeway; and on the west and north by the industrial areas around the 16th Street railroad station and tracks. This district includes 845 properties, of which about 750 are wood-frame residential buildings erected before 1919. Boundaries for the district are drawn to exclude a freeway exit at 14th and Cypress streets, a four-block area containing a post-1940 church, school, and housing project south of 10th Street from Peralta to Willow, and several small new buildings, giving the district a sort of inverted Y shape on the map. This is by far the largest and most intact section of the historic Oakland Point neighborhood, and one of the largest and most intact Victorian-era neighborhoods in Oakland. (See continuation sheet, page 2)

***P3b.** **Resources Attributes: (list attributes and codes)** HP2-Single family property; HP3-Multiple family property; HP6-1 to 3 story commercial building

***P4.** **Resources Present:** X **Building** ☐ **Structure** ☐ **Object** ☐ **Site** X **District** **X Element of District** ☐ **Other (Isolates, etc.)**

5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)

***P5b. Description of Photo: (View, date, accession #)**
See individual property record forms.

***P6. Date Constructed/Age and Source:**
☐ **Prehistoric** **X Historic** ☐ **Both**
Construction dates range from 1866 to 1980s, with the bulk of the buildings built between the 1870s and the 1890s.

***P7. Owner and Address:**
See individual property record forms.

***P8. Recorded by (Name, affiliation, and address):**
Monte Kim
Science Applications International Corp.
525 Anacapa Street
Santa Barbara, CA 93101

***P9. Date Recorded:** 03/18/03

***P10. Type of Survey: Describe:**
Reconnaissance & Update: Update of the initial intensive survey prepared for the Oakland Cultural Heritage Survey.

***P11. Report Citation (Cite survey report and other sources, or enter "none."):**
Historical Resources Evaluation Report for the BART Retrofit Project, Berkeley Hills Tunnel to Montgomery Street Station, Alameda and S.F. County, CA, 2004, prepared by BART for Caltrans District 4 Branch Chief with assistance from Science Applications International Corp.

Oakland City Planning Dept., Oakland Cultural Heritage Survey: properties in the APE were researched and documented in the West Oakland Survey, 1987-92; I-880 HASR, 1990-91; Unreinforced Masonry Building Survey, 1991-94.

Federal Highway Administration. 1991. Finding of Effect for the Proposed Route I-880 Replacement Project from the I-980 Interchange to the I-80/I-580/I-880 Distribution Structure in the Cities of Oakland and Emeryville, Alameda County.

***Attachments:** ☐ **NONE** X Location **Map** X Sketch **Map** X **Continuation Sheet** ☐ **Building, Structure, and Object Record**
☐ **Archaeological Record** X **District Record** ☐ **Linear Resource Record** ☐ **Milling Station Record** ☐ **Rock Art Record**
☐ **Artifact Record** ☐ **Photograph Record** ☐ **Other (List):**

AUG - 3 2006

S-27480

c

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary# P-01-005962
HRI # ____________

CONTINUATION SHEET

Trinomial ____________

Page 2 **of** 3 ***Resource Name or #** (Assigned by recorder) Oakland Point District

***Recorded by** Monte Kim, SAIC, 525 Anacapa St., Santa Barbara, CA ***Date** 02/28/03 X☐ Continuation X☐ Update

The extant historic buildings in the district are mostly small to medium in size, 1 or 2 stories, although many now function as 2-story flats with a basement unit. The majority of the structures date from the 1870s and 1880s. Accordingly, the predominant styles in the district are Italianate and Queen Anne, intermingled with some Colonials, Craftsman, and vernacular architectural styles.

Typical remodelings in the district are maintenance-related such as incorporation of: aluminum windows; asbestos removal; aluminum vinyl; stucco or asphalt siding; security doors and grilles; and replaced porches and railings. Many of the houses, especially the cottages, have had the basements expanded into garages, second units, or other usable space. Complete restyling of houses are not common, but have occurred. Commercial buildings in the district have undergone heavier remodeling than the houses, as well as being newer as a group.

The integrity of the district is somewhat eroded by deterioration and neglect of buildings—a few have stood in states of partial demolition or suspended work since at least 1986, and several reasonably unaltered buildings have long been vacant and boarded up. On the other hand, there have been some excellent restorations.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

DISTRICT RECORD

Primary # P-01-005962
HRI #
Trinomial

age 3 **of** 3

***NRHP Status Code: 3S**
***Resource Identifier** (Assigned by recorder): Oakland Point District

D1. Historic Name: Oakland Point
D2. Common Name: Oakland Point District
*D3. Detailed Description: **(Discuss overall coherence of the district, its setting, visual characteristics, and minor features. List all elements of district):**

This district includes 845 properties, of which about 750 are wood-frame residential buildings erected before 1919.

*D4. Boundary Description: (Describe limits of district and attach map showing boundary and district elements):

The Oakland Point residential district is an area of about 47 city blocks in West Oakland bounded on the south by the 7th Street commercial strip along the elevated BART tracks, on the east by the site of the Cypress Street portion of the Nimitz Freeway, and on the west and north by the industrial areas around the 16th Street railroad station and tracks.

***D5. Boundary Justification:**

Boundaries for the district are drawn to exclude a freeway exit at 14th and Cypress streets, a four block area containing a post-1940 church, school, and housing project south of 10th Street from Peralta to Willow, and several small new buildings, giving the district an inverted Y shape on the map. This is by far the largest and most intact section of the historic Oakland Point neighborhood, and one of the largest and most intact Victorian-era neighborhoods in Oakland.

*D6. Significance: Theme Residential, Commercial, & Ethnic Development of Oakland Neighborhoods Area West Oakland
Period of Significance 1866-1910 Applicable Criteria A & C
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity of the district as a whole.)

Oakland Point is a residential district comprised of 845 properties, of which 616 contribute to the district. It is one of Oakland's largest and most intact Victorian neighborhoods and for its distinctive architecture and its period of significance is 1866 to 1910. The district covers about 47 city blocks of flat land laid out in nineteenth-century grid arrangement, traversed by several diagonal streets. Houses are primarily single family, wood-frame one or two stores, onstructed in the Italianate, Stick, Queen Anne and Colonial Revival styles. Although a few elaborate houses exist, the importance of the district is as a vast, oherent neighborhood of working peoples' houses. Also included in the district are one church and a number of small neighborhood stores. Notable features of the district are the groups of matching and near-matching houses, erected by well-known early developers who were also neighborhood residents.

Important themes associated with the neighborhood include its settlement, its association with the railroads, which prompted the area's growth, and its ethnic heritage. Located about two miles west of the earliest settlements in Oakland, "the Point" was the nearest land to San Francisco for Passenger ferries and freight, and had its beginnings as a commuter suburb in the early 1860s. The Central (later the Southern) Pacific Railroad arrived in Oakland in 1869, establishing the western terminus of the transcontinental railroad at the Point. Oakland Point was then transformed into a populous town, almost a "company town," in that a high percentage of its residents were employed by the railroad or related industries. The Point is remembered as melting pot of many nationalities and ethnic groups, which changed over the years, beginning with primarily Yankee and Northern Europeans, then Italian and Slavic, Asian, and African-Americans. Afro-Americans have a long history in the neighborhood, attracted by employment as porters on the railroad, and became a large majority in the area since World War II.

The SHPO determined the Oakland Point Historic District eligible for listing in the National Register of Historic Places under Criteria A and C on October 5, 1990 during evaluation of the proposed Route I-880 Replacement Project from the I-980 Interchange to the I-80/I-580/I-880 Distribution Structure in the cities of Oakland and Emeryville, Alameda County (FHWA 1991). Its architectural significance stems from a large and remarkably intact 19th-century residential neighborhood containing distinguished individual buildings and groups by important local developers, as well as a solid background of typical working people's houses of the 1880s through the early 1900s. Its historical significance is rooted in the district's importance as one of the earliest residential, commercial, and ethnic neighborhoods in Oakland., making it historically significant at the local level.

***D7. References** (Give full citations including the names and addresses of any informants, where possible):

Federal Highway Administration. 1991. Finding of Effect for the Proposed Route I-880 Replacement Project from the I-980 Interchange to the I-80/I-580/I-880 Distribution Structure in the Cities of Oakland and Emeryville, Alameda County.

Oakland City Planning Dept., Oakland Cultural Heritage Survey: properties in the APE were researched and documented in the West Oakland Survey, 987-92; I-880 HASR, 1990-91; Unreinforced Masonry Building Survey, 1991-94.

***D8. Evaluator:** Monte Kim **Date:** 03/18/03
Affiliation and Address: Science Applications International Corporation
525 Anacapa Street
Santa Barbara, CA 93101

4623-0284-9999

Serial Number: NONE
UTM: A 10/562540/4185200 B:10/562320/4184240
C:10/562340/4184530 D:10/561630/4185000

HISTORIC RESOURCES INVENTORY

( ) LISTED ( ) DETERMINED ELIGIBLE
(X) APPEARS ELIGIBLE ( ) APPEARS INELIGIBLE

Prop 71124

ENTIFICATION

1. Common name: Oakland Point District; also Prescott Neighborhood
2. Historic name: Oakland Point (portion)
3. Street address: Cypress to Pine, 8th to 17th Streets
Oakland, CA 94607
County: Alameda

FHWA 900927X

4623-252-9999

4. Parcel Number: various, see continuation pages
5. Present Owner: various, see continuation pages

Ownership: private

6. Present use: Domestic; Commerce
Original use: Domestic; Commerce

DESCRIPTION

7a. Architectural Style: Italianate, Stick, Queen Anne

7b. Briefly describe the present physical appearance and any major alterations:

The Oakland Point residential district is an area of about 47 city blocks in West Oakland bounded on the south by the 7th Street commercial strip along the elevated BART tracks, on the east by the site of the Cypress Street portion of the Nimitz Freeway, and on the west and north by the industrial areas around the 16th Street railroad station and tracks. This district includes 845 properties (848 before the earthquake) of which about 750 are wood-frame residential buildings erected before 1910. Boundaries for the National Register eligible district are drawn to exclude a freeway exit at 14th and Cypress Streets, a 4-block area containing a post-1940 church, school, and housing project south of 10th Street from Peralta to Willow, and several small new buildings, giving the district a sort of inverted Y shape on the map. This is by far the largest and most intact section of the historic Oakland Point neighborhood, and one of the largest and most intact Victorian neighborhoods in Oakland. Other portions of the "Point," now isolated from the main district by intrusions or demolitions, have been recorded on State Historic Resources Inventory forms by the Oakland Cultural Heritage Survey (1988) as locally important districts (Areas of

(see continuation page 3)

8. Construction Date: 1866-1980s, predominantly 1870s-90s
9. Architect: various, mostly unknown
10. Builder: most unknown; Ziegenbein, John, c.100 bldgs.
11. Approx. property size (in feet)
Frontage: Depth:
or approx. acreage: 90
parts of 47 city blocks
12. Photo number: 482-1
Photo date: 09/02/87
719 to 839 Chester St.

Subs

b

Serial Number: NONE

13. Condition: good to fair

14. Alterations: various, see 7b

15. Surroundings: densely built up, residential, industrial, commercial

16. Threats: public works project

17. Is the structure: On its original site? (X) Unknown? ( ) Moved? (45 bldgs.)

18. Related features: adjoining districts: see 7b

SIGNIFICANCE

19. Briefly state historical and/or architectural importance (include dates, events, and persons associated with the site):

The Oakland Point district appears eligible for the National Register under Criterion C, Architecture, and Criterion A, Patterns of History. As architecture, its most visible area of significance, it is a large and remarkably intact 19th century residential neighborhood, containing distinguished individual buildings and groups by important local developers as well as a solid background of typical working people's houses of the 1860s through 1900s. It is historically significant in the areas of Exploration/ Settlement as one of Oakland's oldest neighborhoods and one which sheds light on early development and housebuilding practices; Transportation, for its close association with the railroads which prompted the neighborhood's growth and employed many of its residents; and Ethnic Heritage: European and Black, as a neighborhood whose predominant character changed over the years from Irish, to Italian and Slavic, to Black, which was both a renowned melting pot and a cradle of ethnic self-help movements and institutions. Its significance is local, and its period of significance as an architectural district is from 1866--the earliest extant building in the district--to about 1910, when the

(see continuation page 25)

20. Main themes of the historic resource:
Architecture, Economic/Industrial

21. Sources:
City & county tax rolls & block books, 1869-1960; Sanborn maps, 1889-1901, 1902-11, 1912-51, 1970s; city directories & telephone books; U.S. census; building & alteration permits; biographical & subject indexes, Oakland History Room SEE CONTINUATION PAGE 55

22. Date form prepared: 08/23/90
By: Staff and Consultants
Org: Oakland Cultural Heritage Survey
One City Hall Plaza
Oakland, CA 94612
Phone: (415) 273-3941

Locational Sketch Map:
See attached maps, and Map C, Sheets 8 and 9 of 17.

7b. Physical Description (continued)

Secondary Importance, not National Register eligible): the South Prescott Neighborhood (between 7th and 3rd Streets, near the S.P. yards), the Oakland Point ASI (beyond the western tip of this district), the 7th Street commercial district (Henry to Wood Streets), and the 16th Street S.P. Station commercial district. There are also small residential clusters near the district on the 1700 block of 14th Street (Wood to Willow) and 1600 blocks of 16th Street (Willow to Campbell).

The extant historic buildings in the district are mostly small to medium in size, 1 or 2 stories: 400-plus can be described as cottages, although many now function as 2-story flats with a basement unit. The majority date from the 1870s (287, pre-earthquake 290) and 1880s (274), with 18 pre-1870, 85 1890s, and 78 1900s. Accordingly the predominant styles in the district are Italianate (330, 333 pre-earthquake), Stick (162), and Queen Anne (222), intermingled with about 85 Colonials (houses, flats, and cottages - some as late as the 1940s), 8 shingle, 11 Craftsman, and about 70 19th century vernacular (minimally Greek Revival/Italianate) and 4 slightly Gothic. Many of the visibly oldest 1-1/2 story steep-gabled vernacular houses are located in the southwest part of the district nearest the historic waterfront and tracks (Wood, Pine, 10th, 9th, Shorey Streets).

Only 22 of the district's pre-1910 buildings originated as other than houses: one church (835 Chester), the carbarn (1450 14th), a small 1906 warehouse (829 Wood), and the rest small neighborhood stores, mostly groceries or meat markets with flats above, all natural adjuncts of a residential neighborhood. About 20 of the 19th century residential buildings and 20 from 1900-1910 appear to have originated as multiple dwellings - mostly flats, and half a dozen unusual side-by-side duplexes from the 1870s and 1880s. Commercial buildings are found mainly along 8th, 14th, and Peralta Streets, which were local transit routes and are today the main traffic streets.

Lots in the district are generally small to medium - 25 to 50' wide, 100 to 125' deep. Some of the larger lots cluster along Peralta and Center in the southeast part of the district, and predominantly smaller ones along Wood, Willow, and Pine to the west, but without a marked distinction between richer and poorer sub-neighborhoods. Perhaps a dozen houses in the district are conspicuously large, and on large lots; as homes of early large landowners, they are scattered through the district, where their first residents often owned whole blocks. They include the Chase house at 801 Wood, Borgeson house at 905 Willow, Bagge house at 1321 Peralta, and Samm-Dalton house at 1454 8th. Incidentally, the preferred location for these big houses seems to have been the southeast corner of the block.

The land at the Point is flat and close to sea level, and streets are laid out in grids. However, two different grids meet along Peralta and 8th Streets, producing a number of triangular, trapezoidal, and very long blocks. Some of

7b. Physical Description (continued)

the most distinctive views in the district are along these diagonal streets - the east side of Peralta north of 12th, where the facades are staggered and well displayed; 12th and Peralta where a group of 11 matching Stick cottages wraps around the acute-angled corner; the long block of Peralta from 9th to 12th, containing St. Patrick's convent, the Ziegenbein house, and a group of other mostly large houses on large lots; the high-1700 block of 8th (Shorey) Street, with a number of very old houses, protected from traffic by the zig-zag course of the street.

Notable features of the district are its groups of matching and near-matching houses. The 11 Stick cottages at 12th and Peralta are an outstanding example. Two-story Italianates with hip roof, 2-story bay, portico, and often a porthole occur in groups, particularly around 8th, 9th, 12th, and Peralta, near the home of their developer John Ziegenbein (1004 Peralta), and form a recurring theme through the district even where they occur singly. A particularly striking Ziegenbein group occupies the long block from 938 to 1102 Chester, hip-roofed Italianate cottages alternating 2 designs, side bay and full-width porch. The large west-district block intersected by McElroy Street (between Pine, Wood, 9th, and 8th) is a whole tract of early-1880s Stick-style workers' cottages, a nearly intact group of 9 similar along Pine developed by G. Holland in 1881-82, and most of the rest - surviving more fragmentarily - by Ziegenbein between 1881 and 1885.

Probably a third of the houses in the district are parts of groups or at least have neighboring twins or semi-twins: false-front Italianate cottages at 839 and 835 Wood, 1872-73; vernacular cottages at 710 and 714 Henry, 1877-78; Stick houses at 1531 and 1537 9th, 1879-80, and many more. This pattern also applies to some of the later houses in the district: two clusters of similar Craftsman houses developed by Myron Wurts in 1912 (830 and 834 Peralta, 1230, 1234, and 1240 Willow), and a group of high-gabled shingle-style houses around 9th and Peralta designed in 1899 by A.W. Smith (912 and 1031 Peralta, 1532 9th 1522 9th). These recurring designs give the district additional coherence beyond its remarkable unity of period, styles, and building types.

Of the 845 properties in the district, 616 (73%) are considered to contribute by virtue of age (pre-1912), style, and integrity. Of these, only about 14 are large, elaborate, and prominently located enough to be considered anchor buildings; the importance of this district is as a vast, continuous neighborhood of everyday 19th century homes. The Western Market/Liberty Hall at 1485 8th Street and St. Patrick's Convent at 920 Peralta Street are the only properties in the district currently considered individually eligible for the National Register. About 2 dozen properties might become eligible if restored, individually or as parts of building groups. The Consolidated Piedmont Cable/Oakland Traction Company carbarn, the Chester Street Methodist Episcopal Church, and the Walsh and O'Brien Grocery are recognizable neighborhood commercial and institutional landmarks, now heavily altered.

HISTORIC RESOURCES INVENTORY CONTINUATION PAGE

Address: Oakland Point District Serial Number: NONE

7b. Physical Description (continued)

Other potentially eligible properties are the homes of significant individuals or works of noted architects or developers: except for the Ziegenbein and Shorey houses (1004 Peralta and 1782 8th Street), these would become fairly minor National Register candidates if restored. In addition, a few clusters of houses might be eligible as visually and historically related groups or sub-districts - the corner of 12th and Peralta, some of the Ziegenbein houses.

Of the 229 noncontributing buildings, about 40 per cent are too new to contribute, and about 60 per cent are older buildings which have been heavily altered. The new buildings include a few Prairie and Mediterranean cottages (15 total, some apparently remodelings of older houses), about 20 mid and late 20th century houses (including about 8 which appear to be factory-built), 5 small postwar apartment buildings, and a steady succession of commercial buildings and storefront additions, gas stations, and churches (one formerly a 1910s movie theater: 1488 14th Street) from every decade up to the present. Of the remodeled buildings, most are still recognizable for what they were, and are classified as compatible noncontributors in their present state, and as contingency contributors (National Register 4Db) which would contribute to the district if restored. An important aspect of this district is that most of the noncontributing buildings are small in scale, and do not overpower the historic setting. Some of the most recent, the small multi-gabled townhouses at 1710 8th and 1736 Chase, like the 1930s and 40s Colonial cottages at 1422 and 1408 16th Street, are classified as "compatible noncontributors" for their size, shapes, and materials consistent with those of the historic buildings.

Within the district boundaries, there are very few vacant lots and not many serious intrusions. The south and east boundaries are recent impositions - the strip cleared along Cypress Street for the Nimitz Freeway in the 1950s, the virtual clearance of 7th Street for BART and the main post office around 1970, redevelopment of residential blocks as Campbell Village in 1939-41, and replacement of St. Patrick's Church and Prescott School, the institutional hearts of the neighborhood, with new buildings in the postwar era. The west and north boundaries, however, are still the historic edges where housing shaded off into industrial and railroad uses on the waterfront and filled marshes. Along Pine and Wood Streets large early 20th century factory and warehouse buildings face blocks of 19th century cottages, and other blocks have small metal or concrete industrial buildings or yards interspersed with the houses. Some of the small industrial buildings are early - the Kohler-Chase warehouse, a 2-story generic woodframe building at 829 Wood, and the Oakland Cream Depot, adjoining the district at 14th and Willow, both built in 1906-07. The Baird Brush factory, 1769 Chase St., dates from 1931, and several 1920s and 1930s garages and service stations are scattered through the district, mostly at prominent intersections (1451 13th St., 1926; 1600 Peralta, 1928; 1700 Center, 1930; 800 Center, 1931; 1532 Peralta, 1940). A layer of more recent automotive, industrial, and commercial buildings (c.1954-65) is found along Cypress Street where freeway construction reshaped

7b. Physical Description (continued)

some blocks. Two large open areas opposite each other at 13th and Wood Streets at the district's north end are the products of recent clearing - a 3/4-block parking lot behind the 1947-55 Mount Zion Missionary Baptist Church, and a half-block city park on the site of the home of 1880s capitalist Ferdinand Koenig.

Typical remodelings in the district are maintenance-related: aluminum windows, asbestos, aluminum, vinyl, stucco, or asphalt siding, security doors and grilles, replaced porches and railings. Many of the houses, especially the cottages, have the basements expanded into garages, second units, or other usable space. Complete restylings of houses are not common, but have occurred: examples of houses considered so altered that their original age is not apparent and they are in effect, visually, late 20th century buildings are 1661 11th Street, 1425 Peralta, 822 Henry, and 1128 Chester. 1405 Campbell, 1411 Peralta, 1620 13th, and 1650 12th Street are houses which were remodeled into apartments during World War II and restyled into something resembling '40s ranch houses in the process. At least 7 of the district's 1920s-30s Mediterranean houses appear to be remodelings of earlier buildings rather then all new construction: 1012 Chester, 1438 15th, 1620 15th, 1630 13th, 1410 14th, 1716 9th, 1414 Campbell Street. From the beginning, houses in the district were enlarged and updated, often by adding a new front - tiny vernacular cottages incorporated into Italianates and Sticks a decade after original construction (e.g. 1416 12th, 1752 9th, 1427 15th), Italianates and Sticks updated as Queen Annes (920, 1014, and 1020 Wood, 1469 13th, 1434 9th, and 1454 8th), 19th century houses turned into Colonial Revival flats (1768 8th, 1726 10th, 1616 15th). About 35 houses are described in the survey with dual dates such as "1889 inc. (incorporates) 1876," the first the visually apparent date (style of the facade, largest part of the house, etc.), the second an identifiable incorporated but more or less hidden component. The most spectacular example of these is 1454 8th, the large Samm-Dalton house, an elaborate Queen Anne whose Italianate past is still recognizable. This house also has a 1940s storefront addition, another common pattern in the district. (Among others, 1669 12th, 1422 and 1673 15th, 1223 Peralta; earlier storefront additions 712 and 904 Peralta.)

Commercial buildings in the district have undergone heavier remodeling than the houses, as well as being newer as a group. The 1914-15 Peralta Theater at 1488 14th Street is completely resurfaced in stuccostone as a church and social hall. There are other storefronts converted to churches with less alteration - 810 Chester, 1451 16th. Other stores are more or less modernized while continuing in commercial use, with new sash, doors, security measures, etc., and some of the early ground-floor stores in mixed-use 19th century buildings are now occupied as residences.

The district contains at least 45 moved buildings, with moving dates from 1884 to the present. Original dates, locations, and owners of about 20 are known,

7b. Physical Description (continued)

and these came mostly from within the district. An exception is the oldest known house in the district - the 1858 William Watts house, now at 1436 Peralta, moved in 1898 from the Watts Tract in northwest Oakland and remodeled as a Queen Anne. Since the district's significance is as a group of fairly generic 19th century houses, moving alone is not considered to keep a compatible building from contributing, though many of the houses moved in this century have also been remodeled in the process.

The integrity of the district is also somewhat eroded by deterioration and neglect of buildings - a few have stood in states of partial demolition or suspended work since at least 1986 (Citywide Preliminary Survey), and several reasonably unaltered buildings have long been vacant and boarded up. On the other hand, there have been some excellent recent restorations, notably Liberty Hall (1485 8th) and 718 Henry Street.

Photo number: 493-2
Photo date: 09/04/87

717 to 729 Willow,
1709 and 1711 Goss

Photo number: 502-35
Photo date: 09-24-87

East side Center St.,
looking south from 932

BUILDINGS LOCATED WITHIN THE BOUNDARIES OF THE DISTRICT

RESOURCE NUMBER	IN APE	ADDRESS	CONSTRUCTION DATE(S)	CONTRIBUTOR STATUS
-	No	1003 CAMPBELL ST/1656 10TH ST	1880-90 moved 1911	C
-	No	1015 CAMPBELL ST	1947 inc 1901?	NC
-	No	1019 CAMPBELL ST	1905-06	C
-	No	1021 CAMPBELL ST	1900-01 alt	NC
-	No	1027 CAMPBELL ST	1890s moved 1920s	C
-	No	1101 CAMPBELL ST/NW COR 11TH ST	1899 rem 1914	C
-	No	1102 CAMPBELL ST/NE COR 11TH ST	1888-89	C
-	No	1104 CAMPBELL ST	1895-96	C
-	No	1107 CAMPBELL ST	circa 1870 alt	NC
-	No	1110 CAMPBELL ST	1905-06	C
-	No	1111 CAMPBELL ST	1874	C
-	No	1115 CAMPBELL ST	1900-01	C
-	No	1118 CAMPBELL ST	1905-06	C
-	No	1120 CAMPBELL ST	1889-90	C
-	No	1121 CAMPBELL ST	1880s moved 1946	NC
-	No	1124 CAMPBELL ST	1891-92 alt	NC
-	No	1125 CAMPBELL ST	1870s moved 1946	C
-	No	1128 CAMPBELL ST	1889-90	C
-	No	1132 CAMPBELL ST	1886-87	C
-	No	1134 CAMPBELL ST/SE COR 12TH ST	1886-87	C
-	No	1211 CAMPBELL ST	1957	NC
-	No	1218 CAMPBELL ST	1887-88	C
-	No	1219 CAMPBELL ST	1890-91	C
-	No	1222 CAMPBELL ST	1887-88	C
-	No	1226 CAMPBELL ST	1887-88	C
-	No	1230 CAMPBELL ST	1887-88	C
-	No	1233 CAMPBELL ST	1876-77 alt	NC
-	No	1234 CAMPBELL ST	1887-88	C
-	No	1237 CAMPBELL ST/SW COR 13TH	1891	C
-	No	1238 CAMPBELL ST/1643 13TH ST	1888-89	C
-	No	1302 CAMPBELL ST/1636 13TH ST	1891-92	C
-	No	1305 CAMPBELL ST/1650 13TH ST	1876-77	C
-	No	1308 CAMPBELL ST	1888-89	C
-	No	1309 CAMPBELL ST	1915-16 alt	NC
-	No	1312 CAMPBELL ST	1888-89	C
-	No	1315 CAMPBELL ST	1877-78	C
-	No	1316 CAMPBELL ST	1888-89	C
-	No	1320 CAMPBELL ST	1888-89	C
-	No	1324 CAMPBELL ST	1888-89	C
-	No	1328 CAMPBELL ST	1908	C
-	No	1334 CAMPBELL ST/1647 14TH ST	1909	C
-	No	1405 CAMPBELL ST	1870s moved 1943	NC
-	No	1414 CAMPBELL ST	1934 inc 1890-05	NC
-	No	1418 CAMPBELL ST	1884-85	C
-	No	1420 CAMPBELL ST	1884-85	C
-	No	1421 CAMPBELL ST/FRONT & REAR	1904 out 1919	C
-	No	1424 CAMPBELL ST	1888-89	C
-	No	1427 CAMPBELL ST/1651 15TH+1661	1926-27 add 1964-66	NC
-	No	1428 CAMPBELL ST/SE COR 15TH	1888-89	C
-	No	1502 CAMPBELL ST/1648 15TH ST	1892-93	C
-	No	800 CENTER ST/NE COR 8TH ST	1931	NC
-	No	819 CENTER ST	1877-78	C
-	No	823 CENTER ST	1877-78	C

Individual Historic Resources Inventory forms are included for all resources that have that have been assigned a resource number.

BUILDINGS LOCATED WITHIN THE BOUNDARIES OF THE DISTRICT

RESOURCE NUMBER	IN APE	ADDRESS	CONSTRUCTION DATE(S)	CONTRIBUTOR STATUS
-	No	825 CENTER ST/FRONT	1877-78	C
-	No	826 CENTER ST	1876-77	C
-	No	830 CENTER ST	1877-78	C
-	No	831 CENTER ST/SW COR 9TH ST	1877-78	C
-	No	832 CENTER ST/SE COR 9TH ST	1885-86 rem c. 1919	NC
-	No	902 CENTER ST/1438-40 9TH ST	1888-89	C
-	No	906 CENTER ST	1888-89	C
-	No	908 CENTER ST	1877-78	C
-	No	912 CENTER ST	1880-81	C
-	No	916 CENTER ST	1884-85	C
-	No	919 CENTER ST	1898-99	C
-	No	922 CENTER ST	1877-78 out 1906	C
-	No	926 CENTER ST	1877-78	C
-	No	932 CENTER ST	1877-78	C
-	No	935 CENTER ST	1876	C
-	No	936 CENTER ST	1877-78	C
-	No	940 CENTER ST/SE COR 10TH ST	1970s	NC
-	No	941 CENTER ST	1875-76 add 1946	C
-	No	947 CENTER ST	1875-76	C
-	No	963 CENTER ST	1906-07 moved 1947	C
-	No	1011 CENTER ST	1887-88	C
-	No	1012 CENTER ST/SE COR 11TH ST	1887 moved ?	C
-	No	1015 CENTER ST	1887-88	C
-	No	1019 CENTER ST	1887-88	C
-	No	1025 CENTER ST	1887-88	C
-	No	1103 CENTER ST	1887-88	C
-	No	1107 CENTER ST	1887-88	C
-	No	1111 CENTER ST	1887-88	C
-	No	1115 CENTER ST	1887	C
-	No	1119 CENTER ST	1892-93	C
-	No	1120 CENTER ST	1880-81	C
-	No	1124 CENTER ST	1907	C
-	No	1125 CENTER ST	1892-93	C
-	No	1130 CENTER ST/1447 12TH ST	1904	C
-	No	1131 CENTER ST	1892-93	C
-	No	1135 CENTER ST	1894-95	C
-	No	1301 CENTER ST/NW COR 13TH ST	1870s moved 1925-35	C
-	No	1305 CENTER ST	1986	NC
-	No	1309 CENTER ST	1882-83	~~C~~ NC
-	No	1311 CENTER ST	1882-83	C
-	No	1317 CENTER ST	1876-77 moved 1885	C
-	No	1321 CENTER ST	1881-82 moved ?	C
-	No	1411 CENTER ST	1909-10	C
-	No	1420 CENTER ST	1891-92	C
-	No	1424 CENTER ST	1888-89 inc 1884?	C
-	No	1425 CENTER ST	1936	NC
-	No	1428 CENTER ST/15TH ST FRONTGE	1945-46	NC
-	No	1431 CENTER ST	1941-42	NC
-	No	1503 CENTER ST	1900	C
-	No	1506 CENTER ST/NE COR 15TH ST	1954	NC
-	No	1510 CENTER ST	1877-78	C
-	No	1511 CENTER ST	1884-85	C
-	No	1515 CENTER ST	1884-85	C

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BUILDINGS LOCATED WITHIN THE BOUNDARIES OF THE DISTRICT

RESOURCE NUMBER	IN APE	ADDRESS	CONSTRUCTION DATE(S)	CONTRIBUTOR STATUS
-	No	1519 CENTER ST	1877-78	C
-	No	1520 CENTER ST	1888-89	C
-	No	1524 CENTER ST	1984	NC
-	No	1526 CENTER ST	1984	NC
-	No	1532 CENTER ST/SE COR 16TH ST	1893-94 rem 1989	NC
-	No	1603 CENTER ST/NW COR 16TH ST	1878-79	C
-	No	1615 CENTER ST/1616-24 PERALTA	1884-85	C
-	No	1622 CENTER ST	1888-89	C
-	No	1630 CENTER ST/SE COR 17TH ST	1907-08	C
-	No	1700 CENTER ST/NE COR 17TH ST	1930	NC
-	No	1704 CENTER ST	1878-79	C
-	No	1712 CENTER ST	1902-03 moved ?	C
-	No	1709 CHASE ST	1875-76 alt	NC
-	No	1712 CHASE ST	1884-85 alt	NC
-	No	1720 CHASE ST	1902-03	C
-	No	1723 CHASE ST	1983-84	NC
-	No	1724 CHASE ST	1914 alt	NC
-	No	1731 CHASE ST	1875-76 alt	NC
-	No	1736 CHASE ST	1986	NC
-	No	1737 CHASE ST	1875-76 alt	NC
-	No	1738 CHASE ST	1909	C
-	No	1739 CHASE ST	1875-76	C
-	No	1745 CHASE ST/832 WOOD ST	1969	NC
A-36	Yes	1769 CHASE ST	1931	NC
A-37	Yes	1771 CHASE ST	before 1880 moved circa 1890	C
A-38	Yes	1779 CHASE ST	circa 1877 rem 1945 & 1974	NC
-	No	719 CHESTER ST	1875-76	C
-	No	721 CHESTER ST	1877-78	C
-	No	722 CHESTER ST/720 CHESTER	1876-77 alt	NC
-	No	725 CHESTER ST	1877-78	C
-	No	729 CHESTER ST	1876-77	C
-	No	730 CHESTER ST	1876	C
-	No	733 CHESTER ST	1876-77	C
-	No	734 CHESTER ST	1876	C
-	No	737 CHESTER ST	1900-01 alt	NC
-	No	738 CHESTER ST	1876-77	C
-	No	810 CHESTER ST/1486-88 8TH ST	1876-77 alt	NC
-	No	822 CHESTER ST	1877-78 alt	NC
-	No	828 CHESTER ST	1877-78 add 1940s	C
-	No	835 CHESTER ST/1503 9TH ST	1888-89	C
-	No	914 CHESTER ST	1881	C
-	No	919-21 CHESTER ST	1904-05 moved 1980	C
-	No	926 CHESTER ST	1953	NC
-	No	927 CHESTER ST	1879-80 alt	NC
-	No	930 CHESTER ST	1967	NC
-	No	931 CHESTER ST	1879-80	C
-	No	935 CHESTER ST	1891-92	C
-	No	938 CHESTER ST	1874	C
-	No	1001 CHESTER ST	1875-76	C
-	No	1004 CHESTER ST	1874	C
-	No	1005 CHESTER ST	1875-76	C
-	No	1008 CHESTER ST	1874	C
-	No	1009 CHESTER ST	1875-76	C

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BUILDINGS LOCATED WITHIN THE BOUNDARIES OF THE DISTRICT

RESOURCE NUMBER	IN APE	ADDRESS	CONSTRUCTION DATE(S)	CONTRIBUTOR STATUS
-	No	1012 CHESTER ST	1874 rem c.1928	NC
-	No	1016 CHESTER ST	1874	C
-	No	1019 CHESTER ST	1877-78	C
-	No	1020 CHESTER ST	1874	C
-	No	1102 CHESTER ST	1874 add 1954	C
-	No	1103 CHESTER ST	1875	C
-	No	1105 CHESTER ST	1876-77 alt	NC
-	No	1106 CHESTER ST	1885-86 moved 1954	C
-	No	1110 CHESTER ST	1887-88	C
-	No	1111 CHESTER ST	1876	C
-	No	1114 CHESTER ST	1891-92	C
-	No	1115 CHESTER ST	1877-78 rem c. 1901	C
-	No	1117 CHESTER ST	1878-79 rem 1961	NC
-	No	1118 CHESTER ST	1891-92	C
-	No	1120 CHESTER ST	1887-88	C
-	No	1126 CHESTER ST/1124 CHESTER ST	1888-89	C
-	No	1128 CHESTER ST	1891-92 rem 1950-70	NC
-	No	1136 CHESTER ST/1479 12TH ST	1891 rem 1989	NC
A-57	Yes	919-21 CYPRESS ST	1885-86 moved 1954	C
-	Yes	933 CYPRESS ST	1954	NC
-	Yes	1419 CYPRESS ST	1955	NC
-	Yes	1433 CYPRESS ST/SW COR 15TH ST	1959-60	NC
-	No	1709 GOSS ST	1889-90	C
-	No	1711 GOSS ST	1889-90	C
-	No	1713 GOSS ST	1888-89	C
-	No	1719 GOSS ST	1906-07 inc 1860s	C
-	No	1725 GOSS ST	1867-68 moved	NC
-	No	1727 GOSS ST	circa 1872	C
-	No	710 HENRY ST	1877-78	C
-	No	714 HENRY ST	1877-78	C
-	No	718 HENRY ST	1892	C
-	No	720 HENRY ST	1908-09 alt	NC
-	No	722 HENRY ST	1884-85	C
-	No	726 HENRY ST	1870s moved 1889	C
-	No	733 HENRY ST	1878-79 alt	NC
-	No	734 HENRY ST	1935-51 inc 1902-06	NC
-	No	737 HENRY ST	1878-79 alt	NC
-	No	810 HENRY ST	1879-80 moved 1925-35	C
-	No	814 HENRY ST	1875-6?	C
-	No	815 HENRY ST	1912	NC
-	No	817 HENRY ST	1912	C
-	No	818 HENRY ST	1879-80 alt	NC
-	No	822 HENRY ST	1879-80 rem c.1970s	NC
-	No	824 HENRY ST	1879-80 rem c.1900s	NC
-	No	852 MC ELROY ST/NE COR CHASE ST	1882 alt	NC
A-166	Yes	853 MC ELROY ST/NW COR CHASE ST	1884-85 rem 1950 & 1961	NC
-	No	856 MC ELROY ST	1881-82	C
A-167	Yes	857 MC ELROY ST	1884-85 rem 1963	NC
A-168	Yes	859-61 MC ELROY ST	1884-85 add 1902-11	C
-	No	860 MC ELROY ST	1882-83	C
A-169	Yes	865 MC ELROY ST	1884-85	C
-	No	872 MC ELROY ST	1884-85	C
A-170	Yes	873 MC ELROY ST	1884-85	C

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BUILDINGS LOCATED WITHIN THE BOUNDARIES OF THE DISTRICT

RESOURCE NUMBER	IN APE	ADDRESS	CONSTRUCTION DATE(S)	CONTRIBUTOR STATUS
-	No	876 MC ELROY ST	1884-85	C
A-171	Yes	877 MC ELROY ST	1890-91 rem 1929 etc.	NC
-	No	884 MC ELROY ST/SE COR 9TH ST	1881-82	C
-	No	712 PERALTA ST	1880-81 add 1907	C
-	No	720 PERALTA ST	1880-81	C
-	No	728 PERALTA ST	1877-78 alt	NC
-	No	734 PERALTA ST	1877-78 alt	NC
-	No	814 PERALTA ST	1876-77	C
-	No	824 PERALTA ST	1870s moved 1903-04	C
-	No	830 PERALTA ST	1912	C
-	No	834 PERALTA ST	1912	C
-	No	840 PERALTA ST	1880-81 rem c 1900	C
-	No	846 PERALTA ST	1878-80	C
-	No	850 PERALTA ST	1878-80 alt	NC
-	No	854 PERALTA ST/SE COR 9TH ST	1878-79	C
-	No	904 PERALTA ST/1538-42 9TH ST	1894-95 add 1920s	C
-	No	912 PERALTA ST	1899	C
-	No	920 PERALTA ST	1912 ? moved ?	C
-	No	1004 PERALTA ST	1870-71	C
-	No	1006 PERALTA ST	1949-50	NC
-	No	1012 PERALTA ST	1915-17 moved 1954	NC
-	No	1016 PERALTA ST	1905-06 moved 1954	C
-	No	1020 PERALTA ST	1874	C
-	No	1028 PERALTA ST	1896	C
-	No	1031 PERALTA ST	1899-00 alt	NC
-	No	1032 PERALTA ST	1878-79 rem 1880s	C
-	No	1035 PERALTA ST	1899-00 alt	NC
-	No	1036 PERALTA ST	1878-79	C
-	No	1039 PERALTA ST/1601 11TH ST	1902-03	C
-	No	1040 PERALTA ST	1878-79	C
-	No	1046 PERALTA ST	1876	C
-	No	1101 PERALTA ST/1600 11TH ST	1888-89	C
-	No	1104 PERALTA ST	1876	C
-	No	1107 PERALTA ST	1888-89	C
-	No	1111 PERALTA ST	1888-89	C
-	No	1112 PERALTA ST	1876-77 rem 1951 etc.	NC
-	No	1117 PERALTA ST	1888-89	C
-	No	1122 PERALTA ST	1876-77	C
-	No	1125 PERALTA ST	1888-89 alt	NC
-	No	1127 PERALTA ST	1908-09 alt	NC
-	No	1128 PERALTA ST	1876-77	C
-	No	1133 PERALTA ST	1891-92	C
-	No	1134 PERALTA ST	1878-79	C
-	No	1137 PERALTA ST	1889-90	C
-	No	1138 PERALTA ST	1878-79	C
-	No	1141 PERALTA ST/1601 12TH ST	1886-87 rem 1940s	NC
-	No	1144 PERALTA ST/1549 12TH ST	1878-79	C
-	No	1202 PERALTA ST/NE COR 12TH ST	1884-85	C
-	No	1206 PERALTA ST	1884-85	C
-	No	1207 PERALTA ST	1882-83	C
-	No	1210 PERALTA ST	1884-85	C
-	No	1214 PERALTA ST	1884-85	C
-	No	1215 PERALTA ST —	1877-78	C

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BUILDINGS LOCATED WITHIN THE BOUNDARIES OF THE DISTRICT

RESOURCE NUMBER	IN APE	ADDRESS	CONSTRUCTION DATE(S)	CONTRIBUTOR STATUS
-	No	1219 PERALTA ST	1905-06	C
-	No	1220 PERALTA ST	1921-22 alt	NC
-	No	1223 PERALTA ST	1907-08 add 1946	C
-	No	1225 PERALTA ST	1925-27	NC
-	No	1226 PERALTA ST	1908	C
-	No	1229 PERALTA ST/1601 13TH ST	1927-38 inc 1878-79	NC
-	No	1232 PERALTA ST/SE COR 13TH ST	1908	C
-	No	1300 PERALTA ST/NE COR 13TH ST	1891-92 moved 1938-39	NC
-	No	1307 PERALTA ST/1610 13TH ST	1887-88	C
-	No	1308 PERALTA ST/1306 PERALTA ST	1888-89 alt	NC
-	No	1311 PERALTA ST	1887-88	C
-	No	1312 PERALTA ST	1888-89	C
-	No	1314 PERALTA ST	1892-93	C
-	No	1320 PERALTA ST	1877-78	C
-	No	1321 PERALTA ST	1871-72 add 1915	NC
-	No	1324 PERALTA ST	1877-78 rem 1884 etc.	NC
-	No	1330 PERALTA ST	1925-35	NC
-	No	1334 PERALTA ST/SE COR 14TH ST	1905-06	C
-	No	1411 PERALTA ST	1883-84 moved 1944	NC
-	No	1418 PERALTA ST	1946	NC
-	No	1421 PERALTA ST	1903-04	C
-	No	1423 PERALTA ST	1926	NC
-	No	1425 PERALTA ST/SW COR 15TH	1878-79 alt	NC
-	No	1426 PERALTA ST	1906	C
-	No	1432 PERALTA ST	1899-00	C
-	No	1436 PERALTA ST	1858 moved 1898	C
-	No	1501 PERALTA ST/NW COR 15TH	1904-05 rem 1959 etc.	NC
-	No	1502 PERALTA ST	1895-96 rem c 1905-11	C
-	No	1504 PERALTA ST	1902 inc 1894-95	C
-	No	1507 PERALTA ST	1904-05	C
-	No	1511 PERALTA ST	1892-93	C
-	No	1514 PERALTA ST	1877-78	C
-	No	1522 PERALTA ST/1520-24 PERALTA	1925 alt	NC
-	No	1532 PERALTA ST/SE COR 16TH ST	1940 add 1951	NC
-	No	1600 PERALTA ST/1454 16TH ST	1928	NC
A-201	Yes	816-18 PINE ST	1888-89 inc 1877	NC
A-202	Yes	822 PINE ST	1879-80	C
A-203	Yes	826 PINE ST	1877 rem 1890s	C
A-204	Yes	830 PINE ST	1877	C
A-205	Yes	840 PINE ST	1921 add 1945	NC
A-206	Yes	842-44 PINE ST	1924 inc 1880s	NC
A-207	Yes	850-52 PINE ST/NE COR CHASE ST	1881-82 rem 1930	NC
A-208	Yes	866 PINE ST	1882-83	C
A-209	Yes	882 PINE ST	1881-82	C
A-210	Yes	884-86 PINE ST/1799 9TH ST	1884-85	C
A-211	Yes	903 PINE ST/NW COR 9TH ST	1884	C
A-212	Yes	905-07 PINE ST	1883-84	C
A-213	Yes	911-13 PINE ST	1883-84	C
A-214	Yes	917 PINE ST	1883-84	C
A-215	Yes	921 PINE ST	1879-80	C
-	No	924 PINE ST	1875-76	C
A-216	Yes	927 PINE ST	1871-72	C
A-217	Yes	929 PINE ST	1878-79	C

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RESOURCE NUMBER	IN APE	ADDRESS	CONSTRUCTION DATE(S)	CONTRIBUTOR STATUS
A-218	Yes	937 PINE ST	1887-88	C
A-219	Yes	941 PINE ST/1805 10TH ST	1867-68	C
-	No	1018 PINE ST	1884-85	C
-	No	1026 PINE ST	before 1868	C
-	No	1030 PINE ST	before 1868	C
-	No	717 WILLOW ST	1889-90	C
-	No	721 WILLOW ST	1889-90	C
-	No	725 WILLOW ST	1889-90	C
-	No	729 WILLOW ST/1701 GOSS ST	1889-90	C
-	No	745 WILLOW ST/BET GOSS & 8TH	1945-46	NC
-	No	819 WILLOW ST/1701 CHASE ST	1875-76	C
-	No	853 WILLOW ST/1700 CHASE ST	1884-85 alt	NC
-	No	859 WILLOW ST	1884-85 alt	NC
-	No	863 WILLOW ST	1884-85	C
-	No	867 WILLOW ST	1875-76	C
-	No	871 WILLOW ST	1902-03 alt	NC
-	No	875 WILLOW ST	1904-05 alt	NC
-	No	883 WILLOW ST	1876-77	C
-	No	887 WILLOW ST	1876-77	C
-	No	889 WILLOW ST	1874-75	C
-	No	893 WILLOW ST/1701 9TH ST	1882-83 add 1940,76	C
-	No	905 WILLOW ST	1890-91	C
-	No	907 WILLOW ST	1887-88 rem + add	NC
-	No	911 WILLOW ST	1885-86 alt	NC
-	No	915 WILLOW ST	1883-84	C
-	No	921 WILLOW ST	1883-84	C
-	No	925 WILLOW ST	1881-82 add 1946	C
-	No	927 WILLOW ST	1881-82	C
-	No	933 WILLOW ST	1881-82 add by 1901	C
-	No	941 WILLOW ST	1881-82	C
-	No	1011 WILLOW ST	1886-87 rem 1964	NC
-	No	1017 WILLOW ST	1878-79 rem 1880s	NC
-	No	1020 WILLOW ST	1874-75	C
-	No	1024 WILLOW ST	1882	C
-	No	1025 WILLOW ST	1899-00	C
-	No	1028 WILLOW ST	1877-78	C
-	No	1029 WILLOW ST	1875-76	C
-	No	1033 WILLOW ST	1884-85	C
-	No	1034 WILLOW ST	1876-77	C
-	No	1037 WILLOW ST	1884-85	C
-	No	1042 WILLOW ST/SE COR 11TH ST	1883-84	C
-	No	1107 WILLOW ST	1874-75	C
-	No	1111 WILLOW ST	1874-75	C
-	No	1115 WILLOW ST	1877-78 rem 1880s	C
-	No	1119 WILLOW ST	1877-78 add c.189	NC
-	No	1122 WILLOW ST	1883-84 rem 1889 ?	C
-	No	1125 WILLOW ST	1877-78 alt	NC
-	No	1128 WILLOW ST	1883-84	C
-	No	1129 WILLOW ST	1877-78 add + rem?	NC
-	No	1203 WILLOW ST/1708 12TH ST	1941-55 rem 1947 etc.	NC
-	No	1216 WILLOW ST	1902	C
-	No	1228 WILLOW ST	1877-78 alt	NC
-	No	1230 WILLOW ST	1912	C

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BUILDINGS LOCATED WITHIN THE BOUNDARIES OF THE DISTRICT

RESOURCE NUMBER	IN APE	ADDRESS	CONSTRUCTION DATE(S)	CONTRIBUTOR STATUS
-	No	1234 WILLOW ST	1912 rem 1980	NC
-	No	1240 WILLOW ST/1691 13TH ST	1912	C
-	No	801 WOOD ST/1750 8TH ST	circa 1866 add 1900s	C
-	No	809 WOOD ST	1885-86	C
-	No	813 WOOD ST	1884-85	C
-	No	817 WOOD ST	1884-85	C
-	No	820 WOOD ST	1904-05	C
-	No	823 WOOD ST	1896	C
-	No	824 WOOD ST	1870-71 rem 1890s	C
-	No	828 WOOD ST	1872-73	C
-	No	829 WOOD ST	1906-07 add 1925?	NC
-	No	831 WOOD ST	1872-73	C
-	No	835 WOOD ST	1872-73	C
-	No	839 WOOD ST	1872-73	C
-	No	851 WOOD ST	1881-82 alt	NC
-	No	855 WOOD ST	1881-82	C
-	No	856 WOOD ST	1891-92	C
-	No	859 WOOD ST	1881-82	C
-	No	863 WOOD ST	1881-82	C
-	No	866 WOOD ST	1873-74	C
-	No	867 WOOD ST	1881-82	C
-	No	871 WOOD ST	1881-82	C
-	No	872 WOOD ST	1981	NC
-	No	875 WOOD ST	1881-82	C
-	No	878 WOOD ST	1874-75	C
-	No	879 WOOD ST	1881-82	C
-	No	882 WOOD ST	1872-74	C
-	No	883 WOOD ST	1881-82	C
-	No	886 WOOD ST/SE COR 9TH ST	1883-84	C
-	No	887 WOOD ST/SW COR 9TH ST	1881-82	C
-	No	911 WOOD ST	1919	NC
-	No	912 WOOD ST	before 1868 moved 1900-01	NC
-	No	915 WOOD ST	1880s moved & alt	NC
-	No	920 WOOD ST	1881-82 rem 1888-89	C
-	No	925 WOOD ST	1908	C
-	No	926 WOOD ST	1874-75	C
-	No	929 WOOD ST	1889-90	C
-	No	930 WOOD ST	1868-69	C
-	No	933 WOOD ST	1889-90 alt	NC
-	No	934 WOOD ST	1873-74 alt	NC
-	No	937 WOOD ST	1870-71 rem 1889-90	C
-	No	940 WOOD ST/SE COR 10TH	1883-84	C
-	No	945 WOOD ST/SW COR 10TH ST	1956	NC
-	No	1000 WOOD ST/1746 10TH ST	1870s moved 1910-11	C
-	No	1004 WOOD ST	1899-00	C
-	No	1011 WOOD ST	1879-80	C
-	No	1014 WOOD ST	1880-81 rem 1890s	C
-	No	1019 WOOD ST	1987-88	NC
-	No	1010 WOOD ST	1876-77	C
-	No	1020 WOOD ST	1876-77 rem 1888-89	C
-	No	1024 WOOD ST	1876-77	C
-	No	1025 WOOD ST	1904	C
-	No	1027 WOOD ST	1867-68 rem c.1900ff	NC

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BUILDINGS LOCATED WITHIN THE BOUNDARIES OF THE DISTRICT

RESOURCE NUMBER	IN APE	ADDRESS	CONSTRUCTION DATE(S)	CONTRIBUTOR STATUS
-	No	1028 WOOD ST	1878-79	C
-	No	1031 WOOD ST	1890-91	C
-	No	1032 WOOD ST	1880s moved 1925-30	C
-	No	1035 WOOD ST/SW COR 11TH ST	1890-91 alt	NC
-	No	1102 WOOD ST/1744 11TH ST	1946? moved?	NC
-	No	1105 WOOD ST	1884	C
-	No	1109 WOOD ST	1884 alt	NC
-	No	1113 WOOD ST	1884	C
-	No	1117 WOOD ST	1884	C
-	No	1118 WOOD ST	1891-92 add c 1925	C
-	No	1121 WOOD ST	1884	C
-	No	1122 WOOD ST	1875-76	C
-	No	1125 WOOD ST	1884	C
-	No	1126 WOOD ST	1875-76	C
-	No	1130 WOOD ST	1875-76	C
-	No	1131 WOOD ST	1884 alt	NC
-	No	1133 WOOD ST	1884	C
-	No	1137 WOOD ST/SW COR 12TH ST	1884 add 1927	C
-	No	1138 WOOD ST	1875-76	C
-	No	1202 WOOD ST/NE COR 12TH ST	1876-77 rem 1883-84	C
-	No	1204 WOOD ST	1883-84	C
-	No	1206 WOOD ST	1883-84	C
-	No	1208 WOOD ST	1883-84	C
-	No	1220 WOOD ST	1885	C
-	No	1228 WOOD ST	1884-85	C
-	No	1236 WOOD ST/1749 13TH ST	1885-86	C
A-298	Yes	1404-06 8TH ST/NW COR CYPRESS	1894	C
A-299	Yes	1410 8TH ST	1894	C
-	No	1418 8TH ST	1885-86	C
-	No	1420 8TH ST	1878-79	C
-	No	1428 8TH ST	1878-79	C
-	No	1454 8TH ST/NW COR CENTER	1877-78 rem 1895	C
-	No	1464 8TH ST	1877-78 rem 1979	NC
-	No	1468 8TH ST	1877-78 alt	NC
-	No	1472 8TH ST	1877-78	C
-	No	1477 8TH ST	1892-93	C
-	No	1480 8TH ST	1877-78	C
-	No	1484 8TH ST	1888-89	C
-	No	1485 8TH ST/SE COR CHESTER	1877 rem 1928	C
-	No	1501 8TH ST/SW COR CHESTER	1874-75	C
-	No	1502 8TH ST/NW COR CHESTER	1876-77	C
-	No	1507 8TH ST	1874-75	C
-	No	1509 8TH ST	1880-81	C
-	No	1510 8TH ST	1945	NC
-	No	1516 8TH ST	1876-77	C
-	No	1522 8TH ST	1878-79	C
-	No	1523 8TH ST/1521 8TH ST	1875-76 rem 1880s	C
-	No	1527 8TH ST	1877-78	C
-	No	1530 8TH ST	1876-77	C
-	No	1531 8TH ST	1878-79	C
-	No	1533 8TH ST/SW COR HENRY ST	1877-78	C
-	No	1538 8TH ST/NE COR HENRY ST	1876-77	C
-	No	1551 8TH ST/SW COR HENRY ST	1917	NC

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BUILDINGS LOCATED WITHIN THE BOUNDARIES OF THE DISTRICT

RESOURCE NUMBER	IN APE	ADDRESS	CONSTRUCTION DATE(S)	CONTRIBUTOR STATUS
-	No	1552 8TH ST/NW COR HENRY ST	1876-77	C
-	No	1555 8TH ST	1878-79	C
-	No	1556 8TH ST	1876-77 fire damage	NC
-	No	1557 8TH ST	1878-79	C
-	No	1558 8TH ST	1876-77 alt	NC
-	No	1559 8TH ST	1878-79	C
-	No	1560 8TH ST	1876-77	C
-	No	1561 8TH ST/SE COR PERALTA	1878-79	C
-	No	1562 8TH ST/800 PERALTA ST	1889-90	C
-	No	1706 8TH ST	1874-75	C
-	No	1710 8TH ST	1985-86	NC
-	No	1717 8TH ST	1873-75 rem 1900-02	C
-	No	1718 8TH ST	1874-75	C
-	No	1720 8TH ST	1874-75 alt	NC
-	No	1723 8TH ST	1873-75	C
-	No	1725 8TH ST	1871 alt	NC
-	No	1729 8TH ST	1890-92	C
-	No	1730 8TH ST	1876-77 rem circa 1889	C
-	No	1735 8TH ST	1873-74 alt	NC
-	No	1736 8TH ST	1872-73	C
-	No	1744 8TH ST	1881	C
-	No	1746 8TH ST	1873-74	C
-	No	1748 8TH ST/NE COR WOOD ST	1948	NC
-	No	1756 8TH ST	1910s moved 1925?	C
-	No	1764 8TH ST	1884-85	C
-	No	1768 8TH ST	1900-02 inc 1860s	C
-	No	1772 8TH ST	before 1877 rem 1900s	NC
A-300	Yes	1774 8TH ST	circa 1896 inc 1870s	C
A-301	Yes	1777 8TH ST	1866-68	C
A-302	Yes	1778 8TH ST	1867-68 rem 1910 etc.	NC
A-303	Yes	1781 8TH ST	1866-68	C
A-304	Yes	1782 8TH ST	1872-73	C
A-306	Yes	1794 8TH ST	1881-82	C
A-307	Yes	1796 8TH ST/NE COR PINE ST	1886-87	C
A-308	Yes	1405 9TH ST/SW COR CYPRESS	1889-90	C
A-309	Yes	1406 9TH ST/NW COR CYPRESS	1886-88	C
A-310	Yes	1410 9TH ST	1886-88	C
A-311	Yes	1411 9TH ST	1889-90	C
-	No	1415 9TH ST	186-7 moved 1884-85	C
-	No	1416 9TH ST/1412 9TH ST	1886-88	C
-	No	1420 9TH ST/1418 9TH ST	1877-78 moved 1940	NC
-	No	1422 9TH ST	1877-78 alt	NC
-	No	1423 9TH ST	1877-78	C
-	No	1428 9TH ST	1889	C
-	No	1429 9TH ST	1905	C
-	No	1434 9TH ST	1889 inc 1876-77	NC
-	No	1435 9TH ST	1877-78	C
-	No	1436 9TH ST	1877-78	C
-	No	1439 9TH ST	1877-79	C
-	No	1454 9TH ST/NW COR CENTER	1880-81	C
-	No	1456 9TH ST	1881	C
-	No	1464 9TH ST	1880-81	C
-	No	1467 9TH ST/1465-69 9TH ST	1877-78	C

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BUILDINGS LOCATED WITHIN THE BOUNDARIES OF THE DISTRICT

RESOURCE NUMBER	IN APE	ADDRESS	CONSTRUCTION DATE(S)	CONTRIBUTOR STATUS
-	No	1468 9TH ST	1885-86	C
-	No	1473 9TH ST	1877-78	C
-	No	1474 9TH ST	1875-76	C
-	No	1481 9TH ST/SE COR CHESTER	1960 moved 1966	NC
-	No	1482 9TH ST	1875-76	C
-	No	1484 9TH ST/NE COR CHESTER	1875-76	C
-	No	1510 9TH ST	1880-81	C
-	No	1511 9TH ST	1873-74	C
-	No	1514 9TH ST	1880-81	C
-	No	1518 9TH ST	1950-51	NC
-	No	1521 9TH ST	1869-70	C
-	No	1522 9TH ST	1899-00	C
-	No	1523 9TH ST	1925-26	NC
-	No	1526 9TH ST	1889	C
-	No	1531 9TH ST	1879-80 alt	NC
-	No	1532 9TH ST	1899	C
-	No	1537 9TH ST	1879-80	C
-	No	1712 9TH ST	1982	NC
-	No	1715 9TH ST	1879-80	C
-	No	1716 9TH ST	1931 inc 1885-86	NC
-	No	1717 9TH ST	1875-76	C
-	No	1721 9TH ST	1875-76	C
-	No	1724 9TH ST	1906	C
-	No	1727 9TH ST	1908	C
-	No	1730 9TH ST	1930 inc 1906-11	NC
-	No	1731 9TH ST	1883-84 moved 1891	NC
-	No	1734 9TH ST	1869-70	C
-	No	1737 9TH ST	1905-06 alt	NC
-	No	1740 9TH ST	1888-89	C
-	No	1744 9TH ST	1886-87	C
-	No	1748 9TH ST/NE COR WOOD ST	1901	C
-	No	1752 9TH ST/901 WOOD ST	1880-81 inc ?	C
-	No	1756 9TH ST	1880-81 alt	NC
-	No	1760 9TH ST	1880-81 rem 1960,84	NC
-	No	1764 9TH ST	1880-81	C
-	No	1768 9TH ST	1880-81	C
-	No	1776 9TH ST	1871-72 moved ?	C
A-312	Yes	1777 9TH ST/SW COR MC ELROY	1884-85	C
-	No	1780 9TH ST	1908-09	C
A-313	Yes	1781-83 9TH ST	1884-85	C
-	No	1784 9TH ST	1900-01	C
A-314	Yes	1785-87 9TH ST	1884-85	C
-	No	1788 9TH ST	1925	NC
-	No	1794 9TH ST	1915-18	C
-	No	1798 9TH ST/900 PINE ST	circa 1868	C
A-315	Yes	1409-11 10TH ST	1877-78	C
A-316	Yes	1412 10TH ST	1877-78	C
A-317	Yes	1414-20 10TH ST	1882-83 add 1888-89	C
A-318	Yes	1415-17 10TH ST	1876-77 rem 1955	NC
-	No	1421 10TH ST	1887-88	C
-	No	1426 10TH ST	1883-84 alt	NC
-	No	1427 10TH ST	1888-89	C
-	No	1430 10TH ST	1883-84	C

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BUILDINGS LOCATED WITHIN THE BOUNDARIES OF THE DISTRICT

RESOURCE NUMBER	IN APE	ADDRESS	CONSTRUCTION DATE(S)	CONTRIBUTOR STATUS
-	No	1431 10TH ST	circa 1876	C
-	No	1434 10TH ST	1946	NC
-	No	1438 10TH ST	1889-90	C
-	No	1442 10TH ST	1880-81	C
-	No	1448 10TH ST/NE COR CENTER	1880-81	C
-	No	1662 10TH ST	1902-03	C
-	No	1674 10TH ST	1888-89	C
-	No	1678 10TH ST	1879-80 alt	NC
-	No	1684 10TH ST	1870s moved 1920s	NC
-	No	1690 10TH ST	1874-75 add 1900s	C
-	No	1694 10TH ST	1906-07	C
-	No	1698 10TH ST/NE COR WILLOW	1908	C
-	No	1700 10TH ST/NW COR WILLOW	1973-75	NC
-	No	1708 10TH ST	1877-78 alt	NC
-	No	1715 10TH ST	1888-89	C
-	No	1716 10TH ST	1870-71	C
-	No	1717 10TH ST	1881-82	C
-	No	1720 10TH ST	1962	NC
-	No	1725 10TH ST	1873-74 rem 1952+	NC
-	No	1726 10TH ST	1900s inc 1874	C
-	No	1729 10TH ST	1873-74	C
-	No	1733 10TH ST	1868-69	C
-	No	1734 10TH ST	1872-73 alt	NC
-	No	1737 10TH ST	1884-85	C
-	No	1742 10TH ST	1874-75	C
-	No	1750 10TH ST/NW COR WOOD ST	1870-71	C
-	No	1756 10TH ST	1871-73 rem c.1890s	C
-	No	1760 10TH ST	1871-74	C
-	No	1761 10TH ST	circa 1874 rem	NC
-	No	1764 10TH ST	1889-90	C
-	No	1765 10TH ST	1871-72 rem 1886-92	C
-	No	1766 10TH ST	1888-89	C
-	No	1770 10TH ST	1890s moved 1913-14	C
-	No	1773 10TH ST	1868-69	C
-	No	1774 10TH ST	1890s moved 1913-14	C
-	No	1779 10TH ST	1870s moved 1925-32	C
-	No	1783 10TH ST	1870-71	C
A-319	Yes	1417 11TH ST	1883-84	C
-	No	1419 11TH ST	1884-85	C
-	No	1423 11TH ST	1902-10 inc	C
-	No	1424 11TH ST	circa 1872	C
-	No	1428 11TH ST	circa 1872	C
-	No	1429 11TH ST	1884-85 alt	NC
-	No	1434 11TH ST	1986	NC
-	No	1436 11TH ST/1442 11TH ST	1895-96	C
-	No	1448 11TH ST/1102 CENTER ST	1906	C
-	No	1611 11TH ST	1914-15	NC
-	No	1612 11TH ST	1888-89	C
-	No	1615 11TH ST	1904-05	C
-	No	1616 11TH ST	1887-88	C
-	No	1621 11TH ST	1898-99 alt	NC
-	No	1622 11TH ST	1887-88	C
-	No	1625 11TH ST	1870s moved 1899-00	C

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BUILDINGS LOCATED WITHIN THE BOUNDARIES OF THE DISTRICT

RESOURCE NUMBER	IN APE	ADDRESS	CONSTRUCTION DATE(S)	CONTRIBUTOR STATUS
-	No	1627 11TH ST	1897-98 alt	NC
-	No	1628 11TH ST	1890-91 alt	NC
-	No	1629 11TH ST/SE COR CAMPBELL	1877-78	C
-	No	1630 11TH ST	1886-87	NC
-	No	1651 11TH ST/SW COR CAMPBELL	1879-80	C
-	No	1661 11TH ST	1877-78 rem 1960-70	NC
-	No	1663 11TH ST	1923	C
-	No	1665 11TH ST	1871-72 moved ?	C
-	No	1666 11TH ST	1874-75	C
-	No	1671 11TH ST	1874-75	C
-	No	1672 11TH ST	1901-02 inc 1870s	C
-	No	1674 11TH ST	1875-76	C
-	No	1677 11TH ST	1884-85	C
-	No	1679 11TH ST	1890-91	C
-	No	1682 11TH ST	1984	NC
-	No	1684 11TH ST	1876-77 alt	NC
-	No	1690 11TH ST	1876-77	C
-	No	1694 11TH ST	1891-92	C
-	No	1717 11TH ST	1982	NC
-	No	1721 11TH ST	1870-71	C
-	No	1724 11TH ST	1988	NC
-	No	1728 11TH ST	1890s inc 1877-78	C
-	No	1729 11TH ST	1870-71	C
-	No	1731 11TH ST	1890s inc 1871 ad	C
-	No	1735 11TH ST	1873-75	C
-	No	1736 11TH ST	1872-74 rem 1949+	NC
-	No	1739 11TH ST	1874-75 add 1946-47	C
-	No	1740 11TH ST	1870-71 add 1882-01	C
-	No	1767 11TH ST	1871-72	C
-	No	1771 11TH ST	1871-72	C
-	No	1791 11TH ST	1877-78 add 1890s	C
A-320	Yes	1408 12TH ST/NW COR CYPRESS	1888-89	C
A-321	Yes	1414 12TH ST	1879-80 rem 1950	NC
-	No	1416 12TH ST	1875-76 inc	NC
A-322	Yes	1419 12TH ST	1892-93	C
-	No	1422 12TH ST/1420 12TH ST	1903-04	C
-	No	1424 12TH ST	1885-86 rem 1945 etc.	NC
-	No	1427 12TH ST/1425 12TH ST	1901-02 inc	C
-	No	1428 12TH ST	1885-86	C
-	No	1431 12TH ST	1888-89 alt	NC
-	No	1432 12TH ST	1885-86	C
-	No	1450 12TH ST/NW COR CENTER	1877-78 rem 1887 etc.	NC
-	No	1457 12TH ST/SW COR CENTER	1963-65	NC
-	No	1466 12TH ST	1885-86	C
-	No	1470 12TH ST	1885-86 alt	NC
-	No	1474 12TH ST	1885-86	C
-	No	1478 12TH ST	1885-86 alt	NC
-	No	1482 12TH ST	1884-85	C
-	No	1486 12TH ST	1884-85	C
-	No	1490 12TH ST	1884-85	C
-	No	1503 12TH ST/1139 CHESTER ST	1878-79	C
-	No	1600 12TH ST/NW COR PERALTA	1945 rem 1972	NC
-	No	1618 12TH ST	1882	C

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BUILDINGS LOCATED WITHIN THE BOUNDARIES OF THE DISTRICT

RESOURCE NUMBER	IN APE	ADDRESS	CONSTRUCTION DATE(S)	CONTRIBUTOR STATUS
-	No	1619 12TH ST	1886-87	C
-	No	1622 12TH ST	1878 moved 1883	C
-	No	1623 12TH ST	1889-90	C
-	No	1624 12TH ST	1883-84 rem 1946	NC
-	No	1626 12TH ST	1918-21	C
-	No	1627 12TH ST	1889-90	C
-	No	1630 12TH ST	1876-77	C
-	No	1631 12TH ST	1888-89	C
-	No	1634 12TH ST	1876-77 rem 1903-04	C
-	No	1637 12TH ST	1910	C
-	No	1638 12TH ST	1906-07	C
-	No	1642 12TH ST	1870s moved 1902-03	C
-	No	1646 12TH ST/1204 CAMPBELL	1891-92 rem 1910	NC
-	No	1650 12TH ST/1209 CAMPBELL	before 1875 rem 1907,44	NC
-	No	1655 12TH ST/1135 CAMPBELL	1870s moved ?	C
-	No	1658 12TH ST	1950s	NC
-	No	1661 12TH ST	1888-89	C
-	No	1666 12TH ST	1897-98 alt	NC
-	No	1668 12TH ST	1874-75 alt	NC
-	No	1669 12TH ST	1873-74 add 1945-66	NC
-	No	1675 12TH ST	1874-75	C
-	No	1676 12TH ST	1876-77	C
-	No	1685 12TH ST	1880-81 add 1889	C
-	No	1688 12TH ST	1906-07	C
-	No	1689 12TH ST	circa 1870 alt	NC
-	No	1691 12TH ST	1881	C
-	No	1693 12TH ST	1881	C
-	No	1695 12TH ST	1881	C
-	No	1698 12TH ST/1200 WILLOW	1905-06	C
-	No	1707 12TH ST	1909-10	C
-	No	1709 12TH ST	1875-76 rem 1900s	C
-	No	1717 12TH ST	1905-06	C
-	No	1727 12TH ST	1871-72 rem 1943-44	C
-	No	1735 12TH ST	1899-00	C
-	No	1739 12TH ST	1891-92	C
-	No	1745 12TH ST	1877-78 moved 1948-50	NC
-	No	1451 13TH ST/1217 CENTER ST	1926	NC
-	No	1460 13TH ST	1877-78	C
-	No	1461 13TH ST	1877-78	C
-	No	1465 13TH ST/1463 13TH ST	1877-78 alt	NC
-	No	1466 13TH ST	1934	NC
-	No	1468 13TH ST	1891-92	C
-	No	1469 13TH ST	1877-78 rem 1890s	NC
-	No	1472 13TH ST	1896-97 moved circa 1926	C
-	No	1473 13TH ST	1892-93 inc 1877-78	C
-	No	1609 13TH ST	1876-77 moved circa 1925	NC
-	No	1615 13TH ST	1895-96	C
-	No	1616 13TH ST	1887-88 alt	NC
-	No	1620 13TH ST	1880s moved 1944	NC
-	No	1624 13TH ST	1888-89	C
-	No	1625 13TH ST	1887-88	C
-	No	1626 13TH ST	1888-89	C
-	No	1629 13TH ST	1887-88	C

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BUILDINGS LOCATED WITHIN THE BOUNDARIES OF THE DISTRICT

RESOURCE NUMBER	IN APE	ADDRESS	CONSTRUCTION DATE(S)	CONTRIBUTOR STATUS
-	No	1630 13TH ST	1888-89 rem 1936	NC
-	No	1635 13TH ST	1887-88	C
-	No	1636 13TH ST	1946	NC
-	No	1637 13TH ST	1895 alt	NC
-	No	1664 13TH ST	1889-90	C
-	No	1669 13TH ST	1902 inc 1884?	C
-	No	1673 13TH ST	1899 rem 1931	C
-	No	1681 13TH ST	1880-81	C
-	No	1689 13TH ST	1912	C
-	No	1714 13TH ST	1873-74 add 1880s	C
-	No	1718 13TH ST	1901-02 inc	C
-	No	1724 13TH ST	1876-77 alt	NC
-	No	1730 13TH ST	1925	NC
-	No	1734 13TH ST	1973-75	NC
-	No	1737 13TH ST	circa 1874	C
-	No	1738 13TH ST	1890s inc 1870-71	C
-	No	1742 13TH ST	1890s inc 1871	C
A-324	Yes	1410 14TH ST/NW COR CYPRESS	circa 1925 inc 1894-95	NC
A-325	Yes	1414 14TH ST	1894-95	C
-	No	1416 14TH ST	1896-97	C
-	No	1420 14TH ST	1900-01	C
-	No	1428 14TH ST/1426 14TH ST	1891-92	C
-	No	1434 14TH ST	1892-93	C
-	No	1436 14TH ST	1906	C
-	No	1440 14TH ST	1893-94	C
-	No	1444 14TH ST	1897-98	C
-	No	1448 14TH ST/NE COR CENTER	1938 moved 1955	NC
-	No	1450 14TH ST/NW COR CENTER	1879-80 add 1917	C
-	No	1451 14TH ST/1325 CENTER ST	1933	NC
-	No	1463 14TH ST	1870s moved 1908-10	~~C~~ NC
-	No	1465 14TH ST	1870s moved 1908-10	~~C~~ NC
-	No	1467 14TH ST	1894-96 rem 1912-30	NC
-	No	1473 14TH ST	1925 ?	NC
-	No	1477 14TH ST	1878-79 add 1890s	C
-	No	1488 14TH ST/NE COR PERALTA	1914-15 inc	NC
-	No	1606 14TH ST/NW COR PERALTA	1965	NC
-	No	1607 14TH ST/1327-33 PERALTA	1951 alt	NC
-	No	1610 14TH ST	1908-09	C
-	No	1614 14TH ST	1915-16	C
-	No	1619 14TH ST	1906-07	C
-	No	1620 14TH ST	1905	C
-	No	1625 14TH ST	1901-02	C
-	No	1629 14TH ST	1930 inc 1907 ?	NC
-	No	1631 14TH ST	1892-93	C
-	No	1632 14TH ST	1910	C
-	No	1637 14TH ST	1888-89	C
-	No	1638 14TH ST	1922	NC
-	No	1644 14TH ST	1888-89	C
-	No	1646 14TH ST/NE COR CAMPBELL	1886-87 alt	NC
-	No	1650 14TH ST/NW COR CAMPBELL	1890s moved 1943	NC
-	No	1651 14TH ST/SW COR CAMPBELL	1886-87	C
-	No	1657 14TH ST	1889-90 add ?	NC
-	No	1659 14TH ST	1889-90 alt	NC

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BUILDINGS LOCATED WITHIN THE BOUNDARIES OF THE DISTRICT

RESOURCE NUMBER	IN APE	ADDRESS	CONSTRUCTION DATE(S)	CONTRIBUTOR STATUS
-	No	1660 14TH ST	1887-88	C
-	No	1661 14TH ST	1889-90	C
-	No	1662 14TH ST	1885-86	C
-	No	1663 14TH ST	1885-86	C
-	No	1666 14TH ST	1886-87	C
A-326	Yes	1412 15TH ST/NW COR CYPRESS	1876-77 rem 1942 & 1956	NC
A-327	Yes	1413-15 15TH ST	1883-84 rem 1945 & 1982	NC
A-328	Yes	1414 15TH ST	before 1888 moved 1888	NC
-	No	1417-19 15TH ST	1904	C
-	No	1422 15TH ST	1878-79 add 1947	NC
-	No	1423 15TH ST	1876-77	C
-	No	1426 15TH ST	1888-89	C
-	No	1427 15TH ST	1883-84 inc 1876-77	C
-	No	1430 15TH ST	1888-89	C
-	No	1434 15TH ST	1888-89	C
-	No	1438 15TH ST	1876-77 rem 1936	NC
-	No	1611 15TH ST	1903-04	C
-	No	1612 15TH ST	1877-78	C
-	No	1616 15TH ST	1912-15 inc 1877-78	C
-	No	1620 15TH ST	1877-78 rem 1951?	NC
-	No	1624 15TH ST	1906-07 moved 1890s	NC
-	No	1625 15TH ST	1883-84 rem 1901-02	C
-	No	1627 15TH ST	1883-84	C
-	No	1628 15TH ST	1897-98 moved 1906	C
-	No	1665 15TH ST	1891-92	C
-	No	1669 15TH ST	1891-92	C
-	No	1673 15TH ST	1894-95 add 1948	C
A-330	Yes	1408 16TH ST	1944 inc circa 1871	NC
A-331	Yes	1414 16TH ST	1906	C
A-332	Yes	1421 16TH ST	1888-89	C
-	No	1422 16TH ST	1930 inc 1870s	NC
-	No	1425 16TH ST	1888-89	C
-	No	1426 16TH ST	1905-06	C
-	No	1429 16TH ST	1875-76 rem 1892-93	C
-	No	1432 16TH ST	1881-82	C
-	No	1433 16TH ST	1984	NC
-	No	1440 16TH ST	1874 rem 1943-48	NC
-	No	1444 16TH ST	1884-85	C
-	No	1451 16TH ST/SW COR CENTER	1870s moved 1918	C
A-335	Yes	1407-09 17TH ST	1892-93 inc 1877?	C
A-336	Yes	1415 17TH ST	1878-79	C
A-337	Yes	1416 17TH ST	1886-88	C
-	No	1420 17TH ST	1884-85 alt	NC
-	No	1421 17TH ST	1882	C
-	No	1427 17TH ST	1906-07	C
-	No	1433 17TH ST	1878-79	C
-	No	1436 17TH ST	1959-60	NC
-	No	1437 17TH ST	1877-78	C
-	No	1442 17TH ST	1870s moved 1928	C

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HISTORIC RESOURCES INVENTORY CONTINUATION PAGE

Address: Oakland Point District

Serial Number: NONE

Photo number: 476-3
Photo date: 08/19/87

1126 to 1114 Chester St., 1887-92

Photo number: 491-17
Photo date: 09/04/87

1551 to 1561 8th St., John Ziegenbein, 1878

post-Earthquake building boom completed the area's physical development.

The district's setting contributes to its significance at its south ends, where it adjoins the fragments of the 7th Street commercial district, the mixed commercial-residential blocks of 8th Street opposite Campbell Village and Prescott School (containing an 1890s firehouse and several 1870s houses), and the Oakland Point ASI district (a fragmentary group containing several very early houses including 714 Pine Street). There is another cluster of early houses just outside the district to the northwest, on 14th between Wood and Willow. Elsewhere the surroundings are not contributing, since as described in 7b, the boundaries are drawn where the 19th century residential character of the district ends.

RAILROAD (National Register Criterion A: Industry, Transportation)

Oakland Point is located two miles west of the site around 1st and Broadway where the City of Oakland was first established. The 3190-acre "original town" of 1852 included the undeveloped West Oakland area as well as the roughly 500 acres along Broadway that were laid out in streets in the Kellersberger map of 1853. The Point was of obvious geographic interest to early Oakland as the closest land to San Francisco, for passenger ferries and shipping: meanwhile, the transbay route was up the shallow, marshy San Antonio Creek or estuary to the foot of Broadway. A Bay Street Wharf was begun at the Point in the early 1850s by Rodmond Gibbons but not completed.

In 1861 Gibbons and several partners (including George Goss and Samuel Wood, namesakes of streets in the Point) revived the project in conjunction with train service to Broadway, as the San Francisco and Oakland Railroad. This commuter line ran out 7th Street and met the ferry "Contra Costa" in deep water at the end of a 3/4-mile wharf over mud flats. (The route in the enabling ordinance was described as "Seventh Street from its easterly limits, to... Market Street... thence in a straight line to the western boundary of the city" - the Point was not yet provided with streets.) SF&O service began in 1862 (using an engine and cars built by Novelty Iron Works at the Point) and was extended over the next few years, east to the Brooklyn area beyond Lake Merritt in 1864, and farther west on an enlarged 1-1/4-mile pier by 1868. By 1867, the <u>Oakland Daily News</u> (February 14, p. 13) reported on "The Oakland Point":

> Recently having occasion to ride through this flourishing part of the city, we could but think of the very great and almost wonderful change which the mere presence of the railroad has wrought. Previous to its construction, nearly all that part of the Encinal west of Adeline Street was a wilderness, there being scarcely a house or fence on the whole tract. The ground was generally covered with a thick growth of underbrush and tangled vines. Pleasure parties occasionally went there to gather

19. Historical and/or Architectural Importance (continued)

> blackberries... As soon, however, as the railroad was completed, and our citizens felt that they could rely upon the facilities which it afforded, there was a very great and marked increase of our population... Today there are there a large number of elegant and comfortable houses. We presume that the average value of land there is about $2,000 per acre. We have not ascertained the exact population of that section of the city, but the number of children in attendance at the public school which they have established, is sixty...
>
> Unfortunately the means of communication between the Point and the central part of the city, is very poor. There is only one road leading there, and that is narrow, crooked and sandy... When a large number of houses have been erected, the cost of laying out and grading streets will be infinitely greater. Before other buildings are erected there, the present residents should agree among themselves upon some plan for opening streets upon their land. It will increase in value as it becomes accessible, and it is almost as necessary that there should be a ready means of communication between the Point and Broadway as between the Point and San Francisco.

Apparently the Point, and to some extent Oakland as a whole, was considered mostly a San Francisco commuter suburb at this time. In 1871 a promotional brochure published by the Oakland Daily Transcript ("Information Concerning the Terminus...," pp. 27, 34) stated:

> Various considerations may lead people to prefer a residence outside of the great city to one within, and not the least among these is the larger quantity of ground obtainable for the same amount of money...
>
> The street car trips, from the business portion of San Francisco to, or from any point in that city, where residence property cost even double that of residence property in Oakland, consume more time than the trips between San Francisco and Oakland...
>
> During the year 1870, the cars and boat made twelve trips per day, each way. The average number of passengers to each trip was one hundred and eighty, making four thousand three hundred and twenty passengers per day, or over one million and a half for the year...
>
> Indeed, it is quite evident that the time is not distant when crossings will be made every ten minutes; and persons seeking homesteads can safely depend upon realizing this prediction.

The Central (later Southern) Pacific arrived in 1869 and soon transformed Oakland Point into an active, populous company town. The transcontinental

19. Historical and/or Architectural Importance (continued)

railroad wound down to Alameda County over the Altamont Pass, through Livermore, Pleasanton, Niles, San Lorenzo, San Leandro, and up the Oakland Estuary. The city and ex-mayor Horace Carpentier convinced the Central Pacific to make Oakland the western terminus by giving the railroad virtually the entire waterfront and tidelands (which the city had granted to Carpentier in 1853). This monopoly, which lasted until 1910, retarded industrial development along the Oakland waterfront for decades - except at the Point where the railroad itself was a major industry.

The main passenger depot for Oakland was at 7th Street (also called Railroad Avenue) and Broadway. Passengers for San Francisco - the ultimate transcontinental terminus - continued out 7th and beyond to the ferry. By 1870 traffic was so heavy that the tracks were divided east of Lake Merritt, the freight and overland trains going along 1st Street and the locals - the former San Francisco and Oakland Railroad - along 7th Street. Successive expansions of the pier system were the Long Wharf, 1871, and the Oakland Mole, a major freight and passenger terminal, built in 1879-81. At their longest, the wharves extended about 2 miles, or halfway to Yerba Buena Island. They handled deep-water shipping on a massive scale - the very first freight ferry, the Thoroughfare, 1870, held 18 loaded freight cars ("without breaking bulk" - a sort of early piggyback service) and 16 carloads of loose stock, and warehouse and berthing facilities were in proportion. Seventh Street today continues out over the route of the Mole to container terminals, and a 1910 railroad signal tower still stands. Inland, across 7th from the Point residential neighborhood, extensive freight yards still exist, as well as a few late 19th century brick buildings from the Southern Pacific shop complex, southwest of 7th and Wood, and some 1910s electrical and administration buildings at 415-525 Bay Street.

On this outer stretch, south of 7th Street, the Central Pacific established enormous switching and maintenance yards, a roundhouse, car repair shops, car building shops, a creosoting plant, and shipyards as well, since the CPRR took over the pier and the ferry service. In mid-1874 the expansion of the yards and shops was major local news: "The Point... is now really the most prosperous part of Oakland... The main cause of prosperity down there is the location of the railroad workshops, to which is now being added the Railroad Company's ship yard. The workmen mostly employed there are white men and spend the greater part of their wages on the spot. We suppose that within a twelvemonth no less than twenty business places have been opened at the Point and all appear to be doing well." (News, July 27, 1874) "In view of the proposed harbor improvements on this side of the bay, there is little risk in saying that within three to five years the entire railroad manufacturing and repairing force will be established in West Oakland, adding thousands to the general population and immensely to the business of the city throughout." (Tribune, July 17, 1874) The Illustrated Album of Alameda County (1896) gives some sense of the size and importance of the SP's West Oakland yards:

> THE RAILROAD YARDS. The headquarters of the constructive

19. Historical and/or Architectural Importance (continued)

operations of the Southern Pacific Company's system are at the West Oakland yards....The bridge and building department does all the building for the railroad and for the Pacific Improvement Company, a branch of the Southern Pacific, with the single exception of the laying of the rails. It primarily is designed to build all the bridges which the track and engineer departments require. The latter department supplies the superintendent with a profile of the space to be bridged and the data necessarily connected therewith. From this the designs are drawn and the parts of the bridge made and fitted in these yards. The bridge is built in place by a gang from this department, and when finished and turned over to the track department is ready to receive the rails.

The territory extends all over the Pacific Coast to the most distant points reached by the Southern Pacific Company's lines, whether owned or leased. To the south it reaches El Paso, to the east Ogden, and toward the north it runs into Oregon. Over this territory it supplies, with the exception of ties, every bit of lumber that is used by the several departments of the road, even providing the car department at Sacramento with all its material.... The department is even farther reaching in its scope, for it does the work of construction for the Pacific Improvement Company. The new Del Monte Hotel, at Monterey, Hotel El Carmelo, at Pacific Grove, Castle Crag, near Mount Shasta, are all the work of this department, and a singular proof of the capacity of the West Oakland yards is the fact that the task of supplying the material for this enormous structure did not in the least interfere with the usual work of the shop.

All stations, roundhouses, and other buildings are constructed from data supplied to this department....so that at the place of erection nothing is left the workmen but to fit the pieces together according to the orders given. The department has charge of the shipyard, also, at West Oakland, and has built or repaired all the steamers of the railroad company's large fleet. During the past year this one department has handled over fifteen million feet of lumber and has given employment to some twenty-five hundred men, of which number at least four hundred and fifty are carried upon the pay roll of the Oakland shops. ...

The buildings of the department of motive power and machinery stand close together at the shore of the bay, and in addition to a few tool houses are the machine shop, the blacksmithy, and the roundhouse. The division for which these are the repair shops extends from Oakland to San Jose by Niles, to Sacramento by Livermore on the Western Pacific, to Sacramento by Benicia on the Northern and California Pacific, and to Lathrop. ...

19. Historical and/or Architectural Importance (continued)

> The blacksmithy has four forges and a steam hammer of ten tons. The machine shop is amply fitted with necessary tools, a lathe for turning tires, an hydraulic press for putting wheels on, a large planer, a large slatting machine, three drill punches, and six lathes. Here also is the air compressor which supplies the block signal system, extending from the pier to Sixteenth Street on the overland lines, and to Alice Street on the Fifteenth Street lines. The roundhouse has room for twenty-one locomotives. The daily supply of coal used by the locomotives is, on the average, one hundred tons.
>
> The department employs one hundred and ten men, and the pay roll is growing larger every month. These are classed as follows: Mechanics, thirty-four, comprising smiths, carpenters, boiler makers, machinists, and painters; helpers, twenty-six; laborers, twenty-two; wipers, fifteen, being boys who are in the line of eventually becoming engineers; watchmen and dispatchers, eleven; a foreman of the roundhouse and a foreman of the machine shop. The engineers number ninety-five, and the firemen ninety-eight. The monthly pay roll amounts to $21,000, of which the engineers receive $10,000, the repairing branch $6,000, and the firemen $5,000. ...
>
> The shipyard, which belongs to the bridge building department, is close alongside the repair shops, upon the shore of the creek. It was first established in its present place in 1874, and the steamers Oakland and Transit were the first boats built here....in 1878 the Solano was built. This, the mammoth steamer of the company's fleet, is the largest ferryboat in the world. ...
>
> In the car department all cars or coaches arriving from the East are thoroughly inspected, repaired, and cleaned. The yard set apart for this purpose is probably the most extensive and best fitted for the purpose in the United States. ... There are ten parallel tracks, one thousand feet long, with all necessary switches and cut-offs, running into a long brick shop. ... From two hundred to four hundred passenger coaches are cleaned monthly at these yards.

Railroad craftsmen, operators, and administrators all worked and settled at the Point in great numbers. So did local business people whose hotels, markets, iron works, livery stables, photo studios, saloons, and "female boarding houses" in one way or other served the railroad and its employees or passengers. From 1869 to the 1930s, vast numbers of Point residents are listed in directories as working for the C.P.R.R. or (after 1885) the S.P.Co. as engineers, conductors, firemen, brakemen, signalmen (or towermen - a common post after one was disabled by injury on the job), oilers, wipers, car cleaners, car builders, car repairers, carpenters, upholsterers, painters,

19. Historical and/or Architectural Importance (continued)

ship carpenters, boilermakers, blacksmiths, machinists, bridge builders, sailors, deckhands, stevedores, pile drivers, laborers, clerks, foremen, watchmen, tallymen, collectors, cooks, and porters. The S.P. treasurer, Charles Redington, lived at the Point (1678 10th), as did the S.P. physician, Western Division superintendent, paymaster, and "politicians" (Oscar Breiling, "Memories of Old West Oakland," 1935, p. 29). "The railroad's expanding gradually and employing thousands, had much to do in governing civic and political affairs and many a man in political life owed his start to his railroad connections" (Walter Johnston, "West of Market Boys," ms. c.1940s)

In the early years some carpenters were listed as employees of the "W.D.Co." and "P.I.Co." - Western Development and Pacific Improvement, land-development subsidiaries of the railroads. As Pacific Improvement Co., the West Oakland yards did much of the millwork for the construction of Stanford University. (Enquirer, July 16, 1891) Another related employer was the P.P.C.Co. - the Pullman Palace Car Company - many of whose all-black corps of porters settled in Oakland, and formed the nucleus of a notably early, large, and active East Bay Afro-American community. Almost every house in the Oakland Point district has identifiable railroad-related owners or residents somewhere in its history. From censuses, directories, and memoirs like Oscar Breiling's and those in the West of Market Boys' Journal, it seems possible that in the 19th century close to half the Point's employed residents worked for the railroad. Up to about the 1920s, railroad employees were required to live west of Adeline, to be on call for unscheduled duty. Breiling describes the "tin lunch buckets for the average 100 boarders" at the Railroad Exchange Hotel on 7th Street around 1885. Later, the Tribune reported (12/23/05) that one of the largest accounts of Breiling's own newly organized West Oakland Bank and Trust Company was the S.P. payroll: "about 5,000 men call at this bank each month for their wages." (This superseded "the old pay car," which made monthly rounds of all the job sites, paying the men in gold and silver coin, which was fondly remembered by a West of Market Boy, c.August 1940.) Because of the residence requirement, "Seventh Street was a real shopping center... it was a sorry day for the merchants when the change came." (J.M. Samuels, Seventh Street store keeper, in West of Market Boys' Journal, May 1937)

The role of the railroad in West Oakland began changing around 1910. The Western Pacific began service to Oakland that year with its own pier south of the Southern Pacific pier, having broken the S.P. monopoly in court. Also around 1910 the Southern Pacific converted its local passenger service from steam to electric power, and expanded its routes. This meant some changes in the work in the yards, and some dispersal - power stations were spaced through the region at Fruitvale, West Oakland, and North Berkeley, a new car shop was built in Alameda, and the overhead power lines required scattered headquarters for linesmen. The end of the monopoly also opened up the inner and outer harbors to development, including private shipyards and shipping terminals. World War I enormously expanded shipbuilding in Oakland, and made Oakland one of the nation's major shipbuilding centers. "During the peak year of 1920,

HISTORIC RESOURCES INVENTORY CONTINUATION PAGE

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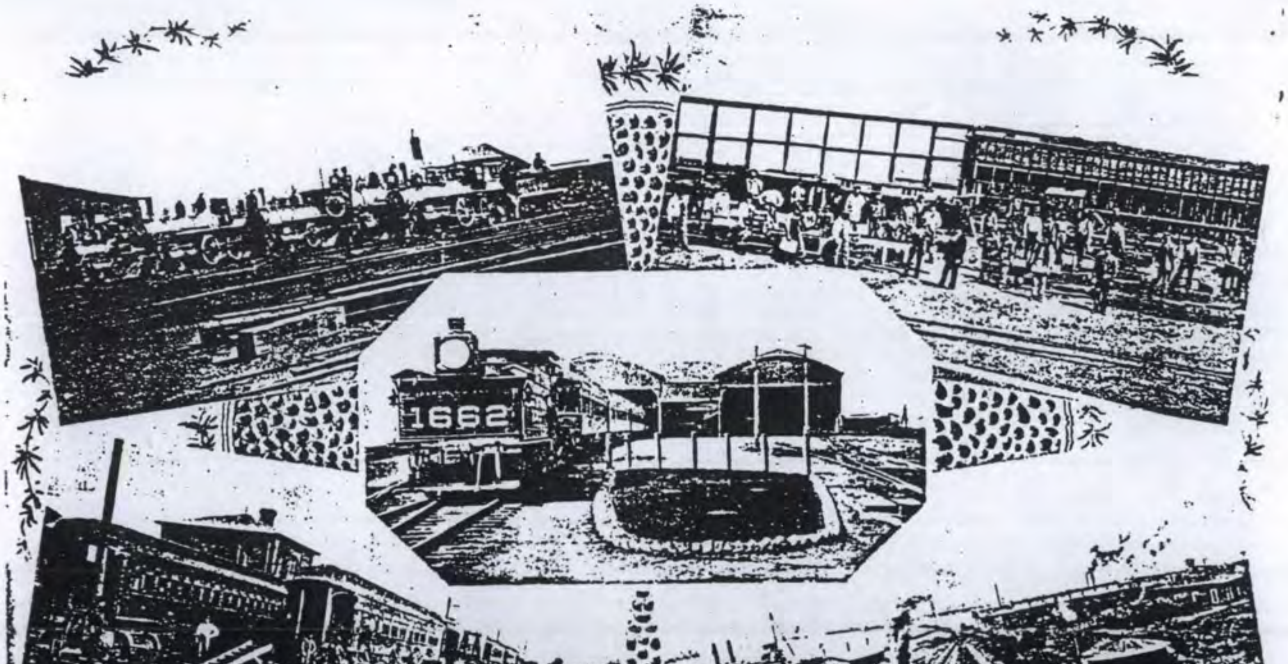
19. Historical and/or Architectural Importance (continued)

Oakland shipyards employed no less than 40,000 men or more than all other industries combined." (Hinkel & McCann, p.887) By the time new shipping terminals were operating on fill in the outer harbor in the 1920s, motor freight was competing with rail service, and auto ferry service became an important part of S.P.'s offerings. After the Bay Bridge opened, the S.P. local service vanished entirely - the 7th Street trains stopped running in 1941. Large rail yards still exist south of 7th Street, but the intimate connection with the neighborhood seems to have died out around the 1930s.

Oakland Tribune, Alameda County Illustrated, 1898, p. 145



RAILROAD YARDS, WEST OAKLAND.
The Terminus of the Central and Southern Pacific Railroads.

19. Historical and/or Architectural Importance (continued)

NEIGHBORHOOD DEVELOPMENT (National Register Criteria A: Exploration/Settlement, C: Architecture)

Maps and contemporary reports confirm the impression that the railroad made Oakland Point. The 1857 Coast Survey map (Hegemann, p. 4) shows winding roads or trails among trees on most of the present neighborhood, the short (reportedly uncompleted) Bay Street pier, and what appear to be a couple of small fenced farms. The Oakland Transcript's 1871 promotional brochure, "Information Concerning the Terminus," describes Oakland of 20 years before as part of the Peralta cattle ranch, and Breiling says that in the early 1860s cattlemen rode their horses up to the bar in the Ridley House at 7th and Cedar. The 1860 Whitcher map shows West Oakland surveyed in multi-acre plots, with Adeline and 8th the only streets, 8th Street skirting a large marsh to the south from about present-day Market to Center Streets, which isolated the Point from the rest of town.

This marsh shows on maps from the 1850s and 60s as a vast diamond-shaped area a mile or more across, with substantial creeks or inlets winding through it to the narrow, shallow channel of San Antonio Creek (now called the Oakland Estuary). Part of this south marsh was subsequently occupied by the Southern Pacific Railroad yards, maintenance shops, and shipyards, and its outer edges in later years filled for the Oakland Naval Supply Depot and Port of Oakland Middle Harbor Terminals. Another marsh area lay to the north of the developing Point neighborhood, beyond about the present 16th Street. This northern marsh is the area now occupied by industry, the 16th Street S.P. (Amtrak) station, and Raimondi (Bay View) Park northwest of the residential area. For the most part it was not developed until the 20th century, and was never residential. On the edges of this north marsh, parts of some blocks were large vegetable gardens (Willow from 14th to 16th, in the 1902 Sanborn map), and farther north it was a city dump and sewage outlet. Part of the south marsh (south of 3rd, Poplar to Cypress) was also a garbage dump until it became S.P. freight yards around the 1920s.

The marshes were enjoyed by children and duck hunters (West of Market Boys' Journal, various references) but were a recognized public health hazard. Under the heading "THE DEATH MARSH: How the West Oakland Morass Slays the Little Children," the Oakland Tribune (February 23, 1892) quoted a Dr. Maher on three cases of typho-malaria in the 1600 block of 17th Street: "The West Oakland marsh comes right up to the doors. There is no place for it to drain into and the place around the house is slimy and sloppy. The malarial complications which I have found in these cases characterize the majority of the cases down there, and there is no other explanation." (One proposed solution, not acted upon, was to cut a wide ship channel east through the marsh to Adeline Street, and use the dredging to "fill the surrounding marsh to a hygienic height" - Tribune, January 3, 1891.) The marshes remained enduring natural boundaries until the era of residential development at the Point was past.

19. Historical and/or Architectural Importance (continued)

The 1870-71 birdseye view published by Snow & Roos has the Point in the foreground, and illustrates the rapid growth prompted by the railways. The present street system is well established, and the blocks on either side of 7th west of Wood are fairly densely developed. The CPRR yards are beginning to fill in, and the mansions of Rodmond Gibbons and C.F. McDermott each occupy a full block along 7th Street at Center. This map also prominently shows the marshes.

An 1881 birdseye, looking across central Oakland to the west, shows the Point as part of an unbroken urban area from Broadway west; a fully developed neighborhood, with houses on most blocks, church steeples, and commercial buildings along the whole length of 7th Street. (In these same decades, the population of Oakland as a whole grew from 1543 in 1860, to 10,500 in 1870, to 34,555 in 1880.) The 1878-79 city directory spotlights the Point in its summary of Oakland's progress and advantages (pp. 10-11):

> LOCATION OF IMPROVEMENTS. It is always a matter of interest to know in what directions the tide of improvements is setting, and what are the causes for the preference of one locality over another in a city advancing to a great position in population and influence. Oakland has two leading thoroughfares - Broadway, running north and south, and Seventh Steet or Railroad Avenue running east and west. The latter owes its importance to the local railroad. At the various stations along the street business centers have been created, which may be said to owe their existence to the railroad. The most westerly station, at the Point, has assumed greater proportions and a more active business than the others, from its proximity to the Central Pacific Railroad shops, which give employment to a large number of men, who mostly reside in the neighborhood and trade at the local shops. The vote of this ward is considerably larger than that of any other in the city. The growth of this section is enhanced or retarded somewhat by the progress of railroad work, and by its prospective future course. The climate at the Point is fresher, cooler and more bracing than that farther away from the bay. To most people this is deemed desirable, while it is avoided by others in different circumstances of health. Building in this section has been fairly active during the year. There are fewer vacant lots in proportion to those already occupied than in other parts.
>
> Passing up to Center [Street] Station, we find that all the vacant ground in the vicinity is rapidly being improved. Fully one hundred houses of the better class were built during 1878, within a radius of one-fourth of a mile from the station. The value of improvements in the territory naturally tributary to this station was not less than half a million dollars during the past year.

19. Historical and/or Architectural Importance (continued)

> Good two story houses are to be obtained upon the installment plan on Eighth, Ninth, Chester and other contiguous streets, on most favorable terms.

The 1878 Thompson & West map shows the same changes in another form - all the big plots at the Point are now laid out in a grid of blocks with named streets and tracts and city-size 25' to 40' lots. Some of the early tracts shown on this map are Toland, 1868 (Wood-Campbell, 10th-11th), Casserly, 1867-69 (Wood-Campbell, 8th-9th), Bay View Homestead, 1868-69 (the South Prescott neighborhood) and Bovee Tract, south of 8th and west of Wood. Dates of the 845 existing buildings in the district show the same pattern: 16 probably built in the 1860s, 290 in the 1870s, 274 in the 1880s. In the boom decade of the '70s, of buildings which can be precisely dated, about 10 per year date from 1870 to 1873; about 30 each date from tax years 1874-75 and 1875-76, 50 from 1876-77, 65 from 1877-78, 32 from 1878-79, and 17 from 1879-80. The heaviest later building years were 1884-85 and 1888-89, with 50-plus each. (The oldest house in the district, the 1858 Watts house at 1436 Peralta, was moved there in 1898 from the Watts Tract in north Oakland. The probable oldest house originally in the district, Rodmond Gibbons' "Folly" of roughly similar date, was located on 7th between Chester and Center, but removed in its last vestiges sometime in the 1980s.)

The extant pre-1869 houses are all located on or west of Wood, from Goss to 10th Street (and one more is at 714 Pine in the now-separate Oakland Point ASI). One is an early San Francisco merchant's two-story Italianate villa - 801 Wood, home of Quincy Chase of Kohler & Chase pianos. The rest are 19th century vernacular, minimally Italianate or Greek Revival cottages and 1-1/2 story houses. The original owners of some of these 1866-69 houses are identified as carpenters, and they may well have built their own homes (e.g. 941 Pine, 930 Wood). A statement in the 1878-79 city directory may shed some light on early building practices, and the many houses at the Point that seem to incorporate a small, early vernacular cottage or saltbox in a slightly later, more fully-developed house:

> Dwellings of more humble pretensions, mostly built for homes by the workingmen of the city, are by far the most numerous of all... It may be stated, however, that many of these consist of only a beginning of a house or rear part, as hundreds who have purchased lots for homestead purposes are not at once able to build a house complete, but are anxious to secure the use of their lot and to save rents. All this indicates thrift and a permanent accession of the bone and sinew of the country in the most desirable shape - that of property-owners.

By the early 1870s, the area had two large-scale developers. John Winfield Pearson, a speculator, farmer, rancher, and lumber mill owner with property all over the Pacific Coast, by 1871 had settled in a "large and magnificent residence at Oakland Point" and was developing houses there. Of the existing

19. Historical and/or Architectural Importance (continued)

houses in the district, 1767 and 1771 11th Street (1871-72), 1782 8th (1873), 1671 11th (1874-75), and 1709 12th (1875-76) are identifiably his (from tax rolls). "Pearson's Row" on the west side of Pine had about 20 cottages, and there are almost certainly others unidentified: the News (July 27, 1874) referred to his "determination of tenanting his end of the city." Sketches of Leading and Representative Men in 1875 said he owned "one hundred and ten tenement houses in the city of Oakland ... intends to build a great number ... and has twenty or thirty houses under way at the present time."

About the same time as Pearson, John Ziegenbein settled at 1004 Peralta (1870-71). Ziegenbein was a German-born San Francisco produce commission merchant who went into land development in West Oakland "and did more than anyone to furnish homes to the people of the First Ward," building almost 300 "houses of plain design but substantial workmanship" and selling them on the installment plan (obituary, Tribune, January 17, 1889). The Enquirer obituary (same date) praised him as a benefactor who enabled people to own homes and kept "a large force of men almost constantly employed" over a period of 18 years. City directories regularly mentioned him in their reports on the year's building improvements - 35 houses in 1879-80, "about 30" in 1880-81. The Enquirer obituary identified Peter Swanson as his foreman at that time, and a group of houses in 1874 (938 to 1102 Chester) appear to have been built in collaboration with Bacon & Dinsmore, but who did the actual building or design for Ziegenbein is not known. About 100 of his houses have been identified among the existing buildings in the district, from tax records and occasional newspaper building lists. The largest number are close to his own house, along Peralta, Chester, Center, Henry, 8th, and 9th Streets, and are one- and two-story 1870s Italianates of two or three fairly standard designs. In the '80s he was building Stick houses and cottages, apparently one or two at a time rather than in larger tracts (850 and 866 Pine, 1454 and 1456 9th, 927 and 931 Chester, 1537 and 1531 9th). Ziegenbein's houses may have been "of plain design" but they were not backward in style - by the late '80s he was building Queen Anne cottages (872 and 876 McElroy, 1218-1234 Campbell, 1101-1125 Peralta). His groups of matching houses still give Oakland Point architectural coherence and a distinctive identity.

Other people besides Ziegenbein and Pearson developed smaller tracts of houses at the Point in the 19th century. French mining engineer Amedee Blanc and collector Aime Fossard developed a particularly striking group of eleven Stick cottages at 12th and Peralta (1884-86), which they kept as rentals for many years. Ann Harris owned a group of 7 Queen Anne rental houses (1011-1111 Center, 1887-88) which were apparently developed by H.S. DeFremery. The DeFremery family, whose 1867 estate outside the Oakland Point District at 16th and Adeline is now a city park, were capitalists with enterprises citywide; so were Galindo & Glascock, who developed and sold 9 houses at 1105-1135 Wood Street in 1884, and show up as developers in marsh areas elsewhere in Oakland. Many neighborhood residents developed a few houses for rental or sale. Some were early large landowners subdividing their property: Christian Bagge, a Danish farmer (1321 Peralta, 1660 14th), Quincy Chase, San Francisco music dealer (801-835 Wood, 1872-73 and 1884-85), Ferdinand Koenig, a brewer who owned and developed the block at 13th and Willow now occupied by a park (1651-1653 14th, 1885-90). Others were local merchants and tradespeople: the Hufschmidt family, plumbers (1725 and 1729 10th etc.), candy manufacturer August Albrecht (1552-1560 8th at Peralta, 1876- 77), stove and tinware dealer James de la Montanya (717-729 Willow etc., 1889-90). Some were carpenters, who very likely built the groups of houses they owned: Patrick Dempsey (710 and 714 Henry, 1877-78), Peter Sorensen (921-933 Willow, 1881-82), Alvin B. Tarr (1414 10th, 1882; 919 Cypress, 1885-86; 1438 10th, 1889-90), Joseph Pettitt (929 and 933 Wood, 1889-90).

A look at the list of names and dates in the district, and at the houses themselves, reveals many more neighborhood residents who owned two or three houses, usually matching, and lived in one and rented the other(s). These small landlords represented all the occupations found in the district - grocers, artisans, building trades, railroad employees at all levels, factory and laundry workers, widows, waiters, saloon and boardinghouse keepers, not much different as a group from their tenants. Large and small houses mix in all parts of the neighborhood, giving at least partial support to early accounts and reminiscences of the Point as a place where class lines where unimportant. Censuses and voting registers show that many households also had unrelated lodgers - often traveling railroad men. Tenants moved frequently, especially railroad workers, and for some houses no residents can be identified. On the other hand, some residents - both owners and tenants - stayed in the same house for 50 years and two or three generations, up to and beyond World War II.

By the time John Ziegenbein died, Oakland Point was in many ways fully developed. 582 of the district's present buildings were in existence - 70% of all buildings now there, 80% of those built before 1910. Only 85 were built in the whole decade of the 1890s, 78 in the 1900s, and 24 in the 1910s. 1888-89 was the last big boom year for construction - 50-plus buildings in the district, as well as many commercial buildings adjoining the district on 7th Street. West Oakland in the late 1880s and early 1890s is the classic West Oakland remembered by the generation who became old timers in the 1930s and 40s, and described in detail in their West of Market Boys' Journal and elsewhere.

An important part of all these early descriptions of the district is the transportation system - trains, streetcars, and horsecars. The Point was well served by transit: the 7th Street local trains from 1863, by the late '70s a horsecar line out 14th from downtown to the SP station at 16th and Wood with branches to Wood and 7th Street (the 14th Street Railway/Consolidated Piedmont Cable Co. carbarn, 1450 14th Street, is a relic of this system), and after about 1891 a network of electric street railways passing within 2 blocks of anywhere in the Point (map in Oakland Enquirer, July 8, 1893). Stations and transfer points supported lively business centers at 7th and Wood, 14th and Peralta, and 17th and Peralta. Like housing, transit at the Point was

19. Historical and/or Architectural Importance (continued)

virtually fully developed by 1893: the coming of the Key System, which consolidated Oakland's street railways in 1903, meant mostly a change of administration of the Point's existing services, while elsewhere in Oakland it created whole new streetcar suburbs. These new neighborhoods perhaps drew away some of the Point's upwardly mobile residents, and thus the Key System accelerated social changes in the district.

Building at the Point after Ziegenbein's time was mostly infill. In the early '90s the Baseball Grounds tract was subdivided on 14th east of Center. The ball field (also used for exhibition fights and a Wild West show - Breiling, p. 44) was part of the property of the Contra Costa Laundry, a major local employer. On this block Elias Fred Sandelin, a 7th Street druggist, developed several houses (1410 to 1420 14th) between 1894 and 1900. Other late houses went onto lots created out of large single homesites: the group of high-gabled shingle style houses at 9th and Peralta (1522 and 1532 9th, 912 Peralta; 1899-1900, A.W. Smith, architect) are on lots sold off from the grounds of the Gensoul mansion where peacocks once roamed (now the site of St. Patrick's Convent, 920 Peralta). Once the district was built up, the way to improve one's living standards was to enlarge and modernize an existing house. Sometimes tax records describe and assess the work ("new front," "raised," etc.), and sometimes there is only the visual evidence of the building itself. A good example is 1454 8th Street, the Samm-Dalton house, an early industrialist's large 1877-78 Italianate transformed in 1895 by another manufacturer-politician into an elaborate Queen Anne. Others, out of many, are 1717 and 1730 8th, 1740 11th, 1414 and 1685 12th, 1477 14th, 1115 Chester, 840 and 1436 Peralta, and 824 Wood.

Somewhat ironically, architects' and builders' names are recorded only after the Point's heyday of development. From California Architect and Building News, Edwards Transcripts, and, after 1905, city building permits, architects' names can be attached to 31 buildings before 1920, the earliest an 1884 Stick cottage by Thomas Newsom (722 Henry) and the next an 1889 Queen Anne cottage by A.W. Smith (1526 9th). A prolific and original architect active in the East Bay from the 1880s to c.1930, Smith has 7 other identified or attributed houses in the district, dating from 1898 to 1902 (919 Center; 912, 1031, 1035, and 1039 Peralta; 1522 and 1532 9th Street), making him by far the most-recorded architect at the Point in its later years. Other major Oakland architects and builders of the 1890s and 1900s have a house or two known at the Point: Charles Mau (who lived in a Ziegenbein house at 1004 Chester in his youth) designed 1477 8th (1892) and 1620 14th (1905), 905 Willow (1890-91) is by A.W. Pattiani, 1748 9th (1901) by Cunningham and Politeo, and C.M. MacGregor was the builder for Smith's 912 Peralta and 1532 9th. John Conant and Albert W. Cornelius (1410 8th, 1894), F.W. Delanoy (1406 8th, 1894), J.C.S. Whalin (718 Henry, 1892; 823 Wood, 1896), and Fred Voorhees (1216 Willow, 1902) are other turn of the century architects who found at least one job at the Point.

By about 1890 and especially after 1900 it was common to build flats, or

19. Historical and/or Architectural Importance (continued)

convert older houses (though occasional flats and side-by-side duplexes were built from the earliest years). A few are part of the residential building boom that followed the 1906 earthquake, but most are earlier: Oakland Point outside the marshes was fully built up, and did not strongly participate in either the Key System boom or the earthquake boom that are so important elsewhere in Oakland. Only about 25 buildings in the district date between the earthquake and 1910. The post-earthquake building boom took place mostly in close-in undeveloped areas like Adams Point and Glascock's marshland north of Lake Merritt (Waverly Street), and in areas newly opened by expanded Key System and Southern Pacific transit service. The effect on West Oakland, in a sense, was secondary: its homes began to look older by comparison, and less desirable. In 1912 Myron Wurts developed 8 similar Craftsman speculative and rental houses in two clusters (1230 to 1240 Willow, 1689 13th, 815 and 817 Henry, 830 and 834 Peralta). After that only a building or two a year was added to the district, and increasingly these were commercial. Here and there, residents built or rebuilt homes in Prairie, bungalow, and Mediterranean styles, as well as some late Colonials which are barely distinguishable from pre-earthquake ones. There are only about 14 of these later-styled houses in the district (e.g. 1414 Campbell, 1716 9th, 1427 Campbell, 1788 9th, 911 Wood).

The Hegemann report (1915) published a map showing "distribution of individual dwellings built in Oakland in 1914", with the comment that "West Oakland has become to a considerable degree industrial and few homes of any kind are being erected." This did not mean that industry was replacing homes, however. New industries came into West Oakland in the 1910s, but mostly to the marsh area bordering the District around the 16th Street Station (e.g. Oakland Mazda Lamp Works, 1600 Campbell Street, 1910-17) and to new terminals in the Outer Harbor. (An exception is the Shredded Wheat factory, 1914, on 14th Street in the Oak Center neighborhood to the east, considered to have started the decline of that area.) At the Point, the California Door Company and Wentworth Boot and Shoe Factory near the station were old established uses (and employers), as were the rail and shipyards, and the Dalton Foundry and Pacific Coast Canning Company along the shoreline west of Pine Street from about 10th to 14th Street. A map of "Industrial Development as of December 31, 1929" in the 1930 Tribune Yearbook still shows only these sites, surrounding a solidly residential district not much different from the present boundaries.

Through the 1910s, 20s, and into the present, stores, gas stations, churches, restaurants, and even a theater (1488 14th at Peralta) continued being built in the district in small but steady numbers, the adjuncts of a living residential neighborhood. In the 1921 Tribune Yearbook West Seventh Street (from Market to Bay) was described as "By far the largest of [Oakland's] business subcenters ...with 227 retail stores of which 52 are grocers and meat markets, and 5 drug stores." (The next largest had 122.) For years it was said that one could live one's whole life without ever needing to leave West Oakland.

19. Historical and/or Architectural Importance (continued)

When Oakland was first zoned in the early 1930s the entire Point west of Poplar was zoned industrial, and the zoning remained so until 1974. Industrial development still took place only along the fringes - Phoenix Ironworks and other large complexes along Pine, additional Outer Harbor development. Major change came to the neighborhood in the form of residential redevelopment. Beginning in 1939, following studies by the WPA and the city (which documented the need for the project by means of maps locating substandard housing, juvenile delinquency, disease, and "non-white families"), the 154-unit Campbell Village housing project was constructed by the new Oakland Housing Authority with federal relief funds on the 2-1/2 blocks bounded by 8th, 10th, Willow, and Campbell Streets. Soon afterward a larger similar project, Peralta Villa, was built 3 blocks west between Cypress and Union Streets (see resource inventory form for 935 Union Street). Accounts of neighborhood reaction to the plan ("Riot Over Housing Disrupts Council," Post-Enquirer 7/14/39; "Confiscation and Discrimination Charges Are Made," Tribune 4/14/39) and later recollections suggest that this was a real social and economic breaking-point for the neighborhood, though the Depression-era deterioration and population shifts which prompted the study and the project were real. One of the West of Market Boys in 1939 wrote of "the wrecked and weatherbeaten shacks on either side of the street that were well kept and happy homes when I was a boy"; black activist C.L. Dellums and the Labor Non-Partisan League campaigned for needed low-rent public housing, and part of the public opposition was that houses elsewhere in the neighborhood were in worse condition than those selected for redevelopment.

Further physical changes came during World War II - houses and commercial buildings were extensively remodeled to create emergency housing (1125 Campbell, 1650 14th, 1405 Campbell, 1727 12th, 1620 13th, 1411 Peralta), and the division and expansion of single-family houses into rental units accelerated, to the extent that today almost every cottage has a basement unit, often dating from the '40s. A third housing project was built in 1942 by Moore Shipyards for its war workers on the old McDermott estate between 7th, 8th, Center, and Cypress; this is the ancestor of the present Westwood Gardens project on that site. (There were also at least three temporary wartime dormitory complexes in the industrial areas adjoining the district.) In the postwar years, in the mid-1950s, the district was reshaped by freeway construction along Cypress Street, cutting the "West of Market" neighborhood in half and brutally isolating the west half - the Point - from the rest of Oakland. Construction of the rapid transit station and main post office around 1970 destroyed what remained of the local commercial and social center along 7th Street and much of the residential area south of it. The Point residential district, though, is still largely intact if isolated: in the words of historian Tom Wolf (Peralta College Oakland history course), "from the West Oakland BART station you can see a 19th century suburban village."

SOCIAL, CULTURAL, AND ECONOMIC LIFE AND INSTITUTIONS

West Oakland before World War II has a Golden Age reputation which appears in too many sources and in too many forms to be pure promotion or pure nostalgia. The keynote is always that the community was a melting pot of classes, nationalities, races, and, for that matter, land uses.

West of Market Boys' Journal, Oct. 1950:

> Everyone at the Point, be he laborer, mechanic, business or professional man were all neighbors. No class lines were drawn. No poverty, no bread lines, and few wealthy people. Wages were not large, hours of work rather long, but everyone was satisfied and happy.

William McFarland, "That's That," Western American (a black Oakland newspaper), April 29, 1927:

> Here Briton, Teuton, and Slav, yellow men, Latin and Black live and toil in an atmosphere of peace and harmony... A comradie (sic) of good fellowship has grown among them that cannot be found in any other spot along the Pacific Coast. Here men are workers and beneath the grime of honest toil beat hearts of purest gold.
>
> Here churches are plentiful and well attended and spacious schools... there no mansions; here are no slums... Here tenant owns the home and takes pride in the love of possession... Here girls are prettier, boys are stronger and babies capture the blue ribbons of excellence. Here the sun shines brighter and the birds warble sweeter and all nature lends lavishly of her charms.
>
> There are many other reasons why we like West Oakland, but these will do for the present.

(Neighborhood boosterism is of course perennial: in the Oakland News of May 20, 1875, "The Point people...brag in the manner and form following, to-wit: They have the two largest vegetable gardens; the largest laundry; the biggest windmill, the only shipyard, the most waterfront, the greatest numbers of prospective railroads, the shortest distance to the city of San Francisco," and so on.)

The largest collection of West Oakland vignettes is found in the West of Market Boys' Journal, published monthly from 1936 to 1959 by an organization of old-time West Oaklanders, by that time mostly living elsewhere and unabashedly dealing in nostalgia. The most extensive of these detailed first-hand accounts is the series "A Sightseeing Tour of West Oakland in the Late Eighties and Early Nineties" written by Ed Anthony, M.D., in 1939-41, a

19. Historical and/or Architectural Importance (continued)

house-by-house and person-by-person tour which vividly evokes the lively, prosperous neighborhood, fleshing out the names and occupations and addresses normally available to historians in censuses and directories and block books, and recording the vanished 7th Street businesses and the constant travel that animated the area. A sampling:

> That red building to my right in the distance is the Round House and the framework in the foreground is the S.P. Shipyard. At times the carp are so thick in the mud flats out there the all that is required to go fishing is a club...boys come here and dig for clams which they sell to housewives in the neighborhood (or)...to Charley O'Gara at the Fire House on Eighth Street and Charley makes clam chowder for Bill Ennis, the driver of the Fire Engine, ...Mike McGuinn the driver of the Hose Cart, and others ... There have been so many accidents at this crossing where the Berkeley Local and Oakland Trains speed around this curve to enter the Oakland Mole that it has been named 'Death Curve.' This is Bay Street ... Railroad men take a pride in their watches ..., so Mr. Fry, the jeweler next door, is kept busy repairing their watches. This section ... is a regular rendezvous for politicians. Guess that there is soon to be election as I see a group of prominent S.P. politicians with their heads together up the street. The big man ... is Wm. McKenzie, master mechanic. The others are Dan Robertson, master bridge builder, Al McKeen and W.B. Ludlow, master car repairers. Ludlow's hobby is gardening. He has a hot-house containing rare plants from all over the world [on 8th, now Campbell Village]... Right here on the corner is Lozier's Grocery. Mr. Lozier is a fine, generous men who has a large book account and he is liked by all of the people in this neighborhood. The railroad strike at a later date broke him...
>
> Just look up Eighth street ..., those tall poplar trees, as far as the eye can see. This is one of the prettiest drives in Oakland ... Many of the business men and bankers doing business in San Francisco and living in Oakland drive down Eighth street in the morning in their classy victorias and board the train at the 'point station,' and they are met at Wood street on their return in the evenings by their wives. I recall Mrs. Pedar Sather and her fine span of horses and coachmen who were often seen along this highway...
>
> We will now drive north on Pine street passing the home of Patricks, an S.P. fireman, and next the McCuens, Billy, Ada, Kittie, George and Jack. Fred Clifford, a car inspector for the S.P., lives in there on Maple street. Over here on this corner is the home of Billy Norton, Chief Train Dispatcher of the S.P. Capt. Tietgen lives next door with Alfred Champreux and his family. Frank Carman, a carpenter, and Jensen, the tailor, live in the

19. Historical and/or Architectural Importance (continued)

next two houses. Across the street is what is known as "Pierson Row." Wm. Wilkinson lives in the first house. He is a carpenter for the S.P. Billy is a fireman. George is employed by the same company. He was later killed in a railroad accident...

John and Pat Fannon, S. P. employees, live over there. John Ziegenbein, a real estate dealer in San Francisco and the subdivider of this section, lives in that large white house with the attractive gardens. He has a son Johnnie and a daughter, Annie. ... G.L. Curtis, a capitalist and horse fancier lives in that large house across the street facing Campbell St. He has a son, Burt, who is in the police department ... Andy Ryder, an old time S.P. main line conductor, lives in that large home this way. It is reported that he is about to retire on a pension and that he has sold his home to Father McNally who is going to use it for a parish house ... Some women, returning home from a Methodist Church meeting, were passing the Ryder home after it had been purchased by Father McNally. Father Mac was remodelling the house to accommodate more people. One woman said to the other "I wonder why they are enlarging that house?" Another spoke up, "Father Mac's family are coming home."... That is St. Patrick's Church across the street. The old white horse and phaeton parked in front is the transportation system of Father Mac ... adored with reverence by all who know him. He is a political power in West Oakland and any candidate for election who has his endorsement can just consider himself elected...

There to our left is the Second Congregational Church, whose congregation included such families as the Hanfords, Ludlows, Youses, Surrhynes, Woodalls, etc. The pastor is the Rev. Frear who lives on Peralta Street. ...

Josiah Gibbs is a carpenter and does some collection work on the side. Hiram Hatch, a carpenter lives over there. His wife is a dressmaker. Looking down Willow Street toward Seventh, Thad Phillips, a Pullman porter, lives upstairs over that store... Mose Morris, a wealthy Pullman porter, lives in the next house ... he has two daughters, Elaine and Lettie, who at a later date was a bookkeeper for the Contra Costa Laundry ... in that large house around the corner on Campbell Street Wm. Wagner ... is a capitalist and one of the officers of the West Oakland Building and Loan Association ... It is here [W.O.B. & L.] that Andrea Sbarboro is making so much money that he is going into the banking business in San Francisco and is also promoting the Italian Swiss Colony ... As we were driving along 12th street and Willow, I forgot to mention a family of some consequence on 13th St. Wm. W. Henry is a commission merchant in S.F. He has two daughters ... Aurelia now Dr. Aurelia Reinhardt, President of Mills College...

19. Historical and/or Architectural Importance (continued)

In this memoir and in other records, the great number of railroad jobs stands out, along with a few other large local employers like Contra Costa Laundry and California Door Company; the endless variety of all other trades and professions making up a self-sufficient community; and the mixture of large and small houses and large and small businesspeople side by side. The number of working women in notable - wives and daughters of working men as well as single women and widows - as dressmakers, bookkeepers, teachers, laundry workers, proofreaders and compositors, keepers of notions or fancy goods stores and boarding houses, as well as less common occupations like physician and real estate agent. In the 1880-81 Pacific Coast Business Directory listings for West Oakland (at that time "a distinct post office") there are at least 15 businesses headed by women, fancy goods and bakeries the most numerous.

San Franciso commuters not only passed through on 8th Street, they lived at the Point, and they too had jobs at all levels. Several residents worked at the mint or the custom house (e.g. Andrew Hollywood, 1668 12th), and there were printers, carpenters, and machinists who held jobs across the bay as well as merchants and manufacturers who owned San Francisco businesses, like Quincy Chase (801 Wood; pianos), showcase manufacturers John Dixon and Charles Borgeson (neighbors at 925 and 927 Willow), commission merchants William Henry (whose house no longer exists) and John Ziegenbein (1004 Peralta) and Austin Hills (1558 8th, later of Hills Bros. Coffee), and dry goods merchant John F. Hink (938 Chester, later of Hink's department store in Berkeley).

Oakland industrialists who lived at the Point in the 19th century included Henry Dalton (1454 8th), whose ironworks was located along Pine; Jacob Samm (1454 8th before Dalton) and John C. Westphal (1475 8th, gone; rental property at 1477 8th) who ran Samm & Westphal's Bay City Flouring Mill downtown, Thomas Corder (932 Center) who had a tannery and stockyard in Emeryville, saw manufacturer Nathan Spaulding (1040 Peralta), Ira Martin Wentworth (1626 14th - destroyed by the Loma Prieta earthquake) whose boot and shoe factory adjoined the 16th Street Station, Thomas Henneberry (1685 12th) who owned the Phoenix Foundry at 1st and Castro, brewer Ferdinand Koenig (rental houses survive at 1657-1661 14th), and Daniel Hayes who built firetrucks (1501 8th).

Most of the proprietors of neighborhood businesses lived in the area, sometimes above the store: the Zeisses and Breilings of the Western Market (later Liberty Hall, 1485 8th: see SHRI) and surrounding rental property; the Bullock plumbing family (1626 and 1630 12th, 823 Center, 1558 8th), restaurant keeper John Cumbelich (718 and 720 Henry), candy maker Christian Schrieber (1107 Willow), William Walsh of the Center Junction Cash Grocery and saloon on the flatiron block at the north tip of the district (1615 Center), 7th Street druggists Charles Morey (824 Wood) and Elias Fred Sandelin (1410-1420 14th, 1001 Chester), baker Conrad Thaler (1502 and 1516 8th), grocers John and Matthew Nunan (822 and 824 Henry) and Rose and James Curran (1042 Willow), and many other grocers, butchers, saloon keepers, plumbers, hardware dealers, and

HISTORIC RESOURCES INVENTORY CONTINUATION PAGE

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19. Historical and/or Architectural Importance (continued)

other proprietors, as well as their employees.

Many Point residents worked as building tradesmen or artisans, alone or as employees: carpenters, plumbers, machinists, painters, plasterers, metalworkers, etc. Some of the carpenters who appear as original owners of houses may have been the builders: Beriah Fisher (941 Pine, 1867-68), Thomas Johnson (930 Wood and 1733 10th, 1868-69), Maxwell Long (1798 9th, c. 1868), Zeno P. Nickerson (819 Willow, 1875- 76), Charles Lougee (1523 8th, 1875-76), Alex Bruce McDonald (1010 Wood, 1876-77), Willim Tuggey (1514 Peralta, 1877-78), Thomas Cogan (1744 8th, 1881), Alvin B. Tarr (1414 and 1438 10th, 1882 and 1889-90), Silas Carle (1309 and 1311 Center, 1882-83), Peter Svenson (905 Pine, 1883-84), Joseph Pettitt (929 and 933 Wood, 1889-90), Hyacinth Gil (1442 and 1448 10th, 1880-81 and 1891-92).

Several residents classified themselves as farmers or ranchers, or in mining, and Barbados-born whaling master William Shorey (1782 8th Street - see resource inventory form) made his living on the high seas. John Treadwell, 926 Center, was part of a well-known Alaska gold mining family that later developed coal mines and brickyards in the Livermore area. Rodmond Gibbons, of Gibbons' Folly and the S.F. & O. Railroad, was apparently another retired miner ("accentric," according to Breiling). Christian Bagge, who arrived in the 1860s and owned a whole block at 14th and Peralta, probably operated as a "farmer" right there; Laban Langley, called a farmer in the 1890s when he lived at 1422 9th Street, and some other Langleys on Willow called ranchers, may have had their acres outside the Point by that time. The 1892-93 directory lists H. Yoshiike's nursery at 16th and Willow with "ornamental evergreens, flowering shrubs, greenhouse plants, new and rare chrysanthemums and roses." The Grondona family, long a name in the Oakland Produce Market, had vegetable gardens at the north end of the district and lived nearby along Wood and Willow north of 13th, now site of warehouses and a 1980s townhouse project. One other open-air occupation was that of George Van Haltren, professional baseball player (941 Center, 737 Henry).

Point residents were active in various ways in city and neighborhood civic affairs. Saw manufacturer Nathan Spaulding (1040 Peralta) was mayor of Oakland in 1872-73. Henry Dalton (1454 8th) and Eugene Garrison (1144 Peralta, 1472 13th, 1527 8th) both served as county assessor, one starting as a foundry operator and the other as a timekeeper for the S.P. William Hynes (1421 17th) ultimately became District Attorney. Breiling concluded in 1935 that Oakland's "...judges, and county officials, are practically to a man, products of West Oakland" and named Dalton and Walsh among the neighborhood's "old time politicians" (p.18, 32). Charles Redington (1678 10th), S.P. paymaster and treasurer, served on the Board of Education in the early 1900s. Captain Shorey and his wife were active in black philanthropic affairs, and a street at the Point has borne their name since 1907. Father McNally, who presided over St. Patrick's (Catholic) Church for 35 years (1878-1913), was a political as well as spiritual power in the First Ward.

19. Historical and/or Architectural Importance (continued)

Residents in other types of public service included police officers (Bert Curtiss, 1101 and 1107 Campbell; Patrick Hynes, 1421 17th; Dennis Holland, 903 Pine), firemen (see SHRI for Engine Co. No. 3, 1681 8th Street), and teachers. St. Patrick's residence, now at 1625 11th, housed the anonymous teachers of the parochial school. Teachers at the Prescott public elementary school - established 1869 - lived in the district (Ed Anthony gives names: they were mostly women, largely Irish, and rarely householders). Thomas O. Crawford (1531 9th) was principal of Prescott School in the '90s, after serving as superintendent of the Home for the Blind on Telegraph Avenue; he also ran a private boarding school on or near Peralta Street. Charles Burckhalter (914 Chester) was a prominent astronomer and director of the Oakland school department's Chabot Observatory. Lillie Stetson (831 Center) taught at the West Oakland Free Kindergarten at Peralta and Pacific, and other district residents worked at the West Oakland Home for orphans (incorporated 1888). Luke Parker (720 Peralta) was curator of the West Oakland Free Reading Room.

Like the commercial district along 7th Street, early West Oakland institutions - churches, schools, halls - scarcely exist as buildings today. St. Patrick's Church is represented by its rectory (moved to 921 Chester), the teachers' residence (1625 11th), and the convent (920 Peralta), but the school and the church itself were replaced after World War II. Prescott School is also a new building: the church and school, which adjoin Campbell Village, are now part of the gap in the Point historic district, at least for National Register purposes, instead of its centerpieces. The storefront at 712 Peralta which replaced the 7th Street Free Reading Room as the branch library in 1907 still exists, but the library branch was moved to 18th and Adeline, east of the freeway, in 1977. The West Oakland Home was on the Campbell Village site, the Free Kindergarten where the new post office is. The first site of the Fannie Wall Children's Home, a black institution founded in 1918 and at this location until 1928, still stands at 1215 Peralta, now a private house. Sole survivors of the numerous lodge and social halls at the Point are Liberty Hall, 1485 8th (listed on the National Register), originally a store and flat, converted to civic use in the 1920s, first by Marcus Garvey's Universal Negro Improvement Association and then by Father Divine's Peace Mission; and the former Alcatraz Lodge Masonic Hall just south of the district at 715 Peralta, built in 1899 and totally remodeled in 1943 for wartime housing. One union hall survives at 1716 7th Street, in the 7th Street commercial district fragment, where C.L. Dellums headed the Brotherhood of Sleeping Car Porters from 1934 to 1978.

Around 1890 there were at least 11 fraternal, social, and labor halls in the Point, among them Hansen's Hall at Wood and Goss, a political meeting place, Germania and Cavalry Halls favored by the "social element" (Breiling, p. 8), and Kohler's Hall at Center Street Station where the Brotherhood of Locomotive Engineers, the Yard-Masters' Association, the Odd Fellows, and a number of other organizations met (Enquirer, July 22, 1886). The Masons, Foresters, Knights of Pythias, Druids, Woodmen of the World, American Legion of Honor, Ancient Order of United Workmen, Knights of Honor, Chosen Friends, and Young Men's Institute all had at least one branch at the Point. The 1872-73

19. Historical and/or Architectural Importance (continued)

directory lists a skating rink at Pearson Hall, NE Wood and Railroad Avenue, O.P. (Oakland Point). There was a West Oakland Ladies' Aid Society (Times, April 18, 1878) and a West Oakland Improvement Association (Enquirer, Aug. 17, 1889). At least five newspapers are known from scattered references and directory listings to have operated at least briefly: the Semi-Tropical Press, 1874, the West Oakland Home Journal, c.1886, West Oakland Herald, 1888, West Oakland Star, c.1890, and West Oakland Sun, c.1892-93.

If the tales of Father McNally are to be believed, the Point in the 19th century was close to being a one-church town. St. Patrick's was established in 1878 as an offshoot of St. Mary's downtown for a community of predominantly Irish railroad workers, and today "after changes upon changes" (the title of its centennial booklet) it is still a spiritual and community service center in the neighborhood, notably through the housing and job development activities of Jubilee West. The one extant historic church building in the district is the Chester Street Methodist Episcopal Church, 835 Chester, built in 1888-89. (About 1920 it became the Parks Chapel A.M.E. Church, and when Parks Chapel moved uptown, the True Light Church of God in Christ.) In the 1890s there were two other Methodist Episcopal churches at the Point, Norwegian-Danish (Campbell near 9th) and Swedish (10th and Center). Others were Second Congregational, on Chase between Wood and Willow, St. Andrew's Episcopal at 9th and Cypress, and a second Catholic church, St. Joseph's at 7th and Chestnut, a Portuguese national parish. St. Joseph's was established in 1891 to serve the large Portuguese community in South Prescott and to some extent the growing Italian and Spanish-speaking communities (Italian and Slavic immigrants were also absorbed by St. Patrick's). Still farther east of the Point proper, serving another group of its residents, was the Shiloh A.M.E. Chapel, located at 7th and Market from 1863 to 1884. Organized in 1858 "in a small house on 5th Street near the Point" when the black residents of Oakland and Brooklyn numbered about 40, this was one of West Oakland's earliest churches, and a social and educational center that probably helped establish Oakland's Afro- American community near the Point even before the railroad came. The San Francisco A.M.E. church organized camp meetings in the fields near Shiloh in the 1860s (Hausler, 1984). The present-day descendant of Shiloh Chapel is First A.M.E., located at 15th and West Streets from 1884 and now relocated to 37th and Telegraph not far from Parks Chapel. Churches in the district today are probably as numerous as ever, and belong almost entirely to black denominations. Except for 835 Chester, they are a mixture of converted houses and storefronts and postwar church buildings. Besides True Light C.O.G.I.C., they include Morning Star C.O.G.I.C. (745 Willow, 1945-46); Mount Zion, True Light, and New Bethel Missionary Baptist Churches; New Jerusalem, Mt. Carmel, and Center Street Baptist Churches, and Mt. Zion Spiritual Temple (West Coast Kingdom, 1488 14th).

19. Historical and/or Architectural Importance (continued)

ETHNIC GROUPS (National Register Criterion A: Ethnic Heritage: European, Black)

Oakland Point's churches probably embody the district's ethnic history better than any other institution or activity: a large, early, and dominant Irish community; an early, small, close-knit black community, which grew to a majority by the mid-20th century; a fairly large but little discussed Scandinavian presence; successive waves of Portugese, Italian, and Slavic immigrants from the 1880s to the 1920s. There was also a large German immigrant community from the earliest years (several German Lutheran and M.E. Churches, and synagogues, were located outside the Point), a small but visible Chinese and Japanese population, and a gypsy band at the Point, along with the (probably scant) majority of British and Anglo-American residents. A look at the historic names - owners and residents - in the district property list provides a cross-section of the many nationalities at the Point between the 1860s and World War II. The history of the Point in the 20th century can be described as a changing ethnic population in a basically unchanged 19th century built environment.

The 19th century Point evoked by Ed Anthony and Oscar Breiling was predominantly a Yankee and northern European immigrant community, with small numbers of other races and nationalities whom these majority memoirists regarded as both neighbors and exotics. Estimated numbers of European-born and black residents in Oakland as a whole (Hinkel & McCann, 1939, v.I, p.366), extrapolated from census data for selected nationalities, probably correspond generally to proportions at the Point:

	1870	1900	1910	1930
England, Scotland, Wales	420	3382	5304	7674
Ireland	1150	3664	4160	3175
Germany	559	4223	5476	4778
Sweden, Norway, Denmark	19	2598	4794	1551
Italy	38	816	3800	6350
France	122	707	1205	1334
black (wherever born)	55	1026	3055	7503

Figures for Portugese and Slavic immigrants are not included in these estimates, though they were a recognized presence at the Point; in the 1930 census there were about 3000 Poles, Czechs, Austrians, Hungarians, Yugoslavs, and Russians, and about 3500 Oaklanders from Portugal and the Azores.

19. Historical and/or Architectural Importance (continued)

Censuses and directories as well as memoirs show that there was always some job specialization among nationalities, prompted sometimes by experience and tradition abroad and sometimes by local prejudice. The Centennial Yearbook of Alameda County (1876, p. 553) said that in 1851 "communication with San Francisco was by launches and whaleboats manned by Portuguese, who would pull across the bay when there were passengers enough to make a load." Sailing and fishing were frequent occupations for Portuguese Oaklanders, many of whom came from the Azores and Hawaii. Many also worked for the railroads, more often as laborers than as engineers or carpenters. In the present Point district, their homes seem to have been scattered; the local Portuguese enclave was across 7th Street in South Prescott (see Bay View Homestead Tract district form).

German names are prominent from the Point's earliest years as merchants and landowners: Ziegenbein, Hufschmidt, Fuchs, Hink, Schrieber, Hoppe, Scholl, Gohrman, Zeiss and Breiling, Gernreich and Thornburgh, Samm and Westphal, Thaler, Albrecht, Kohler, and many more. Germans farther down the economic scale seem generally to have worked more as artisans and independent tradespeople, and less for the railroad, than other national groups. The absence of a German church at the Point proper also suggests that, like John Ziegenbein, many were freethinkers who "did not belong to any church or secret society" (Enquirer, Jan. 17, 1889). They lived and worked throughout the district: there does not seem to be a recognizable German neighborhood. Scandinavians were sometimes popularly classed with Germans: Breiling (p.12) called "Captain Baggy" "an old-fashioned German" (Theodor Bagge, Danish capitalist; see Christian Bagge house, 1321 Peralta. The point of Breiling's story is that Bagge "nevertheless had the French idea for frogs," raising them on the grounds of his home). The Larsens and Hansens and Nissens and Petersons and Andersons who lived throughout the district often worked for the railroad as carpenters and sailors, or independently in the same occupations.

French immigrants lived at the Point in fairly small numbers, and do not figure prominently in the folklore. Amedee Blanc and Aime Z. Fossard developed a notable group of rental houses at 12th and Peralta in 1884-86. Blacksmith and firefighter Aime Sicotte who lived on 8th Street next to the firehouse (outside the district) was often mentioned for his civic role; Ed Anthony remarked on Sicotte's neighbor Mrs. Melquiond, and her recent immigrant French boarders whose children wore berets and harnesses. There seem to have been a number of French and French-Canadian carpenters and stair builders: Hyacinth Gil (1442 and 1448 10th), Camille Gamp (1417 15th), and the Peter Dubois household which included (English-Canadian) architect Leo Nichols.

The Point's Italian community began small but became a powerful presence by the 1910s and 20s. From the earliest years there was an Italian capitalist element at the Point: the 11 incorporators of the West Oakland Masonic Hall Association in 1876 (News, March 13, 1876) included F. and Natale Gamboni and Andrea Sbarboro of the West Oakland Building and Loan Association, and G. Beretta (1733 10th). Paolo Bacigalupi was another of the earliest residents

19. Historical and/or Architectural Importance (continued)

of the district (1729 11th, 1670-71). Later, when the Italian community was larger, distinctive occupations appear to have involved food and produce - grocery stores, bakeries, gardens, and canneries. Breiling and Anthony both remember "Garibaldi," a neighborhood character of the '90s: "Every child in West Oakland knows Garibaldi and they all fear him. He is a gardener who wears a red flannel shirt, grizzled whiskers, ear rings, and a little cap. A dirk knife in his belt...Garibaldi is not his real name, I will not attempt to spell it. He makes his own 'Dago Red.'" The Grondona vegetable gardens at 13th and Wood apparently lasted into the 1930s.

Much of the new construction in the district after about 1910, both residential and commercial, was done by Italians: houses and flats of Antonio Bertola (1124 Center, 1907), Peter Ratto (1616 15th, c. 1912), Francisco Taramasso (1614 14th, 1915-16), Peter Brocchini (1794 9th, c. 1915), Pasquale Andreuccetti (1220 Peralta, 1921-22), Theo Ninatti (1423 Peralta, 1926), Paul Zarubbi (1730 9th, 1930) and others; stores and gas stations of Gaetano Cuneo (1522 Peralta, 1925), Giacomo Ratto (1600 Peralta, 1928), Luca Catera (1448 14th, 1938), Italo Cencini's winery (1522 Peralta), and others. Even the builders were Italian: Pio Benassini (1220 Peralta), Pietro Delucchi (several buildings including 1522 Peralta and 1629 14th), Charles Ungaretti (1427 Campbell). John Zunino, a West of Market Boy, wrote in 1946, about the St. Patrick's Day celebrations at old St. Patrick's (then being demolished): "One year I took part, playing my little old squeeze box, and on looking over the program I discovered that mine was the only foreign name on the program, the rest being all Irish. In later years, things began to change, as they often do. The old families began moving out of the old neighborhood little by little, until few were left. I'll never forget an entertainment at St. Patrick's where the entertainers were either Slavs or Italians, and only two Irish names appeared in the program." The five-fold growth of Oakland's Italian population between 1900 and 1910 has been attributed to North Beach residents moving from San Francisco after the earthquake (Eleanor Edwards, "Memories of West Oakland," The Montclarion, July 7, 1982, summarizing oral histories).

Slavic and East European immigrants lived and worked at the Point from the beginning in small numbers, and like the Italians became a large community after 1900. Besides the many who worked for the railroad, their early specialization both downtown and at the Point seems to have been restaurants: Novakovich and Kesovia's restaurant at 1790 7th Street is listed in the 1886 directory, and others later. Slavic names are numerous among the owners of new houses after about 1906: John Cumbelich (720 Henry, 1908-09), Martin Savlovich (834 Peralta, 1912), P. Meloslavich (815 Henry, 1912), John Trebotich (911 Wood, 1919), John Tumpich (1663 11th, 1923), Michael Krka (1225 Peralta, 1925-27), Vincent Radovan (734 Henry, c. 1940s). Unlike the Italians, in this sample at any rate, they do not appear as owners of commercial buildings. Common occupations in the 1920s and 30s are driver, factory worker, metal worker.

19. Historical and/or Architectural Importance (continued)

Another small but visible and established ethnic group at the Point was the Chinese. There was always a major Oakland Chinatown near the central business district, but Chinese workers were dispersed through the city, including the Point. Despite their histroic association with the railroads, Chinese workers are not prominent in accounts of the West Oakland yards, which the News (July 27, 1874) said employed "mostly white men." The Tribune on September 7, 1874 reported under news of the Point that W.C. Gray, in charge of dredging at the shipyard, "found himself minus a crew as his Chinamen bucked on him and quit. He is now hiring white men to do the work." Ed Anthony reminisced about throwing stones from the train at a Chinese laundry on 7th Street, and about how "our China cook, Ah Shoo, and Gee Nye, Fred Sandelin's cook, always chipped in to give a real Fourth of July to the neighbors." The Oakland Enquirer's West Oakland correspondent (Aug. 17, 1889) mentioned "Chinese lotteries" as a local nuisance. What later made the Chinese a special presence at the Point was the Pacific Coast Canning Company, established by Lew Hing on two blocks at 12th and Pine in 1903-04. "Lew Hing was the largest single employer of Chinese in the area and by 1911, one of Oakland's largest businesses. There were 1,000 employees hired at peak season." (Jean Moon Liu, Lew Hing; A Family Portrait, p. 8) Lew Hing himself lived downtown, but the cannery complex included large "Chinese quarters" (Sanborn map, 1935), and even before the cannery opened, another Chinese property owner, Yee Sue Kwai, was building nearby (flats and store at 1216 Willow and 1698 12th, 1902 and 1905-06). By the 1920s other homes near the cannery (1137 and 1118 Wood) were owned by Lew Tye, Ed Lew Wing, and Lew Shang Hubert, all associated with Pacific Coast Canning and possibly related to Lew Hing.

West Oakland today is a predominantly black neighborhood - 81%, according to the 1980 census, and about the same in 1950. This large majority, as is well known, dates from World War II, but African-Americans have a long and prominent history at the Point. Like the Irish, they owe their presence at the Point as a group to the railroads. The census for Oakland City puts the number of black residents in 1860 at 18 and 55 in 1870 - the tiny community which, with a few neighbors from Brooklyn, established Shiloh A.M.E. Church and a series of schools for their children. In the 1869 Oakland city directory - the earliest published, and one of two which identify individuals as "colored" - there are 11 black breadwinners listed. Two lived at the Point - J.P. Stewart, a hairdresser (the leading occupation, with 3 listings), and Rev. Abraham Gross, pastor of the "African Church." By 1874, the other color-coded directory, there are about 80 listings. Brooklyn had been annexed bringing in 13 waiters at the Tubbs Hotel, but more importantly, the transcontinental railroad arrived in 1869 with the institution of the Pullman Palace Car and its porters. In 1874, 18 porters with the Central Pacific Railroad were listed with the address "Oakland Ferry Wharf." Besides porters, barber Oscar Jackson (see resource inventory form for 714 Pine Street) and two widows were the only black residents listed at the Point. "Oakland Ferry Wharf" probably referred to company housing; 4 porters that year gave private addresses (3 downtown, one at the Point). Before long, many of these traveling workers established residence - as lodgers, renters, or homeowners -

19. Historical and/or Architectural Importance (continued)

at the Oakland terminus of the railroad where the Pullman car shops and porters' quarters were located.

By 1880 the number of black Oaklanders was 593, 644 in 1890, 1026 in 1900, 3055 in 1910, 5489 in 1920, 7503 in 1930, 8462 in 1940, and 47,562 in 1950. The community of 500 to 1000 in the late 19th century was "enough to support an increasingly complex social structure"; and businesses "multiplied in the growing market along the western part of Seventh Street ... many offering services their owners had learned to perform as employees ... barbershops and beauty salons, carpentry and painting establishments, dress shops, restaurants, retail shops, and bars and clubs" (Crouchett, p. 10-11). J.M. Acty (1620 14th) had a coal yard on 7th Street by 1902. Whaling master Capt. William Shorey settled on 8th Street in the 1880s, was active in black civic and self-help organizations and in 1903 entertained Booker T. Washington at his home (see resource inventory form for 1782 8th Street). A series of black newspapers were published in Oakland (west and otherwise) from 1892: the Illustrated Guide, the Oakland Sunshine, the Western Outlook, the California Voice, the Western American. "In a long letter to the Oakland Enquirer in 1892, Rev. R.A. McGwinn, pastor of Beth Eden Baptist Church, summed up the advantages of Oakland, where housing was better and cheaper and employment more plentiful than in San Francisco. He noted that 'those who have been here long enough to net any earnings have readily seized the opportunity to own their own homes' (Crouchett, p. 15). Despite the low wages paid to porters, many did become homeowners at the Point, and new arrivals did choose Oakland over San Francisco - for the economic reasons given, and because there was already an established black community. (In the 1920 census San Francisco had 2414 black residents out of 506,676, while Oakland had 5489 out of 216,261.)

Porters spread the word as they traveled the country, and more and more settled in Oakland. In the 1910 census the Point begins to show a large number of homes occupied as lodgings by groups of porters and railroad cooks and waiters, with or without wives who might work as domestics, dressmakers, private nurses, or keepers of the lodging houses. Porters William Vance and Simon Dedrick, from Texas, became nationally known when they saved their wages, bought homes, left the railroad, and opened a restaurant at 7th and Wood Streets which was written up in the New York Colored American Magazine in 1905.

In 1907 the Pacific Coast Real Estate and Employment Company was organized at 1696 7th Street to serve this growing population, reportedly the first black business of its kind in the East Bay. In 1915 Charles Tilghman published a Bay Area black directory, in which Oakland businesses predominate, and photos proudly illustrate "homes owned by our race." In 1919 an Oakland and East Bay Negro Business League was established (Crouchett, 17-18).

This period also saw the beginnings of the important cluster of black popular music clubs along west 7th Street, beginning with the Creole Cafe (which closed in 1922 due to "lack of patronage by the Race"), through the great days

19. Historical and/or Architectural Importance (continued)

of Slim Jenkins' "most celebrated black nightclub on the West Coast," 1933 to 1962 (Lee Hildebrand, "Where the Train Stopped," The Express, June 1, 1988). "It was maybe not baby Harlem, but if one existed it probably was" ("oral account" quoted by Mary Cardwell). Another aspect of this entertainment district involved what Douglas Daniels (Pioneer Urbanites, p. 59ff) calls "travelcraft" - a sort of latter-day underground railroad - since visiting black performers were excluded from most hotels (except the California in North Oakland - see SHRI for 3501 San Pablo Avenue), and usually stayed with neighborhood residents.

Most of Seventh Street and its businesses are gone. A few 1920s-30s stores and homes of black business owners survive and are identified in the residential district: these include Phoebe Evans's store and flats at 1229 Peralta (1927-38), a rental owned by furniture dealer James Bridges (1434 15th), and the home and shop of hairdresser Gertrude Foney (1480 8th).

Despite the real growth in black businesses and widening of job opportunities (notably in civil service and the industries which expanded after the opening of the waterfront and during the first World War), as late as 1929 it was estimated that 60% of black Oaklanders' income came from the railroads, 30% specifically from the Pullman company (1930 East Bay Colored Business Directory, cited by Stuart Henry, p. 9). In the mid-20s Dad Moore and C.L. Dellums, Oakland porters who had "learned of the Brotherhood through Eastern Porters coming into the Quarters" (International Brotherhood of Sleeping Car Porters, silver jubilee program, 1950) organized a West Coast branch of A. Philip Randolph's union, originally called San Francisco Local No. 1 but renamed Oakland Division "because most of the porters reside in Oakland, the Headquarters then was in Oakland, the sign-out office is in Oakland, and all of the trains with the exception of a few S.P. trains to Los Angeles operate out of Oakland" (ibid). Union headquarters was at the Point, first at 517 Wood (post office site), and from 1934 to 1978 at 1716 7th Street. There was also a Dining Car Cooks and Waiters Union local at 705 Peralta in the 1930s. The Brotherhood became doubly important in the '30s, when employment opportunities shrank due to the Depression and African-Americans again found themselves restricted to railroad work and "going down to the sea in ships" (Dellums). It was also an important training ground and example for black leadership and activism: Dellums' nephew Ronald, who now represents the East Bay in Congress, and Ruth Acty (1629 14th), the first black teacher in the Berkeley public schools, are two of many leaders from families of porters.

The period roughly from the 1906 earthquake to the end of the Depression is the era remembered as the golden age of the West Oakland melting pot. Royal Towns, born in the early 1900s and a longtime West of Market Boy as well as a civil rights activist and historian, provides the apotheosis of the legend (quoted by Douglas Daniels, Pioneer Urbanites, p. 75):

> The day I was born, I heard all these different women,... Mrs. Moriah, Mrs. Tracy, Mrs. O'Brian, Mrs. Silva, Mrs. Riposa, and

19. Historical and/or Architectural Importance (continued)

> Mrs. Filotta, all those different names, I said, 'Doctor, hey, doc, what kind of a place is this where all these people of different nationalities come to help this old Black woman with her baby?'
>
> And he said, 'This is West Oakland.'
>
> And I said, 'Well, jeez, West Oakland must be a heaven on earth. It must be a really fine place.'

Black homeownership expanded in the 20th century. "By 1910, approximately 200 of Oakland's 3,055 black residents owned their own homes. By 1930 the number would be 700, but blacks could no longer buy anywhere they wished. In the 1920s South Berkeley became the prestige address for successful middle class blacks" (Crouchett, p. 22), and directory information on Point (and Clawson) residents confirms that South Berkeley was a common destination. The racial restrictions that came into use in housing tracts opened during and after the 1906 earthquake boom would become a greater issue later, when more Point residents wished to leave, though in 1918 the irony of the City Council approving one such ordinance "on the day an all-black army unit... left Oakland for World War I" (Crouchett, p. 21) was not lost on the community.

Though Towns and others recalled that, on a personal level at least, "the place was a checkerboard" and "there was none of this racial business" (Tribune, May 6, 1973, "Oldtimers Salute West Oakland"), it was in the '20s that Marcus Garvey's separatist UNIA established a branch at Liberty Hall (1485 8th Street), and other black self-help institutions existed, such as the Fannie Wall Children's Home in the Point district (founded 1918; 1215 Peralta). Father Divine's Peace Mission (1485 8th) and the black YMCA and YWCA branches (outside the district) became important relief agencies during the Depression. One old-time German-Amercian West Oaklander (Donald Mockel, oral history at Oakland History Room) blamed the Depression for the end of the era when "West Oakland was everybody," saying that "Okies and Arkies brought Jim Crow in." When federal relief came to West Oakland in the form of low rent housing projects, a concerned Italian-surnamed resident protested:

> Where will the three or four hundred families who are tenants find other houses to move into? Here in West Oakland there are no houses for rent. They are all occupied. As about 60 per cent of these families are colored they will not be welcome in many sections of the town even if they do find vacancies and can meet the higher rentals. Are they to be turned adrift? (Michael Santi, Tribune, 5/11/39)

One of the charges at the city council hearing (Tribune, July 14, 1939) was "that the Authority intends to discriminate against the Negro race with a 'Jim Crow' project," "where Negroes, whites, and other races have mingled harmoniously for years." Indeed, the "non-white families" map in the project

Address: Oakland Point District

Serial Number: NONE

19. Historical and/or Architectural Importance (continued)

study shows that the blocks proposed for the housing project were among those with the most black residents. The map also shows that many blocks at the Point, south of 12th and east as far as Adeline, were by this time home to 25 or more black families. The blocks along Pine, which protesters said were in worse condition and should have been demolished instead, seem to have housed fewer minorities. A citizens' committee appointed by the mayor reported (Tribune, 12/29/39) that the targeted houses were "in good condition, or could be made so," that "property owners constitute at least half of the residents," and that "there is in both the areas a community spirit that is worth preserving. This community solidarity, the result of a slow growth, cannot be transferred." C.L. Dellums concentrated on making the Housing Authority integrate the projects, got Campbell Village "checkerboarded every floor, every unit," but achieved only "integrated segregation" (building by building) at Peralta Villa, and "lily-whitism" at the third project, Lockwood in East Oakland (Dellums, pp.72-73).

By the time the projects opened, the U.S. was in World War II. "Between 1942 and 1945, slightly more than 50,000 black people moved to the East Bay" to work in shipyards and other war industries. Oakland's Kaiser and Moore shipyards sent labor recruiters through the south; "newcomers outnumbered the old community by five-to-one. ...Old houses in West Oakland... were suddenly occupied by as many as 50 men, often sleeping in shifts... Families living in small apartments or bungalows took in boarders" (Crouchett, pp.45-49). To crowding was added unemployment when the war industries closed, and widespread discrimination when black residents tried to move to other districts. Still, the district experienced a moderate postwar building boom of its own; the new St. Patrick's Church, Mount Zion M.B.C. (1203 Willow), Morning Star C.O.G.I.C. (745 Willow), and a score of small commercial buildings, restaurants, and storefront additions, as well as residential additions and modernizations, date from the late '40s and '50s.

"In 1949 the Oakland City Council declared West Oakland, by then 85 percent black, to be a 'blighted' area, a designation which made it a prime target for massive demolition... Population figures for the Prescott district of West Oakland record the destruction: 22,000 in 1950 11,000 in 1970, and fewer than 6,000 in 1980" (Crouchett, p.56). Major losses in Prescott - Oakland Point - were the whole 7th Street commercial core and much of the neighborhood south of it, and the sense of connection to the rest of Oakland when the freeway and the Acorn project east of it were constructed. This isolation has to some extent kept the remaining "19th century suburban village" at the Point from receiving much attention, either destructive or beneficial, from local government: it remains to be seen what will be done with this resource, important to Oakland for both its 19th century development and its 20th century social history.

HISTORIC RESOURCES INVENTORY CONTINUATION PAGE

Address: Oakland Point District Serial Number: NONE

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HISTORIC RESOURCES INVENTORY CONTINUATION PAGE

Address: Oakland Point District

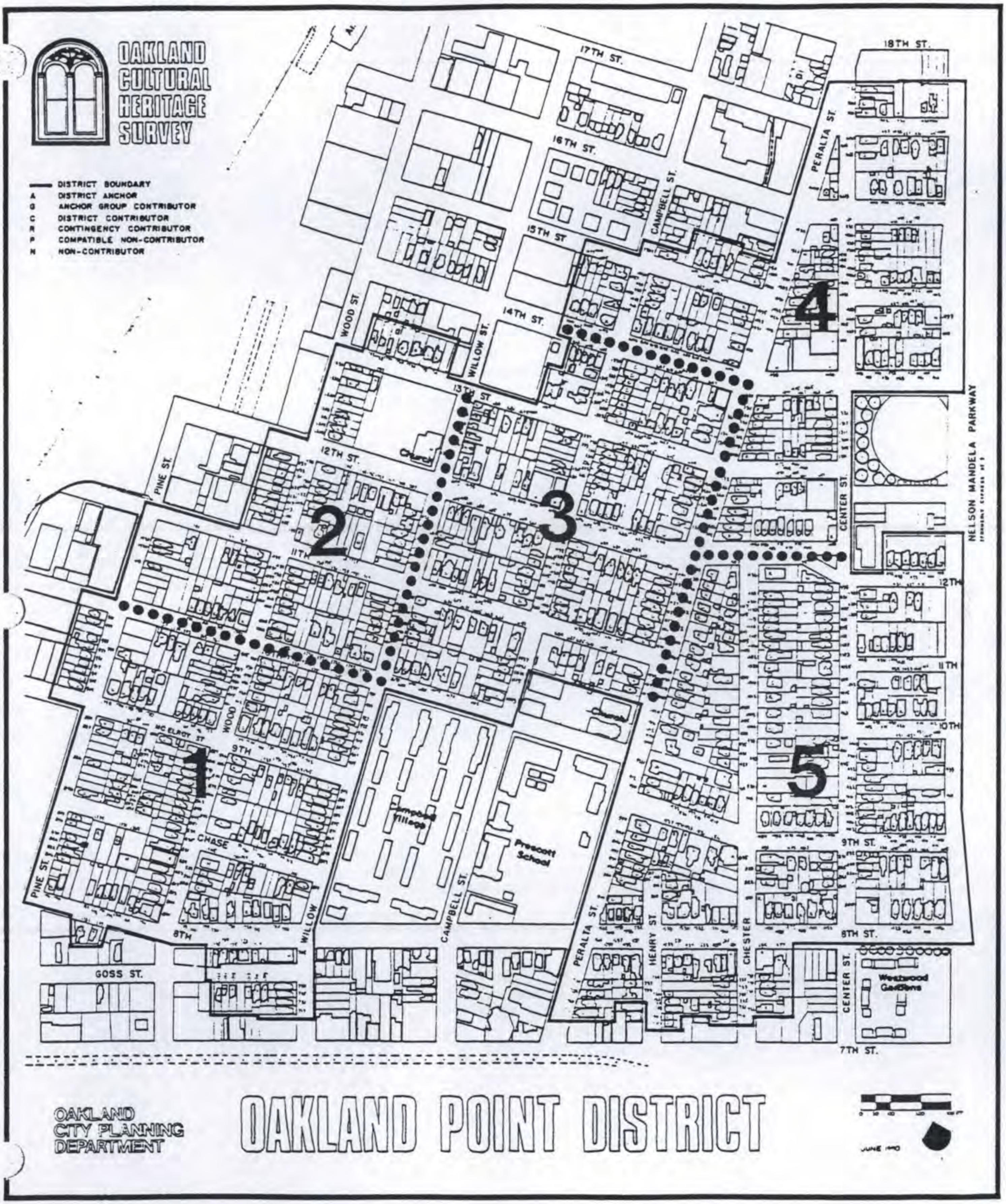
Serial Number: NONE

Photo number: 465-16
Photo date: 07/29/87

1011, 1015, & 1019
Center St. (1887-88)

Photo number: 465-3
Photo date: 07/29/87

819, 823, 825, & 831
Center St. (1877-78)


OAKLAND CULTURAL HERITAGE SURVEY
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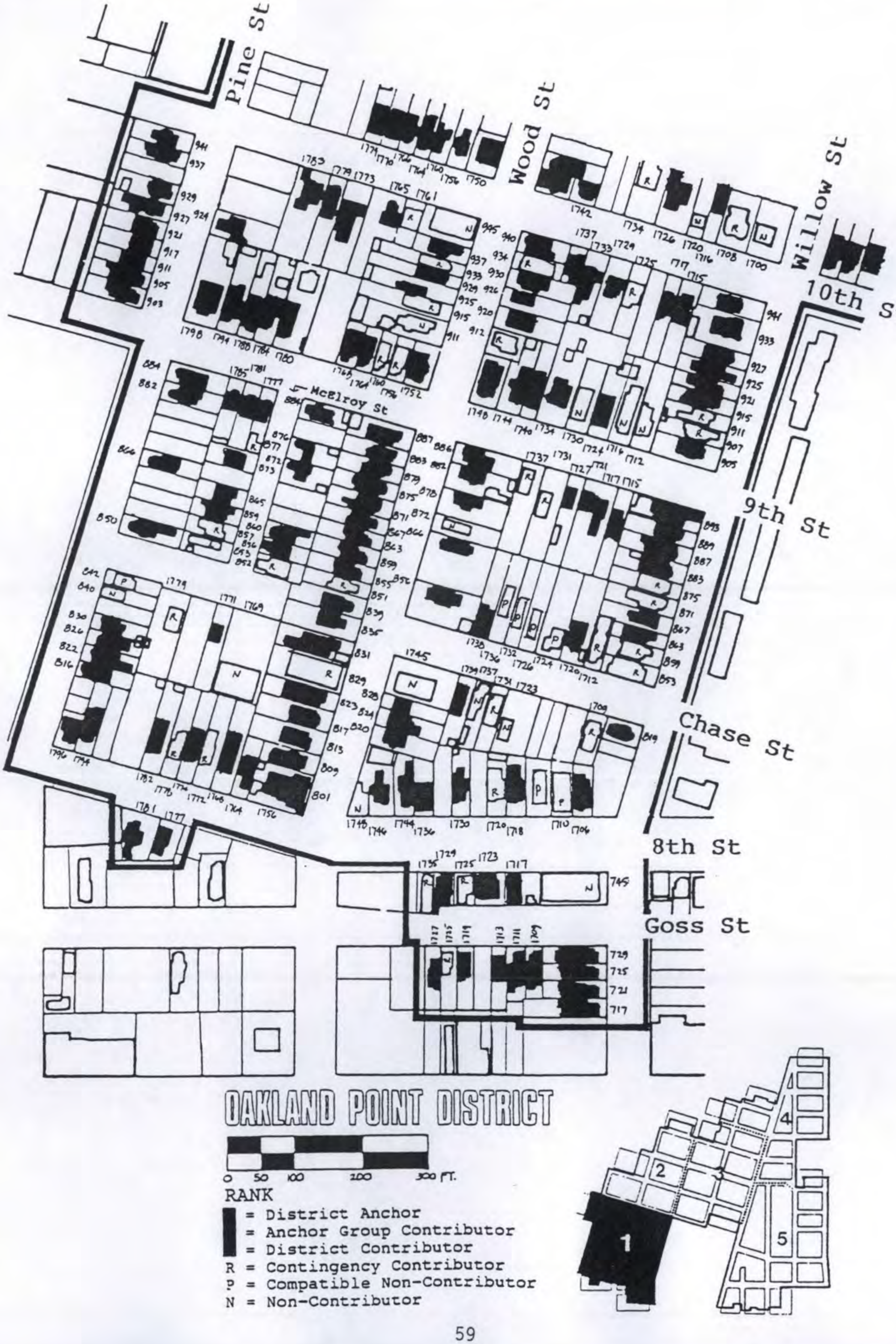
OAKLAND CITY PLANNING DEPARTMENT
OAKLAND POINT DISTRICT
JUNE 1990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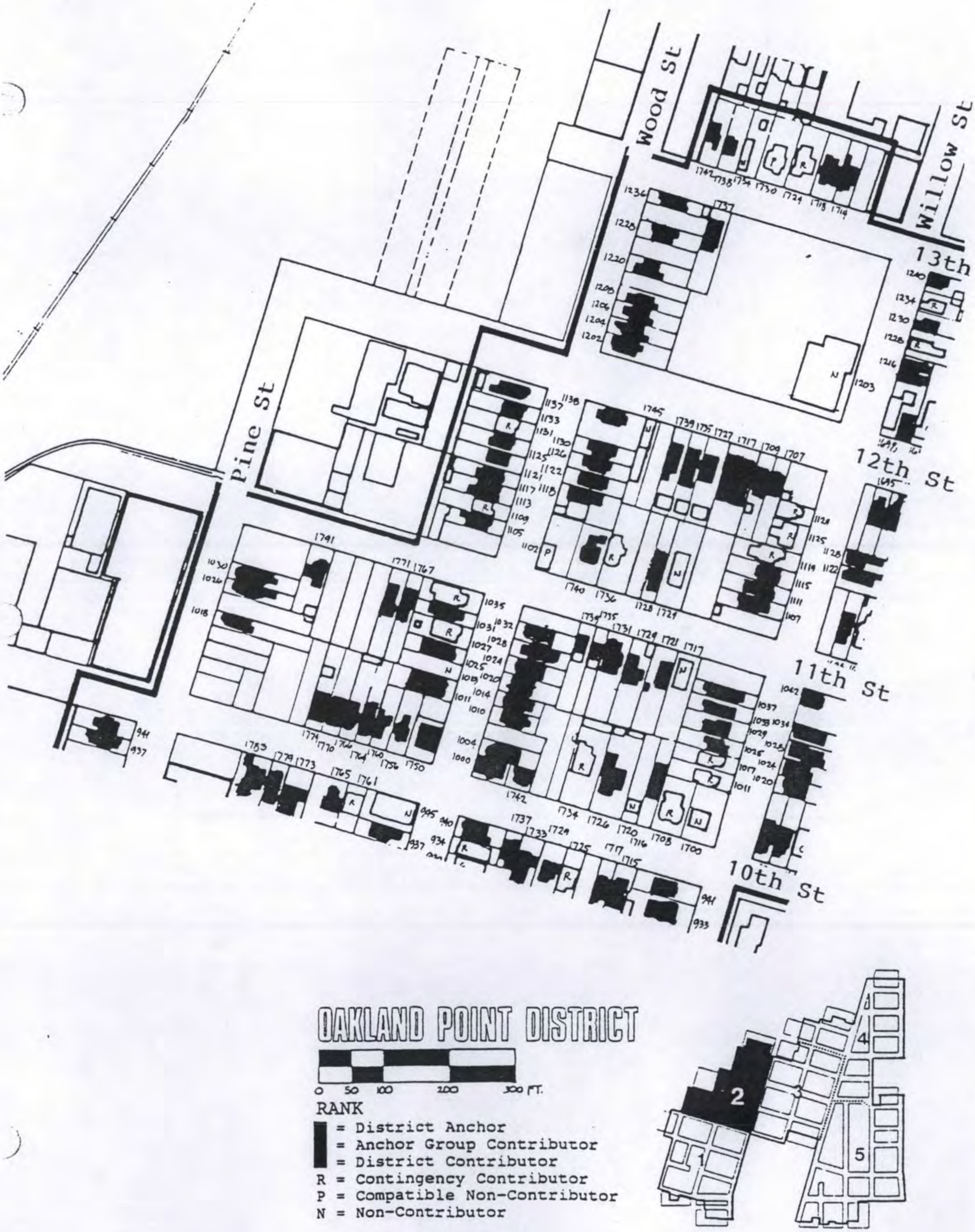
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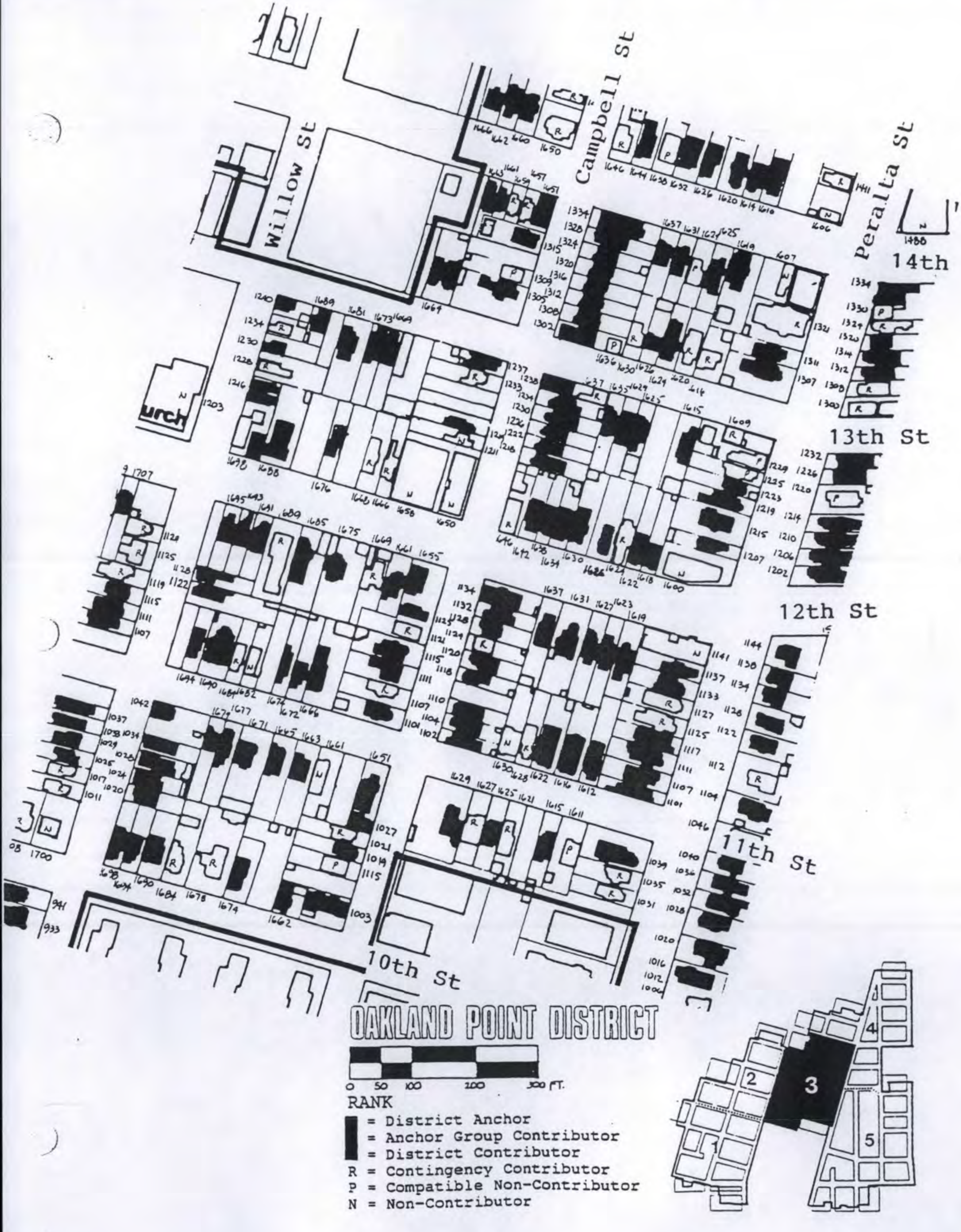
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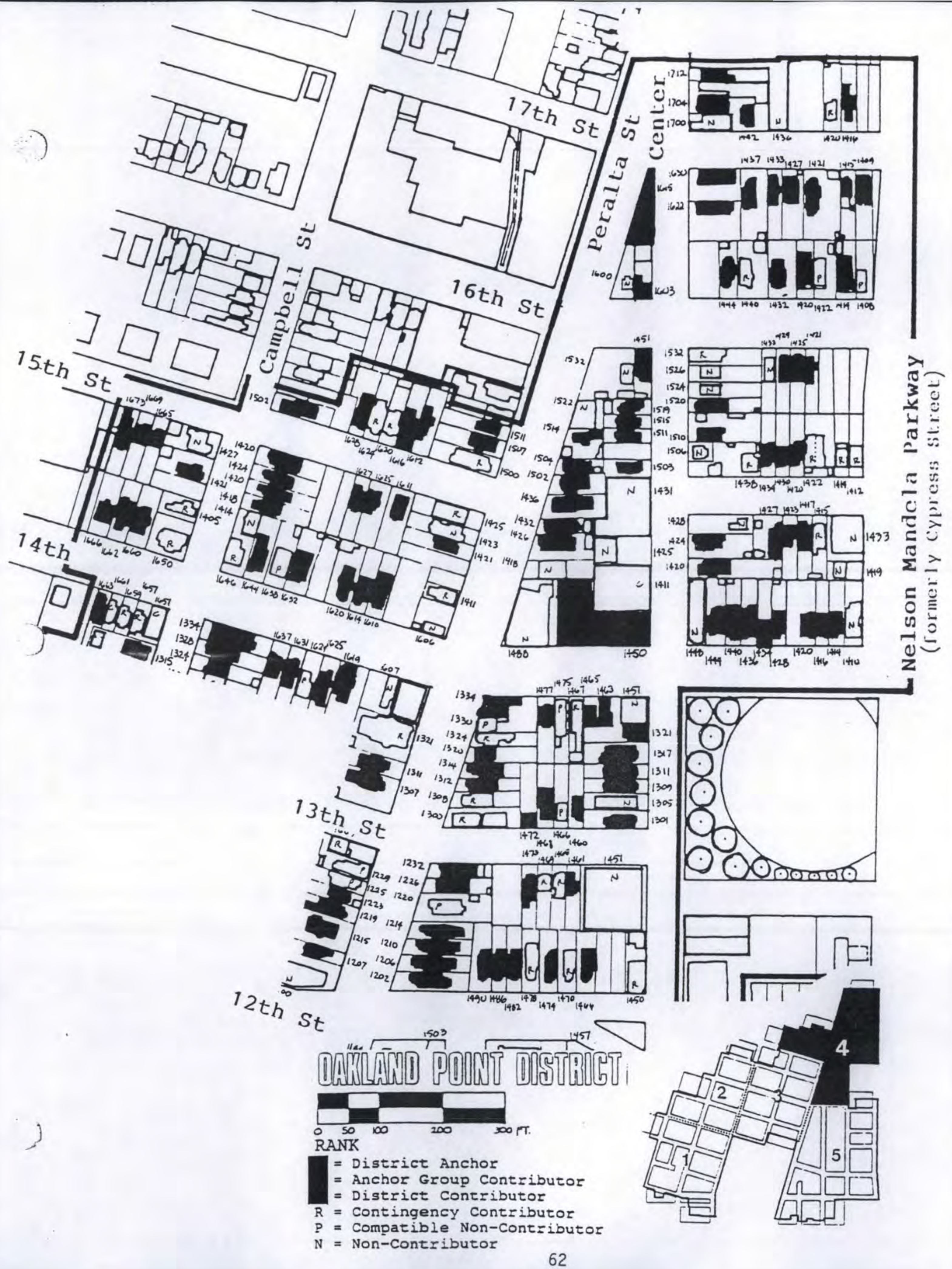

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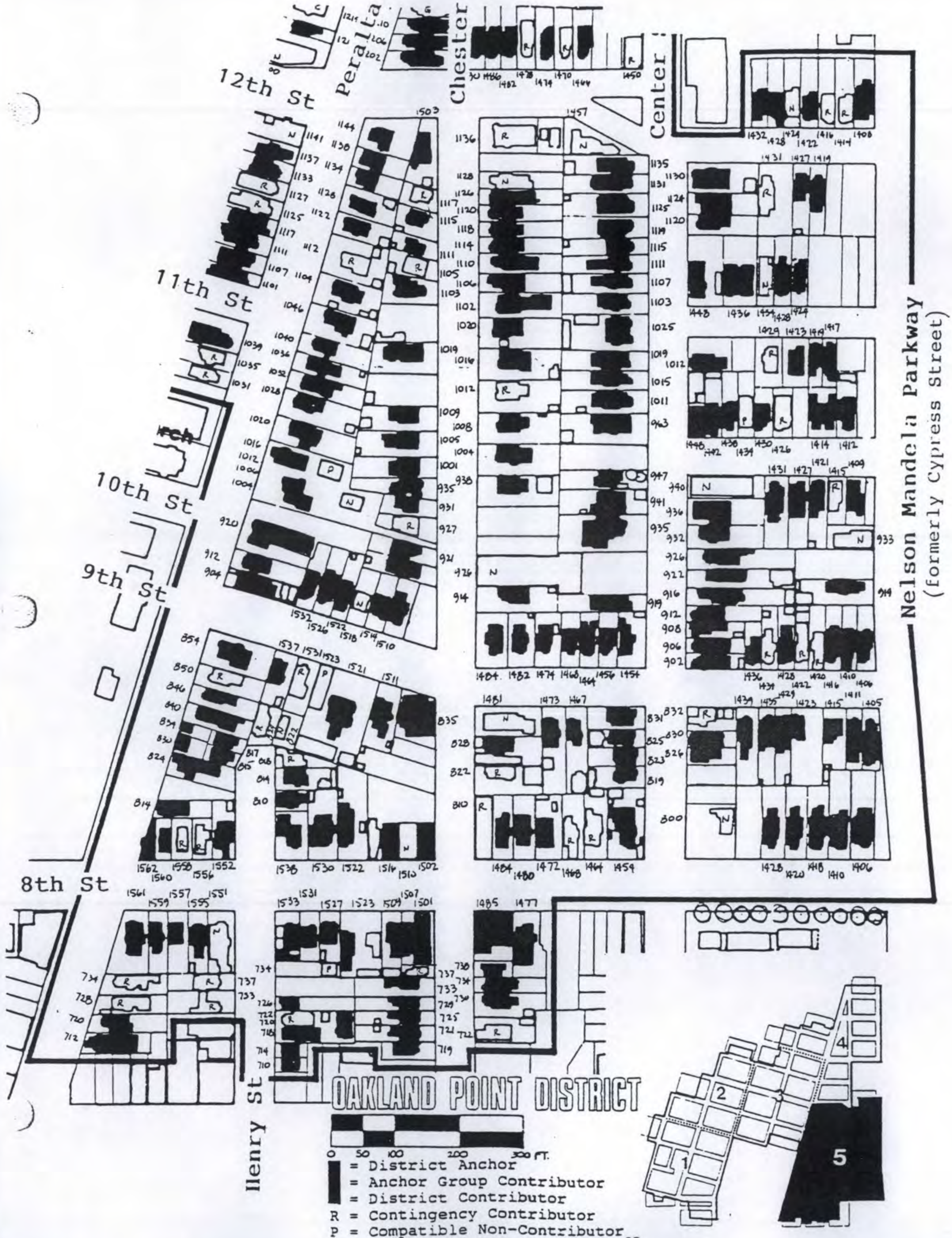

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4623-

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

HISTORIC RESOURCES INVENTORY

Ser. No. ______
HABS ____ HAER ____ NR 3S SHL ____ Loc ____
UTM: A 10/562540/4185200 B 10/562320/4184240
C 10/562340/4184530 D 10/561630/4185000
Prop 7/124

IDENTIFICATION

1. Common name: Oakland Point District; also Prescott Neighborhood
2. Historic name: Oakland Point (portion)
3. Street or rural address: Cypress to Pine Streets, 8th to 17th Streets

City Oakland Zip 94607 County Alameda

4. Parcel number: Various, see continuation pages
5. Present Owner: Various, see continuation pages Address: ______

City ______ Zip ______ Ownership is: Public ______ Private X

6. Present Use: Domestic; Commerce Original use: Domestic; Commerce

DESCRIPTION

7a. Architectural style: predominantly Italianate, Stick, Queen Anne
7b. Briefly describe the present *physical description* of the site or structure and describe any major alterations from its original condition:

The Oakland Point residential district is an area of about 47 city blocks in West Oakland bounded on the south by the 7th Street commercial strip along the elevated BART tracks, on the east by the Cypress Street portion of the Nimitz Freeway, and on the west and north by the industrial areas around the 16th Street railroad station and tracks. This district includes 848 properties of which about 750 are wood-frame residential buildings erected before 1910. Boundaries for the National Register eligible district are drawn to exclude a freeway exit at 14th and Cypress Streets, a 4-block area containing a post-1940 church, school, and housing project south of 10th Street from Peralta to Willow, and several small new buildings, giving the district a sort of inverted Y shape on the map. This is by far the largest and most intact section of the historic Oakland Point neighborhood, and one of the largest and most intact Victorian neighborhoods in Oakland. Other portions of the "Point", now isolated from the main district by intrusions or demolitions, are recorded on separate State Historic Resources Inventory (SHRI) forms: the South Prescott Neighborhood (between 7th and 3rd Streets, near the S.P. yards), the Oakland Point ASI (beyond the western tip of this district), the 7th Street commercial district, and the 16th Street Station commercial district. There are also small residential clusters near the district on the 1700 block of 14th Street and 1600 blocks of 16th Street.

(see continuation page 3)

8. Construction date:
Estimated ______ Factual 1860s-198
predominantly 1870s-90s
9. Architect ______
various, mostly unknown
10. Builder mostly unknown;
Ziegenbein, John, c.100 bldgs.
11. Approx. property size (in feet)
Frontage ______ Depth ______
or approx. acreage c.90 acres
parts of 47 city blocks
12. Date(s) of enclosed photograph(s) ______

Photo No: 482- 1
Date: 09/02/87
Location: OAKLAND POINT API
719 TO 839 CHESTER STREET

Df

a

13. Condition: Excellent ____ Good _x_ Fair _x_ Deteriorated ____ No longer in existence ____

14. Alterations: various, see continuation pages; asbestos, aluminum, & other siding, windows, steps, basement units, additions, etc.

15. Surroundings: (Check more than one if necessary) Open land ____ Scattered buildings ____ Densely built-up _x_
Residential _x_ Industrial _x_ Commercial _x_ Other: freeway

16. Threats to site: None known _x_ Private development ____ Zoning ____ Vandalism ____
Public Works project ____ Other: ____

17. Is the structure: On its original site? _x_ Moved? 45 blgs. Unknown? ____

18. Related features: Oakland Point ASI, South Prescott ASI, 7th Street Commercial District, etc.

SIGNIFICANCE

19. Briefly state historical and/or architectural importance (include dates, events, and persons associated with the site.)

The Oakland Point district appears eligible for the National Register under Criterion C, Architecture, and Criterion A, Patterns of History. As architecture, it is a large and remarkably intact 19th century residential neighborhood, containing distinguished individual buildings and groups by important local developers as well as a solid background of typical working people's houses of the 1860s through 1900s. It is historically significant in the areas of Exploration/Settlement as one of Oakland's oldest neighborhoods and one which sheds light on early development and housebuilding practices; Transportation, for its close association with the railroads which prompted the neighborhood's growth and employed many of its residents; and Ethnic Heritage: European and Black, as a neighborhood whose predominant character changed over the years from Irish, to Italian and Slavic, to Black, which was both a renowned melting pot and a cradle of ethnic self-help movements and institutions.

(see continuation page 11)

20. Main theme of the historic resource: (If more than one is checked, number in order of importance.)

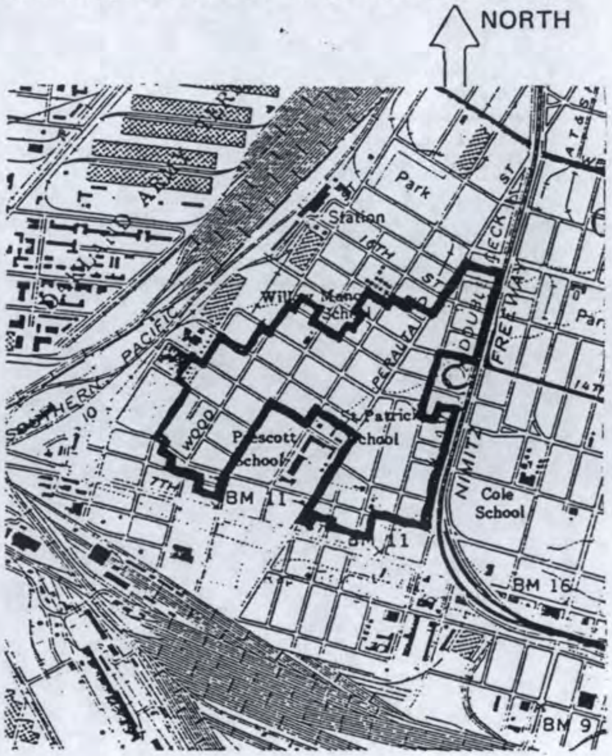
Architecture	1	Arts & Leisure	
Economic/Industrial		Exploration/Settlement	2
Government		Military	
Religion		Social/Education	

21. Sources (List books, documents, surveys, personal interviews and their dates).

see continuation page 41

22. Date form prepared September 30, 1989
By (name) staff
Organization Oakland Cultural Heritage Survey
Address: 1 City Hall Plaza
City Oakland CA Zip 94612
Phone: (415) 273-3941

Locational sketch map (draw and label site and surrounding streets, roads, and prominent landmarks):



71614

Street or rural address: Oakland Point District - API State Form Part 1

7b. Physical Description (continued from page 1)

The extant historic buildings in the district are mostly small to medium in size, 1 or 2 stories: 400-plus can be described as cottages, although many now function as 2-story flats with a basement unit. The majority date from the 1870s (290) and 1880s (274), with 18 pre-1870, 85 1890s, and 78 1900s. Accordingly the predominant styles in the district are Italianate (333), Stick (162), and Queen Anne (222), intermingled with about 85 Colonials (houses, flats, and cottages - some as late as the 1940s), 8 shingle, 11 Craftsman, and about 70 19th century vernacular (minimally Greek Revival/Italianate) and 4 slightly Gothic. Many of the visibly oldest 1-1/2 story steep-gabled vernacular houses are located in the southwest part of the district nearest the historic waterfront and tracks (Wood, Pine, 10th, 9th, Shorey Streets).

Only 22 of the district's pre-1910 buildings originated as other than houses: one church (835 Chester), the carbarn (1450 14th), a small 1906 warehouse (829 Wood), and the rest small neighborhood stores, mostly groceries or meat markets with flats above, all natural adjuncts of a residential neighborhood. About 20 of the 19th century residential buildings and 20 from 1900-1910 appear to have originated as multiple dwellings - mostly flats, and half a dozen unusual side-by-side duplexes from the 1870s and 1880s. Commercial buildings are found mainly along 8th, 14th, and Peralta Streets, which were local transit routes and are today the main traffic streets.

Lots in the district are generally small to medium - 25 to 50' side, 100 to 125' deep. Some of the larger lots cluster along Peralta and Center in the southeast part of the district, and predominantly smaller ones along Wood, Willow, and Pine to the west, but without a marked distinction between richer and poorer sub-neighborhoods. Perhaps a dozen houses in the district are conspicuously large, and on large lots; as homes of early large landowners, they are scattered through the district, where their first residents often owned whole blocks. They include the Chase house at 801 Wood, Borgeson house at 905 Willow, Bagge house at 1321 Peralta, and Samm-Dalton house at 1454 8th. Incidentally, the preferred location for these big houses seems to have been the southeast corner of the block.

The land at the Point is flat and close to sea level, and streets are laid out in grids. However, two different grids meet along Peralta and 8th Streets, producing a number of triangular, trapezoidal, and very long blocks. Some of the most distinctive views in the district are along these diagonal streets - the east side of Peralta north of 12th, where the facades are staggered and well displayed; 12th and Peralta where a group of 11 matching Stick cottages wraps around the acute-angled corner; the long block of Peralta from 9th to 12th, containing St. Patrick's convent, the Ziegenbein house, and a group of other mostly large houses on large lots; the high-1700 block of 8th (Shorey) Street, with a number of very old houses, protected from traffic by the zig-zag course of the street.

Notable features of the district are its groups of matching and near-matching houses. The 11 Stick cottages at 12th and Peralta are an outstanding example. Two-story Italianates with hip roof, 2-story bay, portico, and often a porthole occur in groups, particularly around 8th, 9th, 12th, and Peralta, near the home of their developer John Ziegenbein (1004 Peralta), and form a recurring theme through the district even where they occur singly. A particularly striking Ziegenbein group occupies the long block from 938 to 1102 Chester, hip-roofed Italianate cottages alternating 2 designs, side bay and full-width porch. The large west-district block intersected by McElroy Street (between Pine, Wood, 9th, and 8th) is a whole tract of early-1880s Stick-style workers' cottages, a nearly intact group of 9 similar along Pine developed by G. Holland in 1881-82, and most of the rest - surviving more fragmentarily - by Ziegenbein between 1881 and 1885.

Probably a third of the houses in the district are parts of groups or at least have neighboring twins or

(see continuation page 4)

Street or rural address: Oakland Point District - API State Form Part 1

7b. Physical Description (continued from page 3)

semi-twins: false-front Italianate cottages at 839 and 835 Wood, 1872-73; vernacular cottages at 710 and 714 Henry, 1877-78; Stick houses at 1531 and 1537 9th, 1879-80, and many more. This pattern also applies to some of the later houses in the district: two clusters of similar Craftsman houses developed by Myron Wurts in 1912 (830 and 834 Peralta, 1230, 1234, and 1240 Willow), and a group of high-gabled shingle-style houses around 9th and Peralta designed in 1899 by A.W. Smith (912 and 1031 Peralta, 1532 9th 1522 9th). These recurring designs give the district additional coherence beyond its remarkable unity of period, styles, and building types.

Of the 848 properties in the district, 618 (73%) are considered to contribute by virtue of age (pre-1912), style, and integrity. Of these, only about 14 are large, elaborate, and prominently located enough to be considered anchor buildings; the importance of this district is as a vast, continuous neighborhood of everyday 19th century homes. The Western Market/Liberty Hall at 1485 8th Street, St. Patrick's Convent at 920 Peralta, and the Shorey house at 1782 8th Street are the only properties in the district currently considered individually eligible for the National Register. About 2 dozen properties might become eligible if restored, individually or as parts of building groups. The Consolidated Piedmont Cable/Oakland Traction Company carbarn, the Chester Street Methodist Episcopal Church, and the Walsh and O'Brien Grocery are recognizable neighborhood commercial and institutional landmarks, now heavily altered. Other potentially eligible properties are the homes of significant individuals or works of noted architects or developers: except for the Ziegenbein house, these would become fairly minor National Register candidates if restored. In addition, a few clusters of houses might be eligible as visually and historically related groups or sub-districts - the corner of 12th and Peralta, some of the Ziegenbein houses.

Of the 230 noncontributing buildings, about 40 per cent are too new to contribute, and about 60 per cent are older buildings which have been heavily altered. The new buildings include a few Prairie and Mediterranean cottages (15 total, some apparently remodelings of older houses), about 20 mid and late 20th century houses (including about 8 which appear to be factory-built), 5 small postwar apartment buildings, and a steady succession of commercial buildings and storefront additions, gas stations, and churches (one formerly a 1910s movie theater: 1488 14th Street) from every decade up to the present. Of the remodeled buildings, most are still recognizable for what they were, and are classified as compatible noncontributors in their present state, and as contingency contributors (National Register 4Db) which would contribute to the district if restored. An important aspect of this district is that most of the noncontributing buildings are small in scale, and do not overpower the historic setting. Some of the most recent, the small multi-gabled townhouses at 1710 8th and 1736 Chase, like the 1930s and 40s Colonial cottages at 1422 and 1408 16th Street, are classified as "compatible noncontributors" for their size, shapes, and materials consistent with those of the historic buildings.

Within the district boundaries, there are very few vacant lots and not many serious intrusions. The south and east boundaries are recent impositions - the strip cleared along Cypress Street for the Nimitz Freeway in the 1950s, the virtual clearance of 7th Street for BART and the main post office around 1970, redevelopment of residential blocks as Campbell Village in 1939-42, and replacement of St. Patrick's Church and Prescott School, the institutional hearts of the neighborhood, with new buildings in the postwar era. The west and north boundaries, however, are still the historic edges where housing shaded off into industrial and railroad uses on the waterfront and filled marshes. Along Pine and Wood Streets large early 20th century factory and warehouse buildings face blocks of 19th century cottages, and other blocks have small metal or concrete industrial buildings or yards interspersed with the houses. Some of the small industrial buildings are early - the Kohler-Chase warehouse, a 2-story generic woodframe building at 829 Wood, and the Oakland Cream Depot, adjoining the district at 14th and Willow, both built

(see continuation page 5)

Street or rural address: Oakland Point District - API State Form Part 1

7b. Physical Description (continued from page 4)

in 1906-07. The Baird Brush factory, 1769 Chase St., dates from 1931, and several 1920s and 1930s garages and service stations are scattered through the district, mostly at prominent intersections (1451 13th St., 1926; 1600 Peralta, 1928; 1700 Center, 1930; 800 Center, 1931; 1532 Peralta, 1940). A layer of more recent automotive, industrial, and commercial buildings (c.1954-65) is found along Cypress Street where freeway construction reshaped some blocks. Two large open areas opposite each other at 13th and Wood Streets at the district's north end are the products of recent clearing - a 3/4-block parking lot behind the 1947-55 Mount Zion Missionary Baptist Church, and a half-block city park on the site of the home of 1880s capitalist Ferdinand Koenig.

Typical remodelings in the district are maintenance-related: aluminum windows, asbestos, aluminum, vinyl, stucco, or asphalt siding, security doors and grilles, replaced porches and railings. Many of the houses, especially the cottages, have the basements expanded into garages, second units, or other usable space. Complete restylings of houses are not common, but have occurred: examples of houses considered so altered that their original age is not apparent and they are in effect, visually, late 20th century buildings are 1661 11th Street, 1425 Peralta, 822 Henry, and 1128 Chester. 1405 Campbell, 1411 Peralta, 1620 13th, and 1650 12th Street are houses which were remodeled into apartments during World War II and restyled into something resembling '40s ranch houses in the process. At least 7 of the district's 1920s-30s Mediterranean houses appear to be remodeling of earlier buildings rather then all new construction: 1012 Chester, 1438 15th, 1620 15th, 1630 13th, 1410 14th, 1716 9th, 1414 Campbell Street. From the beginning, houses in the district were enlarged and updated, often by adding a new front - tiny vernacular cottages incorporated into Italianates and Sticks a decade after original construction (e.g. 1416 12th, 1752 9th, 1427 15th), Italianates and Sticks updated as Queen Annes (920, 1014, and 1020 Wood, 1469 13th, 1434 9th, and 1454 8th), 19th century houses turned into Colonial Revival flats (1768 8th, 1726 10th, 1616 15th). About 35 houses are described in the survey with dual dates such as "1889 inc. (incorporates) 1876," the first the visually apparent date (style of the facade, largest part of the house, etc.), the second an identifiable incorporated but more or less hidden component. The most spectacular example of these is 1454 8th, the large Samm-Dalton house, an elaborate Queen Anne whose Italianate past is still recognizable. This house also has a 1940s storefront addition, another common pattern in the district. (Among others, 1669 12th, 1422 and 1673 15th, 1223 Peralta; earlier storefront additions 712 and 904 Peralta.)

Commercial buildings in the district have undergone heavier remodeling than the houses, as well as being newer as a group. The 1914-15 Peralta Theater at 1488 14th Street is completely resurfaced in stuccostone as a church and social hall. There are other storefronts converted to churches with less alteration - 810 Chester, 1451 16th. Other stores are more or less modernized while continuing in commercial use, with new sash, doors, security measures, etc., and some of the early ground-floor stores in mixed-use 19th century buildings are now occupied as residences.

The district contains at least 45 moved buildings, with moving dates from 1884 to the present. Original dates, locations, and owners of about 20 are known, and these came mostly from within the district. An exception is the oldest known house in the district - the 1858 William Watts house, now at 1436 Peralta, moved in 1898 from the Watts Tract in northwest Oakland and remodeled as a Queen Anne. Since the district's significance is as a group of fairly generic 19th century houses, moving alone is not considered to keep a compatible building from contributing, though many of the houses moved in this century have also been remodeled in the process.

The integrity of the district is also somewhat eroded by deterioration and neglect of buildings - a few have stood in states of partial demolition or suspended work since at least 1986 (Citywide Preliminary Survey), and several reasonably unaltered buildings have long been vacant and boarded up. On the other hand, there have been some excellent recent restorations, notably Liberty Hall (1485 8th) and 718 Henry Street.

CP

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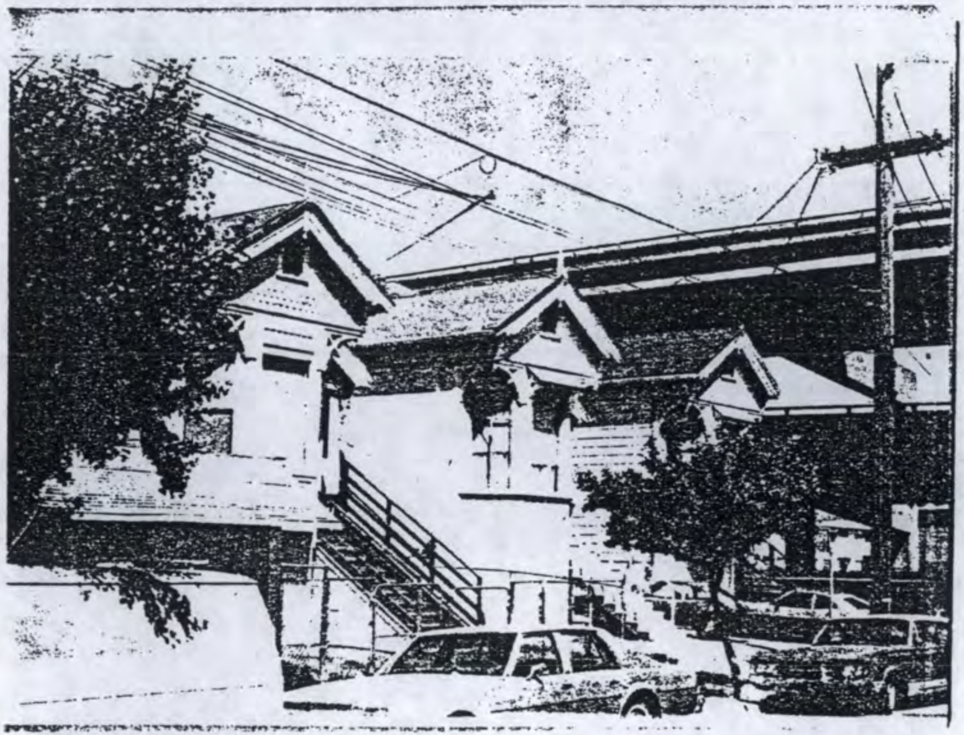
252-1

Photo No: 503-23A
Date: 09/24/87
Location: OAKLAND POINT API
1032-1046 PERALTA (ZIEGENBEIN)



252.

Photo No: 475-00
Date: 08/19/87
Location: OAKLAND POINT API
1406,1410,1416 9TH ST, 1886-88

Oakland Point District - API State Form Part 1

Photo No: 493- 2
Date: 09/04/87
Location: OAKLAND POINT API
717-729 WILLOW,1709 &1711 GOSS

Photo No: 487-34
Date: 09/03/87
Location: OAKLAND POINT API
1426,1430,1434 15TH ST,1888-89

Photo No: 497-13
Date: 09/16/87
Location: OAKLAND POINT API
1691, 1693, 1695 12TH ST, 1881

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

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HISTORIC RESOURCES INVENTORY

CP

Street or rural address: Oakland Point District - API State Form Part 1

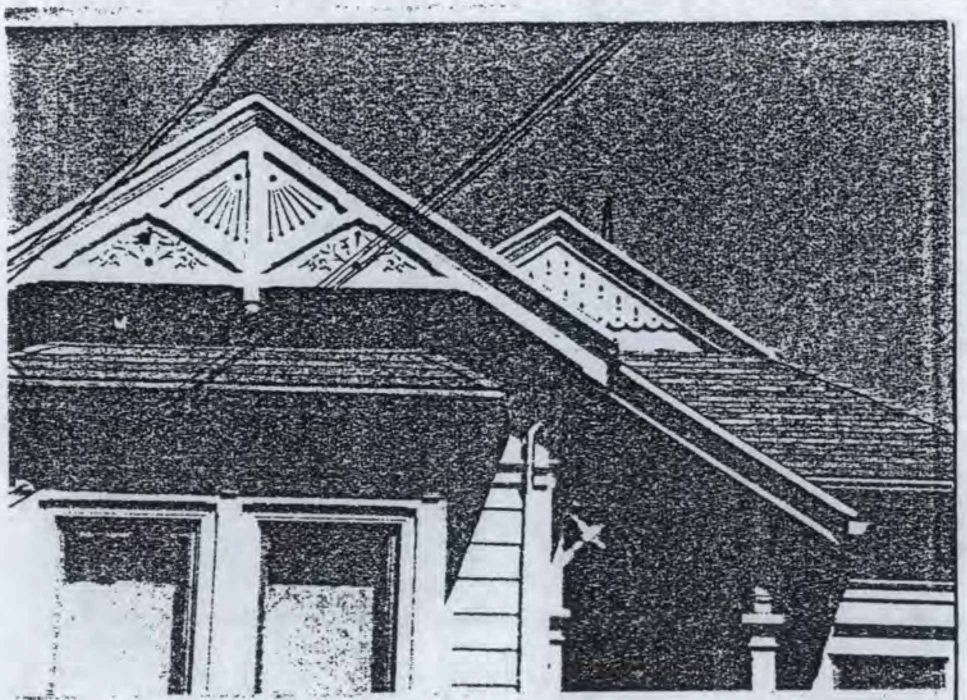
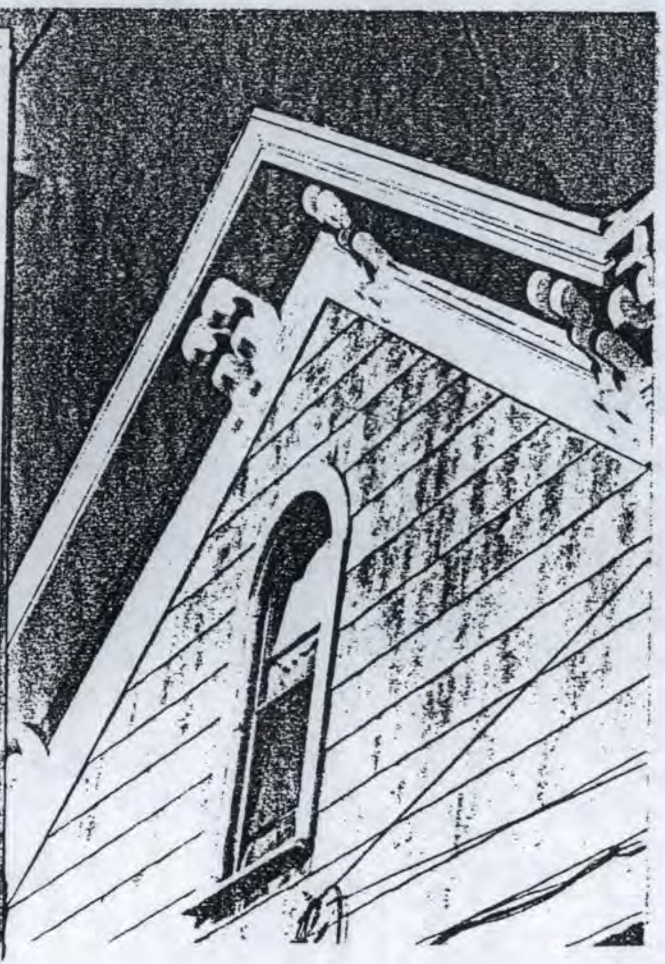


Photo No: 455-30
Date: 07/02/87
Location: OAKLAND POINT API
1206 PERALTA, STICK GRP,DETAIL

Photo No: 495-34 (lower left)
Date: 09/04/87
Location: OAKLAND POINT API
1769 & 1771 CHASE AT MCELROY

Photo No: 496-26A (lower right)
Date: 09/16/87
Location: OAKLAND POINT API
1665 11TH ST (1871-72), DETAIL



Street or rural address: Oakland Point District - API State Form Part 1

Photo No: 503-22A
Date: 09/24/87
Location: OAKLAND POINT API
840 TO 912 PERALTA ST

Photo No: 479-24
Date: 08/19/87
Location: OAKLAND POINT API
1202 TO 1208 WOOD, STICK GROUP

reet or rural address: Oakland Point District - API State Form Part 1

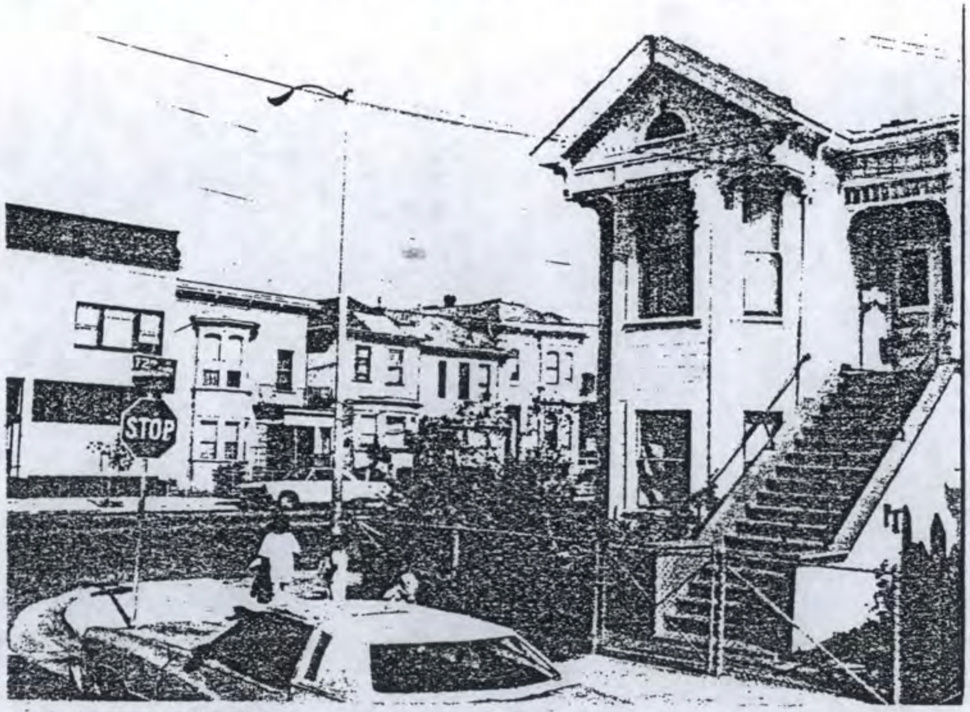


Photo No: 503-32A
Date: 09/24/87
Location: OAKLAND POINT API
1134 CAMPBELL, 1630-1646 12TH

Photo No: 476- 3
Date: 08/19/87
Location: OAKLAND POINT API
1126 TO 1114 CHESTER, 1887-92

eet or rural address: Oakland Point District - API State Form Part 1

19. Historical and/or Architectural Importance (continued from page 2)

RAILROAD (Context Codes RR, WT, IN, SF, BU; National Register Criteria, A: Transportation)

Oakland Point is located two miles west of the site around 1st and Broadway where the City of Oakland was first established. The 3190-acre "original town" of 1852 included the undeveloped West Oakland area as well as the roughly 500 acres along Broadway that were laid out in streets in the Kellersberger map of 1853. The Point was of obvious geographic interest to early Oakland as the closest land to San Francisco, for passenger ferries and shipping: meanwhile, the transbay route was up the shallow, marshy San Antonio Creek or estuary to the foot of Broadway. A Bay Street Wharf was begun at the Point in the early 1850s by Rodmond Gibbons but not completed.

In 1861 Gibbons and several partners (including George Goss and Samuel Wood, namesakes of streets in the Point) revived the project in conjunction with train service to Broadway, as the San Francisco and Oakland Railroad. This commuter line ran out 7th Street and met the ferry "Contra Costa" in deep water at the end of a 3/4-mile wharf over mud flats. (The route in the enabling ordinance was described as "Seventh Street from its easterly limits, to… Market Street… thence in a straight line to the western boundary of the city" - the Point was not yet provided with streets.) SF&O service began in 1862 (using an engine and cars built by Novelty Iron Works at the Point) and was extended over the next few years, east to the Brooklyn area beyond Lake Merritt in 1864, and farther west on an enlarged 1-1/4-mile pier by 1868. By 1867, the Oakland Daily News (February 14, p. 13) reported on "The Oakland Point":

> Recently having occasion to ride through this flourishing part of the city, we could but think of the very great and almost wonderful change which the mere presence of the railroad has wrought. Previous to its construction, nearly all that part of the Encinal west of Adeline Street was a wilderness, there being scarcely a house or fence on the whole tract. The ground was generally covered with a thick growth of underbrush and tangled vines. Pleasure parties occasionally went there to gather blackberries… As soon, however, as the railroad was completed, and our citizens felt that they could rely upon the facilities which it afforded, there was a very great and marked increase of our population… Today there are there a large number of elegant and comfortable houses. We presume that the average value of land there is about $2,000 per acre. We have not ascertained the exact population of that section of the city, but the number of children in attendance at the public school which they have established, is sixty…
>
> Unfortunately the means of communication between the Point and the central part of the city, is very poor. There is only one road leading there, and that is narrow, crooked and sandy… When a large number of houses have been erected, the cost of laying out and grading streets will be infinitely greater. Before other buildings are erected there, the present residents should agree among themselves upon some plan for opening streets upon their land. It will increase in value as it becomes accessible, and it is almost as necessary that there should be a ready means of communication between the Point and Broadway as between the Point and San Francisco.

Apparently the Point, and to some extent Oakland as a whole, was considered mostly a San Francisco commuter suburb at this time. In 1871 a promotional brochure published by the Oakland Daily Transcript ("Information Concerning the Terminus…," pp. 27, 34) stated:

> Various considerations may lead people to prefer a residence outside of the great city to one within, and not the least among these is the larger quantity of ground obtainable for the same amount of money…

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eet or rural address: Oakland Point District - API State Form Part 1

19. Historical and/or Architectural Importance (continued from page 11)

> The street car trips, from the business portion of San Francisco to, or from any point in that city, where residence property cost even double that of residence property in Oakland, consume more time than the trips between San Francisco and Oakland...
>
> During the year 1870, the cars and boat made twelve trips per day, each way. The average number of passengers to each trip was one hundred and eighty, making four thousand three hundred and twenty passengers per day, or over one million and a half for the year...
>
> Indeed, it is quite evident that the time is not distant when crossings will be made every ten minutes; and persons seeking homesteads can safely depend upon realizing this prediction.

The Central (later Southern) Pacific arrived in 1869 and soon transformed Oakland Point into an active, populous company town. The transcontinental railroad wound down to Alameda County over the Altamont Pass, through Livermore, Pleasanton, Niles, San Lorenzo, San Leandro, and up the Oakland Estuary. The city and ex-mayor Horace Carpentier convinced the Central Pacific to make Oakland the western terminus by giving the railroad virtually the entire waterfront and tidelands (which the city had granted to Carpentier in 1853). This monopoly, which lasted until 1910, retarded industrial development along the Oakland waterfront for decades - except at the Point where the railroad itself was a major industry.

The main passenger depot for Oakland was at 7th Street (also called Railroad Avenue) and Broadway. Passengers for San Francisco - the ultimate transcontinental terminus - continued out 7th and beyond to the ferry. By 1870 traffic was so heavy that the tracks were divided east of Lake Merritt, the freight and overland trains going along 1st Street and the locals - the former San Francisco and Oakland Railroad - along 7th Street. Successive expansions of the pier system were the Long Wharf, 1871, and the Oakland Mole, a major freight and passenger terminal, built in 1879-81. At their longest, the wharves extended about 2 miles, or halfway to Yerba Buena Island. They handled deep-water shipping on a massive scale - the very first freight ferry, the Thoroughfare, 1870, held 18 loaded freight cars ("without breaking bulk" - a sort of early piggyback service) and 16 carloads of loose stock, and warehouse and berthing facilities were in proportion. Seventh Street today continues out over the route of the Mole to container terminals, and a 1910 railroad signal tower still stands. Inland, across 7th from the Point residential neighborhood, extensive freight yards still exist, as well as a few late 19th century brick buildings from the Southern Pacific shop complex, southwest of 7th and Wood, and some 1910s electrical and administration buildings at 415-525 Bay Street.

On this outer stretch, south of 7th Street, the Central Pacific established enormous switching and maintenance yards, a roundhouse, car repair shops, car building shops, a creosoting plant, and shipyards as well, since the CPRR took over the pier and the ferry service. In mid-1874 the expansion of the yards and shops was major local news: "The Point... is now really the most prosperous part of Oakland... The main cause of prosperity down there is the location of the railroad workshops, to which is now being added the Railroad Company's ship yard. The workmen mostly employed there are white men and spend the greater part of their wages on the spot. We suppose that within a twelvemonth no less than twenty business places have been opened at the Point and all appear to be doing well." (News, July 27, 1874) "In view of the proposed harbor improvements on this side of the bay, there is little risk in saying that within three to five years the entire railroad manufacturing and repairing force will be established in West Oakland, adding thousands to the general population and immensely to the business of the city throughout." (Tribune, July 17, 1874) The Illustrated Album of Alameda County (1896) gives some sense of the size and importance of the SP's West Oakland yards:

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eet or rural address: Oakland Point District - API State Form Part 1

19. Historical and/or Architectural Importance (continued from page 12)

THE RAILROAD YARDS. The headquarters of the constructive operations of the Southern Pacific Company's system are at the West Oakland yards....The bridge and building department does all the building for the railroad and for the Pacific Improvement Company, a branch of the Southern Pacific, with the single exception of the laying of the rails. It primarily is designed to build all the bridges which the track and engineer departments require. The latter department supplies the superintendent with a profile of the space to be bridged and the data necessarily connected therewith. From this the designs are drawn and the parts of the bridge made and fitted in these yards. The bridge is built in place by a gang from this department, and when finished and turned over to the track department is ready to receive the rails.

The territory extends all over the Pacific Coast to the most distant points reached by the Southern Pacific Company's lines, whether owned or leased. To the south it reaches El Paso, to the east Ogden, and toward the north it runs into Oregon. Over this territory it supplies, with the exception of ties, every bit of lumber that is used by the several departments of the road, even providing the car department at Sacramento with all its material.... The department is even farther reaching in its scope, for it does the work of construction for the Pacific Improvement Company. The new Del Monte Hotel, at Monterey, Hotel El Carmelo, at Pacific Grove, Castle Crag, near Mount Shasta, are all the work of this department, and a singular proof of the capacity of the West Oakland yards is the fact that the task of supplying the material for this enormous structure did not in the least interfere with the usual work of the shop.

All stations, roundhouses, and other buildings are constructed from data supplied to this department....so that at the place of erection nothing is left the workmen but to fit the pieces together according to the orders given. The department has charge of the shipyard, also, at West Oakland, and has built or repaired all the steamers of the railroad company's large fleet. During the past year this one department has handled over fifteen million feet of lumber and has given employment to some twenty-five hundred men, of which number at least four hundred and fifty are carried upon the pay roll of the Oakland shops. ...

The buildings of the department of motive power and machinery stand close together at the shore of the bay, and in addition to a few tool houses are the machine shop, the blacksmithy, and the roundhouse. The division for which these are the repair shops extends from Oakland to San Jose by Niles, to Sacramento by Livermore on the Western Pacific, to Sacramento by Benicia on the Northern and California Pacific, and to Lathrop. ...

The blacksmithy has four forges and a steam hammer of ten tons. The machine shop is amply fitted with necessary tools, a lathe for turning tires, an hydraulic press for putting wheels on, a large planer, a large slatting machine, three drill punches, and six lathes. Here also is the air compressor which supplies the block signal system, extending from the pier to Sixteenth Street on the overland lines, and to Alice Street on the Fifteenth Street lines. The roundhouse has room for twenty-one locomotives. The daily supply of coal used by the locomotives is, on the average, one hundred tons.

The department employs one hundred and ten men, and the pay roll is growing larger every month. These are classed as follows: Mechanics, thirty-four, comprising smiths, carpenters, boiler makers, machinists, and painters; helpers, twenty-six; laborers, twenty-two; wipers, fifteen, being boys who are in the line of eventually becoming engineers; watchmen and dispatchers, eleven; a foreman of the roundhouse and a foreman of the machine shop. The engineers number ninety-five, and the firemen

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eet or rural address: Oakland Point District - API State Form Part 1

19. Historical and/or Architectural Importance (continued from page 13)

> ninety-eight. The monthly pay roll amounts to $21,000, of which the engineers receive $10,000, the repairing branch $6,000, and the firemen $5,000. …
>
> The shipyard, which belongs to the bridge building department, is close alongside the repair shops, upon the shore of the creek. It was first established in its present place in 1874, and the steamers Oakland and Transit were the first boats built here….in 1878 the Solano was built. This, the mammoth steamer of the company's fleet, is the largest ferryboat in the world. …
>
> In the car department all cars or coaches arriving from the East are thoroughly inspected, repaired, and cleaned. The yard set apart for this purpose is probably the most extensive and best fitted for the purpose in the United States. … There are ten parallel tracks, one thousand feet long, with all necessary switches and cut-offs, running into a long brick shop. … From two hundred to four hundred passenger coaches are cleaned monthly at these yards.

Railroad craftsmen, operators, and administrators all worked and settled at the Point in great numbers. So did local business people whose hotels, markets, iron works, livery stables, photo studios, saloons, and "female boarding houses" in one way or other served the railroad and its employees or passengers. From 1869 to the 1930s, vast numbers of Point residents are listed in directories as working for the C.P.R.R. or (after 1885) the S.P.Co. as engineers, conductors, firemen, brakemen, signalmen (or towermen - a common post after one was disabled by injury on the job), oilers, wipers, car cleaners, car builders, car repairers, carpenters, upholsterers, painters, ship carpenters, boilermakers, blacksmiths, machinists, bridge builders, sailors, deckhands, stevedores, pile drivers, laborers, clerks, foremen, watchmen, tallymen, collectors, cooks, and porters. The S.P. treasurer, Charles Redington, lived at the Point (1678 10th), as did the S.P. physician, Western Division superintendent, paymaster, and "politicians" (Oscar Breiling, "Memories of Old West Oakland," 1935, p. 29). "The railroad's expanding gradually and employing thousands, had much to do in governing civic and political affairs and many a man in political life owed his start to his railroad connections" (Walter Johnston, "West of Market Boys," ms. c.1940s)

In the early years some carpenters were listed as employees of the "W.D.Co." and "P.I.Co." - Western Development and Pacific Improvement, land-development subsidiaries of the railroads. As Pacific Improvement Co., the West Oakland yards did much of the millwork for the construction of Stanford University. (Enquirer, July 16, 1891) Another related employer was the P.P.C.Co. - the Pullman Palace Car Company - many of whose all-black corps of porters settled in Oakland, and formed the nucleus of a notably early, large, and active East Bay Afro-American community. Almost every house in the Oakland Point district has identifiable railroad-related owners or residents somewhere in its history. From censuses, directories, and memoirs like Oscar Breiling's and those in the West of Market Boys' Journal, it seems possible that in the 19th century close to half the Point's employed residents worked for the railroad. Up to about the 1920s, railroad employees were required to live west of Adeline, to be on call for unscheduled duty. Breiling describes the "tin lunch buckets for the average 100 boarders" at the Railroad Exchange Hotel on 7th Street around 1885. Later, the Tribune reported (12/23/05) that one of the largest accounts of Breiling's own newly organized West Oakland Bank and Trust Company was the S.P. payroll: "about 5,000 men call at this bank each month for their wages." (This superseded "the old pay car," which made monthly rounds of all the job sites, paying the men in gold and silver coin, which was fondly remembered by a West of Market Boy, c.August 1940.) Because of the residence requirement, "Seventh Street was a real shopping center… it was a sorry day for the merchants when the change came." (J.M. Samuels, Seventh Street store keeper, in West of Market Boys' Journal, May 1937)

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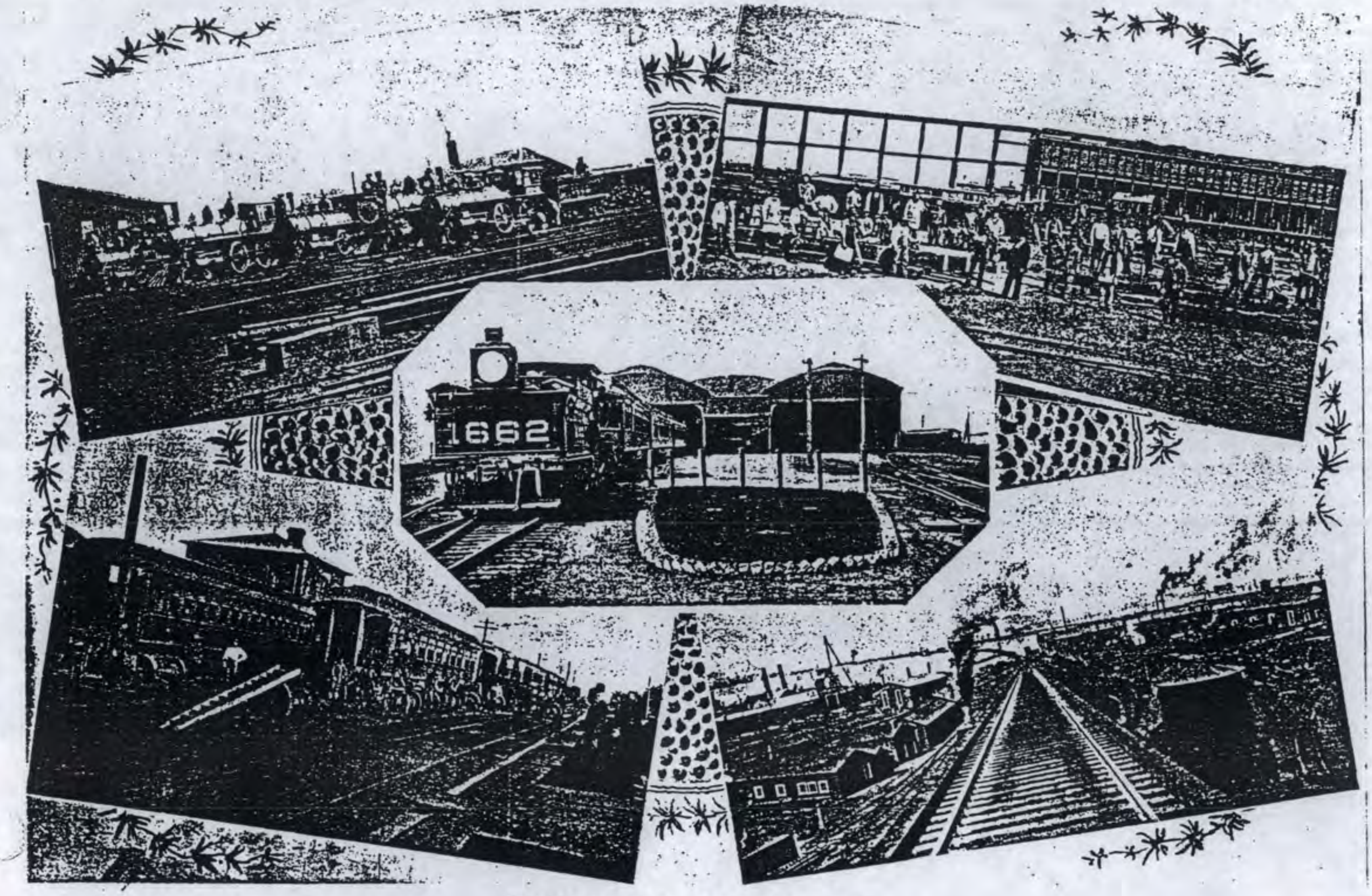
et or rural address: Oakland Point District - API State Form Part 1

19. Historical and/or Architectural Importance (continued from page 14)

The role of the railroad in West Oakland began changing around 1910. The Western Pacific began service to Oakland that year with its own pier south of the Southern Pacific pier, having broken the S.P. monopoly in court. Also around 1910 the Southern Pacific converted its local passenger service from steam to electric power, and expanded its routes. This meant some changes in the work in the yards, and some dispersal - power stations were spaced through the region at Fruitvale, West Oakland, and North Berkeley, a new car shop was built in Alameda, and the overhead power lines required scattered headquarters for linesmen. The end of the monopoly also opened up the inner and outer harbors to development, including private shipyards and shipping terminals. World War I enormously expanded shipbuilding in Oakland, and made Oakland one of the nation's major shipbuilding centers. "During the peak year of 1920, Oakland shipyards employed no less than 40,000 men or more than all other industries combined." (Hinkel & McCann, p.887) By the time new shipping terminals were operating on fill in the outer harbor in the 1920s, motor freight was competing with rail service, and auto ferry service became an important part of S.P.'s offerings. After the Bay Bridge opened, the S.P. local service vanished entirely - the 7th Street trains stopped running in 1941. Large rail yards still exist south of 7th Street, but the intimate connection with the neighborhood seems to have died out around the 1930s.

(see continuation page 16)

Oakland Tribune, Alameda County Illustrated, 1898, p.145:



RAILROAD YARDS, WEST OAKLAND.
The Terminus of the Central and Southern Pacific Railroads.

eet or rural address: Oakland Point District - API State Form Part 1

19. Historical and/or Architectural Importance (continued from page 15)

NEIGHBORHOOD DEVELOPMENT (Context Codes 19, EQ, 20, W2, TR, RM, BU, IN; National Register Criteria A: Exploration/Settlement, C: Architecture)

Maps and contemporary reports confirm the impression that the railroad made Oakland Point. The 1857 Coast Survey map (Hegemann, p. 4) shows winding roads or trails among trees on most of the present neighborhood, the short (reportedly uncompleted) Bay Street pier, and what appear to be a couple of small fenced farms. The Oakland Transcript's 1871 promotional brochure, "Information Concerning the Terminus," describes Oakland of 20 years before as part of the Peralta cattle ranch, and Breiling says that in the early 1860s cattlemen rode their horses up to the bar in the Ridley House at 7th and Cedar. The 1860 Whitcher map shows West Oakland surveyed in multi-acre plots, with Adeline and 8th the only streets, 8th Street skirting a large marsh to the south from about present-day Market to Center Streets, which isolated the Point from the rest of town.

This marsh shows on maps from the 1850s and 60s as a vast diamond-shaped area a mile or more across, with substantial creeks or inlets winding through it to the narrow, shallow channel of San Antonio Creek (now called the Oakland Estuary). Part of this south marsh was subsequently occupied by the Southern Pacific Railroad yards, maintenance shops, and shipyards, and its outer edges in later years filled for the Oakland Naval Supply Depot and Port of Oakland Middle Harbor Terminals. Another marsh area lay to the north of the developing Point neighborhood, beyond about the present 16th Street. This northern marsh is the area now occupied by industry, the 16th Street S.P. (Amtrak) station, and Raimondi (Bay View) Park northwest of the residential area. For the most part it was not developed until the 20th century, and was never residential. On the edges of this north marsh, parts of some blocks were large vegetable gardens (Willow from 14th to 16th, in the 1902 Sanborn map), and farther north it was a city dump and sewage outlet. Part of the south marsh (south of 3rd, Poplar to Cypress) was also a garbage dump until it became S.P. freight yards around the 1920s.

The marshes were enjoyed by children and duck hunters (West of Market Boys' Journal, various references) but were a recognized public health hazard. Under the heading "THE DEATH MARSH: How the West Oakland Morass Slays the Little Children," the Oakland Tribune (February 23, 1892) quoted a Dr. Maher on three cases of typho-malaria in the 1600 block of 17th Street: "The West Oakland marsh comes right up to the doors. There is no place for it to drain into and the place around the house is slimy and sloppy. The malarial complications which I have found in these cases characterize the majority of the cases down there, and there is no other explanation." (One proposed solution, not acted upon, was to cut a wide ship channel east through the marsh to Adeline Street, and use the dredging to "fill the surrounding marsh to a hygienic height" - Tribune, January 3, 1891.) The marshes remained enduring natural boundaries until the era of residential development at the Point was past.

The 1870-71 birdseye view published by Snow & Roos has the Point in the foreground, and illustrates the rapid growth prompted by the railways. The present street system is well established, and the blocks on either side of 7th west of Wood are fairly densely developed. The CPRR yards are beginning to fill in, and the mansions of Rodmond Gibbons and C.F. McDermott each occupy a full block along 7th Street at Center. This map also prominently shows the marshes.

An 1881 birdseye, looking across central Oakland to the west, shows the Point as part of an unbroken urban area from Broadway west; a fully developed neighborhood, with houses on most blocks, church steeples, and commercial buildings along the whole length of 7th Street. (In these same decades, the population of Oakland as a whole grew from 1543 in 1860, to 10,500 in 1870, to 34,555 in 1880.) The 1878-79 city directory spotlights the Point in its summary of Oakland's progress and advantages (pp. 10-11):

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19. Historical and/or Architectural Importance (continued from page 16)

> LOCATION OF IMPROVEMENTS. It is always a matter of interest to know in what directions the tide of improvements is setting, and what are the causes for the preference of one locality over another in a city advancing to a great position in population and influence. Oakland has two leading thoroughfares - Broadway, running north and south, and Seventh Steet or Railroad Avenue running east and west. The latter owes its importance to the local railroad. At the various stations along the street business centers have been created, which may be said to owe their existence to the railroad. The most westerly station, at the Point, has assumed greater proportions and a more active business than the others, from its proximity to the Central Pacific Railroad shops, which give employment to a large number of men, who mostly reside in the neighborhood and trade at the local shops. The vote of this ward is considerably larger than that of any other in the city. The growth of this section is enhanced or retarded somewhat by the progress of railroad work, and by its prospective future course. The climate at the Point is fresher, cooler and more bracing than that farther away from the bay. To most people this is deemed desirable, while it is avoided by others in different circumstances of health. Building in this section has been fairly active during the year. There are fewer vacant lots in proportion to those already occupied than in other parts.
>
> Passing up to Center [Street] Station, we find that all the vacant ground in the vicinity is rapidly being improved. Fully one hundred houses of the better class were built during 1878, within a radius of one-fourth of a mile from the station. The value of improvements in the territory naturally tributary to this station was not less than half a million dollars during the past year.
>
> Good two story houses are to be obtained upon the installment plan on Eighth, Ninth, Chester and other contiguous streets, on most favorable terms.

The 1878 Thompson & West map shows the same changes in another form - all the big plots at the Point are now laid out in a grid of blocks with named streets and tracts and city-size 25' to 40' lots. Some of the early tracts shown on this map are Toland, 1868 (Wood-Campbell, 10th-11th), Casserly, 1867-69 (Wood-Campbell, 8th-9th), Bay View Homestead, 1868-69 (the South Prescott neighborhood) and Bovee Tract, south of 8th and west of Wood. Dates of the 848 existing buildings in the district show the same pattern: 16 probably built in the 1860s, 290 in the 1870s, 274 in the 1880s. In the boom decade of the '70s, for buildings which can be precisely dated, about 10 per year date from 1870 to 1873; about 30 each date from tax years 1874-75 and 1875-76, 50 from 1876-77, 65 from 1877-78, 32 from 1878-79, and 17 from 1879-80. The heaviest later building years were 1884-85 and 1888-89, with 50-plus each. (The oldest house in the district, the 1858 Watts house at 1436 Peralta, was moved there in 1898 from the Watts Tract in north Oakland. The probable oldest house originally in the district, Rodmond Gibbons' "Folly" of roughly similar date, was located on 7th between Chester and Center, but removed in its last vestiges sometime in the 1980s.)

The extant pre-1869 houses are all located on or west of Wood, from Goss to 10th Street (and one more is at 714 Pine in the now-separate Oakland Point ASI). One is an early San Francisco merchant's two-story Italianate villa - 801 Wood, home of Quincy Chase of Kohler & Chase pianos. The rest are 19th century vernacular, minimally Italianate or Greek Revival cottages and 1-1/2 story houses. The original owners of some of these 1866-69 houses are identified as carpenters, and they may well have built their own homes (e.g. 941 Pine, 930 Wood). A statement in the 1878-79 city directory may shed some light on early building practices, and the many houses at the Point that seem to incorporate a small, early vernacular cottage or saltbox in a slightly later, more fully-developed house: "Dwellings of more humble pretensions, mostly built for homes by the workingmen of the city, are by far the most numerous of all... It may be stated, however, that many of these consist of only a beginning of a house or rear part, as hun-

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19. Historical and/or Architectural Importance (continued from page 17)

dreds who have purchased lots for homestead purposes are not at once able to build a house complete, but are anxious to secure the use of their lot and to save rents. All this indicates thrift and a permanent accession of the bone and sinew of the country in the most desirable shape - that of property-owners."

By the early 1870s, the area had two large-scale developers. John Winfield Pearson, a speculator, farmer, rancher, and lumber mill owner with property all over the Pacific Coast, by 1871 had settled in a "large and magnificent residence at Oakland Point" and was developing houses there. Of the existing houses in the district, 1767 and 1771 11th Street (1871-72), 1782 8th (1873), 1671 11th (1874-75), and 1709 12th (1875-76) are identifiably his (from tax rolls). "Pearson's Row" on the west side of Pine had about 20 cottages, and there are almost certainly others unidentified: the News (July 27, 1874) referred to his "determination of tenanting his end of the city." Sketches of Leading and Representative Men in 1875 said he owned "one hundred and ten tenement houses in the city of Oakland … intends to build a great number … and has twenty or thirty houses under way at the present time."

About the same time as Pearson, John Ziegenbein settled at 1004 Peralta (1870-71). Ziegenbein was a German-born San Francisco produce commission merchant who went into land development in West Oakland "and did more than anyone to furnish homes to the people of the First Ward," building almost 300 "houses of plain design but substantial workmanship" and selling them on the installment plan (obituary, Tribune, January 17, 1889). The Enquirer obituary (same date) praised him as a benefactor who enabled people to own homes and kept "a large force of men almost constantly employed" over a period of 18 years. City directories regularly mentioned him in their reports on the year's building improvements - 35 houses in 1879-80, "about 30" in 1880-81. The Enquirer obituary identified Peter Swanson as his foreman at that time, and a group of houses in 1874 (938 to 1102 Chester) appear to have been built in collaboration with Bacon & Dinsmore, but who did the actual building or design for Ziegenbein is not known. About 100 of his houses have been identified among the existing buildings in the district, from tax records and occasional newspaper building lists. The largest number are close to his own house, along Peralta, Chester, Center, Henry, 8th, and 9th Streets, and are one- and two-story 1870s Italianates of two or three fairly standard designs. In the '80s he was building Stick houses and cottages, apparently one or two at a time rather than in larger tracts (850 and 866 Pine, 1454 and 1456 9th, 927 and 931 Chester, 1537 and 1531 9th). Ziegenbein's houses may have been "of plain design" but they were not backward in style - by the late '80s he was building Queen Anne cottages (872 and 876 McElroy, 1218-1234 Campbell, 1101-1125 Peralta). His groups of matching houses still give Oakland Point architectural coherence and a distinctive identity.

Other people besides Ziegenbein and Pearson developed smaller tracts of houses at the Point in the 19th century. French mining engineer Amedee Blanc and collector Aime Fossard developed a particularly striking group of eleven Stick cottages at 12th and Peralta (1884-86), which they kept as rentals for many years. Ann Harris owned a group of 7 Queen Anne rental houses (1011-1111 Center, 1887-88) which were apparently developed by H.S. DeFremery. The DeFremery family, whose 1867 estate outside the Oakland Point District at 16th and Adeline is now a city park, were capitalists with enterprises citywide; so were Galindo & Glascock, who developed and sold 9 houses at 1105-1135 Wood Street in 1884, and show up as developers in marsh areas elsewhere in Oakland. Many neighborhood residents developed a few houses for rental or sale. Some were early large landowners subdividing their property: Christian Bagge, a Danish farmer (1321 Peralta, 1660 14th), Quincy Chase, San Francisco music dealer (801-835 Wood, 1872-73 and 1884-85), Ferdinand Koenig, a brewer who owned and developed the block at 13th and Willow now occupied by a park (1651-1653 14th, 1885-90). Others were local merchants and tradespeople: the Hufschmidt family, plumbers (1725 and 1729 10th etc.), candy manufacturer August Albrecht (1552-1560 8th at Peralta, 1876-77), stove and tinware dealer James de la Montanya (717-729 Willow etc., 1889-90). Some were carpenters,

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who very likely built the groups of houses they owned: Patrick Dempsey (710 and 714 Henry, 1877-78), Peter Sorensen (921-933 Willow, 1881-82), Alvin B. Tarr (1414 10th, 1882; 919 Cypress, 1885-86; 1438 10th, 1889-90), Joseph Pettitt (929 and 933 Wood, 1889-90).

A look at the list of names and dates in the district, and at the houses themselves, reveals many more neighborhood residents who owned two or three houses, usually matching, and lived in one and rented the other(s). These small landlords represented all the occupations found in the district - grocers, artisans, building trades, railroad employees at all levels, factory and laundry workers, widows, waiters, saloon and boardinghouse keepers, not much different as a group from their tenants. Large and small houses mix in all parts of the neighborhood, giving at least partial support to early accounts and reminiscences of the Point as a place where class lines where unimportant. Censuses and voting registers show that many households also had unrelated lodgers - often traveling railroad men. Tenants moved frequently, especially railroad workers, and for some houses no residents can be identified. On the other hand, some residents - both owners and tenants - stayed in the same house for 50 years and two or three generations, up to and beyond World War II.

By the time John Ziegenbein died, Oakland Point was in many ways fully developed. 582 of the district's present buildings were in existence - 70% of all buildings now there, 80% of those built before 1910. Only 85 were built in the whole decade of the 1890s, 78 in the 1900s, and 24 in the 1910s. 1888-89 was the last big boom year for construction - 50-plus buildings in the district, as well as many commercial buildings adjoining the district on 7th Street. West Oakland in the late 1880s and early 1890s is the classic West Oakland remembered by the generation who became old timers in the 1930s and 40s, and described in detail in their West of Market Boys' Journal and elsewhere.

An important part of all these early descriptions of the district is the transportation system -- trains, streetcars, and horsecars. The Point was well served by transit: the 7th Street local trains from 1863, by the late '70s a horsecar line out 14th from downtown to the SP station at 16th and Wood with branches to Wood and 7th Street (the 14th Street Railway/Consolidated Piedmont Cable Co. carbarn, 1450 14th Street, is a relic of this system), and after about 1891 a network of electric street railways passing within 2 blocks of anywhere in the Point (map in Oakland Enquirer, July 8, 1893). Stations and transfer points supported lively business centers at 7th and Wood, 14th and Peralta, and 17th and Peralta. Like housing, transit at the Point was virtually fully developed by 1893: the coming of the Key System, which consolidated Oakland's street railways in 1903, meant mostly a change of administration of the Point's existing services, while elsewhere in Oakland it created whole new streetcar suburbs. These new neighborhoods perhaps drew away some of the Point's upwardly mobile residents, and thus the Key System accelerated social changes in the district.

Building at the Point after Ziegenbein's time was mostly infill. In the early '90s the Baseball Grounds tract was subdivided on 14th east of Center. The ball field (also used for exhibition fights and a Wild West show - Breiling, p. 44) was part of the property of the Contra Costa Laundry, a major local employer. On this block Elias Fred Sandelin, a 7th Street druggist, developed several houses (1410 to 1420 14th) between 1894 and 1900. Other late houses went onto lots created out of large single homesites: the group of high-gabled shingle style houses at 9th and Peralta (1522 and 1532 9th, 912 Peralta; 1899-1900, A.W. Smith, architect) are on lots sold off from the grounds of the Gensoul mansion where peacocks once roamed (see SHRI form for St. Patrick's Convent, 920 Peralta). Once the district was built up, the way to improve one's living standards was to enlarge and modernize an existing house. Sometimes tax records describe and assess the work ("new front," "raised," etc.), and sometimes there is only the visual evidence of the building itself. A good example is 1454 8th Street, the Samm-Dalton

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house, an early industrialist's large 1877-78 Italianate transformed in 1895 by another manufacturer-politician into an elaborate Queen Anne. Others, out of many, are 1717 and 1730 8th, 1740 11th, 1414 and 1685 12th, 1477 14th, 1115 Chester, 840 and 1436 Peralta, and 824 Wood.

Somewhat ironically, architects' and builders' names are recorded only after the Point's heyday of development. From California Architect and Building News, Edwards Trancripts, and, after 1905, city building permits, architects' names can be attached to 31 buildings before 1920, the earliest an 1884 Stick cottage by Thomas Newsom (722 Henry) and the next an 1889 Queen Anne cottage by A.W. Smith (1526 9th). Smith has 7 other identified or attributed houses in the district, dating from 1898 to 1902 (919 Center; 912, 1031, 1035, and 1039 Peralta; 1522 and 1532 9th Street), making him by far the most-recorded architect at the Point in its later years. (For discussion of Smith and his turn-of-the century houses, see SHRI form for the Summers house, 1105 32nd Street, in the Clawson Neighborhood.) Other major Oakland architects and builders of the 1890s and 1900s have a house or two known at the Point: Charles Mau (who lived in a Ziegenbein house at 1004 Chester in his youth) designed 1477 8th (1892) and 1620 14th (1905), 905 Willow (1890-91) is by A.W. Pattiani, 1748 9th (1901) by Cunningham and Politeo, and C.M. MacGregor was the builder for Smith's 912 Peralta and 1532 9th. John Conant and Albert W. Cornelius (1410 8th, 1894), F.W. Delanoy (1406 8th, 1894), J.C.S. Whalin (718 Henry, 1892; 823 Wood, 1896), and Fred Voorhees (1216 Willow, 1902) are other turn of the century architects who found at least one job at the Point.

By about 1890 and especially after 1900 it was common to build flats, or convert older houses (though occasional flats and side-by-side duplexes were built from the earliest years). A few are part of the residential building boom that followed the 1906 earthquake, but most are earlier: Oakland Point outside the marshes was fully built up, and did not strongly participate in either the Key System boom or the earthquake boom that are so important elsewhere in Oakland. Only about 25 buildings in the district date between the earthquake and 1910. The post-earthquake building boom took place mostly in close-in undeveloped areas like Adams Point and Glascock's marshland north of Lake Merritt (Waverly Street), and in areas newly opened by expanded Key System and Southern Pacific transit service. The effect on West Oakland, in a sense, was secondary: its homes began to look older by comparison, and less desirable. In 1912 Myron Wurts developed 8 similar Craftsman speculative and rental houses in two clusters (1230 to 1240 Willow, 1689 13th, 815 and 817 Henry, 830 and 834 Peralta). After that only a building or two a year was added to the district, and increasingly these were commercial. Here and there, residents built or rebuilt homes in Prairie, bungalow, and Mediterranean styles, as well as some late Colonials which are barely distinguishable from pre-earthquake ones. There are only about 14 of these later-styled houses in the district (e.g. 1414 Campbell, 1716 9th, 1427 Campbell, 1788 9th, 911 Wood).

The Hegemann report (1915) published a map showing "distribution of individual dwellings built in Oakland in 1914", with the comment that "West Oakland has become to a considerable degree industrial and few homes of any kind are being erected." This did not mean that industry was replacing homes, however. New industries came into West Oakland in the 1910s, but mostly to the marsh area bordering the District around the 16th Street Station (e.g. Oakland Mazda Lamp Works, 1910-17: see SHRI) and to new terminals in the Outer Harbor. (An exception is the Shredded Wheat factory, 1914, on 14th Street in the Oak Center neighborhood to the east, considered to have started the decline of that area.) At the Point, the California Door Company and Wentworth Boot and Shoe Factory near the station were old established uses (and employers), as were the rail and shipyards, and the Dalton Foundry and Pacific Coast Canning Company along the shoreline west of Pine Street from about 10th to 14th Street. A map of "Industrial Development as of December 31, 1929" in the 1930 Tribune Yearbook still shows only these sites, surrounding a solidly residential district not much different from the present boundaries.

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Through the 1910s, 20s, and into the present, stores, gas stations, churches, restaurants, and even a theater (1488 14th at Peralta) continued being built in the district in small but steady numbers, the adjuncts of a living residential neighborhood. In the 1921 Tribune Yearbook West Seventh Street (from Market to Bay) was described as "By far the largest of [Oakland's] business subcenters ...with 227 retail stores of which 52 are grocers and meat markets, and 5 drug stores." (The next largest had 122.) For years it was said that one could live one's whole life without ever needing to leave West Oakland.

When Oakland was first zoned in 1935 the entire Point west of Poplar was zoned industrial, and the zoning remained so until 1974. Industrial development still took place only along the fringes - Phoenix Ironworks and other large complexes along Pine, additional Outer Harbor development. Major change came to the neighborhood in the form of residential redevelopment. Beginning in 1939, following studies by the WPA and the city (which documented the need for the project by means of maps locating substandard housing, juvenile delinquency, disease, and "non-white families"), the 154-unit Campbell Village housing project was constructed by the new Oakland Housing Authority with federal relief funds on the 2-1/2 blocks bounded by 8th, 10th, Willow, and Campbell Streets. Soon afterward a similar project, Peralta Villa, was built 3 blocks west between Cypress and Union Streets. Accounts of neighborhood reaction to the Campbell Village plan ("Riot Over Housing Disrupts Council," Post-Enquirer 7/14/39; "Confiscation and Discrimination Charges Are Made," Tribune 4/14/39) and later recollections suggest that this was a real social and economic breaking-point for the neighborhood, though the Depression-era deterioration and population shifts which prompted the study and the project were real. One of the West of Market Boys in 1939 wrote of "the wrecked and weatherbeaten shacks on either side of the street that were well kept and happy homes when I was a boy"; black activist C.L. Dellums and the Labor Non-Partisan League campaigned for needed low-rent public housing, and part of the public opposition was that houses elsewhere in the neighborhood were in worse condition than those selected for redevelopment.

Further physical changes came during World War II - houses and commercial buildings were extensively remodeled to create emergency housing (1125 Campbell, 1650 14th, 1405 Campbell, 1727 12th, 1620 13th, 1411 Peralta), and the division and expansion of single-family houses into rental units accelerated, to the extent that today almost every cottage has a basement unit, often dating from the '40s. A third housing project, now called Westwood Gardens and much modernized, was built in 1942 by Moore Shipyards for its war workers on the old McDermott estate between 7th, 8th, Center, and Cypress. (There were also at least three temporary wartime dormitory complexes in the industrial areas adjoining the district.) In the postwar years, in the mid-1950s, the district was reshaped by freeway construction along Cypress Street, cutting the "West of Market" neighborhood in half and brutally isolating the west half - the Point - from the rest of Oakland. Construction of the rapid transit station and main post office around 1970 destroyed what remained of the local commercial and social center along 7th Street and much of the residential area south of it. The Point residential district, though, is still largely intact if isolated: in the words of historian Tom Wolf (Peralta College Oakland history course), "from the West Oakland BART station you can see a 19th century suburban village."

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Photo No: 491-17
Date: 09/04/87
Location: OAKLAND POINT API
1551 TO 1561 8TH, ZIEGENBEIN

Photo No: 495- 2
Date: 09/04/87
Location: OAKLAND POINT API
1467 & 1473 9TH ST, ZIEGENBEIN

Street or rural address: Oakland Point District - API State Form Part 1

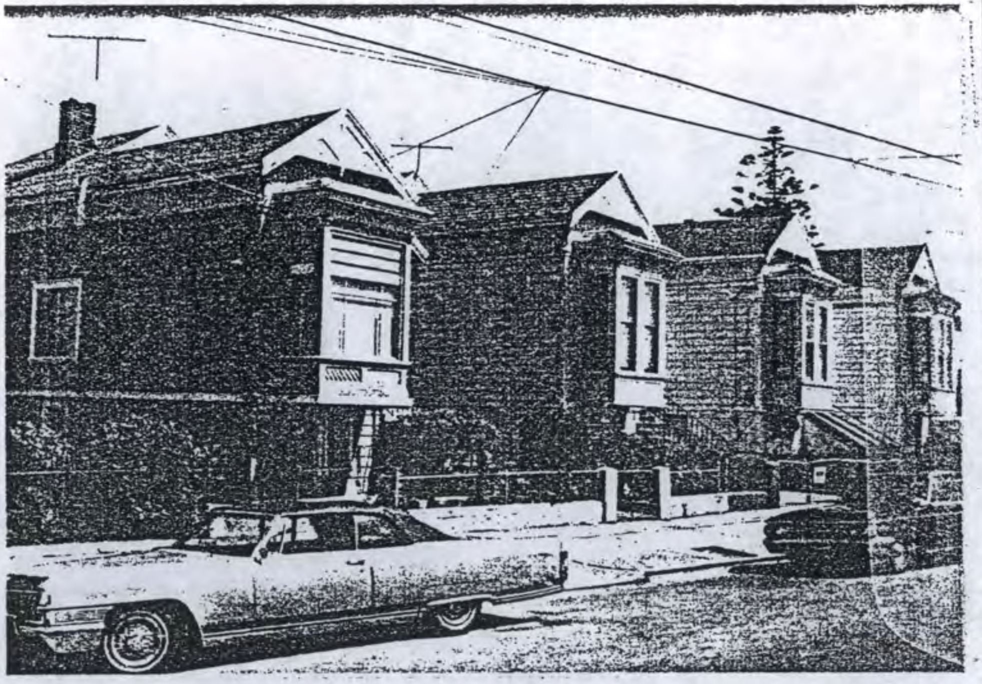

Photo No: 455-24
Date: 07/02/87
Location: OAKLAND POINT API
1202 TO 1214 PERALTA ST, GROUP

Photo No: 493-21
Date: 09/04/87
Location: OAKLAND POINT API
1429, 1425, 1421 16TH, 1888-89

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Photo No: 456-16
Date: 07/02/87
Location: OAKLAND POINT API
904,912 PERALTA,1532 9TH,1890S

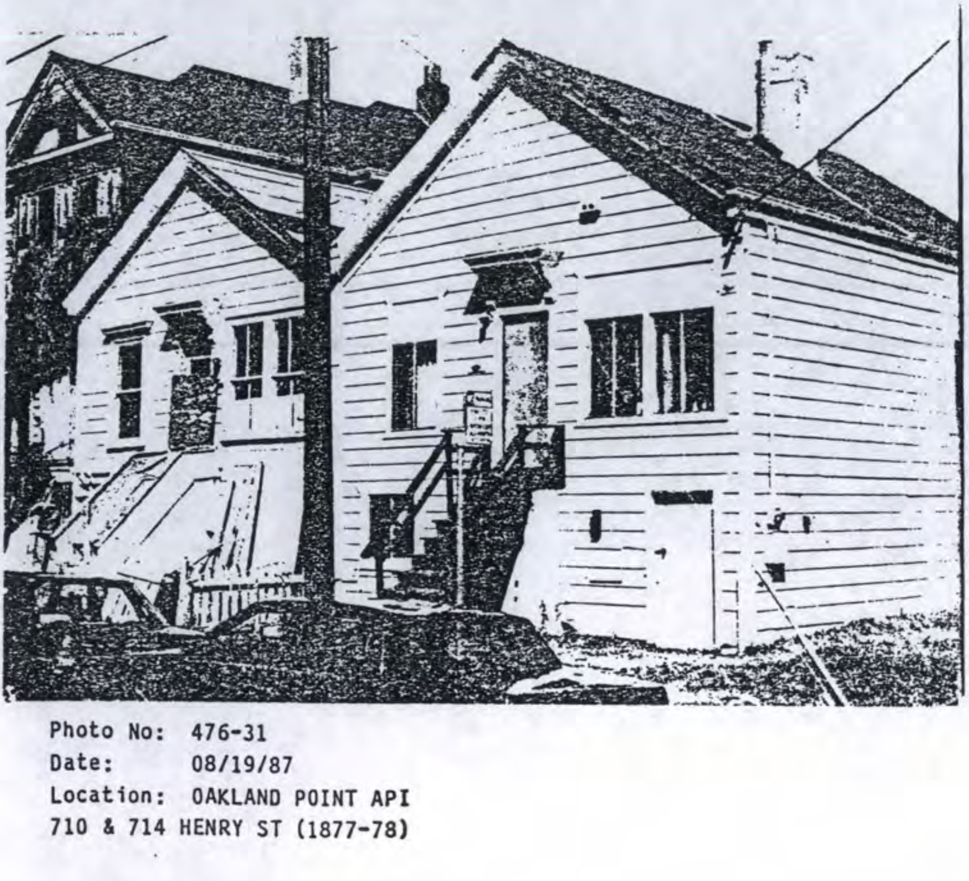

Photo No: 476-31
Date: 08/19/87
Location: OAKLAND POINT API
710 & 714 HENRY ST (1877-78)

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SOCIAL, CULTURAL, AND ECONOMIC LIFE AND INSTITUTIONS (Context Codes CO, RR, AG, IN, WW, LT, RM, PS)

West Oakland before World War II has a Golden Age reputation which appears in too many sources and in too many forms to be pure promotion or pure nostalgia. The keynote is always that the community was a melting pot of classes, nationalities, races, and, for that matter, land uses.

West of Market Boys' Journal, Oct. 1950:

> Everyone at the Point, be he laborer, mechanic, business or professional man were all neighbors. No class lines were drawn. No poverty, no bread lines, and few wealthy people. Wages were not large, hours of work rather long, but everyone was satisfied and happy.

William McFarland, "That's That," Western American (a black Oakland newspaper), April 29, 1927:

> Here Briton, Teuton, and Slav, yellow men, Latin and Black live and toil in an atmosphere of peace and harmony… A comradie (sic) of good fellowship has grown among them that cannot be found in any other spot along the Pacific Coast. Here men are workers and beneath the grime of honest toil beat hearts of purest gold.
>
> Here churches are plentiful and well attended and spacious schools… there no mansions; here are no slums… Here tenant owns the home and takes pride in the love of possession… Here girls are prettier, boys are stronger and babies capture the blue ribbons of excellence. Here the sun shines brighter and the birds warble sweeter and all nature lends lavishly of her charms.
>
> There are many other reasons why we like West Oakland, but these will do for the present.

(Neighborhood boosterism is of course perennial: in the Oakland News of May 20, 1875, "The Point people…brag in the manner and form following, to-wit: They have the two largest vegetable gardens; the largest laundry; the biggest windmill, the only shipyard, the most waterfront, the greatest numbers of prospective railroads, the shortest distance to the city of San Francisco," and so on.)

The largest collection of West Oakland vignettes is found in the West of Market Boys' Journal, published monthly from 1936 to 1959 by an organization of old-time West Oaklanders, by that time mostly living elsewhere and unabashedly dealing in nostalgia. The most extensive of these detailed first-hand accounts is the series "A Sightseeing Tour of West Oakland in the Late Eighties and Early Nineties" written by Ed Anthony, M.D., in 1939-41, a house-by-house and person-by-person tour which vividly evokes the lively, prosperous neighborhood, fleshing out the names and occupations and addresses normally available to historians in censuses and directories and block books, and recording the vanished 7th Street businesses and the constant travel that animated the area. A sampling:

> That red building to my right in the distance is the Round House and the framework in the foreground is the S.P. Shipyard. At times the carp are so thick in the mud flats out there the all that is required to go fishing is a club…boys come here and dig for clams which they sell to housewives in the neighborhood (or)…to Charley O'Gara at the Fire House on Eighth Street and Charley makes clam chowder for Bill Ennis, the driver of the Fire Engine, …Mike McGuinn the driver of the Hose Cart, and others … There have been so many accidents at this crossing where the Berkeley Local and Oakland Trains speed around this curve to enter the Oakland Mole that it has been named 'Death Curve.' This is Bay Street … Railroad men take a pride in their watches …, so Mr. Fry, the

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jeweler next door, is kept busy repairing their watches. This section … is a regular rendezvous for politicians. Guess that there is soon to be election as I see a group of prominent S.P. politicians with their heads together up the street. The big man … is Wm. McKenzie, master mechanic. The others are Dan Robertson, master bridge builder, Al McKeen and W.B. Ludlow, master car repairers. Ludlow's hobby is gardening. He has a hot-house containing rare plants from all over the world [on 8th, now Campbell Village]… Right here on the corner is Lozier's Grocery. Mr. Lozier is a fine, generous men who has a large book account and he is liked by all of the people in this neighborhood. The railroad strike at a later date broke him…

Just look up Eighth street …, those tall poplar trees, as far as the eye can see. This is one of the prettiest drives in Oakland … Many of the business men and bankers doing business in San Francisco and living in Oakland drive down Eighth street in the morning in their classy victorias and board the train at the 'point station,' and they are met at Wood street on their return in the evenings by their wives. I recall Mrs. Pedar Sather and her fine span of horses and coachmen who were often seen along this highway…

We will now drive north on Pine street passing the home of Patricks, an S.P. fireman, and next the McCuens, Billy, Ada, Kittie, George and Jack. Fred Clifford, a car inspector for the S.P., lives in there on Maple street. Over here on this corner is the home of Billy Norton, Chief Train Dispatcher of the S.P. Capt. Tietgen lives next door with Alfred Champreux and his family. Frank Carman, a carpenter, and Jensen, the tailor, live in the next two houses. Across the street is what is known as "Pierson Row." Wm. Wilkinson lives in the first house. He is a carpenter for the S.P. Billy is a fireman. George is employed by the same company. He was later killed in a railroad accident…

John and Pat Fannon, S. P. employees, live over there. John Ziegenbein, a real estate dealer in San Francisco and the subdivider of this section, lives in that large white house with the attractive gardens. He has a son Johnnie and a daughter, Annie. … G.L. Curtis, a capitalist and horse fancier lives in that large house across the street facing Campbell St. He has a son, Burt, who is in the police department … Andy Ryder, an old time S.P. main line conductor, lives in that large home this way. It is reported that he is about to retire on a pension and that he has sold his home to Father McNally who is going to use it for a parish house … Some women, returning home from a Methodist Church meeting, were passing the Ryder home after it had been purchased by Father McNally. Father Mac was remodelling the house to accommodate more people. One woman said to the other "I wonder why they are enlarging that house?" Another spoke up, "Father Mac's family are coming home."… That is St. Patrick's Church across the street. The old white horse and phaeton parked in front is the transportation system of Father Mac … adored with reverence by all who know him. He is a political power in West Oakland and any candidate for election who has his endorsement can just consider himself elected…

There to our left is the Second Congregational Church, whose congregation included such families as the Hanfords, Ludlows, Youses, Surrhynes, Woodalls, etc. The pastor is the Rev. Frear who lives on Peralta Street. ….

Josiah Gibbs is a carpenter and does some collection work on the side. Hiram Hatch, a carpenter lives over there. His wife is a dressmaker. Looking down Willow Street toward Seventh, Thad Phillips, a Pullman porter, lives upstairs over that store… Mose Morris, a wealthy Pullman porter, lives in the next house … he has two daughters, Elaine and Lettie, who at a later date was a bookkeeper for the Contra Costa Laundry … in that large house around the corner on Campbell Street

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> Wm. Wagner … is a capitalist and one of the officers of the West Oakland Building and Loan Association … It is here [W.O.B. & L.] that Andrea Sbarboro is making so much money that he is going into the banking business in San Francisco and is also promoting the Italian Swiss Colony … As we were driving along 12th street and Willow, I forgot to mention a family of some consequence on 13th St. Wm. W. Henry is a commission merchant in S.F. He has two daughters … Aurelia now Dr. Aurelia Reinhardt, President of Mills College…

In this memoir and in other records, the great number of railroad jobs stands out, along with a few other large local employers like Contra Costa Laundry and California Door Company; the endless variety of all other trades and professions making up a self-sufficient community; and the mixture of large and small houses and large and small businesspeople side by side. The number of working women in notable - wives and daughters of working men as well as single women and widows - as dressmakers, bookkeepers, teachers, laundry workers, proofreaders and compositors, keepers of notions or fancy goods stores and boarding houses, as well as less common occupations like physician and real estate agent. In the 1880-81 Pacific Coast Business Directory listings for West Oakland (at that time "a distinct post office") there are at least 15 businesses headed by women, fancy goods and bakeries the most numerous.

San Franciso commuters not only passed through on 8th Street, they lived at the Point, and they too had jobs at all levels. Several residents worked at the mint or the custom house (e.g. Andrew Hollywood, 1668 12th), and there were printers, carpenters, and machinists who held jobs across the bay as well as merchants and manufacturers who owned San Francisco businesses, like Quincy Chase (801 Wood; pianos), showcase manufacturers John Dixon and Charles Borgeson (neighbors at 925 and 927 Willow), commission merchants William Henry (whose house no longer exists) and John Ziegenbein (1004 Peralta) and Austin Hills (1558 8th, later of Hills Bros. Coffee), and dry goods merchant John F. Hink (938 Chester, later of Hink's department store in Berkeley).

Oakland industrialists who lived at the Point in the 19th century included Henry Dalton (1454 8th), whose ironworks was located along Pine; Jacob Samm (1454 8th before Dalton) and John C. Westphal (1475 8th, gone; rental property at 1477 8th) who ran Samm & Westphal's Bay City Flouring Mill downtown, Thomas Corder (932 Center) who had a tannery and stockyard in Emeryville, saw manufacturer Nathan Spaulding (1040 Peralta), Ira Martin Wentworth (1626 14th) whose boot and shoe factory adjoined the 16th Street Station, Thomas Henneberry (1685 12th) who owned the Phoenix Foundry at 1st and Castro, brewer Ferdinand Koenig (rental houses survive at 1657-1661 14th), and Daniel Hayes who built firetrucks (1501 8th).

Most of the proprietors of neighborhood businesses lived in the area, sometimes above the store: the Zeisses and Breilings of the Western Market (later Liberty Hall, 1485 8th: see SHRI) and surrounding rental property; the Bullock plumbing family (1626 and 1630 12th, 823 Center, 1558 8th), restaurant keeper John Cumbelich (718 and 720 Henry), candy maker Christian Schrieber (1107 Willow), William Walsh of the Center Junction Cash Grocery and saloon on the flatiron block at the north tip of the district (1615 Center), 7th Street druggists Charles Morey (824 Wood) and Elias Fred Sandelin (1410-1420 14th, 1001 Chester), baker Conrad Thaler (1502 and 1516 8th), grocers John and Matthew Nunan (822 and 824 Henry) and Rose and James Curran (1042 Willow), and many other grocers, butchers, saloon keepers, plumbers, hardware dealers, and other proprietors, as well as their employees.

Many Point residents worked as building tradesmen or artisans, alone or as employees: carpenters, plumbers, machinists, painters, plasterers, metalworkers, etc. Some of the carpenters who appear as original owners of houses may have been the builders: Beriah Fisher (941 Pine, 1867-68), Thomas Johnson (930 Wood and 1733 10th, 1868-69), Maxwell Long (1798 9th, c. 1868), Zeno P. Nickerson (819 Willow, 1875-

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76), Charles Lougee (1523 8th, 1875-76), Alex Bruce McDonald (1010 Wood, 1876-77), Willim Tuggey (1514 Peralta, 1877-78), Thomas Cogan (1744 8th, 1881), Alvin B. Tarr (1414 and 1438 10th, 1882 and 1889-90), Silas Carle (1309 and 1311 Center, 1882-83), Peter Svenson (905 Pine, 1883-84), Joseph Pettitt (929 and 933 Wood, 1889-90), Hyacinth Gil (1442 and 1448 10th, 1880-81 and 1891-92).

Several residents classified themselves as farmers or ranchers, or in mining, and Barbados-born whaling master William Shorey (1782 8th Street - see SHRI) made his living on the high seas. John Treadwell, 926 Center, was part of a well-known Alaska gold mining family that later developed coal mines and brickyards in the Livermore area. Rodmond Gibbons, of Gibbons' Folly and the S.F. & O. Railroad, was apparently another retired miner ("accentric," according to Breiling). Christian Bagge, who arrived in the 1860s and owned a whole block at 14th and Peralta, probably operated as a "farmer" right there; Laban Langley, called a farmer in the 1890s when he lived at 1422 9th Street, and some other Langleys on Willow called ranchers, may have had their acres outside the Point by that time. The 1892-93 directory lists H. Yoshiike's nursery at 16th and Willow with "ornamental evergreens, flowering shrubs, greenhouse plants, new and rare chrysanthemums and roses." The Grondona family, long a name in the Oakland Produce Market, had vegetable gardens at the north end of the district and lived nearby along Wood and Willow north of 13th, now site of warehouses and a 1980s townhouse project. One other open-air occupation was that of George Van Haltren, professional baseball player (941 Center, 737 Henry).

Point residents were active in various ways in city and neighborhood civic affairs. Saw manufacturer Nathan Spaulding (1040 Peralta) was mayor of Oakland in 1872-73. Henry Dalton (1454 8th) and Eugene Garrison (1144 Peralta, 1472 13th, 1527 8th) both served as county assessor, one starting as a foundry operator and the other as a timekeeper for the S.P. William Hynes (1421 17th) ultimately became District Attorney. Breiling concluded in 1935 that Oakland's "...judges, and county officials, are practically to a man, products of West Oakland" and named Dalton and Walsh among the neighborhood's "old time politicians" (p.18, 32). Charles Redington (1678 10th), S.P. paymaster and treasurer, served on the Board of Education in the early 1900s. Captain Shorey and his wife were active in black philanthropic affairs, and a street at the Point has borne their name since 1907. Father McNally, who presided over St. Patrick's (Catholic) Church for 35 years (1878-1913), was a political as well as spiritual power in the First Ward.

Residents in other types of public service included police officers (Bert Curtiss, 1101 and 1107 Campbell; Patrick Hynes, 1421 17th; Dennis Holland, 903 Pine), firemen (see SHRI for Engine Co. No. 3, 1681 8th Street), and teachers. St Patrick's residence, now at 1625 11th, housed the anonymous teachers of the parochial school. Teachers at the Prescott public elementary school - established 1869 - lived in the district (Ed Anthony gives names: they were mostly women, largely Irish, and rarely householders). Thomas O. Crawford (1531 9th) was principal of Prescott School in the '90s, after serving as superintendent of the Home for the Blind on Telegraph Avenue; he also ran a private boarding school on or near Peralta Street. Charles Burckhalter (914 Chester) was a prominent astronomer and director of the Oakland school department's Chabot Observatory. Lillie Stetson (831 Center) taught at the West Oakland Free Kindergarten at Peralta and Pacific, and other district residents worked at the West Oakland Home for orphans (incorporated 1888). Luke Parker (720 Peralta) was curator of the West Oakland Free Reading Room (see SHRI for 7th Street Commercial District).

Like the commercial district along 7th Street, early West Oakland institutions - churches, schools, halls - scarcely exist as buildings today. St. Patrick's Church is represented by its rectory (moved to 921 Chester), the teachers' residence (1625 11th), and the convent (920 Peralta), but the school and the

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church itself were replaced after World War II. Prescott School is also a new building: the church and school, which adjoin Campbell Village, are now part of the gap in the Point historic district, at least for National Register purposes, instead of its centerpieces. The storefront at 712 Peralta which replaced the 7th Street Free Reading Room as the branch library in 1907 still exists, but the library branch was moved to 18th and Adeline, east of the freeway, in 1977. The West Oakland Home was on the Campbell Village site, the Free Kindergarten where the new post office is. The first site of the Fannie Wall Children's Home, a black institution founded in 1918 and at this location until 1928, still stands at 1215 Peralta, now a private house. Sole survivors of the numerous lodge and social halls at the Point are Liberty Hall, 1485 8th (see SHRI), originally a store and flat, converted to civic use in the 1920s, first by Marcus Garvey's Universal Negro Improvement Association and then by Father Divine's Peace Mission; and the former Alcatraz Lodge Masonic Hall, in the 7th Street Commercial District at 715 Peralta, built in 1899 and totally remodeled in 1943 for wartime housing. One union hall survives at 1716 7th Street, in the 7th Street District, where C.L. Dellums headed the Brotherhood of Sleeping Car Porters from 1934 to 1978.

Around 1890 there were at least 11 fraternal, social, and labor halls in the Point, among them Hansen's Hall at Wood and Goss, a political meeting place, Germania and Cavalry Halls favored by the "social element" (Breiling, p. 8), and Kohler's Hall at Center Street Station where the Brotherhood of Locomotive Engineers, the Yard-Masters' Association, the Odd Fellows, and a number of other organizations met (Enquirer, July 22, 1886). The Masons, Foresters, Knights of Pythias, Druids, Woodmen of the World, American Legion of Honor, Ancient Order of United Workmen, Knights of Honor, Chosen Friends, and Young Men's Institute all had at least one branch at the Point. The 1872-73 directory lists a skating rink at Pearson Hall, NE Wood and Railroad Avenue, O.P. (Oakland Point). There was a West Oakland Ladies' Aid Society (Times, April 18, 1878) and a West Oakland Improvement Association (Enquirer, Aug. 17, 1889). At least five newspapers are known from scattered references and directory listings to have operated at least briefly: the Semi-Tropical Press, 1874, the West Oakland Home Journal, c. 1886, West Oakland Herald, 1888, West Oakland Star, c. 1890, and West Oakland Sun, c. 1892-93.

If the tales of Father McNally are to be believed, the Point in the 19th century was close to being a one-church town. St. Patrick's was established in 1878 as an offshoot of St. Mary's downtown for a community of predominantly Irish railroad workers, and today "after changes upon changes" (the title of its centennial booklet) it is still a spiritual and community service center in the neighborhood, notably through the housing and job development activities of Jubilee West. The one extant historic church building in the district is the Chester Street Methodist Episcopal Church, 835 Chester, built in 1888-89. (About 1920 it became the Parks Chapel A.M.E. Church, and when Parks Chapel moved uptown, the True Light Church of God in Christ.) In the 1890s there were two other Methodist Episcopal churches at the Point, Norwegian-Danish (Campbell near 9th) and Swedish (10th and Center). Others were Second Congregational, on Chase between Wood and Willow, St. Andrew's Episcopal at 9th and Cypress, and a second Catholic church, St. Joseph's at 7th and Chestnut, a Portuguese national parish. St. Joseph's was established in 1891 to serve the large Portuguese community in South Prescott and to some extent the growing Italian and Spanish-speaking communities (Italian and Slavic immigrants were also absorbed by St. Patrick's). Still farther east of the Point proper, serving another group of its residents, was the Shiloh A.M.E. Chapel, located at 7th and Market from 1863 to 1884. Organized in 1858 "in a small house on 5th Street near the Point" when the black residents of Oakland and Brooklyn numbered about 40, this was one of West Oakland's earliest churches, and a social and educational center that probably helped establish Oakland's Afro-American community near the Point even before the railroad came. The San Francisco A.M.E. church organized camp meetings in the fields near Shiloh in the 1860s (Hausler, 1984). The present-day descendant of Shiloh Chapel is First A.M.E., located at 15th and West Streets from 1884 and now relocated to

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37th and Telegraph not far from Parks Chapel. Churches in the district today are probably as numerous as ever, and belong almost entirely to black denominations. Except for 835 Chester, they are a mixture of converted houses and storefronts and postwar church buildings. Besides True Light C.O.G.I.C., they include Morning Star C.O.G.I.C. (745 Willow, 1945-46); Mount Zion, True Light, and New Bethel Missionary Baptist Churches; New Jerusalem, Mt. Carmel, and Center Street Baptist Churches, and Mt. Zion Spiritual Temple (West Coast Kingdom, 1488 14th).

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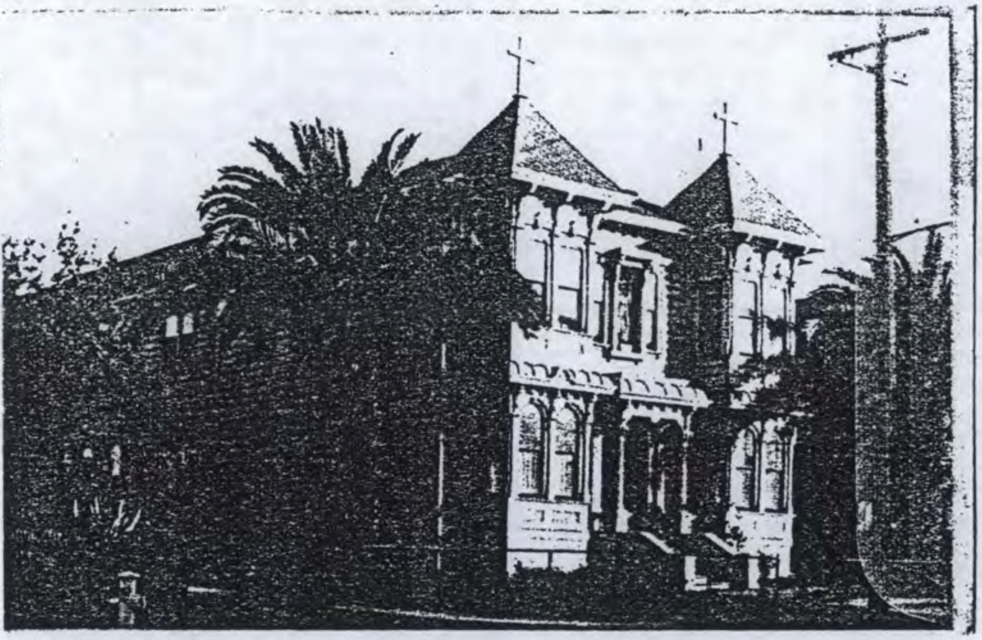

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Date: 09/30/89
Location: OAKLAND POINT API
ST. PATRICK'S CONVENT IN 1932

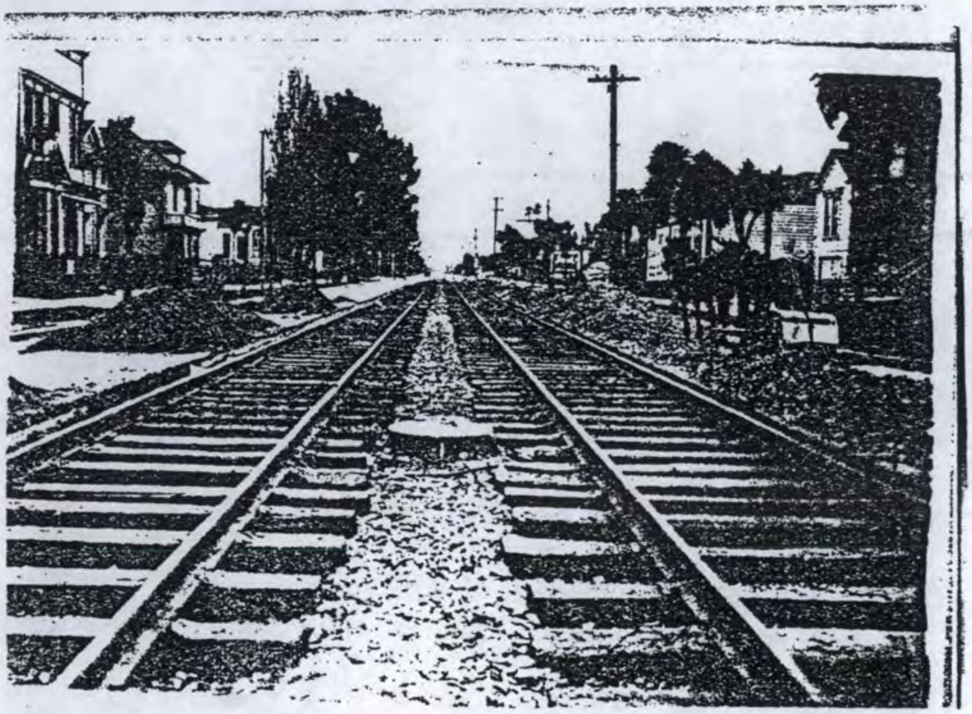

Photo No: 508-31
Date: 09/30/89
Location: OAKLAND POINT API
WEST 8TH ST, EARLY 1900S

eet or rural address: Oakland Point District - API State Form Part 1

Photo No: 465- 1
Date: 07/29/87
Location: OAKLAND POINT API
1450 8TH ST, SAMM-DALTON HOUSE

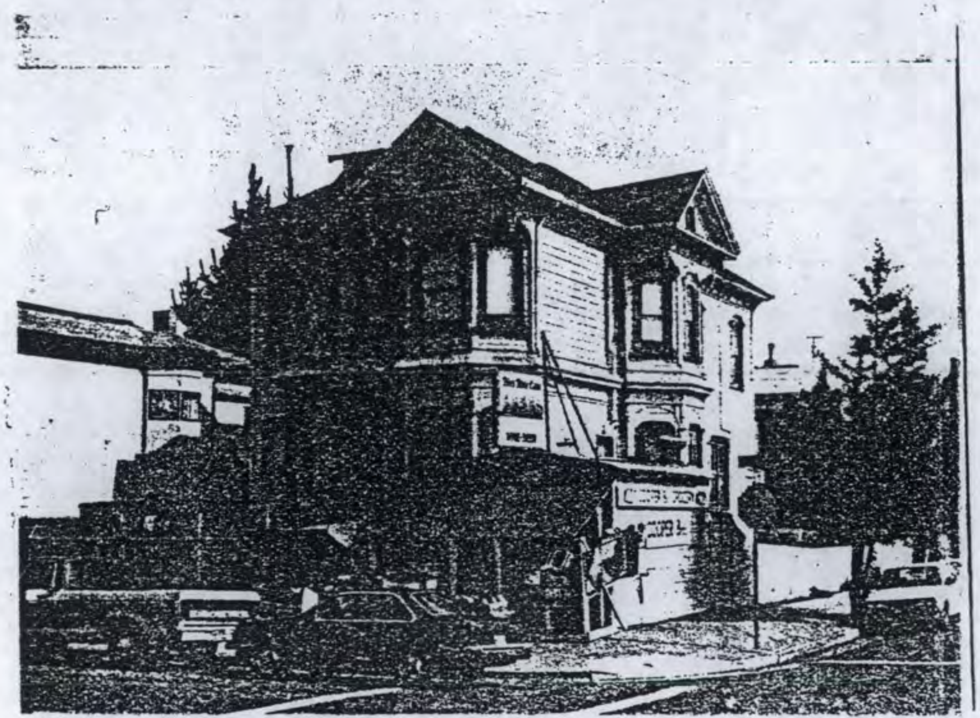

Photo No: 471-17
Date: 08/05/87
Location: OAKLAND POINT API
801 WOOD, CHASE HOUSE, c.1866

Street or rural address: Oakland Point District - API State Form Part 1

Photo No: 466- 6A
Date: 07/29/87
Location: OAKLAND POINT API
CARBARN, 1450 14TH AT CENTER

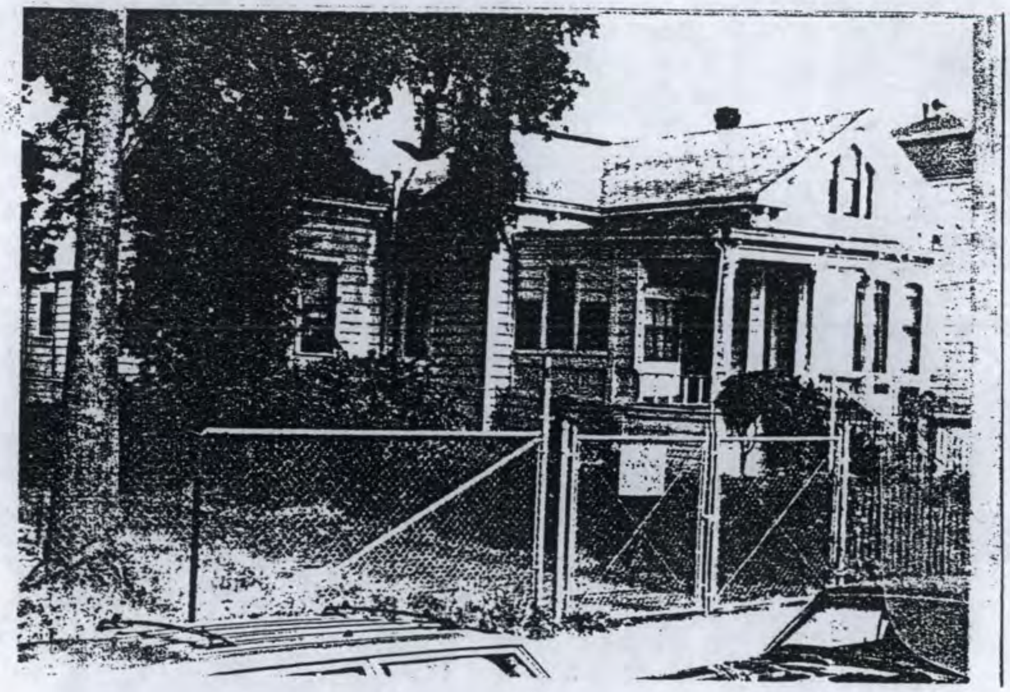

Photo No: 465-10
Date: 07/29/87
Location: OAKLAND POINT API
935 CENTER ST (1876)

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ETHNIC GROUPS (Context Codes IM, BL; National Register Criteria, A: Ethnic Heritage: European, Black)

Oakland Point's churches probably embody the district's ethnic history better than any other institution or activity: a large, early, and dominant Irish community; an early, small, close-knit black community, which grew to a majority by the mid-20th century; a fairly large but little discussed Scandinavian presence; successive waves of Portugese, Italian, and Slavic immigrants from the 1880s to the 1920s. There was also a large German immigrant community from the earliest years (several German Lutheran and M.E. Churches, and synagogues, were located outside the Point), a small but visible Chinese and Japanese population, and a gypsy band at the Point, along with the (probably scant) majority of British and Anglo-American residents. A look at the historic names - owners and residents - in the district property list provides a cross-section of the many nationalities at the Point between the 1860s and World War II. The history of the Point in the 20th century can be described as a changing ethnic population in a basically unchanged 19th century built environment.

The 19th century Point evoked by Ed Anthony and Oscar Breiling was predominantly a Yankee and northern European immigrant community, with small numbers of other races and nationalities whom these majority memoirists regarded as both neighbors and exotics. Estimated numbers of European-born residents in Oakland as a whole (Hinkel & McCann, 1939, v.I, p.366), extrapolated from census data for selected nationalities, probably correspond generally to proportions at the Point:

	1870	1900	1910	1930
England, Scotland, Wales	420	3382	5304	7674
Ireland	1150	3664	4160	3175
Germany	559	4223	5476	4778
Sweden, Norway, Denmark	19	2598	4794	1551
Italy	38	816	3800	6350
France	122	707	1205	1334
black (wherever born)	55	1026	3055	7503

Figures for Portugese and Slavic immigrants are not included in these estimates, though they were a recognized presence at the Point; in the 1930 census there were about 3000 Poles, Czechs, Austrians, Hungarians, Yugoslavs, and Russians, and about 3500 Oaklanders from Portugal and the Azores.

Censuses and directories as well as memoirs show that there was always some job specialization among nationalities, prompted sometimes by experience and tradition abroad and sometimes by local prejudice. The Centennial Yearbook of Alameda County (1876, p. 553) said that in 1851 "communication with San Francisco was by launches and whaleboats manned by Portuguese, who would pull across the bay when there were passengers enough to make a load." Sailing and fishing were frequent occupations for Portuguese Oaklanders, many of whom came from the Azores and Hawaii. Many also worked for the railroads, more often as laborers than as engineers or carpenters. In the present Point district, their homes seem to have been scattered; the local Portuguese enclave was across 7th Street in South Prescott (see SHRI form).

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German names are prominent from the Point's earliest years as merchants and landowners: Ziegenbein, Hufschmidt, Fuchs, Hink, Schrieber, Hoppe, Scholl, Gohrman, Zeiss and Breiling, Gernreich and Thornburgh, Samm and Westphal, Thaler, Albrecht, Kohler, and many more. Germans farther down the economic scale seem generally to have worked more as artisans and independent tradespeople, and less for the railroad, than other national groups. The absence of a German church at the Point proper also suggests that, like John Ziegenbein, many were freethinkers who "did not belong to any church or secret society" (Enquirer, Jan. 17, 1889). They lived and worked throughout the district: there does not seem to be a recognizable German neighborhood. Scandinavians were sometimes popularly classed with Germans: Breiling himself (p.12) called "Captain Baggy" "an old-fashioned German" (Theodor Bagge, Danish capitalist; see Christian Bagge house (1321 Peralta. The point of Breiling's story is that Bagge "nevertheless had the French idea for frogs," raising them on the grounds of his home). The Larsens and Hansens and Nissens and Petersons and Andersons who lived throughout the district often worked for the railroad as carpenters and sailors, or independently in the same occupations.

French immigrants lived at the Point in fairly small numbers, and do not figure prominently in the folklore. Amedee Blanc and Aime Z. Fossard developed a notable group of rental houses at 12th and Peralta in 1884-86. Blacksmith and firefighter Aime Sicotte who lived on 8th Street next to the firehouse (outside the district) was often mentioned for his civic role; Ed Anthony remarked on Sicotte's neighbor Mrs. Melquiond, and her recent immigrant French boarders whose children wore berets and harnesses. There seem to have been a number of French and French-Canadian carpenters and stair builders: Hyacinth Gil (1442 and 1448 10th), Camille Gamp (1417 15th), and the Peter Dubois household which included (English-Canadian) architect Leo Nichols.

The Point's Italian community began small but became a powerful presence by the 1910s and 20s. From the earliest years there was an Italian capitalist element at the Point: the 11 incorporators of the West Oakland Masonic Hall Association in 1876 (News, March 13, 1876) included F. and Natale Gamboni and Andrea Sbarboro of the West Oakland Building and Loan Association, and G. Beretta (1733 10th). Paolo Bacigalupi was another of the earliest residents of the district (1729 11th, 1670-71). Later, when the Italian community was larger, distinctive occupations appear to have involved food and produce - grocery stores, bakeries, gardens, and canneries. Breiling and Anthony both remember "Garibaldi," a neighborhood character of the '90s: "Every child in West Oakland knows Garibaldi and they all fear him. He is a gardener who wears a red flannel shirt, grizzled whiskers, ear rings, and a little cap. A dirk knife in his belt...Garibaldi is not his real name, I will not attempt to spell it. He makes his own 'Dago Red.'" The Grondona vegetable gardens at 13th and Wood apparently lasted into the 1930s.

Much of the new construction in the district after about 1910, both residential and commercial, was done by Italians: houses and flats of Antonio Bertola (1124 Center, 1907), Peter Ratto (1616 15th, c. 1912), Francisco Taramasso (1614 14th, 1915-16), Peter Brocchini (1794 9th, c. 1915), Pasquale Andreuccetti (1220 Peralta, 1921-22), Theo Ninatti (1423 Peralta, 1926), Paul Zarubbi (1730 9th, 1930) and others; stores and gas stations of Gaetano Cuneo (1522 Peralta, 1925), Giacomo Ratto (1600 Peralta, 1928), Luca Catera (1448 14th, 1938), Italo Cencini's winery (1522 Peralta), and others. Even the builders were Italian: Pio Benassini (1220 Peralta), Pietro Delucchi (several buildings including 1522 Peralta and 1629 14th), Charles Ungaretti (1427 Campbell). John Zunino, a West of Market Boy, wrote in 1946, about the St. Patrick's Day celebrations at old St. Patrick's (then being demolished): "One year I took part, playing my little old squeeze box, and on looking over the program I discovered that mine was the only foreign name on the program, the rest being all Irish. In later years, things began to change, as they often do. The old families began moving out of the old neighborhood little by little, until few were left. I'll never forget an entertainment at St. Patrick's where the entertainers were either Slavs or

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Italians, and only two Irish names appeared in the program." The five-fold growth of Oakland's Italian population between 1900 and 1910 has been attributed to North Beach residents moving from San Francisco after the earthquake (Eleanor Edwards, "Memories of West Oakland," The Montclarion, July 7, 1982, summarizing oral histories).

Slavic and East European immigrants lived and worked at the Point from the beginning in small numbers, and like the Italians became a large community after 1900. Besides the many who worked for the railroad, their early specialization both downtown and at the Point seems to have been restaurants: Novakovich and Kesovia's restaurant at 1790 7th Street is listed in the 1886 directory, and others later. Slavic nmes are numerous among the owners of new houses after about 1906: John Cumbelich (720 Henry, 1908-09), Martin Savlovich (834 Peralta, 1912), P. Meloslavich (815 Henry, 1912), John Trebotich (911 Wood, 1919), John Tumpich (1663 11th, 1923), Michael Krka (1225 Peralta, 1925-27), Vincent Radovan (734 Henry, c. 1940s). Unlike the Italians, in this sample at any rate, they do not appear as owners of commercial buildings. Common occupations in the 1920s and 30s are driver, factory worker, metal worker.

Another small but visible and established ethnic group at the Point was the Chinese. There was always a major Oakland Chinatown near the central business district (see SHRI for Chinatown Commercial District), but Chinese workers were dispersed through the city, including the Point. Despite their histroic association with the railroads, Chinese workers are not prominent in accounts of the West Oakland yards, which the News (July 27, 1874) said employed "mostly white men." The Tribune on September 7, 1874 reported under news of the Point that W.C. Gray, in charge of dredging at the shipyard, "found himself minus a crew as his Chinamen bucked on him and quit. He is now hiring white men to do the work." Ed Anthony reminisced about throwing stones from the train at a Chinese laundry on 7th Street, and about how "our China cook, Ah Shoo, and Gee Nye, Fred Sandelin's cook, always chipped in to give a real Fourth of July to the neighbors." The Oakland Enquirer's West Oakland correspondent (Aug. 17, 1889) mentioned "Chinese lotteries" as a local nuisance. What later made the Chinese a special presence at the Point was the Pacific Coast Canning Company, established by Lew Hing on two blocks at 12th and Pine in 1903-04. "Lew Hing was the largest single employer of Chinese in the area and by 1911, one of Oakland's largest businesses. There were 1,000 employees hired at peak season." (Jean Moon Liu, Lew Hing; A Family Portrait, p. 8) Lew Hing himself lived downtown, but the cannery complex included large "Chinese quarters" (Sanborn map, 1935), and even before the cannery opened, another Chinese property owner, Yee Sue Kwai, was building nearby (flats and store at 1216 Willow and 1698 12th, 1902 and 1905-06). By the 1920s other homes near the cannery (1137 and 1118 Wood) were owned by Lew Tye, Ed Lew Wing, and Lew Shang Hubert, all associated with Pacific Coast Canning and possibly related to Lew Hing.

West Oakland today is a predominantly black neighborhood - 81%, according to the 1980 census, and about the same in 1950. This large majority, as is well known, dates from World War II, but Afro-Americans have a long and prominent history at the Point. Like the Irish, they owe their presence at the Point as a group to the railroads. The census for Oakland City puts the number of black residents in 1860 at 18 and 55 in 1870 - the tiny community which, with a few neighbors from Brooklyn, established Shiloh A.M.E. Church and a series of schools for their children. In the 1869 Oakland city directory - the earliest published, and one of two which identify individuals as "colored" there are 11 black breadwinners listed. Two lived at the Point - J.P. Stewart, a hairdresser (the leading occupation, with 3 listings), and Rev. Abraham Gross, pastor of the "African Church." By 1874, the other color-coded directory, there are about 80 listings. Brooklyn had been annexed bringing in 13 waiters at the Tubbs Hotel, but more importantly, the transcontinental railroad arrived in 1869 with the institution of the Pullman Palace Car and its porters. In 1874, 18 porters with the Central Pacific Railroad were listed with the address "Oakland Ferry Wharf." Besides porters, barber Oscar Jackson (see 714 Pine, in Oakland Point ASI) and

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19. Historical and/or Architectural Importance (continued from page 35)

two widows were the only black residents listed at the Point. "Oakland Ferry Wharf" probably referred to company housing; 4 porters that year gave private addresses (3 downtown, one at the Point). Before long, many of these traveling workers established residence - as lodgers, renters, or homeowners - at the Oakland terminus of the railroad where the Pullman car shops and porters' quarters were located.

By 1880 the number of black Oaklanders was 593, 644 in 1890, 1026 in 1900, 3055 in 1910, 5489 in 1920, 7503 in 1930, 8462 in 1940, and 47,562 in 1950. The community of 500 to 1000 in the late 19th century was "enough to support an increasingly complex social structure"; and businesses "multiplied in the growing market along the western part of Seventh Street ... many offering services their owners had learned to perform as employees ... barbershops and beauty salons, carpentry and painting establishments, dress shops, restaurants, retail shops, and bars and clubs" (Crouchett, p. 10-11). J.M. Acty (1620 14th) had a coal yard on 7th Street by 1902. Whaling master Capt. William Shorey settled on 8th Street in the 1880s, was active in black civic and self-help organizations and in 1903 entertained Booker T. Washington at his home (see SHRI for 1782 8th Street). A series of black newspapers were published in Oakland (west and otherwise) from 1892: the Illustrated Guide, the Oakland Sunshine, the Western Outlook, the California Voice, the Western American. "In a long letter to the Oakland Enquirer in 1892, Rev. R.A. McGwinn, pastor of Beth Eden Baptist Church, summed up the advantages of Oakland, where housing was better and cheaper and employment more plentiful than in San Francisco. He noted that 'those who have been here long enough to net any earnings have readily seized the opportunity to own their own homes.' (Crouchett, p. 15) Despite the low wages paid to porters, many did become homeowners at the Point, and new arrivals did choose Oakland over San Francisco - for the economic reasons given, and because there was already an established black community. (In the 1920 census San Francisco had 2414 black residents out of 506,676, while Oakland had 5489 out of 216,261.)

Porters spread the word as they traveled the country, and more and more settled in Oakland. In the 1910 census the Point begins to show a large number of homes occupied as lodgings by groups of porters and railroad cooks and waiters, with or without wives who might work as domestics, dressmakers, private nurses, or keepers of the lodging houses. Porters William Vance and Simon Dedrick, from Texas, became nationally known when they saved their wages, bought homes, left the railroad, and opened a restaurant at 7th and Wood Streets which was written up in the New York Colored American Magazine in 1905.

In 1907 the Pacific Coast Real Estate and Employment Company was organized at 1696 7th Street to serve this growing population, the first black business of its kind in the East Bay. In 1915 Charles Tilghman published a Bay Area black directory, in which Oakland businesses predominate, and photos proudly illustrate "homes owned by our race." In 1919 an Oakland and East Bay Negro Business League was established (Crouchett, 17-18).

This period also saw the beginnings of the important cluster of black popular music clubs along west 7th Street, beginning with the Creole Cafe (which closed in 1922 due to "lack of patronage by the Race"), through the great days of Slim Jenkins' "most celebrated black nightclub on the West Coast," 1933 to 1962 (Lee Hildebrand, "Where the Train Stopped," The Express, June 1, 1988). "It was maybe not baby Harlem, but if one existed it probably was" ("oral account" quoted by Mary Cardwell). Another aspect of this entertainment district involved what Douglas Daniels (Pioneer Urbanites, p. 59ff) calls "travelcraft" - a sort of latter-day underground railroad - since visiting black performers were excluded from most hotels (except the California in North Oakland - see SHRI for 3400 San Pablo Avenue), and usually stayed with neighborhood residents.

Most of Seventh Street and its businesses are gone. A few 1920s-30s stores and homes of black business

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et or rural address: Oakland Point District - API State Form Part 1

19. Historical and/or Architectural Importance (continued from page 36)

owners survive and are identified in the residential district: these include Phoebe Evans's store and flats at 1229 Peralta (1927-38), a rental owned by furniture dealer James Bridges (1434 15th), and the home and shop of hairdresser Gertrude Foney (1480 8th).

Despite the real growth in black businesses and widening of job opportunities (notably in civil service and the industries which expanded after the opening of the waterfront and during the first World War), as late as 1929 it was estimated that 60% of black Oaklanders' income came from the railroads, 30% specifically from the Pullman company (1930 East Bay Colored Business Directory, cited by Stuart Henry, p. 9). In the mid-20s Dad Moore and C.L. Dellums, Oakland porters who had "learned of the Brotherhood through Eastern Porters coming into the Quarters" (International Brotherhood of Sleeping Car Porters, silver jubilee program, 1950) organized a West Coast branch of A. Philip Randolph's union, originally called San Francisco Local No. 1 but renamed Oakland Division "because most of the porters reside in Oakland, the Headquarters then was in Oakland, the sign-out office is in Oakland, and all of the trains with the exception of a few S.P. trains to Los Angeles operate out of Oakland" (ibid). Union headquarters was at the Point, first at 517 Wood (post office site), and from 1934 to 1978 at 1716 7th Street (see SHRI for 7th Street Commercial District. There was also a Dining Car Cooks and Waiters Union local at 705 Peralta in the 1930s). The Brotherhood became doubly important in the '30s, when employment opportunities shrank due to the Depression and Afro-Americans again found themselves restricted to railroad work and "going down to the sea in ships" (Dellums). It was also an important training ground and example for black leadership and activism: Dellums' nephew Ronald, who now represents the East Bay in Congress, and Ruth Acty (1629 14th), the first black teacher in the Berkeley public schools, are two of many leaders from families of porters.

The period roughly from the 1906 earthquake to the end of the Depression is the era remembered as the golden age of the West Oakland melting pot. Royal Towns, born in the early 1900s and a longtime West of Market Boy as well as a civil rights activist and historian, provides the apotheosis of the legend (quoted by Douglas Daniels, Pioneer Urbanites, p. 75):

> "The day I was born... I heard all these different women,... Mrs. Moriah, Mrs. Tracy, Mrs. O'Brian, Mrs. Silva, Mrs. Riposa, and Mrs. Filotta, all those different names, I said, 'Doctor, hey, doc, what kind of a place is this where all these people of different nationalities come to help this old Black woman with her baby?'
>
> "And he said, 'This is West Oakland.'"
>
> "And I said, 'Well, jeez, West Oakland must be a heaven on earth. It must be a really fine place.'"

Black homeownership expanded in the 20th century. "By 1910, approximately 200 of Oakland's 3,055 black residents owned their own homes. By 1930 the number would be 700, but blacks could no longer buy anywhere they wished. In the 1920s South Berkeley became the prestige address for successful middle class blacks" (Crouchett, p. 22), and directory information on Point (and Clawson) residents confirms that South Berkeley was a common destination. The racial restrictions that came into use in housing tracts opened during and after the 1906 earthquake boom would become a greater issue later, when more Point residents wished to leave, though the irony of the City Council approving one such ordinance "on the day an all-black army unit... left Oakland for World War I" (Crouchett, p. 21) was not lost on the community.

Though Towns and others recalled that, on a personal level at least, "the place was a checkerboard" and

(see continuation page 38)

t or rural address: Oakland Point District - API State Form Part 1

19. Historical and/or Architectural Importance (continued from page 37)

there was none of this racial business" (Tribune, May 6, 1973, "Oldtimers Salute West Oakland"), it was in the '20s that Marcus Garvey's separatist UNIA established a branch at Liberty Hall (1485 8th Street; see SHRI), and other black self-help institutions existed, such as the Fannie Wall Children's Home in the Point district (founded 1918; 1215 Peralta). Father Divine's Peace Mission (1485 8th) and the black YMCA and YWCA branches (outside the district) became important relief agencies during the Depression. One old-time German-Amercian West Oaklander (Donald Mockel, oral history at Oakland History Room) blamed the Depression for the end of the era when "West Oakland was everybody," saying that "Okies and Arkies brought Jim Crow in." When federal relief came to West Oakland in the form of low rent housing projects, a concerned Italian-surnamed resident protested:

> "Where will the three or four hundred families who are tenants find other houses to move into? Here in West Oakland there are no houses for rent. They are all occupied. As about 60 per cent of these families are colored they will not be welcome in many sections of the town even if they do find vacancies and can meet the higher rentals. Are they to be turned adrift?"
>
> (Michael Santi, Tribune, 5/11/39)

One of the charges at the city council hearing (Tribune, July 14, 1939) was "that the Authority intends to discriminate against the Negro race with a 'Jim Crow' project," "where Negroes, whites, and other races have mingled harmoniously for years." Indeed, the "non-white families" map in the project study shows that the blocks proposed for the housing project were among those with the most black residents. The map also shows that many blocks at the Point, south of 12th and east as far as Adeline, were by this time home to 25 or more black families. The blocks along Pine, which protesters said were in worse condition and should have been demolished instead, seem to have housed fewer minorities. A citizens' committee appointed by the mayor reported (Tribune, 12/29/39) that the targeted houses were "in good condition, or could be made so," that "Property owners constitute at least half of the residents," and that "there is in both the areas a community spirit that is worth preserving. This community solidarity, the result of a slow growth, cannot be transferred." C.L. Dellums concentrated on making the Housing Authority integrate the projects, got Campbell Village "checkerboarded every floor, every unit," but achieved only "integrated segregation" (building by building) at Peralta Villa, and "lily-whitism" at the third project, Lockwood in East Oakland (Dellums, pp.72-73)

By the time the projects opened, the U.S. was in World War II. "Between 1942 and 1945, slightly more than 50,000 black people moved to the East Bay" to work in shipyards and other war industries. Oakland's Kaiser and Moore shipyards sent labor recruiters through the south; "newcomers outnumbered the old community by five-to-one. ...Old houses in West Oakland... were suddenly occupied by as many as 50 men, often sleeping in shifts... Families living in small apartments or bungalows took in boarders" (Crouchett, pp.45-49). To crowding was added unemployment when the war industries closed, and widespread discrimination when black residents tried to move to other districts. Still, the district experienced a moderate postwar building boom of its own; the new St. Patrick's Church, Mount Zion M.B.C. (1203 Willow), Morning Star C.O.G.I.C. (745 Willow), and a score of small commercial buildings, restaurants, and storefront additions, as well as residential additions and modernizations, date from the late '40s and '50s.

"In 1949 the Oakland City Council declared West Oakland, by then 85 percent black, to be a 'blighted' area, a designation which made it a prime target for massive demolition... Population figures for the Prescott district of West Oakland record the destruction: 22,000 in 1950 11,000 in 1970, and fewer than 6,000 in 1980" (Crouchett, p.56). Major losses in Prescott - Oakland Point - were the whole 7th Street commercial core and much of the neighborhood south of it, and the sense of connection to the rest of Oakland when the freeway and the Acorn project east of it were constructed. This isolation has to some

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et or rural address: Oakland Point District - API State Form Part 1

19. Historical and/or Architectural Importance (continued from page 38)

extent kept the remaining "19th century suburban village" at the Point from receiving much attention either destructive or beneficial, from local government: it remains to be seen what will be done with this resource, important to Oakland for both its 19th century development and its 20th century social history.

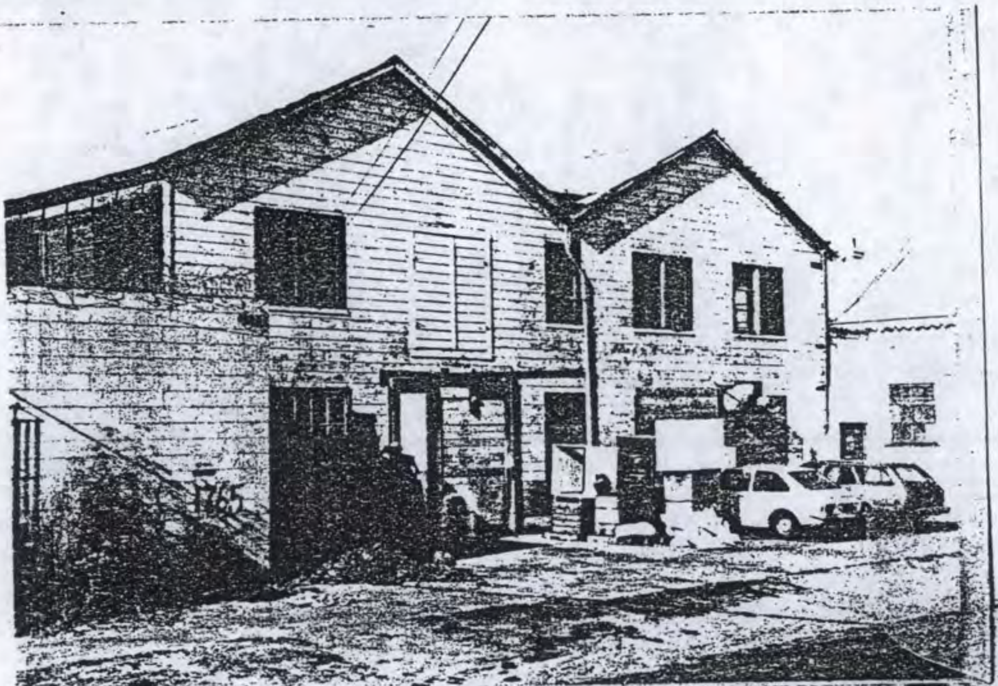

Photo No: 497-25
Date: 09/16/87
Location: 1765, 1789 12TH ST
PACIFIC COAST CANNING CO.

Photo No: 508-33
Date: 09/30/89
Location: OAKLAND POINT API
SHOREY HOUSE, 1782 8TH,IN 1912

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CONTEXT CODES

The Survey evaluated each building in the Oakland Point District in relation to "broad patterns of cultural, social, political, economic, or industrial history, or of the development of the city, or of distinct geographic regions or ethnic groups, or of a particular well-defined era" (Oakland Cultural Heritage Survey, "Evaluation Criteria and Ratings"). These associations make up the historic contexts, or components of historic contexts, for the district, and are defined on the basis of the information in the Survey's research files for each property. The most frequently occurring patterns in Oakland Point were coded and included in the database for each property (up to 3 per property; listed as "Context(s):" on the continuation pages in vol. 2). Following are the context codes used in the Oakland Point survey, and their meanings.

Time periods:

19	19th century (pre-1906) development of West Oakland neighborhood
EQ	earthquake era, April 1906 to c.1910; city-wide building boom
20	20th century development, including infill and redevelopment
W2	World War II, c.1941-47; wartime housing, postwar building boom

Building development, property ownership:

BU	building trades, development by carpenter-builders
TR	tract development: subdividers, speculative building of house groups
RN	development or ownership of rental property by neighborhood residents
LT	long term residents: same family in same place 30 years or more

Economic - transportation, industries, employment:

RR	railroad employees as residents
WT	water transportation: sailors, shipwrights, etc.
IN	West Oakland industries (employees, proprietors, or premises)
CO	neighborhood commercial, premises or proprietors; 7th St. merchants
AG	agriculture: farmers, gardeners (land at the Point or elsewhere)
AR	artisans: metalworkers, shoemakers, etc., other than building trades
BU	building trades: carpenters, plumbers, painters, etc., as residents
SF	San Francisco commuters resident in West Oakland
WW	working women, as residents or owners

Social and ethnic:

PS	public service: teachers and schools, churches and clergy, politics, etc.
IM	immigrants: Irish, Italian, Slavic, other European, etc.
BL	early black residents (pre-World War II)

et or rural address: Oakland Point District - API State Form Part 1

21. Sources (continued from page 2)

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(see continuation page 42)

et or rural address: Oakland Point District - API State Form Part 1

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State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

HISTORIC RESOURCES INVENTORY

Continuation Page 43 of 49

CP

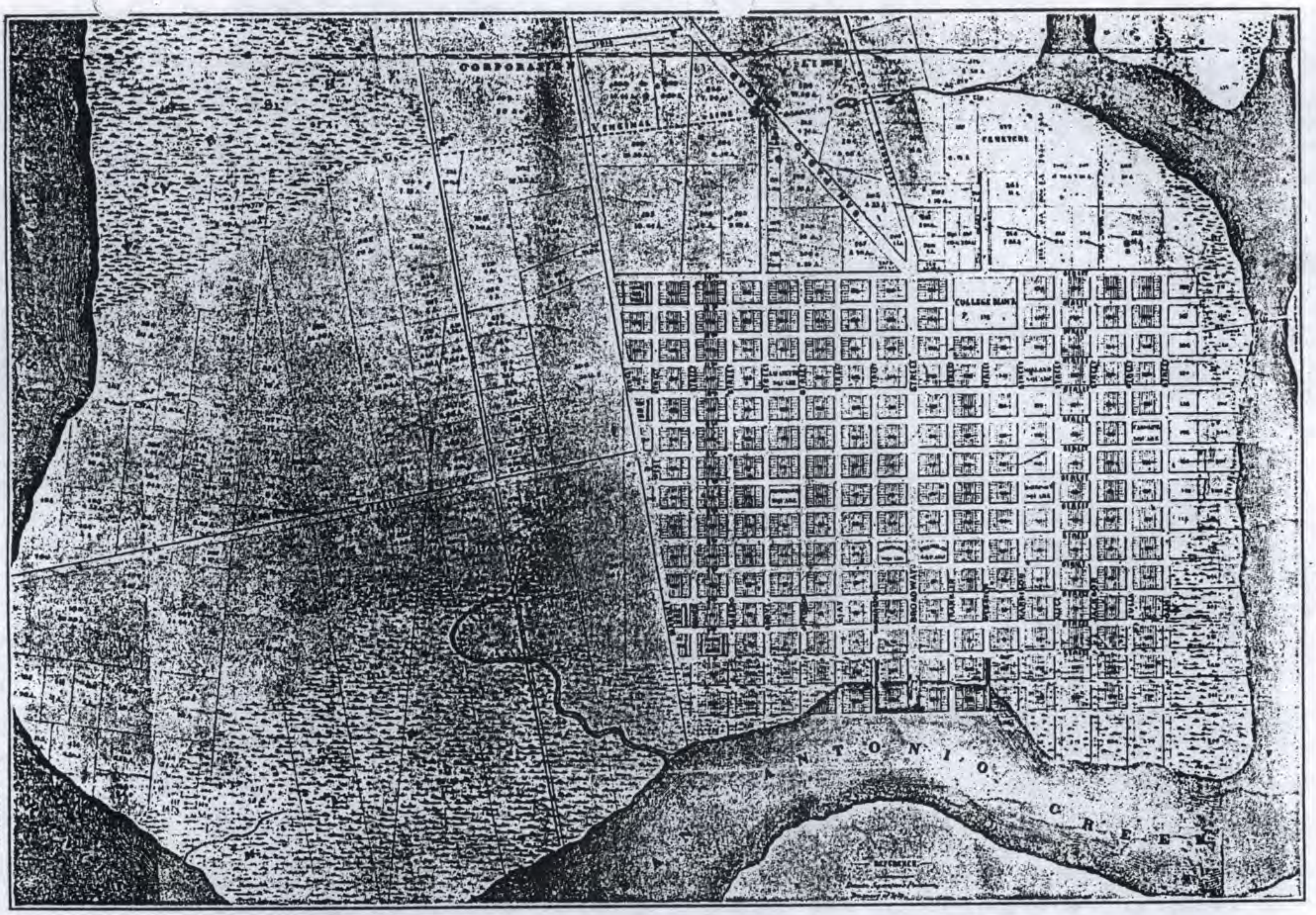
Street or rural address: Oakland Point District - API State Form Part 1

OAKLAND IN 1857

Part of the map: "San Antonio Creek, California. From a Trigometrical Survey under the direction of A. D. Bache, Superintendent of the SURVEY OF THE COAST OF THE UNITED STATES. Triangulation by A. D. Cutts, Assist. Topography by A. F. Rodgers, Sub-Assist. Hydrography by the Party under the command of Comdr. James Alden, U. S. N. Assist. 1857." This map appears to show how far the streets, which Kellersberger's Survey (filed September, 1853) put on the map, were actually built by 1857. In addition to Kellersberger's rigid gridiron (checkerboard) streets, the map shows a number of roads naturally grown and winding among the oak trees. The Twelfth Street bridge is the outlet to the East. San Pablo and Telegraph Avenues, as roads, were already in existence.

Oakland in 1857: Oakland Point and marsh at far left. (Hegemann Report, p.4)

eet or rural address: Oakland Point District - API State Form Part 1



OAKLAND IN 1860

From the "Official Map of the City of Oakland compiled from records & Surveys by J. E. Whitcher 1860. Publsd. By Drouaillet Lithogr. Cor. Washington & Kearney Streets, San Francisco." This map shows the original layout (1853) by Kellersberger, plus some new streets. The map also gives the explanation for the extremely long blocks, which still exist, in the area between Telegraph and San Pablo Avenues; namely, because this area lying outside the subdivided territory remained for many years in an agricultural state, and its streets were later developed with reference to the purely accidental lines of the two country roads (San Pablo and Telegraph) leading to town.

Oakland in 1860: Oakland Point occupies approximately the west 1/5 of the map, between north and south marshes. (Hegemann Report, p.5)

reet or rural address: Oakland Point District - API State Form Part 1

1870-71 Snow & Roos birdseye map. West half is Oakland Point district. Peralta Street is diagonal left of center. (Oakland History Room)

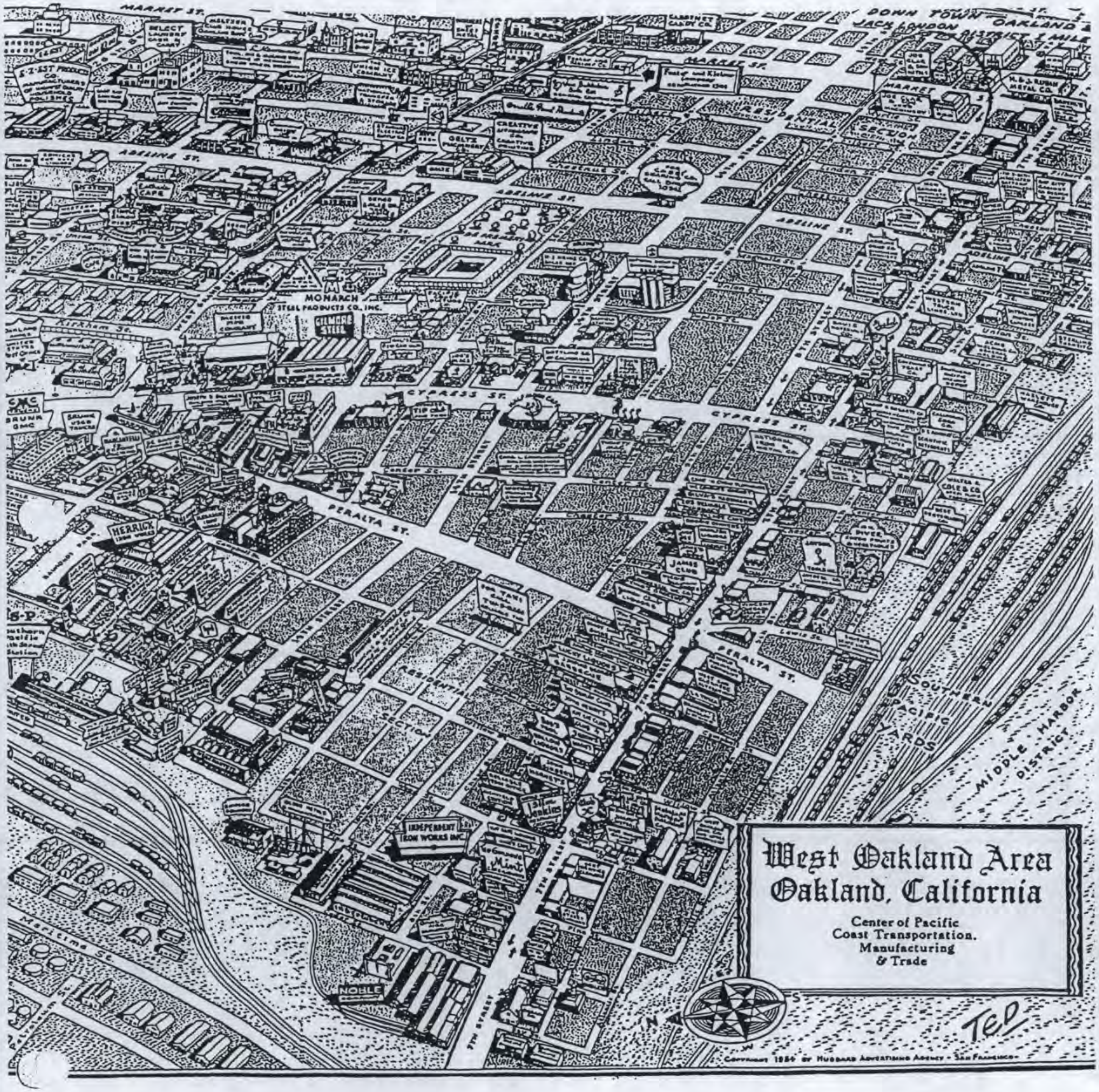
eet or rural address: Oakland Point District - API State Form Part 1

Thompson & West, Historical Atlas of Alameda County, 1878;
Oakland Point district (west of Cypress, north of 7th) and surroundings.

Street or rural address: Oakland Point District - API State Form Part 1

1881 birdseye map, looking across central Oakland toward the Point.
Railroad yards and SP shipyard at upper left. (Oakland History Room)

reet or rural address: Oakland Point District - API State Form Part 1



1954 cartoon map. Oakland Point district ("residential section," lower left), tracks and industries, 7th Street clubs and businesses, Outer Harbor fill west of district. (Oakland History Room)

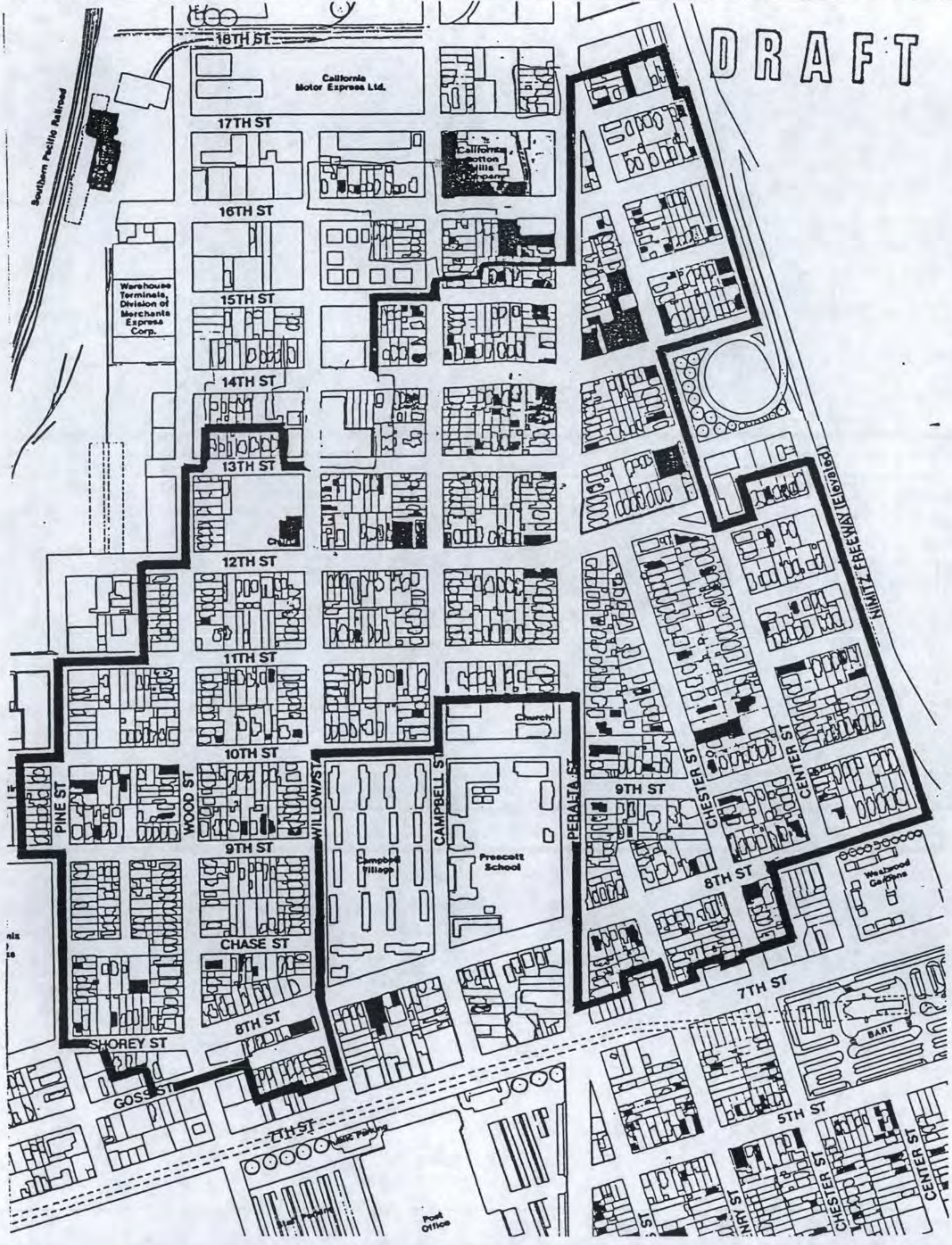
State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Continuation Page 49 of 49

HISTORIC RESOURCES INVENTORY

CP

Street or rural address: Oakland Point District - API State Form Part 1



RANK	HISTORIC NAME	ADDRESS	DATE		STYLE/TYPE
Dc/C	Barlin (Jacob & Marie) flats	1003 CAMPBELL ST	1880-90	mvd/R 1911	Queen Anne cottage R
Dd/P	Randle (Raymond) house	1015 CAMPBELL ST	1947	inc 1901?	Bungalow
Dc/C	Dreaper (Calvin) house	1019 CAMPBELL ST	1905-06		Colonial Rev.cottage
Ec/R	Olsen (Christen)-Silva (Wm.) house	1021 CAMPBELL ST	1900-01	(altered)	Shingle/Colon. house
Ec/C	Unknown	1027 CAMPBELL ST	1890s c	mvd'20s,R'46	Queen Anne cottage
Cc/C	Curtiss (Bert)-Lemery (Frederick) house	1101 CAMPBELL ST	1899	alt 1914	Colonial Rev. house
Cc/C	Schroeder (G.H.)-Delpodio(Eugene) house	1102 CAMPBELL ST	1888-89		Q.A./Stick cottage
Cc/C	Miller (August)-Frisch (Herman) house	1104 CAMPBELL ST	1895-96		Queen Anne cottage
Ec/R	Levi (Leonidas)-Curtiss (Bert) house	1107 CAMPBELL ST	1870c	(altered)	19c vernac. house
Dc/C	Garvan (James) house	1110 CAMPBELL ST	1905-06		Q.A./Colonial house
Dc/C	Marston (Frank)-Goodman (Irving) house	1111 CAMPBELL ST	1874		Italianate cottage
Dc/C	Worthington(J)-Henry(Geo)-Faylor(C)house	1115 CAMPBELL ST	1900-01		Colonial/Q.A.cottage
Dc/C	Blauert (Otto and Minnie) house	1118 CAMPBELL ST	1905-06		Queen Anne house
C/C	Haran (Michael) house	1120 CAMPBELL ST	1889-90		Queen Anne cottage
Ec/R	Unknown, later Fakoury (Mike) rental	1121 CAMPBELL ST	1880s	mvd 1946	Italianate cottage
Ec/R	Twomey (Edward) rental house	1124 CAMPBELL ST	1891-92	(altered)	Queen Anne cottage
Cc/C	Unknown, later Fakoury (Mike) rental	1125 CAMPBELL ST	1870s	mvd 1946	19c vernac. cottage
Cc/C	Hanley (Minnie) rental house	1128 CAMPBELL ST	1889-90		Queen Anne cottage
Dc/C	O'Gara (Annie) rental house	1132 CAMPBELL ST	1886-87		Queen Anne cottage
C/C	Bruce (Walter D.)-Lemos (Antonio) house	1134 CAMPBELL ST	1886-87		Queen Anne cottage
*/N	Unknown	1211 CAMPBELL ST	1957		Mid 20c vernac.house
B-b+/C	Claussen (Wm)-Anderson-Wilson(Rbt) house	1218 CAMPBELL ST	1887-88		Queen Anne cottage
Cc/C	Maloney (Bridget & Lillie) house	1219 CAMPBELL ST	1890-91		Queen Anne cottage
B-b+/C	King (Jefferson D.) rental house	1222 CAMPBELL ST	1887-88		Queen Anne cottage
B-b+/C	Carlson (Olof)-Mulkerns (Coleman) house	1226 CAMPBELL ST	1887-88		Queen Anne cottage
B-b+/C	Hansen (Charles)-Rumatz (Jos.) house	1230 CAMPBELL ST	1887-88		Queen Anne cottage
Ec/R	Nelson (Melvin)-Morrison (Chas.) house	1233 CAMPBELL ST	1876-77	(altered)	Ital.falsefrt.cottag
Cb+/C	Isaksen (Syvert)-Silva (Manuel) house	1234 CAMPBELL ST	1887-88		Queen Anne cottage
C/C	Smith (Chas. & Rose) flats	1237 CAMPBELL ST	1891		Queen Anne house
Cc/C	Noone (Martin) grocery and flat	1238 CAMPBELL ST	1888-89		Stick commercial
Dc/C	McLaughlin (John & Catherine) flats	1302 CAMPBELL ST	1891-92		Queen Anne flats
Cb-/C	Ekensteen (August)-Parsons (Benj.) house	1305 CAMPBELL ST	1876-77		Italianate house
Dc/C	Gohrman (John)-Thomson (Amanda) house	1308 CAMPBELL ST	1888-89		Queen Anne cottage
Ed/P	Parsons (Benjamin) rental house	1309 CAMPBELL ST	1915-16	(altered)	Bungalow
Cc/C	Schwebs (Chas)-Smith (Noah) house	1312 CAMPBELL ST	1888-89		Queen Anne cottage
Dc/C	Unknown, later Davis (John/Victoria)house	1315 CAMPBELL ST	1877-78		Italianate cottage
Dc/C	Gohrman (John) spec house	1316 CAMPBELL ST	1888-89		Queen Anne cottage
Dc/C	Brodt (Lincoln) house	1320 CAMPBELL ST	1888-89		Queen Anne cottage
Cc/C	Collins rental-Zaffada (Giacomo) house	1324 CAMPBELL ST	1888-89		Queen Anne cottage
Dc/C	McLaughlin (Catherine) rental cottage	1328 CAMPBELL ST	1908		Colonial Rev.cottage
Dc/C	Collins (John & Ellen) flats	1334 CAMPBELL ST	1909		Colonial Rev. flats
Ec/R	Unknown	1405 CAMPBELL ST	1870s?	mvd/R 1943-4	19c vernac. cottage?
Dd/N	Fratini (Gino) house	1414 CAMPBELL ST	1934	inc.1890-05	Mediterranean house
Dc/C	Hoyer (Alfred)-Dallerup (John) house	1418 CAMPBELL ST	1884-85		Stick cottage
Dc/C	Monahan (Frank J.) house	1420 CAMPBELL ST	1884-85		Italianate cottage
Cc/C	Profumo (Jos.)-Magnani-Andreuccetti hous	1421 CAMPBELL ST	1904	rear blg '19	Colonial Rev.cottage
Cc/C	Walsh (Wm.) rental-Corcoran (Thos) house	1424 CAMPBELL ST	1888-89		Queen Anne cottage
Dd/N	Cebollero (Jean) house	1427 CAMPBELL ST	1926-27	cafe 1964-66	Prairie house
Dc/C	Walsh (Wm.) rental-Crosetti (John) house	1428 CAMPBELL ST	1888-89		Queen Anne cottage
Dc/C	Farrell (James & Mary) flats	1502 CAMPBELL ST	1892-93		Queen Anne flats

RANK--INDIVIDUAL: A = Highest importance; B = Major importance; C = Secondary importance; D = Minor importance; E = Of no particular interest; * = Post-1945 -- lower case letter = Potential RANK if restored

RANK--DISTRICT: /A = district Anchor; /G = anchor Group contributor; /C = district Contributor: /R = contingency contRibutor; /P = comPatible non-contributor; /N = Non-contributor

RANK	HISTORIC NAME	ADDRESS	DATE	STYLE/TYPE
Dc/N	Signal Service Station	800 CENTER ST	1931	20c utilitarian
Ec/R	Scholl (Susanna)-Cummings(Anderson)house	818 CENTER ST	1876-77 (altered)	Ital.falsefrt. house
Cb-/C	Straut (Wm.)-Templeton (James) house	819 CENTER ST	1877-78	Italianate house
Cb-/C	Bullock (Boyd)-Bulger (Catherine) house	823 CENTER ST	1877-78	Italianate house
Cb-/C	Anderson (Wm.)-McConnell (Ada) house	825 CENTER ST	1877-78	Italianate house
Cc/C	Scholl (Susanna) rental-Gibbons(A) house	826 CENTER ST	1876-77	Italianate house
Cc/C	Scholl (Susanna) rental-Drake(Thos)house	830 CENTER ST	1877-78	Italianate house
Cb-/C	Stetson (Alva M.)-Silva (Joseph) house	831 CENTER ST	1877-78	Italianate house
Ec/R	Scholl rental-Parente(Michael)house/shop	832 CENTER ST	1885-86 rem c.1919	Colon.cottage inc19c
Cc/C	Rotherman (John) rental house	902 CENTER ST	1888-89	Queen Anne cottage
Cc/C	Rotherman (John) rental house	906 CENTER ST	1888-89	Queen Anne cottage
Dc/C	Prosser (Henry)-Clayborn (Elmer) house	908 CENTER ST	1877-78	Ital.falsefrt. house
Dc/C	Jacobus (John F.)-Hearty (Thomas) house	912 CENTER ST	1880-81	Stick cottage
Dc/C	Cullen (Thomas)-Clyde (Charles) house	916 CENTER ST	1884-85	Ital./Stick cottage
Cb-/C	Edwards (Walter J.)-Schlitt (Frank)house	919 CENTER ST	1898-99	Queen Anne house
Cc/C	Hubbard (Warren)-Schaefer (Paul) house	922 CENTER ST	1877-78 rear 1906	Italianate house
Cb-/C	Treadwell (John)-Fairley (Robert) house	926 CENTER ST	1877-78	Italianate house
B-b+/C	Corder (Thos. W.)-Bacich (Anthony) house	932 CENTER ST	1877-78	Italianate cottage
Cc/C	Lowden (Wm.H.)-Barros (J.T.) house	935 CENTER ST	1876	Italianate house
Cc/C	Watson (Mary)-Brown (Wm.M.) house	936 CENTER ST	1877-78	Italianate house
*/N	Center Street Baptist Church	940 CENTER ST	1970s?	Late 20c church
Cb+/C	VanHaltren (Peter)-Yeates (Jennie) house	941 CENTER ST	1875-76 add 1946	Italianate duplex
Cb-/C	Raines (William)-Roland (George) house	947 CENTER ST	1875-76	19c vern./Ital. cottg
Dc/C	Thomas (William R.) house	963 CENTER ST	1906-07 mvd 1947	Colonial Rev. house
Cc/C	Harris (Ann) rental-Kirby (Thomas) house	1011 CENTER ST	1887-88	Queen Anne cottage
Cc/C	Hartman (J.C.H.) flats	1012 CENTER ST	1887 mvd?R by1902	Italianate house
Cc/C	Harris (Ann) rental-Scanlon (John) house	1015 CENTER ST	1887-88	Queen Anne cottage
Cb-/C	Harris (Ann) rental-Donlin (Michael) hse	1019 CENTER ST	1887-88	Queen Anne cottage
Cc/C	Harris (Ann)-Breiling (Emil) duplex	1025 CENTER ST	1887-88	Queen Anne duplex
Dc/C	Harris (Ann) rental-Anderson (Jacob) hse	1103 CENTER ST	1887-88	Queen Anne house
Cc/C	Harris (Ann) rental-Martin (Jack) house	1107 CENTER ST	1887-88	Queen Anne house
Dc/C	Harris-Woolley (Lell H.)-Edwards house	1111 CENTER ST	1887-88	Queen Anne house
Dc/C	Morrison (John)-O'Brien (Martha) house	1115 CENTER ST	1887	Italianate cottage
Cb-/C	Gee (Ferdinand) house & rental	1119 CENTER ST	1892-93	Queen Anne cottage
Cc/C	Athern (Joseph & Annie) house	1120 CENTER ST	1880-81	Italianate house
Cc/C	Bertola (Antonio)-Bailey (Columbus)house	1124 CENTER ST	1907	Colonial Rev.cottage
Cb-/C	Gee (Ferdinand) house & rental	1125 CENTER ST	1892-93	Queen Anne cottage
Cc/C	O'Brien (Martha) house	1130 CENTER ST	1904	Colonial Rev. house
Cc/C	Mues (Diedrich) house-Siebe (Henry)rentl	1131 CENTER ST	1892-93	Queen Anne house
Cc/C	Rooney (Mary)-Welby (Annie) house	1135 CENTER ST	1894-95	Queen Anne cottage
Cc/C	Unknown, later Chiesa (Luigi) flats	1301 CENTER ST	1870s? mvd 1925-35	Italianate house
*/N	None	1305 CENTER ST	1986	Manufactured house
Cb-/C	Carle (Silas)-Lagorio (A.) house	1309 CENTER ST	1882-83	Stick cottage
Cb-/C	Carle (Silas)-Connolly (Martin) house	1311 CENTER ST	1882-83	Stick cottage
Cc/C	Fuchs (Philip)-Meehan (William) house	1317 CENTER ST	1876-77 mvd 1885	Italianate cottage
Cc/C	Fuchs (Philip)-Maggio (E&F) store & flat	1321 CENTER ST	1881-82 mvd S on lot	Italianate commerc'l
Cb+/C	Wells FargoCo.stable,Rossi Cigar factory	1411 CENTER ST	1909-10	Neoclassic industr'l
Cc/C	Reed (William)-Cevasco (Joseph) house	1420 CENTER ST	1891-92	Queen Anne cottage
Cc/C	Hillam (Jas/Frances)-Smith (Edward)house	1424 CENTER ST	1888-89 inc 1884?	Q.A./Stick cottage
Dd/N	American Railway Express warehouse	1425 CENTER ST	1936	Early 20c industrial

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*/N	Williams (Harvey)clnrs, Del Mar Cleaners	1428 CENTER ST	1945-46	Mid 20c utilitarian
D/N	Rossi Cigar Co. Warehouse	1431 CENTER ST	1941-42	Mid 20c utilitarian
Cc/C	Levasier (Frank)-Kelleher (Timothy)house	1503 CENTER ST	1900	Colonial Rev.cottage
*/N	Unknown	1506 CENTER ST	1954	Mid 20c residential
B-b-/C	O'Hara (Bridget)-Buzzalino-Alberti house	1510 CENTER ST	1877-78	Ital.falsefrt.cottag
B-b-/C	Campbell (Alex.)-Cuneo (Gaetano) rental	1511 CENTER ST	1884-85	Stick cottage
Cb-/C	Campbell (Alex.)-Cuneo (Gaetano) rental	1515 CENTER ST	1884-85	Stick cottage
Dc/C	King (Thomas)-Cuneo (Louis) house	1519 CENTER ST	1877-78	19c vernac/Ital.cotg
Dc/C	Berlin (Carl) rental-Gulart (Wm.) house	1520 CENTER ST	1888-89	Queen Anne cottage
*/N	Unknown	1524 CENTER ST	1984	Manufactured house
*/N	Unknown	1526 CENTER ST	1984	Manufactured house
Ec/R	Mentz (Frederick) house/grocery; COGIC	1532 CENTER ST	1893-94 rem 1989	Queen Anne house
Dc/C	Hopken (Albert) grocery & flat	1603 CENTER ST	1878-79	Ital. store & flat
Ca/A	Walsh & O'Brien/Center Junction Grocery	1615 CENTER ST	1884-85	Stick commercial
Dc/C	Wilkens (John) house	1622 CENTER ST	1888-89	Q.A./Stick house
Cc/C	Wilkens (Anna) house	1630 CENTER ST	1907-08	Colonial Rev.cottage
Dc/N	Canepa (Glenn) service station	1700 CENTER ST	1930	1930s gas station
Dc/C	VanHarten (Louis)-Canepa (David) house	1704 CENTER ST	1878-79	Italianate cottage
Dc/C	Leyner (C.)-Ehlert (W.)-Bonino (E) house	1712 CENTER ST	1902-03 1870s mvd?	19c vern/Ital ctg/QA
Ec/R	Whalley (G.H.) spec. house	1709 CHASE ST	1875-76 (altered)	Ital/GreekRv.cottage
Ec/R	Henninger spec. house-Nor/Romley rental	1712 CHASE ST	1884-85 (altered)	Stick cottage
Cc/C	Vaughn (Ira) spec. house	1720 CHASE ST	1902-03	Colonial Rev.cottage
*/N	Unknown	1723 CHASE ST	1983-84	Late 20c vern.cottag
Ec/P	Dadas (John) house	1724 CHASE ST	1914 (altered)	Colonial Rev.cottage
Ec/R	Gibbs (Josiah) house	1731 CHASE ST	1875-76 (altered)	Italianate cottage
*/P	Unknown	1736 CHASE ST	1986	Postmodern townhouse
Ec/N	Hawkett (Arthur)-Baker (Geo.) house	1737 CHASE ST	1875-76 (altered!)	Ital.falsefrt. house
Cc/C	Ferrera (Antone)-Jardin (G.R.) house	1738 CHASE ST	1909	Colonial Rev.cottage
Cc/C	Hawkett (Arthur)-Blaikie (Geo.) house	1739 CHASE ST	1875-76	Ital.falsefrt. house
*/N	Unknown	1745 CHASE ST	1969	20c vernac.apartment
Ed/N	Baird Brush Company	1769 CHASE ST	1931	20c utilitarian
Cc/C	Peacemaker(Amelia)-Friberg (Herman)house	1771 CHASE ST	1880pre mv 90s,R1917	19c vern./saltbox R
Ec/R	Wilkinson (Roderigo)-Fruzzetti (M) house	1779 CHASE ST	1911 inc c.1877	Craftsman cottage
Cc/C	Kohler (Edward)-Coffey (Tornelia) house	719 CHESTER ST	1875-76	Italianate house
Cc/C	Kohler (Edward)-Ketter (Cicero) house	721 CHESTER ST	1877-78	Ital.falsefrt. house
Ec/R	Harjes (Helena & Wm.)-Payne (Wm.) house	722 CHESTER ST	1876-77 (altered)	Italianate house
Dc/C	Kohler (Edward)rental-Pohley(Jacob)house	725 CHESTER ST	1877-78	Ital.falsefrt. house
Cc/C	Motzenbacker(P/Minna)-Shepherd(Chas)hous	729 CHESTER ST	1876-77	Ital.falsefrt. house
Cb-/C	Lohrman (John) house-Breiling (M) rental	730 CHESTER ST	1876	Ital.falsefrt.cottag
Dc/C	Motzenbacker(P/Minna)-Shepherd(Chas)rent	733 CHESTER ST	1876-77	Ital.falsefrt. house
Cb-/C	Siemer (Diedrich) house-Breiling rental	734 CHESTER ST	1876	Ital.falsefrt.cottag
Ec/R	Cronin (Walter M.) rental house	737 CHESTER ST	1900-01 (altered)	Queen Anne/Colon.hou
Dc/C	Zeiss (Harry)-Breiling(Oscar) rental hse	738 CHESTER ST	1876-77	Greek Rv./Ital.house
Eb-/R	Gernreich & Thornburgh Grocery	810 CHESTER ST	1876-77 (altered)	Italianate commerc'l
Eb-/R	Knowles (Samuel) house-Potts (Jas)rental	822 CHESTER ST	1877-78 (altered)	Italianate house
Cb-/C	Snow (William)-Bump (Nelson) house	828 CHESTER ST	1877-78 add 1940s	Italianate house
B-a/A	Chester St. M.E., Parks Chapel ME Church	835 CHESTER ST	1888-89	Gothic/shingle churc
Cb+/C	Burckhalter(Charles)-Sibbett(Wm.R.)house	914 CHESTER ST	1881	Stick cottage
Cb+/C	St. Patrick's rectory	921 CHESTER ST	1904-05 m1980inc70s?	QA/Col.hse, w/Ital?
*/N	Unknown	926 CHESTER ST	1953	Mid 20c warehouse

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Eb+/R	Taylor (Frank)-O'Connor (Patrick) house	927 CHESTER ST	1879-80 (altered)	Ital./Stick cottage
*/N	Unknown	930 CHESTER ST	1967	Late 20c pre-fab
B-b+/C	Trayers (Ann) house	931 CHESTER ST	1879-80	Ital./Stick cottage
Cc/C	Connor (Jennie) house	935 CHESTER ST	1891-92	Queen Anne house
Cb+/C	Hink (John F.)-Eibach (Charles) house	938 CHESTER ST	1874	Italianate cottage
B-b-/C	Connor (L)-Vernon (G)-Sandelin (F) house	1001 CHESTER ST	1875-76	Italianate cottage
B-b-/C	Mau (Charles)-Ormsby-Fitzgerald house	1004 CHESTER ST	1874	Italianate cottage
Cb-/C	Williams (Benj.)-Mayer (Fredk.) house	1005 CHESTER ST	1875-76	Italianate cottage
Cb-/C	Fuchs (Philip)-Williams (Hugh) house	1008 CHESTER ST	1874	Italianate cottage
Cb-/C	VonBorstel (John)-Guidotti (Pilade)house	1009 CHESTER ST	1875-76	Italianate cottage
Eb-/R	Merle (Adrian)house-Merithew(Theo) rentl	1012 CHESTER ST	1874 rem c1927-29	Ital.cottage R Medit
Cb-/C	Jans (Obbe)-Metzger (George) house	1016 CHESTER ST	1874	Italianate cottage
Cb+/C	McCann (William)-Medau (Peter) house	1019 CHESTER ST	1877-78	Italianate cottage
Cb-/C	Hammer (John)-McKeegan (Patrick) house	1020 CHESTER ST	1874	Italianate cottage
Cb-/C	Williams (Joseph)-Percy-Scozzafava house	1102 CHESTER ST	1874 add 1954	Italianate cottage
Cb-/C	Rogers (Edward)-Garthorne (Geo.) house	1103 CHESTER ST	1875	19c vern./Ital.cottg
Eb-/R	Lange (Fred.W)-Soljak (Tony)rental house	1105 CHESTER ST	1876-77 (altered)	Italianate cottage
Cc/C	Detels (Eugene)-Strong (Frank) house	1106 CHESTER ST	1885-86 mvd 1954	Q.A./Stick cottage
Dc/C	Nunan (Mathew)-Lange (Frederick) house	1110 CHESTER ST	1887-88	Queen Anne house
Cb-/C	Herriott (Geo)-Peregoy (Lamar)-Odlum hse	1111 CHESTER ST	1876	Italianate house
Dc/C	Carter(George) rental-Gaylord (Geo)house	1114 CHESTER ST	1891-92	Queen Anne/Stick hse
Db-/C	Downing (Matt)-Reilly (Francis) house	1115 CHESTER ST	1877-78 R c.1901-02	Ital. house R as QA
Eb-/R	Getchell (WS) house-Rees (Wm/Ida) rental	1117 CHESTER ST	1878-79 rem 1961	Italianate house
Cc/C	Carter(George) rental-Meares(Anton)house	1118 CHESTER ST	1891-92	Queen Anne/Stick hse
Cc/C	Carter (George) house	1120 CHESTER ST	1887-88	Stick house
Cb-/C	Berry (Wm.)-Gomes (Julio/Rosa) flats	1126 CHESTER ST	1888-89	Queen Anne flats
Ec/N	Kousthoeft(Albert)rental-Stevenson house	1128 CHESTER ST	1891-92 rem 1950-70s	Queen Anne cottage
Ec/R	Son (Annie)-Lange (Annie) rental house	1136 CHESTER ST	1891 rem 1989	Queen Anne cottage
Cc/C	Tarr (Alvin B.)-Alison (Archie) house	919 CYPRESS ST	1885-86 mv bk of lot	Stick cottage
*/N	Wilson (Lorenzo) store bldg.	933 CYPRESS ST	1954	Mid 20c store/apts
*/N	Unknown, later Vic's Radio & TV Service	1419 CYPRESS ST	1955	Mid 20c commercial
*/N	Lopez (Henry) machine shop	1433 CYPRESS ST	1959-60	Mid 20c industrial
Cc/C	DeLa Montanya-Mousalemas rental house	1709 GOSS ST	1889-90	Queen Anne cottage
Cc/C	DeLa Montanya-Mousalemas rental house	1711 GOSS ST	1889-90	Queen Anne cottage
Cc/C	Olsen (Rasmus)-Zulim (Jakov) house	1713 GOSS ST	1888-89	Queen Anne cottage
Dc/C	Bair (Wm.R.) flats	1719 GOSS ST	1906-07 inc 1860s?	Early 20c vern.flats
Eb-/R	Russell (James)-Winters (John) house	1725 GOSS ST	1867-68 mvd fwd,20c	Pioneer/Greek Rv.hse
Cc/C	Wilson (W.J.) house-Lichat (Mary) rental	1727 GOSS ST	1872 c. or 1875-76	Italianate house
Cb-/C	Dempsey (Patrick) rental cottage	710 HENRY ST	1877-78	19c vern./Ital.cottg
Cb-/C	Dempsey (Patrick) rental cottage	714 HENRY ST	1877-78	19c vern./Ital.cottg
C/C	Bruning (John)-Cumbelich (John) hse/rent	718 HENRY ST	1892	Queen Anne house
Ec/R	Cumbelich (John) flats	720 HENRY ST	1908-09 (altered)	Colonial Rev. flats
B-b-/C	Bruning (Henry) house	722 HENRY ST	1884-85	Stick cottage
Cb-/C	Reier (Eliz.)-Pavlina (Michael) house	726 HENRY ST	1870s c mv 1889, add	19c vernac. cottage
Eb-/R	Gilberg (Nils)-Ipsen (Mathias) house	733 HENRY ST	1878-79 (altered)	Italianate house
Dd/P	Radovan (Vincent) cottage	734 HENRY ST	1935-51 inc 1902-06?	Early 20c generic
Eb-/R	Burdick (Jos.D)-O'Brien-VanHaltren house	737 HENRY ST	1878-79 (altered)	Italianate house
Cc/C	Robinson (Peter)-Treacy (Patrick) house	810 HENRY ST	1879-80 mvd 1925-35	Italianate house
Db-/C	Detels (Henry)-Jordan (Isaiah) house	814 HENRY ST	1875-6?	Italianate house
Ec/N	Wurts (Myron)-Meloslavich (P) rental hse	815 HENRY ST	1912	Craftsman cottage R

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Eb-/R	Young (Eliz.)-Nielsen (Francis) house	818 HENRY ST	1879-80 (altered)	Italianate cottage
Dd/C	Wurts (Myron L.) rental house	817 HENRY ST	1912	Craftsman cottage
Eb-/N	Nunan (Matthew)-Engstrom (John) house	822 HENRY ST	1879-80 R c.1970s	Italianate cottage R
Eb-/R	Nunan (John)-Eggleston (Emma) house	824 HENRY ST	1879-80 R c.1900s	Italianate cottage
Ec/R	Hagar (Carl & Anna) house	852 MC ELROY ST	1882 (altered)	Q.A./Stick house
Ec/R	Ahlberg (Fred K.)-Madden (James) house	853 MC ELROY ST	1884-85 add + rem	19c vern.shotgun hse
Cb-/C	Nelson (Edward)-Shiels (Julius) house	856 MC ELROY ST	1881-82	Ital./Stick cottage
Ec/R	Hansen (Martin)-Coggiola (E)-Roach house	857 MC ELROY ST	1884-85 rem 1902-11	Vernac/Ital. cottage
Db-/C	Jeffress (Robt.)-Miller (Fredk.) house	859 MC ELROY ST	1884-85 add 1902-11	Stick cottage
Cb-/C	Wedgewood (Wm.) house	860 MC ELROY ST	1882-83	Italianate cottage
Db-/C	Holland (Oscar)-Strickland (John) house	865 MC ELROY ST	1884-85	Italianate house
Cb-/C	Weider (Hans/Annie)-Lonigo (Pasq.)house	872 MC ELROY ST	1884-85	Queen Anne cottage
Cc/C	Curry (David)-Mirizzi (Joseph) house	873 MC ELROY ST	1884-85	19c vernac. cottage
C/C	Clifford (Fredk.)-Imeldi (Lorenzo) house	876 MC ELROY ST	1884-85	Queen Anne house
Ec/R	Price (Walter)-Willard (Edwin) house	877 MC ELROY ST	1890-91 (altered)	Queen Anne house
Cc/C	Freeman (Magnus)-Winther (Peter) house	884 MC ELROY ST	1881-82	Stick cottage
Cb-/C	Eiben & Nor rental, W.Oak.Free Readg.Rm.	712 PERALTA ST	1880-81 store 1907	Italianate hse/store
Cb-/C	Bullerdieck (Albert)-Parker (Luke) house	720 PERALTA ST	1880-81	Italianate cottage
Eb-/R	Jamison (Eliz.)-Hahn (Emil) house	728 PERALTA ST	1877-78 (altered)	Italianate house
Eb-/R	Williams (Benj.F.)-Price (Charles) house	734 PERALTA ST	1877-78 (altered)	Italianate house
Dc/C	Albrecht (Aug) rental-Miller (Fred)house	814 PERALTA ST	1876-77	Italianate house
Dc/C	Baxter (Marion) house	824 PERALTA ST	1870s? mvd 1903-04	Italianate house
Dc/C	Wurts (Myron) spec house	830 PERALTA ST	1912	Craftsman house
Dc/C	Wurts (Myron) spec-Savlovich (Martin)hou	834 PERALTA ST	1912	Craftsman house
Cb-/C	Jennings (John)-LaValliere (Hannah)house	840 PERALTA ST	1880-81 rem.c.1900	Ital.house/Col-QA fl
Cb-/C	Runyon (Fred/Sus)-Roeder (Minnie) house	846 PERALTA ST	1878-80	Italianate house
Eb-/R	Schultz (Jacob)-Foster (William) house	850 PERALTA ST	1878-80 (altered)	Ital./Stick house
B-b-/C	Malley (Wm.)-Cook (Geo.W.) house	854 PERALTA ST	1878-79	Italianate house
Cc/C	McKeen (Herman)-Bastiani (Arthur) house	904 PERALTA ST	1894-95 store ad'20s	Queen Anne house/com
B-b+/C	Sanderson (Kate)-Fereria (John) house	912 PERALTA ST	1899	Shingle style house
A/A	St. Joseph's Institute, St. Patrick's C.	920 PERALTA ST	1912mv? inc 1871-72?	Italianate domestic
Ca/C	Ziegenbein (John) house	1004 PERALTA ST	1870-71	Italianate house
*/N	None	1006 PERALTA ST	1949-50	Mid 20c vernac.duplx
Ed/P	Mulgrew (John)-Duarte (Domingo) house	1012 PERALTA ST	1915-17 mvd 1954	Craftsman cottage
Dc/C	Maloney (Edward P.)-Ratto (Peter) house	1016 PERALTA ST	1905-06 mvd 1954	Colonial Rev.cottage
Cb-/C	Husing (Henry)-Leavitt (Charles) house	1020 PERALTA ST	1874	Italianate house
Dc/C	Mengola (Domingo/Katherine) house	1028 PERALTA ST	1896	Queen Anne house
Eb-/R	Gardiner(Wm/Jennie)-Pedro (Manuel) house	1031 PERALTA ST	1899-00 (altered)	Colonial Rev. house
Cb-/C	Hoyt (John)-Cullen (Thomas) flats	1032 PERALTA ST	1878-79 flats 1880s?	Ital't/Stick flats
Eb-/R	Hunter (Wm.)-Carty (Paul/Josphine) house	1035 PERALTA ST	1899-00 (altered)	Colonial Rev. house
Cb-/C	Woods (Robert)-Maricich (Luca) house	1036 PERALTA ST	1878-79	Italianate house
B-/C	Clark(H.A.)-Blanchard(C)-Zuvela(J) house	1039 PERALTA ST	1902-03	Colonial Rev. house
Cb+/C	Spaulding (Charles & Nathan) house	1040 PERALTA ST	1878-79	Italianate house
B-b-/C	Woelffel (Richard)-Fannon (John) house	1046 PERALTA ST	1876	Italianate house
Cb-/C	Hofleng (Fred) rental house	1101 PERALTA ST	1888-89	Queen Anne house
Cb-/C	Collins (Albert)-Comstock (Chas.) house	1104 PERALTA ST	1876	Italianate house
Cb-/C	Hofleng(Fred)-Braun(L)-Radovan(J) house	1107 PERALTA ST	1888-89	Queen Anne/Stick cot
Cb-/C	Koopman (George)-McGuire (Jesse) house	1111 PERALTA ST	1888-89	Queen Anne/Stick cot
Eb-/R	Lange (Fredk. W.)-Ferrall (Edmond) house	1112 PERALTA ST	1876-77 rem 1951 ff	Italianate house
Cb-/C	Goldaracena(Raymond)-Chavez(Jos.) house	1117 PERALTA ST	1888-89	Queen Anne cottage

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Cb-/C	Grandjean (Henry) house	1122 PERALTA ST	1876-77	Italianate house
Eb-/R	Crocker (Chas.)-Geagan (Patrick) house	1125 PERALTA ST	1888-89 (altered)	Queen Anne cottage
Ec/R	Fiske (Wm.)-Lubratich (Nick) flats	1127 PERALTA ST	1908-09 (altered)	Colonial Rev. house
Cb-/C	Pfenninger (Herman)-Orbell (Harry) house	1128 PERALTA ST	1876-77	Italianate house
Cc/C	Driscoll (Edward) house	1133 PERALTA ST	1891-92	Queen Anne cottage
Cb-/C	Costigan (John)-Whitehead (Jas.) house	1134 PERALTA ST	1878-79	Italianate house
Dc/C	James (Griffith)-Nobilo (Roy) house	1137 PERALTA ST	1889-90	Stick cottage R
Cb-/C	Roy (George E.)-Dugan (Charles) house	1138 PERALTA ST	1878-79	Italianate house
Ed/N	Naismith(Gavin)-Bucan(Jos.) store & res.	1141 PERALTA ST	1886-87 rem 1940s	19c commercial
B-b-/C	Chase (Andrew) house-Garrison (E) rental	1144 PERALTA ST	1878-79	Italianate house
B-/G	Fossard (Aime Z.) rental house	1202 PERALTA ST	1884-85	Stick cottage
B-b-/G	Fossard (Aime Z.) rental house	1206 PERALTA ST	1884-85	Stick cottage
Cc/C	Berger-Suhl (Chris.) rental/Gatta house	1207 PERALTA ST	1882-83	Italianate cottage
B-/G	Fossard (Aime Z.) rental house	1210 PERALTA ST	1884-85	Stick cottage
Cb-/G	Fossard (Aime Z.) rental house	1214 PERALTA ST	1884-85	Stick cottage
Cb-/C	Suhl (Christian) house-Fannie Wall Home	1215 PERALTA ST	1877-78	Italianate house
Cc/C	Jorgensen (Jorgen)-Bui (Anton) house	1219 PERALTA ST	1905-06	QA/Colonial cottage
Ed/P	Andreuccetti (Pasquale) house	1220 PERALTA ST	1921-22 (altered)	Colonial Rev.cottage
Dc/C	Johansen (John)-Ciraolo (Antonio) house	1223 PERALTA ST	1907-08 add 1946	Colonial Rev.cottage
C/P	Krka (Michael) house	1225 PERALTA ST	1925-27	Bungalow
Cb-/C	Fabriano (Mary)-Sestanovich (Ray) flats	1226 PERALTA ST	1908	Colonial Rev. flats
Dc/P	Hilkert house-Evans (Phoebe) store/flats	1229 PERALTA ST	1927-38 inc 1878-79	Ital.house/20c com'l
Cb-/C	Healey (Patrick)-Fernanadez(Antonio)hous	1232 PERALTA ST	1908	Colonial Rev. flats
Ec/R	Gil (Hyacinth)-Buzzalino (Frank) house	1300 PERALTA ST	1891-92 mv/R 1938-39	Q.A.cottage/provincl
Cb-/C	Stone (John)-Staiger (Jacob)-Farro house	1307 PERALTA ST	1887-88	Queen Anne cottage
Ec/R	Medau (John P.)-Buzzalino (F) rental hse	1308 PERALTA ST	1888-89 (altered)	Queen Anne cottage
Cb-/C	Besse (Jos.)-Helmuth(Wm.)-Gaberoni house	1311 PERALTA ST	1887-88	Queen Anne cottage
Dc/C	Medau (John P.)-Duffy (James) house	1312 PERALTA ST	1888-89	Queen Anne cottage
Cc/C	Mulligan (John)-Souza (Alfred) house	1314 PERALTA ST	1892-93	Queen Anne cottage
Cc/C	Mulligan (John) house	1320 PERALTA ST	1877-78	Italianate cottage
Ec/R	Bagge (Christian) house-Mann (Wm.) apts.	1321 PERALTA ST	1871-72 rem/add 1915	Italianate house,add
Ec/R	Harris (Henry)-Blythe (Margaret) house	1324 PERALTA ST	1877-78 R 1884-85 ff	Italianate house
Dd/P	Unknown	1330 PERALTA ST	1925-35	Early 20c vern.comml
Cc/C	Buzzalino (Maria) store & flat	1334 PERALTA ST	1905-06	Col.Rev.store & flat
Ec/R	Jackson (Robert)-Smith (Patrick) house	1411 PERALTA ST	1883-84 mvd/R 1944	Stick house
*/N	Oliver (Albert) garage	1418 PERALTA ST	1946	Mid 20c utilitarian
Cc/C	Bennett (Sarah)-Anselmi (Albert) house	1421 PERALTA ST	1903-04	Shingle style house
Dd/N	Ninatti (Theo. G.) house	1423 PERALTA ST	1926	Mediterranean cottag
Ec/R	Reaney (Wm.)-Franco (Andrew) house	1425 PERALTA ST	1878-79 (altered!)	Ital/19c vern.duplex
Cc/C	Gil (Hyacinth) flats	1426 PERALTA ST	1906	Colonial Rev. flats
Cc/C	Henning (K.M.)-Rose (Joseph) house	1432 PERALTA ST	1899-00	Queen Anne cottage
Cb+/C	Watts (William)-Nelson (Nicholas) house	1436 PERALTA ST	1858 mvd/R 1898	Greek Rev.house,R QA
Ec/R	Delucchi (Andrew & Antonietta) house	1501 PERALTA ST	1904-05 R 1959ff	Colonial/Q.A.cottage
Cc/C	Lassen (John H.) house	1502 PERALTA ST	1895-96 rem c1905-11	QA/Colonial house
Cc/C	Person (John)-Rose (Joseph) House	1504 PERALTA ST	1902 inc 1894-95	Shingle house
Cc/C	Casazza (E.)-Delucchi (Andrew) rental hs	1507 PERALTA ST	1904-05	Colonial/Q.A.cottage
Cc/C	Bascomb (Warley)-Martin (Aristide) house	1511 PERALTA ST	1892-93	Queen Anne house
Cc/C	Tuggey (Wm.)-Jorgensen (Jorgen) house	1514 PERALTA ST	1877-78	19c vernacular house
Ed/N	Cuneo (Gaetano) stores & flats	1522 PERALTA ST	1925 (altered)	Early 20c commercial
Ed/N	General Petroleum Station	1532 PERALTA ST	1940 add 1951	Streamlined gas sta.

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Ed/N	Ratto (Giacomo) service station	1600 PERALTA ST	1928	Early 20c gas stat'n
Dc/C	Watts (Stephen) house	816 PINE ST	1888-89	Queen Anne/Stick hse
Cc/C	Standring (Sarah)-King (Annetta) house	822 PINE ST	1879-80	Italianate house
Cc/C	Albrecht (Fredk.)-Schwartz-Spikula house	826 PINE ST	1877 rem 1890s	19c vern.house R QA
Cc/C	Svenson (Jos,John)-Watts-McGinnis house	830 PINE ST	1877	Italianate house
Dd/N	Spikula (Nick) garage-Cameron(O.)cottage	840 PINE ST	1921 add 1945	Early 20c utilitar'n
Ed/P	Cameron (Oliver P.) house	842 PINE ST	1924 inc c.1880s?	19-20c vernac. house
Cb-/C	Norton (Wm.)-Mastrangelo (Angelo) house	850 PINE ST	1881-82 add 1930	Stick cottage
Cb-/C	Way (Jesse/Elvina)-Hodges (Fayette)house	866 PINE ST	1882-83	Stick cottage
Cb-/C	Rosander (John)-Borges (Jos.) house	882 PINE ST	1881-82	Italianate/Stick hse
Cc/C	Martin (Thomas) house	884 PINE ST	1884-85	Stick cottage
Cc/C	Ellis (Cyrus)-Holland (Dennis) house	903 PINE ST	1884	Stick cottage
Dc/C	Svenson (Peter A.)-Higgins (John) house	905 PINE ST	1883-84	Stick cottage
Cb-/C	Gilley (George)-Butorvich (John) house	911 PINE ST	1883-84	19c vernac. cottage
Dc/C	Wallace (Richard) house	917 PINE ST	1883-84	19c vernac. cottage
Cc/C	McDowell (Wm.)-Mendoza (John) house	921 PINE ST	1879-80	Italianate cottage
C/C	Johnson (Jeremiah) rental cottage	924 PINE ST	1875-76	19c vernac. cottage
Cc/C	Collins (Lyman)-Jones (Thos.)-Ward house	927 PINE ST	1871-72	Ital.falsefrt.cottag
Cc/C	Finch (Wm.)-Foley (John) house	929 PINE ST	1878-79	Italianate house
Cc/C	Feehan (Tobias/Mary)-Lucich (Stephen) hs	937 PINE ST	1887-88	Queen Anne cottage
Cb-/C	Fisher (Beriah)-Finch-Myhre(Bardo) house	941 PINE ST	1867-68	19c vernacular house
Cc/C	Giamboni(Margt)-Classen-Martinelli house	1018 PINE ST	1884-85	Stick cottage
Cb-/C	Plummer (J.W.)-Ohling (Erick) house	1026 PINE ST	1868pre or 1871-73	19c vern./Ital.cottg
Cb-/C	Loveland (Isaac)-Millhone (Belle) house	1030 PINE ST	1868pre or 1871-73	19c vern./Ital.house
Cc/C	DeLa Montanya rental-Mousalemas house	717 WILLOW ST	1889-90	Queen Anne cottage
Cc/C	DeLa Montanya-Mouselemas rental house	721 WILLOW ST	1889-90	Queen Anne cottage
Cc/C	DeLa Montanya-Mouselamas rental house	725 WILLOW ST	1889-90	Queen Anne cottage
Cc/C	DeLa Montanya-Mousalemas rental house	729 WILLOW ST	1889-90	Queen Anne cottage
*/N	Morning Star Church of God in Christ	745 WILLOW ST	1945-46	20c vernac. church
Cc/C	Nickerson (Z.P.)-Gravatt (Wm.) flats	819 WILLOW ST	1875-76	Italianate house/flt
Ec/R	Henninger spec. house-Nor/Romley rental	853 WILLOW ST	1884-85 (altered!)	Stick cottage
Ec/R	Henninger spec. house-Nor/Romley rental	859 WILLOW ST	1884-85 (altered!)	Stick cottage
Cc/C	Henninger spec. house-Nor/Romley rental	863 WILLOW ST	1884-85	Stick cottage
Cc/C	Geiger (Dorothea)-Nisbet (George) house	867 WILLOW ST	1875-76	Vernac/Greek cottage
Ec/R	Adams (James) house	871 WILLOW ST	1902-03 (altered)	Queen Anne cottage
Ec/R	Watkins (Philip)-Gugich (Felip) house	875 WILLOW ST	1904-05 (altered)	Queen Anne cottage
B-/C	Malm (Charles)-Swenson (Maria) house	883 WILLOW ST	1876-77	Italianate cottage
B-b-/C	Malm (Charles)-Swenson (Maria) rental	887 WILLOW ST	1876-77	Italianate cottage
Dc/C	Tusher (Fred) house	889 WILLOW ST	1874-75	Italianate cottage
Dc/C	Abbey (James, Wm.) house	893 WILLOW ST	1882-83 add 1940/76	Italianate/Q.A.house
B-b-/C	Borgeson (Charles) house	905 WILLOW ST	1890-91	Queen Anne house
Ec/R	Morey (Erastus)-Prugh rental-Cucio house	907 WILLOW ST	1887-88 rem + add	Queen Anne cottage
Ec/R	Farrel (Michael)-Cerelli (Lorenzo) house	911 WILLOW ST	1885-86 (altered)	Stick/Q.A. cottage
Cb-/C	Slattery (Jas)rental-Aguiar (Jose) house	915 WILLOW ST	1883-84	Stick cottage
B-b-/C	Slattery (Jas)rental-Jones-Norager house	921 WILLOW ST	1883-84	Stick cottage
Dc/C	Sorensen (Peter A.)-Dixon (John B) house	925 WILLOW ST	1881-82 add 1946	Stick cottage
Cc/C	Borgeson (Charles)-Ek (John) house	927 WILLOW ST	1881-82	Stick cottage
Cc/C	Sorensen (Peter)-Immel-Anderson house	933 WILLOW ST	1881-82 add by 1901	QA/Col.cottg, ex Stk
Cc/C	Gohrman (John)-Walker (Thos)-Lisse house	941 WILLOW ST	1881-82	Stick cottage
Ec/R	Farrell (Ellen)-Fenelon (Richard) house	1011 WILLOW ST	1886-87 rem 1964	Stick cottage

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Ec/R	Booth (G.E.)-Farrell (Ellen) house	1017 WILLOW ST	1878-79 rem 1880s	Stick cottage,ex It?
C/C	Swenson (Peter)-Jurjevich (Mark) house	1020 WILLOW ST	1874-75	Italianate cottage
B-b-/C	Luna (Catherine) house/flats	1024 WILLOW ST	1882	Italianate flats
Dc/C	Fink (Amalia)-Schmidbauer (Andrew) house	1025 WILLOW ST	1899-00	Queen A/Colon.house
Dc/C	Henning (John)-Viera (Manuel) house	1028 WILLOW ST	1877-78	Ital.falsefrt.cottag
Cc/C	Norcross (Jas.)-Schmidbauer (Andr.)house	1029 WILLOW ST	1875-76	Ital./Greek Rv.cottg
Cc/C	Schrieber (Chris.)rental-Walsh (M) house	1033 WILLOW ST	1884-85	Stick cottage
Cc/C	Phillips (Jas)-Mahoney(Cath/Honora)house	1034 WILLOW ST	1876-77	Italianate house
Dc/C	Schrieber (C)-Hunter(W)-Clifford(P)house	1037 WILLOW ST	1884-85	Stick cottage
Cc/C	Curran (Rose & James) store & flat	1042 WILLOW ST	1883-84	Italianate commerc'l
Cb-/C	Schrieber (Chr.)-Silveria (Joseph) house	1107 WILLOW ST	1874-75	Ital.falsefrt.cottag
Cb-/C	Schrieber (Chris.)-Higgins (Thos.) house	1111 WILLOW ST	1874-75	Italianate cottage
Cc/C	Moore (Charles)-Nielsen (Christian)house	1115 WILLOW ST	1877-78 R 1880s	Ital./Stick cottage
Ec/R	Schrieber (C.) rental-Hansen (J.C.)house	1119 WILLOW ST	1877-78 add/R c1890s	Italianate cottage
Cc/C	Murphy (Patrick) house	1122 WILLOW ST	1883-84 rem 1889 ?	Q.A.house, ex Stick?
Ec/R	Grannis (R.W.)-Phillips (Benj.) duplex	1125 WILLOW ST	1877-78 (altered)	Ital./Greek Rv.dbl h
Dc/C	Cuddy (John) house	1128 WILLOW ST	1883-84	Italianate house
Ec/R	Grannis (RW)-Phillips (Benj)rental house	1129 WILLOW ST	1877-78 ad/R 80-90s?	Italianate house R
*/N	Mount Zion Missionary Baptist Church	1203 WILLOW ST	1941-55 R 1947 ff	Mid 20c vern.church
Cc/C	Yee (Sue Kwai & Jennie) flats	1216 WILLOW ST	1902	Colonial Rev. flats
Ec/R	Revalk (John) house	1228 WILLOW ST	1877-78 (altered)	Italianate house
Dc/C	Wurts (Myron)spec.-Dixon (Virginia)house	1230 WILLOW ST	1912	Bungalow
Ec/R	Wurts (Myron) spec. house	1234 WILLOW ST	1912 rem 1980	Bungalow
Cc/C	Wurts (Myron) spec. house	1240 WILLOW ST	1912	Craftsman house
Cb-/C	Chase (Quincy A.)-Lilley (George) house	801 WOOD ST	1866 c. add 1900s	Italianate house
Cc/C	Chase (Charles) house	809 WOOD ST	1885-86	Queen Anne cottage
Dc/C	Pepper (Clara Chase)-Martinovich house	813 WOOD ST	1884-85	Italianate cottage
Cc/C	Chase (Edward)-Long (Wm./Ralph) house	817 WOOD ST	1884-85	Italianate cottage
Cc/C	Hanby (Paul & Hattie) house	820 WOOD ST	1904-05	Shingle style house
Cc/C	Holt (Newton & Julia)-Weldt (David)house	823 WOOD ST	1896	Queen Anne house
Cc/C	Saufley (Robert)-Morey (Charles) house	824 WOOD ST	1870-71 rem 1890s	QA/Stick hse,ex Ital
Cc/C	Cruess (Lambert)-Rickard (Maria) house	828 WOOD ST	1872-73	19c vernacular house
Ec/R	Kohler-Chase Piano W'h, Baird Brush Co.	829 WOOD ST	1906-07 add/R 1925?	Early 20c util/Colon
Dc/C	Chase (Quincy A.) rental house	831 WOOD ST	1872-73 or 1880s	Italianate cottage
Cb-/C	Chase (Q.)rental-Upton (Augustine) house	835 WOOD ST	1872-73	Ital.falsefrt.cottag
Cb-/C	Chase (Quincy A.) rental house	839 WOOD ST	1872-73	Ital.falsefrt.cottag
Ec/R	Smith (Frank)-Antonovich (Richard) house	851 WOOD ST	1881-82 (altered)	Stick cottage
Dc/C	Schelin (August & Hilma) house	855 WOOD ST	1881-82	Stick cottage
Cc/C	Schlegelmilch (Stephen) house	856 WOOD ST	1891-92	Queen Anne cottage
Cc/C	McKean (William)-Enos (Henry) house	859 WOOD ST	1881-82	Stick cottage
Cc/C	Lagerkrantz (Carl)-Boscovich (Anna)house	863 WOOD ST	1881-82	Stick cottage
Dc/C	Barker (James)-Meyer (Alex./Cath.) house	866 WOOD ST	1873-74	Ital./Greek Rv.cottg
Cc/C	McCord (Evan)-Bootsma (Wm.) house	867 WOOD ST	1881-82	Stick cottage
Cc/C	Gould (Nelson)-Thompson (Wm.) house	871 WOOD ST	1881-82	Stick cottage
*/N	Unknown	872 WOOD ST	1981	20c vernacular house
Cc/C	Jeffress-Smith rental-Vrankovich house	875 WOOD ST	1881-82	Stick cottage
Dc/C	Bugbee (George)-Harding (David) house	878 WOOD ST	1874-75	Italianate house
C/C	Jeffress-Smith rental-Jackovcevich house	879 WOOD ST	1881-82	Stick cottage
Cc/C	Berry (Wm.)-Cahill (John) house	882 WOOD ST	1872-74	Italianate house
Cc/C	Jeffress-Smith rental-Kersich (Dom.) hse	883 WOOD ST	1881-82	Stick cottage

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C/C	McKeen (Albert) house	886 WOOD ST	1883-84	Italianate house
Dc/C	Jeffress (Geo./Eliz.)-Finigan(John)house	887 WOOD ST	1881-82	Stick house
Dc/N	Trebotich (John) house	911 WOOD ST	1919	Prairie cottage
Eb-/R	Port (Peter)-George (David) house	912 WOOD ST	1868pre mvd 1900-01	19c vernac. saltbox
Ec/R	Unknown, later Trebotich (John) rental h	915 WOOD ST	1880s c mvd c.1920	Stick house
Cc/C	Port (P.)-Meyer (Adolph)-Harvey(N) house	920 WOOD ST	1881-82 rem 1888-89	QA cottg,ex Stk/Ital
Cc/C	Pettitt (Jos. G.) cottage	925 WOOD ST	1908	Colon.falseft.cottag
Dc/C	Canepa (Jacob) house	926 WOOD ST	1874-75	19c vernac.cottage
Cc/C	Pettitt (Jos. G.) house & rental	929 WOOD ST	1889-90	Queen Anne cottage
Cc/C	Johnson(Thos.)-Kercheval-Viscovich house	930 WOOD ST	1868-69	Italianate house
Ec/R	Pettitt (Jos. G.) house & rental	933 WOOD ST	1889-90 (altered)	Queen Anne cottage
Ec/R	Hufschmidt (Louis) house	934 WOOD ST	1873-74 (altered)	Italianate cottage
Dc/C	Goodwin (Thomas)-Hopper (John) house	937 WOOD ST	1870-71 rem 1889-90	Ital/Grk hse R as QA
Cb-/C	Hufschmidt (Louis) house	940 WOOD ST	1883-84	Ital.falsefrt. house
*/N	Unknown	945 WOOD ST	1956	Streamlined commercl
Cc/C	Rubino (Jos.) store & flat	1000 WOOD ST	1870s c mvd 1910-11	Ital.store/cottage?
Cc/C	Farrell (James)-Marsh (Agnes) house	1004 WOOD ST	1899-00	Queen Anne cottage
Cc/C	Rademacher (August)-Majeau (Geo.) duplex	1011 WOOD ST	1879-80	Ital.falsefrt.duplex
Cc/C	McDonald (Alex Bruce) house	1014 WOOD ST	1880-81 rem 1890s?	Ital. house/Q.A.flts
*/N	None	1019 WOOD ST	1987-88	Late 20c house
Dc/C	McDonald (Alex Bruce) house	1010 WOOD ST	1876-77	Greek Rv./It.cottage
C/C	Bonifield (James)-Gaunce (Sarah) house	1020 WOOD ST	1876-77 rem 1888-89	Pioneer/Greek cottag
Cc/C	Downing (Albert)-Corwin(E)-Sulezich hous	1024 WOOD ST	1876-77	Italianate house
Cc/C	Fick (August)-Badely (John) rental house	1025 WOOD ST	1904	Queen Anne house
Eb-/R	Truesdell (Amelia)-Fick (August) house	1027 WOOD ST	1867-68 ? rem.c.1900	Italianate cottage
Cc/C	Osborn (Wm.)-McArthur (Daniel) house	1028 WOOD ST	1878-79	Italianate house
Cc/C	McLauglin rental-Franulovich (Vinc)house	1031 WOOD ST	1890-91	Queen Anne house
Dc/C	Unknown, later Kaliterna (Mary) house	1032 WOOD ST	1880s c mvd 1925-30	Stick house
Ec/R	McLauglin (John/Cath)-Sulezich (V) house	1035 WOOD ST	1890-91 (altered)	Queen Anne house
Dd/P	Tyler (Walter) bldg; Church of Christ	1102 WOOD ST	1946? arr.aft.1935	Early 20c vern.house
Cb-/C	Breuer (Herman/Cath.)-Salema (Gus) house	1105 WOOD ST	1884	Stick/Q.A. cottage
Eb-/R	Rozier (Alphonse)-Rodrigues(Manuel)house	1109 WOOD ST	1884 (altered)	Stick/Q.A. cottage
Db-/C	Briggs (Jeremiah)-Viegas (Antonio) house	1113 WOOD ST	1884	Stick house
Cb-/C	Taylor (Geo.)-Barry (Jane/Albert) house	1117 WOOD ST	1884	Stick cottage
Cc/C	Freeman (CW)-Buechner (P)-Lew (W&E)house	1118 WOOD ST	1891-92 add c.1925	Stick/Q.A. cottage
Db-/C	Reilly (Martha)-Ladd-Peters (Anton)house	1121 WOOD ST	1884	Stick cottage
Cc/C	Stoddard (Anthony)-Harvey (Jonas) house	1122 WOOD ST	1875-76	Italianate cottage
Cb-/C	Morgan (Mary) rental-Stanger (John)house	1125 WOOD ST	1884	Stick cottage
Cc/C	Stoddard (Anthony)-Harvey(J)rental house	1126 WOOD ST	1875-76	Italianate cottage
Cc/C	Stoddard (A.)-Harvey (Jonas)rental house	1130 WOOD ST	1875-76	Italianate cottage
Eb-/R	Jeffress(Alexander)-Hickson (Samuel) hse	1131 WOOD ST	1884 (altered)	Stick cottage
Cb-/C	Roeben (George)-Peters (Anton) house	1133 WOOD ST	1884	Stick cottage
Cb-/C	Wood (Wm)-Lew Tye-Lew Shang Hubert house	1137 WOOD ST	1884 add 1927	Stick cottage
Cc/C	Stoddard (Anth.)-Harvey (J.)rental house	1138 WOOD ST	1875-76	Italianate cottage
Cb-/C	Fraser (Robert) house	1202 WOOD ST	1876-77 rem 1883-84	Stick cottage/ex Itl
B-b-/C	Fraser (Robert) rental house	1204 WOOD ST	1883-84	Stick cottage
Cb-/C	Fraser (Robert) rental house	1206 WOOD ST	1883-84	Stick cottage
Cb-/C	Fraser (Robt)rental-Ahrens (Jacob) house	1208 WOOD ST	1883-84	Stick cottage
Cb-/C	McCarthy (John & Ellen) house	1220 WOOD ST	1885	Stick cottage
Cb-/C	Vagg (Wm. S.)-Babb (Charles) house	1228 WOOD ST	1884-85	Stick cottage

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Cb+/C	Clift (Charlotte)rental-Smith(Geo.B)hous	1236 WOOD ST	1885-86	Stick cottage
Cc/C	Smith (Michael)-Moffit (James) flats	1406 8TH ST	1894	Queen Anne flats
Cc/C	Stark (James/Ida)-Lalantonis (Geo) house	1410 8TH ST	1894	Queen Anne house
Cc/C	Hoppe (John C.) rental house	1418 8TH ST	1885-86	Italianate/Stick hse
Dc/C	Hoppe (John C) rental-Clark (Anna) house	1420 8TH ST	1878-79	Italianate house
Cc/C	Hoppe (John C.)-Perricone-Aftergut rentl	1428 8TH ST	1878-79	Italianate house
Cb-/A	Samm (Jacob)-Dalton (Henry) house	1454 8TH ST	1877-78 R1895,ad1948	Queen Anne house
Eb-/R	Hulford (Edward) house	1464 8TH ST	1877-78 rem 1979	Italianate house
Eb-/R	Alexander (Henry)-Feige (Richard) house	1468 8TH ST	1877-78 (altered)	Italianate house
Cc/C	Fagan (Ann)-Bechtel (John/Caroline)house	1472 8TH ST	1877-78	Italianate house
Db-/C	Westphal (John) rental-Bredhoff(H) house	1477 8TH ST	1892-93	Queen Anne house
Cb-/C	Simonton (Wm.B.)-Bonelli-Foney house	1480 8TH ST	1877-78	Italianate house
Dc/C	Simonton (Wm.B.) rental house	1484 8TH ST	1888-89	Queen Anne house
A/A	Western Market, Peace Mission	1485 8TH ST	1877 rem 1928	Italianate commerc'l
Cc/C	Heine (Adolph)-Hayes (Daniel) flat/store	1501 8TH ST	1874-75 or 1876-78	Italianate coml/flat
Dc/C	Thaler (Conrad) stores/flats, S.F.Bakery	1502 8TH ST	1876-77	Ital. comm.& flats
Dc/C	Heine (Adolph)-Cronin (Walter) house	1507 8TH ST	1874-75 or 1876-78	Italianate rowhouse
B-b-/C	Baldwin (Sherman)-Mellon (John) house	1509 8TH ST	1880-81	Italianate rowhouse
*/N	Club One Tavern	1510 8TH ST	1945	Mid 20c vern. com'l
Dc/C	Thaler (Conrad)-Weinmann (Cath.) house	1516 8TH ST	1876-77	Italianate cottage
Cc/C	Wedgewood (Chas.)-Michel (August) house	1522 8TH ST	1878-79	Italianate house
Cc/C	Lougee (Charles) house	1523 8TH ST	1875-76 R 1880s?	Ital.house/R asStick
B-b-/C	Chase (Andrew)-Garrison (Wm.) house	1527 8TH ST	1877-78	Italianate house
Cc/C	Bailey (Robert)-Whitlach (Daniel) house	1530 8TH ST	1876-77	Italianate house
B-b-/C	Gaillard (Charles)-Nee (James) house	1531 8TH ST	1878-79	Italianate house
Cb-/C	Jordan (Isaiah)-Coyne (Mich'l/John)house	1533 8TH ST	1877-78	Italianate house
Cb+/C	Reilly (Lawrence)-McNally (Wm.) house	1538 8TH ST	1876-77	Italianate house
Dd/N	Vickerson (John) house	1551 8TH ST	1917	Prairie house
Cc/C	Albrecht (August) house & rental	1552 8TH ST	1876-77	Italianate house
B-b-/C	Lund (Marinus)-Bullock (Harry C.) house	1555 8TH ST	1878-79	Italianate house
Ec/R	Plomteaux (Henry)-Gabrielson (Andw)house	1556 8TH ST	1876-77 fire damaged	Italianate house
B-b-/C	Aitken (J.R.)-Price (James) house	1557 8TH ST	1878-79	Italianate house
Ec/R	Albrecht (Aug) rentl-Hills (Austin)house	1558 8TH ST	1876-77 (altered)	Italianate house
Cb-/C	Prentice (Mabel)-Reilly (Harry) house	1559 8TH ST	1878-79	Italianate house
Cc/C	Albrecht (Aug)rentl-Anslyn (Mynard)house	1560 8TH ST	1876-77	Italianate house
B-b-/C	Lincoln (Harry)-Williams(Katherine)house	1561 8TH ST	1878-79	Italianate house
Cc/C	Albrecht store/flat-Washington (E) clnrs	1562 8TH ST	1889-90	Stick store & flats
Cc/C	Todd (Minerva Case)-Bako (John) house	1706 8TH ST	1874-75	Italianate cottage
*/P	Unknown	1710 8TH ST	1985-86	Postmodern duplex
Cc/C	Cullen (Thomas)-Fackory (Fred A.) house	1717 8TH ST	1873-75 rem 1900-02	Pioneer/Colon. house
Dc/C	King (Geo W.)-Williams (Jane) house	1718 8TH ST	1874-75	Italianate house
Ec/R	Lawler (John J.) house	1720 8TH ST	1874-75 (altered)	Ital.falsefrt.cottag
Cc/C	Cullen (Thomas) house	1723 8TH ST	1873-75	Italianate cottage
Ec/R	Winslow (Henry) rental-Hagen(Mollie)hous	1725 8TH ST	1871 (altered)	Pioneer/vern.saltbox
Dc/C	Winslow (Henry) rental-Dickinson(Jas)hse	1729 8TH ST	1890-92	Queen Anne house
Dc/C	Flint (Levi)-Will (Andrew) house	1730 8TH ST	1876-77 rem c.1889	Ital.house,R Stck/QA
Ec/R	Winslow (Henry)-Jenkins (Joseph) house	1735 8TH ST	1873-74 (altered)	Italianate house
Cc/C	Perkins (Samuel)-Cross (Hattie) flats	1736 8TH ST	1872-73	Ital.falsefrt.duplex
Cc/C	Huntington (Uriel) rental house	1744 8TH ST	1881	Italianate cottage
Cc/C	Huntington (Uriel) house	1746 8TH ST	1873-74	Italianate house

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*/N	Hayes (Hugh) store bldg.	1748 8TH ST	1948	Streamlined comm'l
Dd/C	Lillie (Geo.) rental cottage	1756 8TH ST	1910s? mvd?1925-33	Colonial/Crafts.cotg
Dc/C	Pepper (Fred)-Stephens (Catherine) house	1764 8TH ST	1884-85	Stick cottage
Cc/C	Stevens (Mary)-Pitta (Jose) flats	1768 8TH ST	1900-02 inc 1860s?	Colonial Rev. flats
Ec/R	Berry(Wm.)-King (Jeff.D.)-Abrahams house	1772 8TH ST	1877pre rem 1900s?	Italianate house
Cc/C	Williams (Joseph)-Povich (Gern) house	1774 8TH ST	1896 c. inc 1870s?	Queen Anne house
Cb-/C	Stevens-Dunham-Keister (Levi B.) house	1777 8TH ST	1866-68	19c vern./Ital.house
Eb-/R	Stevens (Mary/Chas)-Hansen (Oscar) house	1778 8TH ST	1867-68 rem 1910s ff	19c vernac. house
Dc/C	Stevens (Chas)-Dunham (BF)-Keister house	1781 8TH ST	1866-68	19c vern./Ital.house
B+a/C	Berry (E.W.)-Shorey (Wm. & Julia) house	1782 8TH ST	1873	Italianate house
Dc/C	Smith (Martin)-Ingersoll (Clarence)house	1794 8TH ST	1881-82	Ital.falsefrt.cottag
C/C	Berry (Wm.)-Woodman (Frank) house	1796 8TH ST	1886-87	Stick/Gothic house
B-b-/C	Priest spec. house-Lincoln-Wieking house	1405 9TH ST	1889-90	Stick/Q.A. cottage
Cc/C	O'Brien (Mary & Ollie) house	1406 9TH ST	1886-87	Stick/Q.A. cottage
Dc/C	O'Brien (Mary & Ollie) rental house	1410 9TH ST	1886-88	Stick/Q.A. cottage
B-b-/C	Priest spec. house-Spencer (Aron) house	1411 9TH ST	1889-90	Stick/Q.A. cottage
Cc/C	Berwick (Alexander) house	1415 9TH ST	186-70s mvd 1884-85	Greek Revival house
Cc/C	O'Brien (M.& O.)rental-Byers (Wm.) house	1416 9TH ST	1886-88	Stick/Q.A. cottage
Ec/R	McTavish (Kenneth)-Cartwright(Aretta)hse	1420 9TH ST	1877-78 mv 1940,ad49	Italianate house
Ec/R	Langley (Laban) house	1422 9TH ST	1877-78 (altered)	Italianate house
Cc/C	Barry (Wm.)-Reynolds (Daniel) house	1423 9TH ST	1877-78	Italianate house
Cc/C	Partridge (Abram) house	1428 9TH ST	1889	Queen Anne house
C/C	Besenthal (Ernest & Agnes) flats	1429 9TH ST	1905	Colonial Rev. flats
Ec/R	Partridge (Abram) house	1434 9TH ST	1889 inc 1876-77	Q.A. house, inc.Ital
Cc/C	Gallin (Frederick)-Besenthal (Ern.)house	1435 9TH ST	1877-78	Italianate cottage
Dc/C	Rotherman (John) house	1436 9TH ST	1877-78	Italianate house
Dc/C	Scholl (Susanna)-Madison (Frank) house	1439 9TH ST	1877-79	Ital.falsefrt. house
Cb-/C	Mathison (Andrew)-Forester (E.H.) house	1454 9TH ST	1880-81	Stick house
Cb-/C	Gaillard-Garcelon rental-Correia house	1456 9TH ST	1881	Stick cottage
Cb-/C	Woods (Jos.T.)-Walker (Thos.R.) house	1464 9TH ST	1880-81	Italianate cottage
Cb-/C	Catton (Fred R.)-Haller (Jos.P.) house	1467 9TH ST	1877-78	Italianate house
Dc/C	Ransom (Sidney)-Ireland (John) house	1468 9TH ST	1885-86	Stick house
Cb-/C	Scott (Shailer)-Edwards (Benj.) house	1473 9TH ST	1877-78	Italianate house
Cb-/C	O'Brien (Michael)-Ide (Welcome) house	1474 9TH ST	1875-76	Italianate house
*/N	None	1481 9TH ST	1960 mvd 1966	Late 20c apartments
B-b-/C	Carter (William)-Twomey (Edward) house	1482 9TH ST	1875-76	Italianate house
B-b-/C	Johnson (James)-Leiding(Christopher) hse	1484 9TH ST	1875-76	Italianate house
Cb-/C	Rogers (Edward)-Williams (William) house	1510 9TH ST	1880-81	Ital./Stick house
Dc/C	Scholl (Christian)-White (Augustus)house	1511 9TH ST	1873-74 circa	Italianate cottage
Cb-/C	Latimer (John) house-Rudolph (Louis)rntl	1514 9TH ST	1880-81	Italianate house
*/N	None	1518 9TH ST	1950-51	Mid 20c apartments
Cb+/C	Cole (Beverly)-Wand (Thos)-Bru(Inga)hous	1521 9TH ST	1869-70	Ital./Greek Rv.house
Cb+/C	Brown (Marvin M.) house	1522 9TH ST	1899-00	Shingle style house
Dd/P	Graca (Antone) grocery	1523 9TH ST	1925-26	Early 20c vern.coml
Cb-/C	Allen (Napoleon)-Farrell (Sidney) house	1526 9TH ST	1889	Queen Anne cottage
Eb+/R	Graham (Robert)-Crawford (Thos.) house	1531 9TH ST	1879-80 (altered)	Stick house
Cb+/C	Ambrose (Thomas)-Murphy (A.J.) house	1532 9TH ST	1899	Shingle style house
B-b+/C	Kilborn (Alden)-Wilson (A)-Ballas house	1537 9TH ST	1879-80	Stick house
*/N	None	1712 9TH ST	1982	Manufactured house
Cc/C	Hanley (George)-Crum (Casper) house	1715 9TH ST	1879-80	Italianate cottage

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Dd/N	Catera (Luca) house	1716 9TH ST	1931	inc 1885-86?	Medit.cottage,ex19c?
Dc/C	Springer (Ransom)-Ninatti (James) house	1717 9TH ST	1875-76		Italianate cottage
Cc/C	Murtha (Peter) house	1721 9TH ST	1875-76		Italianate cottage
Dc/C	Morison (Wm.& Helen) flats	1724 9TH ST	1906		Colonial Rev. flats
Cc/C	Murphy (Wm.& Mary)-Hancock (John) house	1727 9TH ST	1908		Colonial Rev. house
Ed/N	Zarubbi (Paul & Zaira) house	1730 9TH ST	1930	inc 1906-11	Prairie house
Ec/R	Martin (Charles & Rose) house	1731 9TH ST	1883-84	mv/ad 1891-2	Italianate house R
C/C	Roediger (F.A.)-Whitworth (Eliza) house	1734 9TH ST	1869-70		Italianate house
Ec/R	Van Winkle (Isabella)-Korich(Chas) flats	1737 9TH ST	1905-06	(altered)	Colonial Rev. flats
Cc/C	Martin (Robert)-Wilson rental house	1740 9TH ST	1888-89		Queen Anne cottage
Cc/C	Wilson (Augusta)-Moore (Robert) house	1744 9TH ST	1886-87		Italianate/Stick hse
B-/C	Moore (Robert H.) flats	1748 9TH ST	1901		Colonial Rev. flats
B-b-/C	McFadden rental-Donnelly (Edward) house	1752 9TH ST	1880-81	inc older b?	Greek Revival cottag
Ec/R	McFadden (Thos.) rental-Cogan (Wm) house	1756 9TH ST	1880-81	(altered)	Stick cottage
Ec/R	McFadden (T) rental-Nakashige (S.) house	1760 9TH ST	1880-81	rem 1960, 84	Stick cottage
Dc/C	McFadden rental-Mestrovich (John) house	1764 9TH ST	1880-81		Stick cottage
Cc/C	McFadden (Thos)rental-Ivica (Nick) house	1768 9TH ST	1880-81		Stick cottage
Cc/C	Hogan (Thomas) house	1776 9TH ST	1871-72	mv bk of lot	19c vernac/saltbox
Db-/C	Price (Walter)-Catera (Luca) house	1777 9TH ST	1884-85		Queen Anne cottage
Cc/C	Brothers (John/Frances)-Girolami house	1780 9TH ST	1908-09		Colonial Rev.cottage
Cb-/C	Mitchell (Chas.)-Sather (Martin) house	1781 9TH ST	1884-85		Stick/Q.A. cottage
Cc/C	De Mooy (Samuel)-Holub (Wm.) house	1784 9TH ST	1900-01		Queen Anne cottage
Cb-/C	Watkins (Henry)-Reyes (Angelica) house	1785 9TH ST	1884-85		Queen Anne cottage
C/N	Dinelli (Nick) house	1788 9TH ST	1925		Mediterranean cottag
Dd/C	Brocchini (Peter) house	1794 9TH ST	1915-18		Colonial/Crafts.cotg
Cb+/C	Long (Maxwell & Mary) house	1798 9TH ST	1868c		19c vernac. house
Cc/C	Ralston (Henry) house	1409 10TH ST	1877-78		Italianate cottage
Cc/C	Bernard (W.R.)-Young (James W.) house	1412 10TH ST	1877-78		Italianate cottage
Cc/C	Tarr (Alvin B.) duplex	1414 10TH ST	1882-83	add 1888-89	Ital & Q.A. cottages
Ec/R	Ralston (Henry) rental house	1415 10TH ST	1876-77	(altered!)	Italianate cottage
Cc/C	Beckerton (Charles)-Duffy (Bernard)house	1421 10TH ST	1887-88		Stick/Ital. cottage
Ec/R	Eland (Robt/A.)-Kane(C)-McCowan(D) house	1426 10TH ST	1883-84	(altered)	Stick house
C/C	Frey (Gust.) rental-Pocina (Ant'a) house	1427 10TH ST	1888-89		Stick/Q.A. cottage
Cc/C	Eland (Annie) rental-Coyne (Dennis)house	1430 10TH ST	1883-84		Italianate cottage
Cc/C	Kiszler (Henry)-Holland (Daniel) house	1431 10TH ST	1876 c.		Italianate cottage
D/P	Jackson (Jim) house	1434 10TH ST	1946		Colonial Rev.cottage
Cc/C	Tarr (Alvin) rental-McCowan (Frank)house	1438 10TH ST	1889-90		Queen Anne house
Cb-/C	Dempsey (Henry) meat market	1442 10TH ST	1880-81		Ital.falsefrt.comm'l
Cb-/C	Pressy (JR)-Olsen (H)-George (M) grocery	1448 10TH ST	1880-81		Ital.falsefrt.comm'l
Dc/C	Redington (Chas.)-Barlin (Jacob) flats	1662 10TH ST	1902-03		Colonial Rev. flats
Cc/C	Steffens (Diedrich)-Hufschmidt(Henry)hse	1674 10TH ST	1888-89		Queen Anne house
Eb+/R	Redington (Charles) house	1678 10TH ST	1879-80	(altered)	Italianate house
Ec/R	Unknown, later Douglas (Wm.) house	1684 10TH ST	1870s c	mvd'20s,R'48	Italianate house
Cc/C	Taylor (Edward)-Fannon (John) house	1690 10TH ST	1874-75	add 1900s	Italianate cottage
Cc/C	Fannon (John) rental cottage	1694 10TH ST	1906-07		Colonial Rev.cottage
Dc/C	Fannon (Mary) rental cottage	1698 10TH ST	1908		Colonial Rev.cottage
*/N	None	1700 10TH ST	1973-75		Late 20c residential
Ec/R	Roccatagliata(G.B.)-Donahar (Cath.)flats	1708 10TH ST	1877-78	(altered)	Italianate flats
Cc/C	Wittenburg (Adolph)-Rudech (Thos.) house	1715 10TH ST	1888-89		Queen Anne cottage
Dc/C	Booth (Geo.)-Fick (August)-Tamm house	1716 10TH ST	1870-71		Italianate cottage

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Cc/C	Wagner(Wm)-Hufschmidt(Henry) rental hse	1717 10TH ST	1881-82	Italianate cottage
*/N	None	1720 10TH ST	1962	Manufactured house?
Ec/R	Hufschmidt (Henry)-Uhner (Milton) rental	1725 10TH ST	1873-74 rem 1952+	Italianate cottage
Cc/C	Giamboni (Natale) house	1726 10TH ST	1900s inc.1874	Col.flats/Ital.house
Dc/C	Hufschmidt house-Ulmer (Milton) rental	1729 10TH ST	1873-74	Italianate cottage
B-/C	Johnson (Thomas)-Beretta (G.) house	1733 10TH ST	1868-69	Italianate house
Ec/R	Howland (Stephen)-Drake (Geo. W.) house	1734 10TH ST	1872-73 (altered)	19c vernacular house
Dc/C	Hufschmidt (Alfred) house & rental	1737 10TH ST	1884-85	Ital.falsefrt.cottag
Cc/C	Roberts (John)-Harris (Sarah) house	1742 10TH ST	1874-75	19c vernacular house
Cc/C	Rademacher (August) house	1750 10TH ST	1870-71	Ital.house w/QA adds
Dc/C	Gray-Schuler-Rademacher rent-Gianotti hs	1756 10TH ST	1871-73 R 1890-1900s	19c vernac. cottage
Dc/C	Howe (Geo)-Schuler-Rademacher rental	1760 10TH ST	1871-74	19c vernac. cottage
Ec/R	Abel (George)-Scoville (Avery) house	1761 10TH ST	1874c rem/pt demol	Italianate cottage
Cc/C	Story (Thos)-Fazio (Joseph) house	1764 10TH ST	1889-90	Q.A./Stick cottage
Dc/C	Burrell (Henry)-Plummer (James) house	1765 10TH ST	1871-72 R c.1886-92	Ital/Greek/Stick hse
Cc/C	Rahmstorf (Cord)-Hart (Thos/Mary) house	1766 10TH ST	1888-89	Q.A./Stick cottage
Dc/C	Martinelli (Pietro) rental house	1770 10TH ST	1890s c mvd 1913-14	Queen Anne house
B-/C	Wood (Wm.H.)-Colburn (Marie) house	1773 10TH ST	1868-69	Gothic cottage
Cc/C	Martinelli (Pietro) rental house	1774 10TH ST	1890s c mvd 1913-14	Queen Anne house
Dc/C	Unknown	1779 10TH ST	1870s c mvd 1925-32	Italianate cottage
Dc/C	Morrison (Hector)-Lepruin (John) house	1783 10TH ST	1870-71	19c vern./Ital.house
Dc/C	Thomas (John) rental-Ryan (James) house	1412 11TH ST	1884-85	Stick cottage
Cc/C	Montrose (John B.)-Thomas (John) house	1416 11TH ST	1871-72	Ital./Greek Rv.house
Cc/C	Champreux (Gustav)-Spalasso (Carlo)house	1417 11TH ST	1883-84	Stick/Ital.FF cottag
Cc/C	Champreux (Gustav)-Franco (Peter) house	1419 11TH ST	1884-85	Stick cottage
Dc/C	Bradley (Nicholas)-Hartman (J.C.H.)house	1423 11TH ST	1902-10 inc pre1880?	Q.A. house,inc.Ital?
Cb-/C	King (Thos/Anna)-Monahan (Johanna) house	1424 11TH ST	1872 c.	Ital./Greek Rv.cottg
Cb-/C	King (T./A.)-Connellan (Lawrence) house	1428 11TH ST	1872 c.	Ital./Greek Rv.cottg
Ec/R	Swayne (Robert)-Hartman (Frederick)house	1429 11TH ST	1884-85 (altered)	Stick house
*/N	None	1434 11TH ST	1986	Manufactured house ?
C/C	Hardy (Mae E.) flats	1436 11TH ST	1895-96	Queen Anne dbl.flats
Cc/C	Mulligan (Mary) flats	1448 11TH ST	1906	Colonial Rev. flats
Dd/P	Lathrop (Chas.N.)-Hawthorne (Jas.) house	1611 11TH ST	1914-15	Craftsman house
Cb-/C	Reinecke-Wilshusen (Catherine) house	1612 11TH ST	1888-89	Queen Anne cottage
Dc/C	Foley (Annie)-Fernald (Robt.& Emma)house	1615 11TH ST	1904-05	Colonial Rev. house
Cc/C	O'Brennan (John and Mary) rental house	1616 11TH ST	1887-88	Stick house
Ec/R	Dieves (Chas.) house	1621 11TH ST	1898-99 (altered)	Queen Anne house
Cc/C	Maloney (Patrick) house	1622 11TH ST	1887-88	Stick house
Cc/C	St. Patrick's teachers' residence	1625 11TH ST	1870s mvd 1899-00	19c vernac. house
Ec/R	Gundlach (Fred)-Banicevich (Dick) house	1627 11TH ST	1897-98 (altered)	Queen Anne cottage
Ec/R	Noble (James/Mary)-Mandes (Philip) house	1628 11TH ST	1890-91 (altered)	Queen Anne cottage
Dc/C	Harvey (Wm.)-O'Brien (Austen) house	1629 11TH ST	1877-78	Italianate house
Ec/N	Victory (Elizabeth and John) house	1630 11TH ST	1886-87	Q.A./Stick cottage R
Dc/C	Harvey (Wm.)-Hawkett (Wm.) house	1651 11TH ST	1879-80	Italianate cottage
Ec/N	Lass (Christian)-Johnson (Edward) house	1661 11TH ST	1877-78 R 1960-70	Italianate house
Dd/C	Tumpich (John) house	1663 11TH ST	1923	Colonial Rev.cottage
Dc/C	Eaton (Chas H.)-Knight (Wm.) house	1665 11TH ST	1871-72 mv 1/2 lot	Greek/Ital't house
Cc/C	Gould (Henry) house	1666 11TH ST	1874-75	Italianate house
Cb-/C	Pearson (John)-Porch (Henry/Penelope)hse	1671 11TH ST	1874-75	Italianate cottage
Cc/C	King (Jefferson) rental-Canty(Mary)house	1672 11TH ST	1901-02 inc 1870s?	Queen Anne cottage

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Cc/C	Murray (S.C.)-Engelhardt (Albert) rental	1674 11TH ST	1875-76	19c vernac. cottage
C/C	Stilley (Henry) house	1677 11TH ST	1884-85	Queen Anne cottage
Cc/C	Young (Henry) house	1679 11TH ST	1890-91	Queen Anne cottage
*/N	None	1682 11TH ST	1984	Late 20c vern.cottag
Ec/R	Murray (Sarah & S.C.) rental house	1684 11TH ST	1876-77 (altered)	Italianate house
Cc/C	Phillips (Jas/Eliz)-Edwards (Frdk) house	1690 11TH ST	1876-77	Italianate cottage
Cc/C	Keller (John & Catherine) house	1694 11TH ST	1891-92	Queen Anne cottage
*/N	None	1717 11TH ST	1982	Late 20c vern. house
C/C	Turner (Job P.)-Price (Rees)-Lewis house	1721 11TH ST	1870-71	Ital./Greek Rv.house
*/N	None	1724 11TH ST	1988	Manufactured house
Cc/C	Penso (J.)-Gonzales (M)-Greves (D) house	1728 11TH ST	1890s? inc 1877-78?	Queen Anne cottage
Cc/C	Bacigalupi (Paolo)-Ortiz (Anselmo) house	1729 11TH ST	1870-71	Ital./Greek Rv.cottg
Cc/C	Blanchard (Jas.)-Martens-Underwood house	1731 11TH ST	1890s c inc71/ad.05c	Colonial Rev.cottage
Cb-/C	Hodges (Geo. & Sadie) house	1735 11TH ST	1873-75	Greek Revival house
Ec/R	Perry (John F./Amelia)-Buford (F.) house	1736 11TH ST	1872-74 rem 1949+	19c vern/Ital.cottag
Cb-/C	Edwards (Wm.)-Cook (John/K)-Piacum house	1739 11TH ST	1874-75 add 1946-47	Greek Revival house
Cc/C	Freeman (Charles W.) house	1740 11TH ST	1870-71 front1882-01	Gothic+Q.A. cottage
Cb-/C	Howe(HP)-Raye(AP)-Barros (Manuel) house	1767 11TH ST	1871-72	Greek Rv./vern.cottg
Cb-/C	Collins (F.R.) house	1771 11TH ST	1871-72	Greek Rv./vern.cottg
Cc/C	Plummer (J.W.) house	1791 11TH ST	1877-78 add 1890s	19c vern./Ital.house
Cc/C	Schneily (Joseph) house	1408 12TH ST	1888-89	Queen Anne cottage
Ec/R	Spellman (Ann)rental-Schweiss (Peter) hs	1414 12TH ST	1879-80 rem 1890s	Q.A. cottage,ex Ital
Ec/R	Spellman (Thomas & Ann) house	1416 12TH ST	1875-76 inc pre-1868	Italianate house
Cc/C	Crase (M.)-Ackerman (F.)-Bacina (S.) Hse	1419 12TH ST	1892-93	Queen Anne cottage
Dc/C	Soames (Charles)-Johnston (Walter) house	1422 12TH ST	1903-04	Colonial Rev. flats
Ec/N	Neil (Wm/Margt)house, Banks Ice Crm Parl	1424 12TH ST	1885-86 rem 1945 ff	Stick/Q.A. cottage
C/C	Crase (James)-Crowder (Oliver) house	1427 12TH ST	1901-02 inc pre1880?	Queen Anne house
Cb-/C	Peters (A.S.)-Stahr (Wm.) house	1428 12TH ST	1885-86	Ital.falsefrt.cottag
Ec/R	Flanigan (Edward)-Bonini (Gus) house	1431 12TH ST	1888-89 (altered)	Q.A./Stick cottage
Cb-/C	Peters (A.S.)-Parkin (Joshua) house	1432 12TH ST	1885-86	Ital.falsefrt.cottag
Ec/R	Knoch (Peter) house-Schulze butcher shop	1450 12TH ST	1877-78 R 1887-88 ff	False front commercl
*/N	None	1457 12TH ST	1963-65	Mid 20c apts & store
Cb-/G	Blanc (Amedee) rental-Giorgi (Geo.)house	1466 12TH ST	1885-86	Stick cottage
Eb-/R	Blanc(Amedee) rental-Leighton (Jos)house	1470 12TH ST	1885-86 (altered)	Stick cottage
Cb-/G	Blanc (Amedee)rental-Rilea (Howard)house	1474 12TH ST	1885-86	Stick cottage
Eb-/R	Blanc(A) rental-Augustinovich(Mathew)hse	1478 12TH ST	1885-86 (altered)	Stick cottage
Cb-/G	Fossard (Aime)rental-Gaspar (Manuel) hse	1482 12TH ST	1884-85	Stick cottage
Cb-/G	Fossard (Aime)rental-Rodrigues (Ed)house	1486 12TH ST	1884-85	Stick cottage
Cb-/G	Fossard rental-Woods (Wm)-Lipanovich hse	1490 12TH ST	1884-85	Stick cottage
B-b-/C	Hammer (John F.)-Rees (William) house	1503 12TH ST	1878-79	Italianate house
Ed/N	Romley (Shded T.) store building	1600 12TH ST	1945 rem 1972	Mid 20c commercial
Cc/C	Kempkey (August)-Devine-Westerholm house	1618 12TH ST	1882	Italianate house
Dc/C	Bishop (John N)-McEvilly (Jeremiah)house	1619 12TH ST	1886-87	Queen Anne cottage
Dc/C	Reese (Sarah/Wm.)-Duhaney (Samuel) house	1622 12TH ST	1878 mvd 1883	Stick house
Dc/C	Aplin (Wm.D) rental house	1623 12TH ST	1889-90	Queen Anne cottage
Ec/R	Reese (Wm.& Sarah) rental house	1624 12TH ST	1883-84 rem 1946	Stick cottage
Dd/C	Bullock (Harry C.) cottage	1626 12TH ST	1918-21	Colonial Rev.cottage
Cc/C	Aplin (Wm.D) rental house	1627 12TH ST	1889-90	Queen Anne cottage
Cc/C	Bullock (John C.) house	1630 12TH ST	1876-77	Italianate house
Cc/C	Harwood (Martha)-Viera-Lipanovich house	1631 12TH ST	1888-89	Stick house

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Dc/C	Noone (Martin) house and rental	1634 12TH ST	1876-77 rem 1903-04	Italianate house
C/C	Marsh (Agnes)-Blankenship (John/Dv)house	1637 12TH ST	1910	Colonial Rev. house
Cc/C	Walter (Otto)-Schulze (Fred) house	1638 12TH ST	1906-07	Colonial Revival
Dc/C	Walter (Otto)-Schulze (Fred)rental house	1642 12TH ST	1870s? mvd 1902-03	Italianate house
Ec/R	Raffo (Colombo) grocery & flat	1646 12TH ST	1891-92 rem 1910	Stick/QA commercial
Ec/N	Goodwin (Wm.B.) & Hassler (Anton) houses	1650 12TH ST	1875pre 1907, R 1944	Ital.house/Col.flats
Cb-/C	Unknown	1655 12TH ST	1870s? mvd c.1925	Ital't store/flats
*/N	Unknown	1658 12TH ST	1950s	Mid 20c vernac.comml
Cc/C	Rappold (John) rental house	1661 12TH ST	1888-89	Queen Anne cottage
Ec/R	Arfsten (Knudt) house	1666 12TH ST	1897-98 (altered)	Queen Anne house
Ec/R	Hollywood (Andrew) house/flats	1668 12TH ST	1874-75 (altered)	Italianate hse/flats
Ec/R	Rappold (John) house-Wilkerson gar/store	1669 12TH ST	1873-74 add 1945-66	Greek Revival cottag
Cb-/C	Redington (Chas.E.) house-Dalton rental	1675 12TH ST	1874-75	Ital't/Greek Rv.cotg
Cc/C	Cuddy (John)-Lamey (Geo.) house	1676 12TH ST	1876-77	Ital. falsefrt.house
Cc/C	Henneberry (Thos.)-Doty (Irvin) house	1685 12TH ST	1880-81 add 1889	Ital.cottage/Q.A.add
Dc/C	Baleiro (Augustus and Maculina) flats	1688 12TH ST	1906-07	Colonial Rev. flats
Ec/R	Jobson (Ellen)-Schenk (Carl) house	1689 12TH ST	1870c (altered)	Italianate cottage
Cc/C	Marshall (Joseph) house	1691 12TH ST	1881	Italianate cottage
Cc/C	Perry (Daniel & Frances) house	1693 12TH ST	1881	Italianate cottage
Cc/C	Enos (Antone) house	1695 12TH ST	1881	Italianate cottage
Dc/C	Yee (Sue Kwai & Jennie) store & flat	1698 12TH ST	1905-06	Colonial store &flat
Cc/C	Schubert (Frank)-Radal (Nick) house	1707 12TH ST	1909-10	Colonial Rev.cottage
Dc/C	Cracker (Judson)-Philips (Ernest) house	1709 12TH ST	1875-76 flats 1900s	Italianate house
Cc/C	Lowell (F.H.) flats	1717 12TH ST	1905-06	Colonial Rev. flats
Dc/C	Nash (Jonathan/Harry)house/store & flats	1727 12TH ST	1871-72 alt 1943-44	Ital. store & flat
Dc/C	Locke (Frank) rental house	1735 12TH ST	1899-00	Queen Anne house
Cc/C	Locke (Frank & Phoebe) house	1739 12TH ST	1891-92	Queen Anne house
Ec/N	Ismert (Edward)-Larsen (R)-Rizzo flats	1745 12TH ST	1877-78 mv/ad1948-50	19c vern/Ital hse, R
Ed/N	Grist (Wm.H.) garage	1451 13TH ST	1926	Early 20c commercial
Dc/C	Colburn (Chas) rental house	1460 13TH ST	1877-78	Italianate cottage
Cc/C	Wingate (John)-Briones (Gabriel) house	1461 13TH ST	1877-78	Italianate cottage
Ec/R	Tehaney (Patrick) house	1465 13TH ST	1877-78 (altered)	Italianate cottage
Ee/P	Morando (Emanuel) garage	1466 13TH ST	1934	20c utilitarian
Cc/C	Sternitzky (Robt)-Bashful(Garfield)house	1468 13TH ST	1891-92	Queen Anne cottage
Ec/R	Mack (Patrick)-Delchiaro (Fernando)house	1469 13TH ST	1877-78 rem 1890s ff	19c vern/Ital cottag
Cc/C	Watkins (Henry)-Garrison (Eugene) house	1472 13TH ST	1896-97 mvd c.1926	Shingle style house
Cc/C	Rodrigues (Manuel) house	1473 13TH ST	1892-93 inc 1877-78	Q.A.cottage,inc.Ital
Ec/R	Shepard house-Evans (Wm.& Phoebe) flats	1609 13TH ST	1876-77 mvd c.1925	Italianate house
C/C	Hoffman (Herman)-Delucchi rental house	1615 13TH ST	1895-96	Queen Anne cottage
Ec/R	Moore (Robert J.) house	1616 13TH ST	1887-88 (altered)	Queen Anne/Ital.cotg
Ec/R	Unknown	1620 13TH ST	1880s? mvd 1944	Stick cottage
Dc/C	Bignami (Frank)-Delucchi(Benedetto)house	1624 13TH ST	1888-89	Queen Anne house
Dc/C	Clift(Orso) rental/Ghiglione(John) house	1625 13TH ST	1887-88	Stick/Q.A. cottage
Dc/C	Delucchi (Louis) house	1626 13TH ST	1888-89	Ital't/Stick cottage
Cc/C	Nelson (Geo)-Ghilardi (Louis) house	1629 13TH ST	1887-88	Stick/Q.A. cottage
Ec/R	Boscacci (Pietro) rental house	1630 13TH ST	1888-89 rem 1936	Ital.cottage R Medit
Cc/C	Clift (Osro) rental-McGrath (Thos) house	1635 13TH ST	1887-88	Stick cottage
Dd/P	Jacobs Bakery	1636 13TH ST	1946	Early 20c commercial
Ec/R	Noone (Martin) rental house	1637 13TH ST	1895 (altered)	Queen Anne house
Cc/C	Boyenval (Armand) double house	1664 13TH ST	1889-90	Queen Anne duplex

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Cc/C	Lavery (Robert) house	1669 13TH ST	1902 inc 1884?	Queen Anne house
Dc/C	Sweeney (John) house	1673 13TH ST	1899 rem 1931	Colonial Rev.cottage
B-b-/C	Cushing (Chas.S)-Barnum (Charles) house	1681 13TH ST	1880-81	Ital.falsefrt.cottag
Dc/C	Wurts (Myron) spec. house	1689 13TH ST	1912	Bungalow
Cc/C	Putzar (Louis)-Lenihan (Wm.) house	1714 13TH ST	1873-74 add 1880s?	19c vern/Ital.cottag
Cc/C	Sieburg (David) rental house	1718 13TH ST	1901-02 inc pre-1877	Queen Anne cottage
Ec/R	Leydecker (Wm)rental-McCarthy (Dan)house	1724 13TH ST	1876-77 (altered)	Italianate cottage
Dd/P	Waggener (Ida)-Harris (Eugene) house	1730 13TH ST	1925	Bungalow
*/N	None	1734 13TH ST	1973-75	20c commercial
Cc/C	Kinney (Robert S.)-Cowan (John) house	1737 13TH ST	1874 c.	19c vernac. cottage
Cb-/C	Schoenfelder (John)rental-Milat(Bare)hse	1738 13TH ST	1890s c inc 1870-71?	Q.A. house/inc.Ital.
Cb-/C	Webster (J.V.)-Schoenfelder (John) house	1742 13TH ST	1890s c inc 1871	Q.A. house/inc.Ital.
Dd/N	Sandelin (Elias Fred) rental house	1410 14TH ST	1915-34 inc 1894-95?	Medit.cottage,ex QA?
Cc/C	Sandelin (Elias Fred) house	1414 14TH ST	1894-95	Queen Anne cottage
Cc/C	Sandelin (Elias Fred) rental house	1416 14TH ST	1896-97	Queen Anne cottage
Cc/C	Sandelin (Elias Fred) rental house	1420 14TH ST	1900-01	Queen Anne cottage
Dc/C	Freese (Johanna & Frederick) house	1428 14TH ST	1891-92	Queen Anne cottage
Cc/C	Fitzgerald(Geo) st.& fl.-Hirota(M) clnrs	1434 14TH ST	1892-93	Stick store & flats
Cc/C	Boscacci (Pietro) rental house	1436 14TH ST	1906	Colonial Rev.cottage
Cc/C	Schulze (Fred)rental-Gernreich(Eliz)hous	1440 14TH ST	1893-94	Queen Anne cottage
Cc/C	Schirmer (August H.T.) house	1444 14TH ST	1897-98	QA/Colonial cottage
Ed/N	Catera (Luca) store & restaurant	1448 14TH ST	1938 mvd/rem 1955	Streamlined commercl
B-b+/C	14th St.RR/Consol.Pied.Cable Co. carbarn	1450 14TH ST	1879-80 add/R 1917	19-20c util/industry
Dd/N	Mission Tavern	1451 14TH ST	1933	Mediterranean comm'l
Db-/C	Maggio (Elena/Fortunato) rental cottage	1463 14TH ST	1870s c mvd 1908-10	19c vern./Ital.cottg
Db-/C	Maggio (Elena/Fortunato) rental cottage	1465 14TH ST	1870s c mvd 1908-10	19c vern./Ital.cottg
Ec/R	Mordhorst Meat Mkt.-Roosevelt Meat Mkt.	1467 14TH ST	1894-96 rem 1912-30	Early 20c commercial
Dc/P	Gray (J.E.) store-Cencini (Italo) winery	1473 14TH ST	1925 ?	Early 20c commercial
Cc/C	Flaherty (John)-Soares (Jose) house	1477 14TH ST	1878-79 add 1890s	Ital. cottage R Q.A.
Ed/N	Peralta Theater, Clark (Wallace)store/th	1488 14TH ST	1914-15 inc carbarn?	Mission Rev.comm'l R
*/N	Unknown	1606 14TH ST	1965	Late 20c util./comml
*/N	Unknown	1607 14TH ST	1951 rem	20c commercial
Cc/C	Brown (Adela)-Marinko (Peter) house	1610 14TH ST	1908-09	Colonial Rev.cottage
Dc/C	Taramasso (Francisco) house	1614 14TH ST	1915-16	Colonial Rev.cottage
Cc/C	Newcum (Erastus) flats	1619 14TH ST	1906-07	Colonial Rev. flats
Cb-/C	Walsh (William) flats	1620 14TH ST	1905	Colonial Rev. flats
Cc/C	Delucchi (Benedetto) rental house	1625 14TH ST	1901-02	Queen Anne cottage
B-b-/C	Allen (Benj.)-Wentworth (Ira M.) house	1626 14TH ST	1877-78	Italianate house
Dc/P	Steward (Geo.)-Acty (John M.) house	1629 14TH ST	1930 inc 1907 ?	Bungalow
Cc/C	Geary (Thos/Bridget)-Moresi(John B)house	1631 14TH ST	1892-93	Queen Anne house
Cc/C	Losee (Albert)-Radovan (Frank G.) house	1632 14TH ST	1910	Colonial Rev.cottage
Cc/C	Johnson (S.August)-Trucco (Frank) house	1637 14TH ST	1888-89	Queen Anne cottage
C/P	Delucchi (Amiel) house	1638 14TH ST	1922	Crafts/Prairie cottg
Dc/C	Walsh (William)-Milano (Giacinto) house	1644 14TH ST	1888-89	Italianate house
Ec/R	Sorensen (Peter)-Fugazi (Bert) house	1646 14TH ST	1886-87 (altered)	Italianate house R
Ec/R	Unknown	1650 14TH ST	1890s? mvd & R 1943	Queen Anne house R
Cb-/C	Koenig (Ferdinand) store & flat	1651 14TH ST	1886-87	Stick commercial
Ec/R	Koenig (Ferdinand) rental house	1657 14TH ST	1889-90 add + rem	Queen Anne house
Ec/R	Koenig (Ferdinand) rental house	1659 14TH ST	1889-90 (altered)	Queen Anne house
Dc/C	Bagge (Christian)-Hahn (Henry) house	1660 14TH ST	1887-88	Queen Anne cottage

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Cc/C	Koenig (Ferdinand) rental house	1661 14TH ST	1889-90	Queen Anne house
Dc/C	Sieburg(David) rental-Muldowney(B) house	1662 14TH ST	1885-86	Stick cottage
Cc/C	Koenig (Ferdinand) rental house	1663 14TH ST	1885-86	Stick cottage
Cc/C	Sieburg (David)-Souza (Antonio) house	1666 14TH ST	1886-87	Stick/vernac.house
Ec/R	McHarg (Bridget)-Cerruti (Benj.) house	1412 15TH ST	1876-77 R 1900s ff	Italianate cottage
Ec/R	Allen (Thomas)-Povic (James) house	1414 15TH ST	1870s c mv 1888/fire	19c vern./Ital house
Ec/R	Grush (Henry) house	1415 15TH ST	1883-84 (altered)	Ital./vernac.? house
C/C	Gamp (Camille)-Tissot (Gustave) flats	1417 15TH ST	1904	Colonial Rev. flats
Ec/R	Allen (Thomas)-Phillips (Robert) duplex	1422 15TH ST	1878-79 store 1947	19c vernac. duplex
Cc/C	Johnson (James C.)-Gamp (Camille) house	1423 15TH ST	1876-77	Ital./19c vern.cottg
Cb-/C	Halsted(Jas/Kate) rent-Brattesani (Joe)h	1426 15TH ST	1888-89	Stick/QA house
Dc/C	Wilbur(Wm)-Cummings(Wm)-Lockett(R) house	1427 15TH ST	1883-84 inc 1876-77?	Italianate cottage
Cb-/C	Halsted (Jas/Kate) rent-Drew(Jos.) house	1430 15TH ST	1888-89	Stick/QA house
Cb-/C	Halsted(Jas/Kate)-Bridges(Jas.M)rent hou	1434 15TH ST	1888-89	Stick/QA house
Ec/R	Gilfeather (James)-Moon (James) house	1438 15TH ST	1876-77 rem 1936	Ital.cottg R as Medt
Dc/C	Nissen (Jens P.)-Jones (P. & J.) house	1611 15TH ST	1903-04	Colonial Rev. house
Dc/C	Nissen (Jens)-Peterson (Hans) house	1612 15TH ST	1877-78	19c. vernac. cottage
Dc/C	Ratto (Peter/Chas)-Durning (Ellen) house	1616 15TH ST	1912-15 inc 1877-78	Colonial Rev. flats
Ec/R	Kofod (John)-Stone (Horace)-Ratto house	1620 15TH ST	1877-78 R post-1951?	Ital. cottg R Medit.
Ec/R	Stephens (Samuel)-Delucchi (Frank)rental	1624 15TH ST	1906-07 1890s mvd?	Queen Anne cottage
Dc/C	Rex (Augusta)-Tissot (Gustave) house	1625 15TH ST	1883-84 R 1901-02?	Queen Anne house
Dc/C	Freels (Diedrich) house	1627 15TH ST	1883-84	Stick cottage
Dc/C	Stephens (Samuel) house	1628 15TH ST	1897-98 m 1/2 lot'06	Queen Anne cottage
Cc/C	Hopken (Albert) rental house	1665 15TH ST	1891-92	Queen Anne cottage
Cc/C	Hopken (Albert) rental house	1669 15TH ST	1891-92	Queen Anne cottage
Cc/C	McGuire(Wm.&Ed)-Cordeiro-Reis(John)house	1673 15TH ST	1894-95 store 1948	QA cottage & store
Dd/P	Caviglia (Tony) house	1408 16TH ST	1944 inc c.1871	Colonial Rev.cottage
Dc/C	McCarthy (Charles)-Alvers (Eustace)house	1414 16TH ST	1906	Colonial Rev.cottage
Cb-/C	Sullivan (Cornelius)-Figueiredo(Ben)rent	1421 16TH ST	1888-89	Queen Anne cottage
Ec/P	Silva (Frank) house	1422 16TH ST	1930 inc 1870s?	Colonial Rev.cottage
Cb-/C	Sullivan (Cornelius)-Figueiredo(Ben)hous	1425 16TH ST	1888-89	Queen Anne cottage
Cc/C	O'Dea (Michael) house	1426 16TH ST	1905-06	Colonial Rev.cottage
Cc/C	Tietge (Ernst) house-Mentz (Frdk.)rental	1429 16TH ST	1875-76 rem 1892-93	19c vern.cotg.R asQA
Cc/C	Pratt (H.G.)-Kentra (Anton) house	1432 16TH ST	1881-82	Stick house
*/N	Unknown	1433 16TH ST	1984	Manufactured house
Ec/R	Gotchett(Jn)-Templeton-Miloslavich house	1440 16TH ST	1874 rem 1943-48	Italianate house
Cc/C	Shay (John)-Wilkes (Wm.) rental house	1444 16TH ST	1884-85	Stick cottage
Dc/C	Will (Theo.) meat market	1451 16TH ST	1870s? mvd/R 1918-9	Italianate hse/com'l
B-b-/C	Hubley (Solomon)-Brandes (Johanna) house	1409 17TH ST	1892-93 inc 1877?	Queen Anne house
Cc/C	Musselman(Dav)-Carrington-Vallerga house	1415 17TH ST	1878-79	Italianate house
Dc/C	Christofferson(Anton)house-Ratto(A) rent	1416 17TH ST	1886-88	Stick cottage
Ec/R	Dunn (Nellie) house-Lund (John) rental	1420 17TH ST	1884-85 (altered)	19c vern./Ital.cottg
Cc/C	Hynes (Patrick/Wm)-Sagone (Ermen.) house	1421 17TH ST	1882	Ital./Stick cottage
Cc/C	Wilkens (Herman)-Peters (Charles) house	1427 17TH ST	1906-07	Colonial Rev.cottage
Cc/C	Lehner (Geo) house-Wilkens (John) rental	1433 17TH ST	1878-79	Italianate cottage
*/N	Pacific Rustproof shop building	1436 17TH ST	1959-60	Mid 20c industrial
Dc/C	Wilkens (John/Wm./Anna) rental house	1437 17TH ST	1877-78	Italianate cottage
Dc/C	Canepa (David) house	1442 17TH ST	1870s c mvd 1928	Italianate cottage

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CALIFORNIA INVENTORY
OF
HISTORIC RESOURCES

March 1976

Edmund G. Brown Jr.
Governor
State of California

Claire T. Dedrick
Secretary for Resources

Herbert Rhodes
Director
Department of Parks and Recreation

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
P.O. Box 2390 Sacramento 95811

APPENDIX
ALPHABETICAL LISTING
OF
HISTORICAL SITES BY COUNTY

ALAMEDA COUNTY - 221 SITES (ALSO 344 ARCHAEOLOGICAL SITES)**

ALAMEDA COUNTY'S THIRD SEAT OF GOVERNMENT. 1925 E 14TH ST., ALAMEDA. *THEME: GOVERNMENT.*

ALAMEDA COUNTY COURTHOUSE. DAVIS STREET AT CLARKE STREET, SAN LEANDRO. *THEME: GOVERNMENT.*

ALAMEDA COUNTY GAZETTE NEWSPAPER. NORTHEAST CORNER OF DAVIS AND CLARKE STREETS, SAN LEANDRO. *THEME: ECONOMIC/INDUSTRIAL.*

ALAMEDA COUNTY'S FIRST SCHOOL SITE. REDWOOD ROAD BETWEEN JAMES AND ALMA, CASTRO VALLEY. *THEME: SOCIAL/EDUCATION.*

ALEMEDA COUNTY (FIRST) COURTHOUSE SITE. ALVARADO. *THEME: GOVERNMENT.*

ALEMEDA TERMINAL OF THE FIRST TRANSCONTINENTAL RAILROAD. FOOT OF PACIFIC AVENUE, ALEMEDA. *THEME: ECONOMIC/INDUSTRIAL.*

ALTAMONT LIBRARY. ALTAMONT PASS RD. 580, ALTAMONT. *THEME: RELIGION.*

ALVARADO BUSINESS BUILDINGS. UNION CITY. *THEME: EXPLORATION/SETTLEMENT.*

ALVARADO CITY/UNION CITY. ALVARADO/UNION CITY. *THEME: EXPLORATION/SETTLEMENT.*

ALVISO,(AUGUSTIN) ADOBE SITE. NEWARK BOULEVARD NEAR JARVIS AVENUE, UNION CITY. *THEME: EXPLORATION/SETTLEMENT.*

ALVISO,(FRANCISCO SOLANO) ADOBE. MEADOWLARK DAIRY FARM, PLEASANTON VALLEY, *THEME: EXPLORATION/SETTLEMENT.*

AMADOR,(JOSE MARIA) ADOBE SITE. SAN RAMON ROAD AND DUBLIN BOULEVARD, DUBLIN. *THEME: EXPLORATION/SETTLEMENT.*

ANNA HEAD SCHOOL. HASTE AND BOWDITCH STREETS, BERKELEY. *THEME: ARCHITECTURE.*

BACON HALL SITE. UNIVERSITY OF CALIFORNIA, BERKELEY. *THEME: SOCIAL/EDUCATION.*

BAY OR LAUREL TREE. 9 LEWELLING BLVD., SAN LORENZO. *THEME: EXPLORATION/SETTLEMENT.*

BELROSE AVENUE RESIDENCE. 2700 BELROSE AVENUE, BERKELEY. *THEME: ARCHITECTURE.*

BENVENUE AVENUE RESIDENCE. 6487 BENVENUE AVENUE, BERKELEY. *THEME: ARCHITECTURE.*

BERKELEY CITY HALL. 2134 GROVE ST., BERKELEY. *THEME: ARCHITECTURE.*

BERKELEY'S FIRST ADOBE SITE. 1304 ALBINA STREET, BERKELEY. *THEME: EXPLORATION/SETTLEMENT.*

BERNAL,(AGUSTIN) ADOBE. FOOTHILL ROAD, LIVERMORE. *THEME: EXPLORATION/SETTLEMENT.* p 125

BERNAL,(PABLO) ADOBE SITE. ARROYO VALLE, PLEASANTON. *THEME: EXPLORATION/SETTLEMENT.*

BEST HOME. 1315 CLARKE STREET, SAN LEANDRO. *THEME: ECONOMIC/INDUSTRIAL.*

BEST TRACTOR COMPANY. 800 DAVIS STREET, SAN LEANDRO. *THEME: ECONOMIC/INDUSTRIAL.*

BLAISDELL,(FORMER GOV. OF NEVADA) HOME. 40572 MISSION BLVD., FREMONT. *THEME: ARCHITECTURE.*

BORAX WORKS. PACIFIC NEAR THIRD, ALAMEDA. *THEME: ECONOMIC/INDUSTRIAL.*

BROOKLYN (OLD COURTHOUSE). 1952 EAST FOURTEENTH STREET, OAKLAND. *THEME: GOVERNMENT.*

BROWN'S STAGE STATION. PATTERSON PASS ROAD EAST OF LIVERMORE, *THEME: GOVERNMENT.* p. 170

BUENA VISTA WAY RESIDENCE. 2701 BUENA VISTA WAY, BERKELEY. *THEME: ARCHITECTURE.*

BUENA VISTA WAY RESIDENCE. 2733 BUENA VISTA WAY, BERKELEY. *THEME: ARCHITECTURE.*

BUENA VISTA WAY RESIDENCE. 2704 BUENA VISTA WAY, BERKELEY. *THEME: ARCHITECTURE.*

BUENA VISTA WAY, RESIDENCE. 2753 BUENA VISTA WAY, BERKELEY. *THEME: ARCHITECTURE.*

BUENA VISTA WAY RESIDENCE. 2798 BUENA VISTA WAY, BERKELEY. *THEME: ARCHITECTURE.*

***CALIFORNIA NURSERY COMPANY GUEST HOUSE (VALLEJO ADOBE).** NILES BLVD. AT NURSERY AVE., FREMONT. *THEME: ARCHITECTURE.*

CALVARY CEMETERY. END OF VAN AVENUE, SAN LEANDRO. *THEME: EXPLORATION/SETTLEMENT.*

***CAMERON-STANFORD HOME.** 1426 LAKESIDE DR., OAKLAND. *THEME: ARCHITECTURE.*

CAMINO OF RANCHO SAN ANTONIO. SAN JOSE VICINITY. *THEME: EXPLORATION/SETTLEMENT.*

CAMPANILE. UNIVERSITY OF CALIF., BERKELEY. *THEME: SOCIAL/EDUCATION.*

CASA PERALTA. 384 WEST ESTUDILLO, SAN LEANDRO. *THEME: EXPLORATION/SETTLEMENT.*

CASTRO PLAZA. MISSION BLVD. BETWEEN C AND D STS., HAYWARD. *THEME: ECONOMIC/INDUSTRIAL.*

CASTRO VALLEY EXCHANGE. GROVE WAY AND REDWOOD RD., CASTRO VALLEY. *THEME: ECONOMIC/INDUSTRIAL.*

CASTRO VALLEY'S FIRST PUBLIC SCHOOL SITE. REDWOOD ROAD, BETWEEN JAMES AND ALMA, CASTRO VALLEY. *THEME: SOCIAL/EDUCATION.*

CASTRO,(GUILLERMO) RESIDENCE. 22738 MISSION BLVD., HAYWARD. *THEME: EXPLORATION/SETTLEMENT.*

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*NATIONAL REGISTER SITE

**LOCATIONS AND MANY DESCRIPTIONS OF ARCHAEOLOGICAL SITES ARE NOT GIVEN TO PROTECT THESE RESOURCES. COUNTY ARCHAEOLOGICAL SITE COUNTS BASED ON THE RECORDS ON FILE WITH CULTURAL RESOURCES SECTION OF THE CALIFORNIA DEPARTMENT OF PARKS AND RECREATION.

CATHOLIC MASS SITE. LAKESHORE AVENUE, OAKLAND. *THEME: RELIGION.*

CENTERVILLE PRESBYTERIAN CHURCH. FREMONT BLVD. AND BONDI WAY, FREMONT. *THEME: RELIGION.*

CHABOT STREET RESIDENCE. 7133 CHABOT AT ROBLE ROAD, BERKELEY. *THEME: ARCHITECTURE.*

CHADBOURN CARRIAGE HOUSE. 39169 FREMONT BLVD., FREMONT. *THEME: ARCHITECTURE.*

CHASE,(MOSES) HOUSE SITE. 404 EAST EIGHT STREET, OAKLAND. *THEME: EXPLORATION/SETTLEMENT.*

CHURCH OF ST. JAMES THE APOSTLE. 1540 12TH AVE., OAKLAND. *THEME: RELIGION.*

CITY HALL. BERKELEY. *THEME: GOVERNMENT.*

CLAREMONT HOTEL. ASHBY AND CLAREMONT AVENUES, BERKELEY. *THEME: ARCHITECTURE.*

COHEN,(A.A.) HOTEL SITE. HIDDEN VALLEY RANCH END OF STANFORD AVENUE, FREMONT. *THEME: SOCIAL/EDUCATION.*

***COHEN,(ALFRED H.) RESIDENCE.** 1440 29TH AVE., FRUITVALE. *THEME: ARCHITECTURE.*

COLLEGE OF CALIFORNIA SITE. 14TH AND FRANKLIN STREETS, OAKLAND. *THEME: SOCIAL/EDUCATION.*

CONCANNON VINEYARD. 2 MILES S.E. OF LIVERMORE, *THEME: ECONOMIC/INDUSTRIAL.*

CRESTA BLANCA WINERY. LIVERMORE VALLEY, *THEME: ECONOMIC/INDUSTRIAL.* p.78

DANIA HALL. FOOTHILL BLVD., HAYWARD. *THEME: SOCIAL/EDUCATION.*

DE FREMERY PARK. 18TH AND ADELINE ST., OAKLAND. *THEME: ARCHITECTURE.*

DERBY STREET RESIDENCE. 2924 DERBY STREET, BERKELEY. *THEME: ARCHITECTURE.*

DERBY STREET, RESIDENCES. 2814 AND 2816 DERBY STREET, BERKELEY. *THEME: ARCHITECTURE.*

DIBBLE AND SEMRAU STUDIO. 1772 LEROY AVENUE, BERKELEY. *THEME: ARCHITECTURE.*

DRAWBRIDGE (GHOST TOWN). CUSHING RD., FREMONT. *THEME: ECONOMIC/INDUSTRIAL.*

***DUNSMUIR HOUSE.** PERALTA OAKS COURT, OAKLAND. *THEME: ARCHITECTURE.*

DUSTERBERRY,(H.) HOME. CENTRAL AND GLENMORE, FREMONT. *THEME: ARCHITECTURE.*

DWIGHT WAY RESIDENCE. 2727 DWIGHT WAY, BERKELEY. *THEME: ARCHITECTURE.*

DWIGHT WAY RESIDENCE,(KEELER RESIDENCE). 2733 DWIGHT WAY, BERKELEY. *THEME: ARCHITECTURE.*

EDEN APARTMENTS. 1410 B ST., HAYWARD. *THEME: ECONOMIC/INDUSTRIAL.*

ESSANY STUDIO COMPLEX. NILES DIST., FREMONT. *THEME: ARTS/LEISURE.*

ESTUDILLO HOME. 550 WEST ESTUDILLO AVENUE, SAN LEANDRO. *THEME: EXPLORATION/SETTLEMENT.*

ESTUDILLO HOUSE SITE. DAVIS STREET AND WASHINGTON AVENUE, PLEASANTON. *THEME: ARTS/LEISURE.*

ESTUDILLO,(JOAQUIN JOSE) FIRST HOME SITE. SOUTH BANK OF SAN LEANDRO CREEK, NEAR NIMITZ FREEWAY, SAN LEANDRO. *THEME: EXPLORATION/SETTLEMENT.*

ETNA STREET RESIDENCE. 2515 ETNA STREET, BERKELEY. *THEME: ARCHITECTURE.*

EUCLID AVENUE RESIDENCES. EUCLID AVENUE AND BUENA VISTA WAY, BERKELEY. *THEME: ARCHITECTURE.*

FAGES/CRESPI TRAVEL ROUTE. FOOTHILL ROAD, PLEASANTON. *THEME: EXPLORATION/SETTLEMENT.*

FALLON HOUSE. FOOTHILL ROAD, PLEASANTON. *THEME: EXPLORATION/SETTLEMENT.*

FIRST AND LAST CHANCE SALOON(HEINOLD'S). 50 WEBSTER STREET, OAKLAND. *THEME: SOCIAL/EDUCATION.*

FIRST CHURCH OF CHRIST SCIENCE. 2619 DWIGHT WAY, BERKELEY. *THEME: ARCHITECTURE.*

FOUNDERS ROCK. LA LOMA ENTRANCE TO U.C. BERKELEY, BERKELEY. *THEME: SOCIAL/EDUCATION.*

GALINDO HOTEL SITE. 8TH AND FRANKLIN STREET, OAKLAND. *THEME: ECONOMIC/INDUSTRIAL.*

GALINDO-HIGUERA ADOBE. CURTNER RD., FREMONT. *THEME: ARCHITECTURE.*

GALLEGOS ESTATE. 43182 MISSION BLVD., FREMONT. *THEME: ARCHITECTURE.*

GARCIA HOME. CHUMALIA AND HYDE STREETS, SAN LEANDRO. *THEME: ECONOMIC/INDUSTRIAL.*

GLEN AVENUE RESIDENCE. 2204 GLEN AVENUE, BERKELEY. *THEME: ARCHITECTURE.*

GREEK THEATER. GALEY RD., BERKELEY. *THEME: ARTS/LEISURE.*

GREEN,(JOHN) HOME. SAN RAMON ROAD SOUTH OF DUBLIN BOULEVARD, DUBLIN. *THEME: ECONOMIC/INDUSTRIAL.*

GREEN,(JOHN) STORE. SOUTHSIDE OF DUBLIN BOULEVARD WEST OF SAN RAMON ROAD, DUBLIN. *THEME: ECONOMIC/INDUSTRIAL.*

GREENVILLE. FOUR MILES EAST OF LIVERMORE, HWY. 50, *THEME: EXPLORATION/SETTLEMENT.* p 137

GREENWOOD TERRACE, RESIDENCE. 1486 GREENWOOD TERRACE, BERKELEY. *THEME: ARCHITECTURE.*

GREENWOOD TERRACE RESIDENCE. 1459 GREENWOOD TERRACE, BERKELEY. *THEME: ARCHITECTURE.*

HACIENDA DEL POZO DE VERONA. CASTLEWOOD COUNTRY CLUB, NEAR PLEASANTON. *THEME: SOCIAL/EDUCATION.*

HALL OF RECORDS, TEMPORARY. 1417 20TH AVENUE, OAKLAND. *THEME: GOVERNMENT.*

HARRISVILLE. NEAR LIVERMORE, *THEME: ECONOMIC/INDUSTRIAL.* p [illegible]

HARVEY-GRANGER GENERAL STORE. 3940 SMITH ST., UNION CITY-ALVARADO. *THEME: ECONOMIC/INDUSTRIAL.*

HARVEY,(SYLVESTER P.) HOME. 32958 ALVARADO RD., FREMONT. *THEME: ECONOMIC/INDUSTRIAL.*

HAYWARD CARNEGIE LIBRARY SITE. FOOTHILL BLVD. AND B ST., HAYWARD. *THEME: ARCHITECTURE.*

HAYWARD FIRE HOUSE. MISSION BLVD., HAYWARD. *THEME: SOCIAL/EDUCATION.*

HAYWARD GRAMMAR SCHOOL. 21651 THIRD ST., HAYWARD. *THEME: SOCIAL/EDUCATION.*

HAYWARD GRAMMER SCHOOL (EDEN TOWNSHIP) SITE. 1/4 BLOCK ON B ST., FOOTHILL BLVD AND C ST., HAYWARD. *THEME: SOCIAL/EDUCATION.*

HAYWARD HOTEL. A AND MAIN ST., HAYWARD. *THEME: ARTS/LEISURE.*

HAYWARD POST OFFICE. 22701 MAIN ST., HAYWARD. *THEME: GOVERNMENT.*

HAYWARD UNION HIGH SCHOOL. 22300 FOOTHILL BLVD., HAYWARD. *THEME: SOCIAL/EDUCATION.*

HAYWARD'S FIRST CITY HALL. 22938 MISSION BLVD., HAYWARD. *THEME: GOVERNMENT.*

HAYWARD'S FIRST HIGH SCHOOL. 685 A ST., HAYWARD. *THEME: SOCIAL/EDUCATION.*

HAYWARD,(WILLIAM) CAMPSITE. PALOMARES CANYON, HAYWARD. *THEME: EXPLORATION/SETTLEMENT.*

HIGUERA,(ABELARDO) ADOBE. WARM SPRINGS. *THEME: ARCHITECTURE.*

HIGUERA,(FULGENCIO) ADOBE SITE. WARM SPRINGS. *THEME: SOCIAL/EDUCATION.*

HONCHURENKO,(AGAPIUS) HOMESITE. CA. STATE UNIVERSITY, HAYWARD. *THEME: RELIGION.*

HOUSE OF BRONZE. 1076 59TH ST., OAKLAND. *THEME: ECONOMIC/INDUSTRIAL.*

HOWARD,(JOHN GALEN) RESIDENCE. 1401 LEROY AVENUE, BERKELEY. *THEME: ARCHITECTURE.*

I.D.E.S. HALL. 1105 C ST.-FOOTHILL BLVD., HAYWARD. *THEME: SOCIAL/EDUCATION.*

I.O.O.F. BUILDING, LIVERMORE (CITY OF). 2160 FIRST ST., LIVERMORE. *THEME: SOCIAL/EDUCATION.*

I.O.O.F. HALL. 952 B ST., HAYWARD. *THEME: SOCIAL/EDUCATION.*

JENSEN HOME. 6650 JENSEN RD., HAYWARD. *THEME: ARCHITECTURE.*

JESSENS OR HAYWARDS LANDING. HAYWARD SHORELINE, HAYWARD. *THEME: ECONOMIC/INDUSTRIAL.*

JEWISH SYNAGOGUE. 59 CHUMALIA STREET, SAN LEANDRO. *THEME: RELIGION.*

KOTTINGER ADOBE BARN. 218 RAY ST., PLEASANTON. *THEME: GOVERNMENT.*

KROBER HOME. 1325 ARCH, BERKELEY. *THEME: ARCHITECTURE.*

LA LOMA AVENUE RESIDENCE. 1705 LA LOMA AVENUE, BERKELEY. *THEME: ARCHITECTURE.*

LA LOMA AVENUE RESIDENCE. 1515 LA LOMÁ AVENUE, BERKELEY. *THEME: ARCHITECTURE.*

LADDSVILLE SITE. NORTH OF THE S.P. TRACKS AND EAST OF JUNCTION AVENUE, LIVERMORE. *THEME: ECONOMIC/INDUSTRIAL.*

LAKE CHABOT. UPPER LAKE CHABOT ROAD, SAN LEANDRO. *THEME: ECONOMIC/INDUSTRIAL.*

***LAKE MERRITT WILD DUCK REFUGE.** LAKESIDE PK., GRAND AVE., OAKLAND. *THEME: GOVERNMENT.*

LANDING PLACE OF OAKLAND'S FOUNDERS. FOOT OF BROADWAY, OAKLAND. *THEME: EXPLORATION/SETTLEMENT.*

LITTLE BROWN CHURCH. CLARKE STREET NEAR WEST JOAQUIN, SAN LEANDRO. *THEME: RELIGION.*

LIVERMORE MEMORIAL MONUMENT. LIVERMORE ROAD, LIVERMORE. *THEME: EXPLORATION/SETTLEMENT.*

MASONIC HOME AT DECOTO. MISSION BLVD., UNION CITY. *THEME: SOCIAL/EDUCATION.*

MASONIC TEMPLE. PARK ST. AND ALAMEDA AVE., ALAMEDA. *THEME: SOCIAL/EDUCATION.*

MAY SCHOOL. MAY SCHOOL RD., LIVERMORE. *THEME: SOCIAL/EDUCATION.*

MCCONAGHY HOUSE. 18701 HESPERIAN BOULEVARD, SAN LORENZO. *THEME: ARCHITECTURE.*

***MEEK MANSION AND CARRIAGE HOUSE.** 240 HAMPTON ROAD, HAYWARD. *THEME: ARCHITECTURE.*

MENDENHALL,(MARTIN) RANCH. 455 OLIVINA AVE., LIVERMORE. *THEME: ECONOMIC/INDUSTRIAL.*

METHODIST CHURCH. 1600 BANCROFT AVENUE, SAN LEANDRO. *THEME: RELIGION.*

MIDWAY. EAST OF LIVERMORE, *THEME: ECONOMIC/INDUSTRIAL.*

***MILLER,(JOAQUIN) HOUSE (THE ABBEY).** JOAQUIN MILLER RD. AND SANBORN DR., OAKLAND. *THEME: ARTS/LEISURE.*

***MILLER,(JOAQUIN) HOUSE - THE ABBEY.** JOAQUIN MILLER ROAD AND SANBORN DRIVE, OAKLAND. *THEME: ARTS/LEISURE.*

***MILLS HALL.** MILLS COLLEGE, OAKLAND. *THEME: ARCHITECTURE.*

MISSION PASS. HWY. 80 AT MISSION BLVD., FREMONT. *THEME: EXPLORATION/SETTLEMENT.*

MISSION PEAK. MILL CREEK RD., FREMONT. *THEME: EXPLORATION/SETTLEMENT.*

MISSION SAN JOSE OLD TOWN COMPLEX. MISSION AT WASHINGTON BLVDS., FREMONT. *THEME: EXPLORATION/SETTLEMENT.*

MOHR,(CORNELIUS) ESTATE. 24985 HESPERIAN BLVD., HAYWARD. *THEME: ARCHITECTURE.*

MOHR,(HERMAN) HOUSE. 2595 DEPOT RD., HAYWARD. *THEME: ARCHITECTURE.*

MORTAR ROCK PARK. INDIAN ROCK AVE. AND SAN DIEGO RD., BERKELEY. *THEME: ABORIGINAL.*

MOSS HOME. MACARTHUR AND BROADWAY, OAKLAND. *THEME: ARCHITECTURE.*

MOUNTAIN HOUSE. NEAR LIVERMORE, *THEME: EXPLORATION/SETTLEMENT.*

MULFORD CLUBHOUSE. 13075 AURORA DRIVE, SAN LEANDRO. *THEME: ECONOMIC/INDUSTRIAL.*

MULFORD-VICKS LANDING. NEAR SAN LEANDRO MARINA ON MULFORD CANAL, *THEME: ECONOMIC/INDUSTRIAL.*

MURRARY,(MICHAEL) HOUSE. WESTSIDE OF SAN RAMON ROAD JUST SOUTH OF DUBLIN BOULEVARD, DUBLIN. *THEME: EXPLORATION/SETTLEMENT.*

NATION'S FIRST SUCCESSFUL BEET SUGAR FACTORY SITE. ALVARADO. *THEME: ECONOMIC/INDUSTRIAL.*

NEPTUNE BEACH. WEBSTER AT CENTRAL, ALAMEDA. *THEME: ARTS/LEISURE.*

NEWARK RAILROAD COMPLEX. RAILROAD JUNCTION/THORTON AND CENTRAL, NEWARK. *THEME: ECONOMIC/INDUSTRIAL.*

NILES OLD TOWN COMPLEX. NILES BLVD., FREMONT. *THEME: ECONOMIC/INDUSTRIAL.*

OHLONE INDIAN BURIAL GROUNDS. WASHINGTON BLVD., MISSION SAN JOSE. *THEME: ABORIGINAL.*

OLD HOTEL. HESPERIAN BOULEVARD AND SAN LORENZO CREEK BRIDGE, SAN LORENZO. *THEME: EXPLORATION/SETTLEMENT.*

PACHECO,(TOMAS) ADOBE SITE. SOUTH BANK OF ALAMEDA CREEK, WEST SIDE OF DECOTO ROAD, UNION CITY. *THEME: EXPLORATION/SETTLEMENT.*

***PACIFIC PRESS PUBLISHING COMPANY.** 1117 CASTRO ST., OAKLAND. *THEME: ECONOMIC/INDUSTRIAL.*

PALOMARES SCHOOL. PALOMARES RD., PALOMARES CANYON. *THEME: SOCIAL/EDUCATION.*

***PARAMOUNT THEATER.** 2025 BROADWAY, OAKLAND. *THEME: ARCHITECTURE.*

PATTERSON-ARDENWOOD ESTATE. JARVIS-NEWARK BLVDS., FREMONT. *THEME: ECONOMIC/INDUSTRIAL.*

PERALTA HOME. LAFETTE AND LEO AVENUE, SAN LEANDRO. *THEME: ARCHITECTURE.*

PERALTA,(ANTONIO) HOUSE. PAXTON AVENUE BETWEEN COOLIDGE AND 34TH AVENUES, OAKLAND. *THEME: EXPLORATION/SETTLEMENT.*

PERALTA,(HERMANIA) DARGIE HOME. 384 WEST ESTUDILLO AVENUE, SAN LEANDRO. *THEME: EXPLORATION/SETTLEMENT.*

PERALTA,(VICENTE) ADOBE SITE. REAR OF 5521 VICENTE STREET, OAKLAND. *THEME: ARCHITECTURE.*

POW-WOW TREE. 1399 A ST., HAYWARD. *THEME: ABORIGINAL.*

PROSPECT AVENUE RESIDENCE. 2301 PROSPECT AVENUE, BERKELEY. *THEME: ARCHITECTURE.*

RAILROAD DEPOT. 464 7TH AVENUE, OAKLAND. *THEME: ECONOMIC/INDUSTRIAL.*

RANCHO SAN ANTONIO ADOBE. DIAMOND PARK, OAKLAND. *THEME: SOCIAL/EDUCATION.*

RANCHO SAN ANTONIO ADOBE SITE,(ORIGINAL). 2511 - 34TH AVENUE, OAKLAND. *THEME: EXPLORATION/SETTLEMENT.*

RAVENSWOOD SITE. 2647 ARROYO ROAD, LIVERMORE. *THEME: GOVERNMENT.*

RIDGE ROAD AND LEROY AVENUE RESIDENCE. RIDGE ROAD AND LEROY AVENUE, BERKELEY. *THEME: ARCHITECTURE.*

RIDGE ROAD HOUSE. RIDGE ROAD, BERKELEY. *THEME: ARCHITECTURE.*

ROBERTS HOUSE. 524 EAST LEWELLING BOULEVARD, SAN LEANDRO. *THEME: ARCHITECTURE.*

ROBERTS LANDING. GRANT AVENUE, SAN LORENZO. *THEME: ECONOMIC/INDUSTRIAL.*

***ROOM 307, GILMAN HALL.** UNIVERSITY OF CALIFORNIA, BERKELEY CAMPUS, BERKELEY. *THEME: SOCIAL/EDUCATION.*

SAN ANTONIO RANCHO (PERALTA GRANT). SOUTHERN BOUNDARY OF RANCHO, SAN LEANDRO. *THEME: EXPLORATION/SETTLEMENT.*

SAN FRANCISCO WATER TEMPLE. EDGE OF SUNOL, *THEME: ECONOMIC/INDUSTRIAL.* see map last page this section

***SAN JOSE MISSION.** MISSION BLVD. AND WASHINGTON BLVD., FREMONT. *THEME: RELIGION.*

SAN LEANDRO BALL PARK. SAN LEANDRO BOULEVARD AND PARROTT STREET, SAN LEANDRO. *THEME: ARTS/LEISURE.*

SAN LEANDRO OYSTER BEDS. SAN LEANDRO MARINA, SAN LEANDRO. *THEME: ECONOMIC/INDUSTRIAL.*

SAN LEANDRO PLAZA. JUNCTION OF EAST 14TH STREET AND WASHINGTON AVENUE, SAN LEANDRO. *THEME: EXPLORATION/SETTLEMENT.*

SAN LEANDRO REPORTER. DAVIS STREET, SAN LEANDRO. *THEME: ECONOMIC/INDUSTRIAL.*

SAN LEANDRO'S TOWN HALL. 250 DAVIS STREET, SAN LEANDRO. *THEME: GOVERNMENT.*

SAN LORENZO CEMETERY. HESPERIAN BOULEVARD NEAR THE NIMITZ FREEWAY, SAN LEANDRO. *THEME: EXPLORATION/SETTLEMENT.*

SANTA BARBARA ROAD RESIDENCE. 830 SANTA BARBARA ROAD, BERKELEY. *THEME: ARCHITECTURE.*

SATHER GATE. UNIVERSITY OF CALIF., BERKELEY. *THEME: SOCIAL/EDUCATION.*

***SENIOR HALL (GOLDEN BEAR LODGE).** UNIVERSITY OF CALIFORNIA, BERKLEY CAMPUS, BERKELEY. *THEME: SOCIAL/EDUCATION.*

SHATTUCK AVENUE RESIDENCE. 1200 SHATTUCK AVENUE, BERKELEY. *THEME: ARCHITECTURE.*

SHELL MOUND SITE. SHELL MOUND STREET, EMERYVILLE. *THEME: ABORIGINAL.*

SHINN HISTORICAL PARK. 1269 PERALTA BLVD., FREMONT. *THEME: ARCHITECTURE.*

SIGMA PHI FRATERNITY HOUSE,(FORMER THORSEN RESIDENCE). 2307 PIEDMONT AVENUE, BERKELEY. *THEME: ARCHITECTURE.*

SMITH,(HENRY C.) HOUSE SITE. ALVARADO STREET, UNION CITY. *THEME: ARCHITECTURE.*

SOUTH BAY SLOUGHS LANDING. EAST BAY AREA. *THEME: ECONOMIC/INDUSTRIAL.*

SOUTH HALL. UNIVERSITY OF CA., BERKELEY CAMPUS, BERKELEY. *THEME: SOCIAL/EDUCATION.*

SOUTHERN PACIFIC FREIGHT STATION. 801 DAVIS STREET, SAN LEANDRO. *THEME: ECONOMIC/INDUSTRIAL.*

SPANISH CAMP SITE-SAN LORENZO CREEK. MATTOX ROAD ON CREEK, HAYWARD AREA. *THEME: EXPLORATION/SETTLEMENT.*

SPRUCE STREET RESIDENCE. 1104 SPRUCE STREET, BERKELEY. *THEME: ARCHITECTURE.*

ST. JAMES EPISCOPAL CHURCH. 37156 ST. JAMES WAY, FREMONT. *THEME: RELIGION.*

***ST. JOHN'S PRESBYTERIAN CHURCH.** 2640 COLLEGE AVE., BERKELEY. *THEME: RELIGION.*

ST. JOSEPH CATHOLIC CHURCH. MISSION AND WASHINGTON BLVDS., FREMONT. *THEME: RELIGION.*

ST. MARK'S EPISCOPAL CHURCH. 2314 BANCROFT, BERKELEY. *THEME: ARCHITECTURE.*

ST. MARY'S CATHOLIC CHURCH. EIGHTH AND JEFFERSON STREETS, OAKLAND. *THEME: RELIGION.*

ST. MARY'S COLLEGE. BROADWAY AND HAWTHORNE, OAKLAND. *THEME: SOCIAL/EDUCATION.*

ST. RAYMOND'S CHURCH. DUBLIN. *THEME: RELIGION.*

STANDON HALL (CASTLE). 2ND ST. AND WALPERT AVE., HAYWARD. *THEME: ARCHITECTURE.*

STANFORD,(LELAND) WINERY. HOLY NAME ROAD, MISSION SAN JOSE. *THEME: ECONOMIC/INDUSTRIAL.*

STANTON HOUSE. LAKE CHABOT ROAD, CASTRO VALLEY. *THEME: ARCHITECTURE.*

STRAUSS HOUSE. 8 STONEWALL ROAD, BERKELEY. *THEME: ARCHITECTURE.*

SUMMIT SCHOOL. ALTAMONT PASS RD., ALTAMONT. *THEME: SOCIAL/EDUCATION.*

SUNOL,(ANTONIO) ADOBE SITE. NEAR WATER TEMPLE, SUNOL. *THEME: EXPLORATION/SETTLEMENT.*

SURVEYORS TREE. MEMORIAL PARK, MISSION BLVD., HAYWARD. *THEME: EXPLORATION/SETTLEMENT.*

TEMPLE OF THE WINGS. 2800 BUENA VISTA, BERKELEY. *THEME: ARTS/LEISURE.*

TESLA SITE. SOUTHEAST OF LIVERMORE, *THEME: ECONOMIC/ INDUSTRIAL.*

THRASHER PARK. DAVIS STREET NEAR ORCHARD, SAN LEANDRO. *THEME: ECONOMIC/INDUSTRIAL.*

THRASHER,(DR. WILLIAM) HOME. DAVIS STREET AND ORCHARD, SAN LEANDRO. *THEME: ARTS/LEISURE.*

TOWN AND GOWN CLUB. 2401 DWIGHT WAY, BERKELEY. *THEME: ARCHITECTURE.*

TREADWELL HALL. 5212 BROADWAY, OAKLAND. *THEME: SOCIAL/ EDUCATION.*

UNITARIAN CHURCH. DANA STREET AND BANCROFT WAY, BERKELEY. *THEME: ARCHITECTURE.*

VALLEJO FLOUR MILL. NORTH OF NILES CANYON ROAD, NILES. *THEME: ECONOMIC/INDUSTRIAL.*

VALLEJO,(J.J.) HOME SITE. OLIVE HYDE CENTER, FREMONT. *THEME: MILITARY.*

VICTORIAN ROW. 9TH ST. BETWEEN BROADWAY AND WASHINGTON, OAKLAND. *THEME: ARCHITECTURE.*

WARREN,(EARL) HOME. 88 VERNON STREET, OAKLAND. *THEME: GOVERNMENT.*

WASHINGTON COLLEGE HOUSE. WASHINGTON BLVD. AND DRISCOLL RD., FREMONT, *THEME: SOCIAL/EDUCATION.*

WILLEY,(SAMUEL) HOUSE SITE. 2709 DWIGHT WAY, BERKELEY. *THEME: ARCHITECTURE.*

ALPINE COUNTY - 21 SITES (ALSO 105 ARCHAEOLOGICAL SITES)**

CARSON,(KIT) TRAIL. STATE HIGHWAY 88 THROUGH ALPINE COUNTY AND CARSONPASS, *THEME: EXPLORATION/SETTLEMENT.*

CENTERVILLE. *THEME: ECONOMIC/INDUSTRIAL.*

EBBETTS PASS ROUTE. EBBETTS PASS. *THEME: EXPLORATION/ SETTLEMENT.*

FISK HOTEL (HOT SPRINGS HOTEL). MARKLEEVILLE. *THEME: ECONOMIC/INDUSTRIAL.*

GROVER HOT SPRINGS. MARKLEEVILLE. *THEME: ARTS/LEISURE.*

HARASZTHY,(COL. AGOSTON) CHAMPAGNE CELLARS. SILVER MOUNTAIN CITY. *THEME: ECONOMIC/INDUSTRIAL.*

KENNEDY WHEELS. JACKSON GATE ROAD, JACKSON. *THEME: ECONOMIC/INDUSTRIAL.*

KIT CARSON MARKER. 15.1 MILES WEST OF WOODFORDS, *THEME: EXPLORATION/SETTLEMENT.*

MARKLEE'S CABIN SITE. MARKLEEVILLE. *THEME: EXPLORATION/ SETTLEMENT.*

MARKLEEVILLE JAIL. MARKLEEVILLE. *THEME: GOVERNMENT.*

MONITOR (OR LOOPE). 8 MILES NORTH OF SILVER MT., *THEME: ECONOMIC/INDUSTRIAL.*

MOUNT BULLION. JUNCTION OF SILVER MT. AND MONITOR ROADS, *THEME: ECONOMIC/INDUSTRIAL.*

ODD FELLOWS PIONEER MEMORIAL. 14.8 MILES WEST OF WOODFORDS, *THEME: SOCIAL/EDUCATION.*

OLD EMIGRANT ROAD. HWY. 88, NEAR TWIN LAKES, *THEME: EXPLORATION/SETTLEMENT.*

PONY EXPRESS REMOUNT STATION AT WOODFORDS. HIGHWAY 89, *THEME: GOVERNMENT.*

SILVER MOUNTAIN CITY. EBBETS PASS ROAD, S.W. OF MONITOR PASS ROAD JUNCTION, *THEME: ECONOMIC/INDUSTRIAL.*

SILVER MOUNTAIN CITY OLD JAIL. SILVER MOUNTAIN CITY. *THEME: GOVERNMENT.*

SMELTER. EBBETS PASS ROAD, SILVER MOUNTAIN CITY. *THEME: ECONOMIC/INDUSTRIAL.*

WADE HOUSE. WOODFORDS. *THEME: ARCHITECTURE.*

WEBSTER SCHOOL. MARKLEEVILLE. *THEME: SOCIAL/EDUCATION.*

WOODFORDS. *THEME: EXPLORATION/SETTLEMENT.*

AMADOR COUNTY - 43 SITES (ALSO 131 ARCHAEOLOGICAL SITES)**

AMADOR CITY DISTRICT. HWY. 49, 3 MILES NORTH OF SUTTER CREEK, AMADOR CITY. *THEME: EXPLORATION/SETTLEMENT.*

***AMADOR COUNTY HOSPITAL BUILDING.** 810 COURT STREET, JACKSON. *THEME: ARCHITECTURE.*

ARGONAUT AND KENNEDY MINES. JACKSON. *THEME: ECONOMIC/ INDUSTRIAL.*

BIG BAR. HIGHWAY 49 AT AMADOR AND CALAVERAS COUNTY LINE, *THEME: ECONOMIC/INDUSTRIAL.*

BUENA VISTA STONE STORE. LANCHA PLANA-IONE AND JACKSON-STOCKTON ROADS, BUENA VISTA. *THEME: ECONOMIC/INDUSTRIAL.*

BUTTE STORE. 3 MILES SOUTH OF JACKSON, *THEME: ECONOMIC/ INDUSTRIAL.*

CENTRAL EUREKA MINE. SUTTER CREEK. *THEME: ECONOMIC/ INDUSTRIAL.*

CHICHIZOLA STORE. JACKSON GATE ROAD, JACKSON GATE. *THEME: ECONOMIC/INDUSTRIAL.*

CLINTON. 8.6 MILES EAST OF JACKSON, *THEME: EXPLORATION/ SETTLEMENT.*

COMMUNITY METHODIST CHURCH OF IONE. IONE. *THEME: RELIGION.*

D'AGOSTINI WINERY. 8 MILES N.E. OF PLYMOUTH, *THEME: ECONOMIC/INDUSTRIAL.*

61 pages

Oakland Cultural Heritage Survey
Oakland City Planning Department

FINAL PROJECT REPORT

LIST OF MAPS

LIST OF PHOTO PAGES

Prepared by:

OAKLAND CULTURAL HERITAGE SURVEY
OFFICE OF PLANNING AND BUILDING
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510-238-3941

GARY KNECHT, SURVEY COORDINATOR
BETTY MARVIN, PRINCIPAL AUTHOR

The activity that is the subject of this Final Project Report has been financed in part with federal funds from the National Park Service, Department of the Interior, which are administered by the State Office of Historic Preservation, California Department of Parks and Recreation. However the contents do not necessarily reflect the views or policies of the Department of the Interior or the Department of Parks and Recreation, nor does the mention of trade names or commercial products constitute endorsement or recommendation by the Department of the Interior of the Department of Parks and Recreation.

METADATA SHEET

Oakland Cultural Heritage Survey Maps

This grey binder contains 8 oversized maps that could not be copied.

Please contact the Northwest Information Center to arrange access to these maps.

Date: May 5, 2016

NWIC Staff: Sherin Elias

OAKLAND CULTURAL HERITAGE SURVEY

CERTIFIED LOCAL GOVERNMENT PROJECT AGREEMENT #06-93-80101

FINAL PROJECT REPORT

I. OVERVIEW

This report and the accompanying 1,900 Primary Records represent the product of three activities under Oakland's 1993-94 Certified Local Government subgrant. The activities are: (1) a reconnaissance survey in the San Antonio neighborhood, likely to serve as the beginning of a long term comprehensive survey of East Oakland, comparable to the Central District and West Oakland surveys; (2) a reconnaissance-level report on the ongoing citywide survey of the approximately 1500 buildings subject to the City of Oakland's Unreinforced Masonry Building ordinance; and (3) a test of the draft Primary Record form (DPR 523A-Test), pursuant to Oakland's participation as the local government representative on OHP's Inventory Testing Program committee.

The overall objectives of Oakland's 1993-94 Certified Local Government grant project were to work with the community and city staff to identify properties that may warrant preservation efforts, to provide information needed for implementation of the Historic Preservation Element and the Unreinforced Masonry Building Ordinance, to enable the city to propose priorities and procedures for completing reconnaissance and intensive surveys, and to integrate this information into the planning and development processes.

Under Project Agreement #06-93-80101 as amended, the Oakland Cultural Heritage Survey (OCHS) undertook two separate reconnaissance-level surveys, focusing on selected representative areas in the San Antonio neighborhood, and on unreinforced masonry buildings citywide. Both surveys were reported on Form DPR 523A-Test, the new Primary Record developed by the State Office of Historic Preservation. The San Antonio survey was conducted in June through September of 1994, and the reporting portion of the URM survey in April through September 1994, representing a continuation of ongoing research and evaluation of URMs funded by OHP and the city's Seismic Safety Division earlier in 1993-94. Both projects fill important needs in preservation programs in Oakland.

Oakland has had a preservation ordinance and a Landmarks Preservation Advisory Board since 1974, an ongoing Cultural Heritage Survey since 1979, and has been a Certified Local Government since 1986. Oakland Heritage Alliance, a large and respected nonprofit preservation education and advocacy organization, was founded in 1980 by participants in the first year of the Survey. Intensive area surveys of the Central District, Adams Point, West Oakland, and the Fruitvale Neighborhood Commercial Revitalization Area have been carried out. A citywide preliminary (windshield) survey was conducted in 1985-86, was put into a database in 1992-93, and will be completed in 1994-95. A citywide intensive survey of unreinforced masonry buildings will also be completed in

1994-95. A Historic Preservation Element of the Oakland General Plan was adopted in early 1994. Survey ratings will be given official recognition and preservation implications as the Element is implemented. Survey information is already being consulted almost routinely in environmental review, design review, and zoning cases, as well as for projects involving HUD and FEMA funding. Survey ratings are needed by the city's Seismic Safety Division in implementing the unreinforced masonry building ordinance, where City Landmark or National Register listing or a Survey rating of A or B classifies a building as "historic" and triggers special design review treatment and permits use of the State Historical Building Code.

METADATA SHEET

Oakland Cultural Heritage Survey Maps

This grey binder contains 8 oversized maps that could not be copied.

Please contact the Northwest Information Center to arrange access to these maps.

Date: May 5, 2016

NWIC Staff: Sherin Elias

350 total pages.

This Binder includes the below listed reports. Note corresponding HRI forms.

OAKLAND, CITY OF, DEPARTMENT OF CITY PLANNING
1980 OAKLAND CULTURAL HERITAGE SURVEY 1980-1981 FINAL REPORT
(01-4623-003)
**PROPERTIES: 4623-0001->4623-0252; 4623-0048-9999 (0001>0024)
4623-0051-9999 (0001>0004) 4623-0066-9999 (0001>0010)
4623-0068-9999 (0001>0003) 4623-0078-9999 (0001>0003)
4623-0089-9999 (0001>0010) 4623-0090-9999 (0001>0006)
4623-0097-9999 (0001>0005) 4623-0100-9999 (0001>0037)
4623-0102-9999 (0001>0002) 4623-0108-9999 (0001>0002)
4623-0122-9999 (0001>0028) 4623-0124-9999 (0001-0003)
4623-0135-0000 (0001>0021) SEE SURVEY OF SURVEYS FOR
ADDITIONAL INFORMATION

1982 OAKLAND CULTURAL HERITAGE SURVEY 1981-1982 CITY OF OAKLAND
DEPARTMENT OF CITY PLANNING (01-4623-004)
**4623-0001->4623-0252; 4623-0088-9999 (0001>0086)
4623-0137-9999 (0001>0124) 4623-0139-9999 (0001>0006)
SEE SURVEY OF SURVEYS FOR ADDITIONAL INFORMATION

1983 OAKLAND CULTURAL HERITAGE SURVEY 1982-1983 CITY OF OAKLAND
DEPARTMENT OF CITY PLANNING (01-4623-005)
**PROPERTIES: 4623-0001->4623-0252; 4623-0045-9999 (0001>0009)
4623-0046-9999 (0001>0042) 4623-0053-9999 (0001>0098)
4623-0087-9999 (0001>0023) 4623-0093-9999 (0001>0033)
4623-0136-9999 (0001>0030) SEE SURVEY FOR SURVEYS FOR
ADDITIONAL INFORMATION

OAKLAND, CITY OF, PLANNING DEPARTMENT
1985 OAKLAND CULTURAL HERITAGE SURVEY COMPLETION REPORT CONTRACT
(01-4623-006)
**PROPERTIES: 4623-0001->4623-0252; 4623-0047-9999 (0001>0045)
4623-0049-9999 (0002>0004) 4623-0094-9999 (0001>0003)
4623-0095-9999 (0001>0002) 4623-0096-9999 (0001>0002)
4623-0105-9999 (0001>0005) 4623-0106-9999 (0001>0011)
4623-0123-9999 (0001>0002) 4623-0138-9999 (0001>0003)
SEE SURVEY OF SURVEYS FOR ADDITIONAL INFORMATION

1986 OAKLAND CULTURAL HERITAGE SURVEY COMPLETION REPORT CONTRACT
89-01-101 JULY 31, 1986 (01-4623-007)
**PROPERTIES: 4623-0001->4623-0252; 4623-0228-9999 (0001>0003)
4623-0229-9999 (0001>0011) 4623-0230-9999 (0001>0023)
4623-0231-9999 (0001>0005) 4623-0232-9999 (0001>0010)
4623-0246-9999 (0001>0144) 4623-0247-9999 (0001>0005)
4623-0248-9999 (0001>0013) 4623-0249-9999 (0001>0017)
4623-0250-9999 (0001>0004) 4623-0251-9999 (0001>0164)
4623-0252-9999 (0001>0758) SEE SURVEY OF SURVEYS FOR
ADDITIONAL INFORMATION

RECEIVED
APR 25 1984
OHP

FINAL REPORT

for the

Planning Phase of the

CULTURAL HERITAGE SURVEY

Oakland, CA

I. Overview:

The City of Oakland has a venerable history as one of the earliest incorporated cities in the State (1852), as one of the most populous California cities during a critical period in western cultural development (1880-1930), and as a recognized repository of worthwhile cultural features including Victorian and Art Deco/Moderne buildings in great quantity. Some of its oldest neighborhoods retain large blocks of unaltered 19th-century dwellings, while its active downtown area holds an impressive group of ceramic-faced and period revivalist commercial buildings in a good state of repair.

Of particular interest, too, is Oakland's pattern of growth and development through annexation, acquiring in successive "bites," numbers of smaller towns and settlements that contained their own significant histories. These collective backgrounds brought to Oakland a rich heritage of international influence, occupational diversity and stylistic variation.

The uniqueness of its bayside location with a network of creeks, estuaries, and tidal sloughs set against the hills of the coast range provided a dramatic natural setting which has only partially diminished over the past one hundred years with the improvement of the harbor, the undergrounding of water sources, and the building of freeways. An unusual city-center lake (Lake Merritt), improved in the mid-19th Century to accommodate recreation, is a treasure of unparalleled beauty and natural significance. Vistas from the hills ranging widely over the San Francisco Bay and beyond are more spectacular than many California cities can boast. The roster of distinguished citizens (male and female), lesser-known inhabitants, and anonymous settlers together reflect a valuable human diversity and creative spirit that continues unabated today.

In recent years there has been increasing interest on the part of local citizens and their government alike to address preservation concerns.

In 1963 a volume entitled, Design Resources in the Oakland Central District, was produced by the City Planning Department calling attention to the potential of existing cultural resources. In 1967 a proposal was published by them concerning the city's 19th-century "downtown," now called "Victorian Row." Rehabilitation was recommended and is now underway. In 1968 Oakland's Form and Appearance was published by the same office, outlining how the city looked at that time and suggesting approaches for capitalizing on its visual assets. In 1978 a book entitled Rehab Right, surveying Oakland's residential architectural history and providing instructions for stylistically correct and structurally sound rehabilitation of houses, was published by the Oakland City Planning Department. The book won an award of excellence from the National Trust for Historic Preservation.

Other publications have appeared recently through the efforts of the Oakland Museum, the Camron-Stanford House Preservation Association, the Landmarks Preservation Advisory Board, and private individuals. These feature still other aspects of Oakland's historical and visual heritage. All of these have found an interested and appreciative audience.

In 1974, after several years of planning, the City established a Landmarks Preservation Advisory Board to recommend landmark status for selected buildings and features. Their work, based on the suggestions of citizens, continues.

Preservation Park, a special zone containing a number of National Register and City Landmark buildings, is being developed in the shadow of Highway 980, tangential to the City's new City Center complex.

The 1977 opening of the Camron-Stanford House with educational programs and the special events programs of the City-owned historic Dunsmuir House both bring public attention to Oakland's heritage and spread information about it.

But more detailed, comprehensive, and systematic data is needed.

Against this background of developing interest in its unique past and precious present, Oakland undertook a planning project for a cultural resources survey in the spring of 1979. The enthusiasm with which the planning project was received and the diligence with which it has been carried out are chronicled below.

II. Statement of Purpose:

The planning phase of the Survey was undertaken to give the Coordinator and the sponsor an opportunity to study the most effective methods of carrying out a comprehensive historical and architectural inventory. The chance to engage in a serious planning phase was greatly appreciated by all involved--particularly as they addressed themselves to the difficult decision-making tasks set before them. It became apparent that to attempt such planning decisions during the same year that volunteer recruitment, research and field surveying, and the completion of State Forms would be required would be a virtually impossible job--especially considering the size and complexity of Oakland. The committee and the staff have been grateful for the planning opportunity.

The planning phase addressed itself to the following points as outlined in the contractual agreement:

(1) the identification of goals for the Survey.
(2) plans for Survey methodology and management.
(3) Survey scheduling, including phasing.
(4) selection of initial areas to be surveyed.
(5) determination of the types of cultural resources to be surveyed.
(6) establishment of criteria to determine what resources will be recorded and reported to the State Inventory.
(7) identification of documentary resources available to support Survey findings.
(8) development of a training program for community volunteers.
(9) proposal of a graphic mapping system suitable for presentation of resources identified.

A brief description of how these contract requirements have been met will be presented in the following sections of this report.

III. Methods Used:

The planning process for the Oakland Cultural Heritage Survey got underway in October 1979 with recruitment for a Steering Committee as mandated by the contract with the State. An effort was made to attract individuals to the committee who would bring knowledge of local history, knowledge of architectural history, a sensitivity to the visual environment, a familiarity with neighborhood diversity and speciality, and a sense of citizen representation.

We were gratified by the response of the community to our appeal for involvement. Some 250 individual letters were mailed to names on a list compiled from a variety of sources reflecting the above interest. All neighborhood organizations on the roster of such groups maintained by the City Planning Department were notified and urged to send applicants. Letters of application were received from about forty individuals to fill what we had expected would be about a 12-seat committee. The excellence

METADATA SHEET

Oakland Cultural Heritage Survey Maps

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Date: May 5, 2016

NWIC Staff: Sherin Elias

499 total pages

Oakland Cultural Heritage Survey
Oakland City Planning Department

CONTENTS

Includes HRI forms 4623-0252-0001 thru
4623-0252-0348

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JAN 31 1990
OHP

Oakland Point District

Index to District Form

PART I

PART II

[illegible] no.
4664

Historical Background

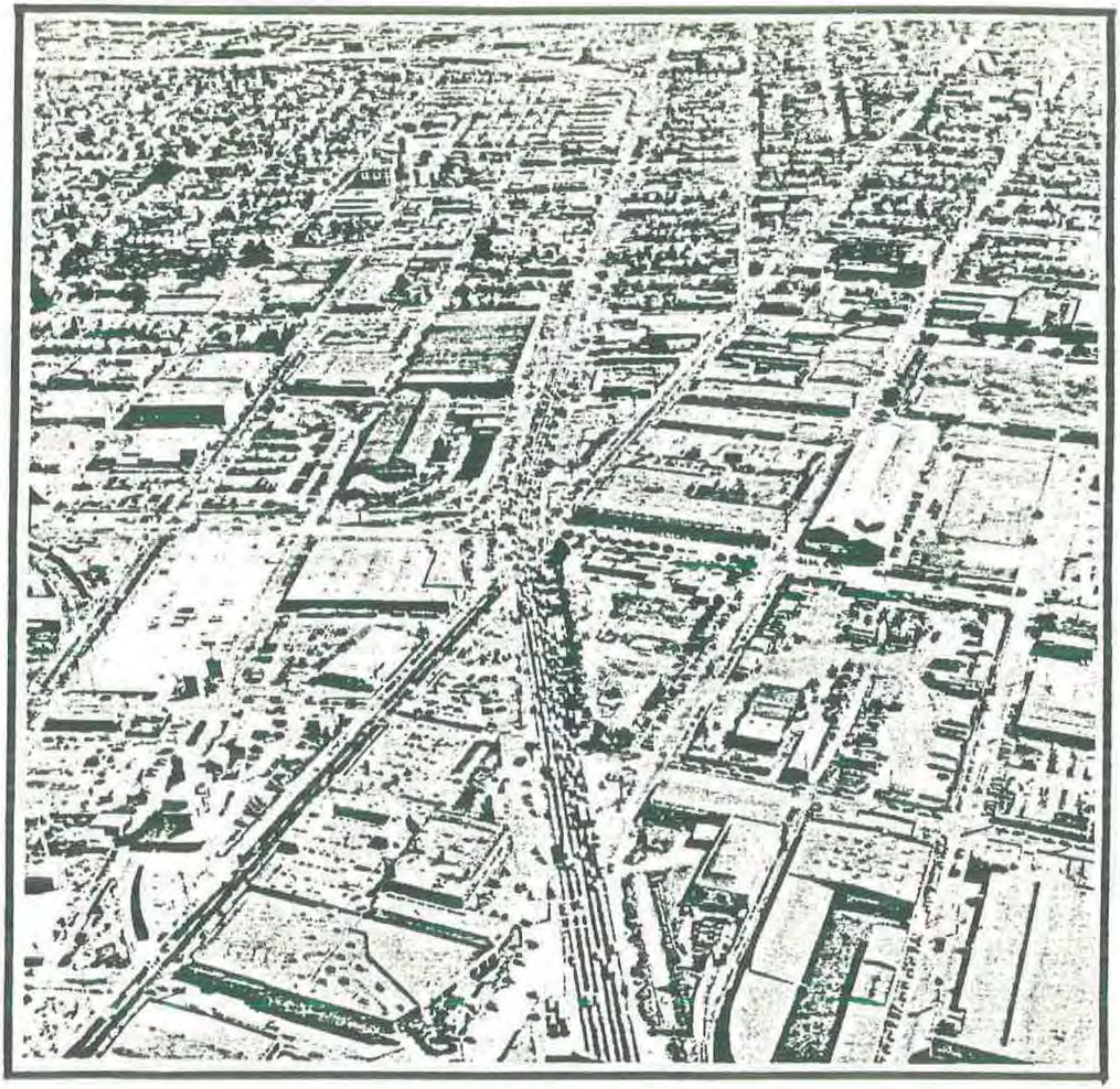
The area of West Oakland that is now called Prescott (after a Civil War era general) was originally referred to as Oakland Point, the Point, and very often Gibbon's Point. Gibbon was a physician who came to Oakland in 1851, became Mayor in 1864 and state senator in 1867. He owned a large amount of property in the Point which he subdivided and sold between 1870 and 1877. Although not included in the original map of Oakland filed in 1853, the Point did appear in one drawn four years later. By 1860, the real estate firm of Osborne & Sessions printed a brochure which included a "Map of the Land on Oakland Point." It offerred for sale seven blocks, plotted in small lots.

From its earliest time, the Point was a hub of transportation. In 1862, a wharf and ferry building was constructed and in the following year daily train service to San Francisco was initiated. The rail connection of Oakland with San Francisco greatly increased land values in the Point. More importantly, when the transcontinental railroad was completed in 1869, the Point was selected as its western terminus. An advertising circular from that period noted:

> . . . this very desirable property is located near the railroad station at the Point. The ground is finely wooded and has a pleasant outlook both towards the hills and the Bay. This portion of the City is rapidly growing in population and substantial imrpovements. Oakland Point participates very largely in the assured growth and brilliant prospects of the City.

HISTORIC PROPERTY SURVEY REPORT

Volume 1 of 4



For the Proposed I-880 Reconstruction Project
In the Cities of Oakland and Emeryville, Alameda County
ALA-880 32.12/34.31; ALA-580 45.99/46.95; ALA-80 1.99/3.39
04195-190271 MEQ85001

September 1990

CALIFORNIA DEPARTMENT OF TRANSPORTATION
District 4
San Francisco

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Volume 1

HISTORIC PROPERTY SURVEY REPORT

Appendix A - ARCHAEOLOGICAL SURVEY REPORT

Appendix D
Department of Parks and Recreation Form 523

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # ______
HRI # ______
Trinomial ______
NRHP Status Code ______
Other Listings ______
Review Code ______ Reviewer ______ Date ______

Page 1 of 1 *Resource Name or # (Assigned by recorder) 816 Pine Street

P1. Other Identifier: Watts (Stephen) House

*P2. Location: ☐ Not for Publication ☒ Unrestricted *a. County Alameda
and (P2b and P2c or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad______ Date T__; R __; Section ; S.B.B.M.

c. Address 816-818 Pine Street City Oakland Zip 94607

d. UTM: (give more than one for large and/or linear resources) Zone _; ____mE/ ____mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) 006-0035-060-00

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
The two-story Queen Anne duplex has a rectangular plan and a medium-pitched gable-on-hip roof with elaborate corbels and decorative stickwork at the cornice. The gable end is clad in fishscale shingles, the balance of the house is clad in wood drop siding. The porch on the main (northwest) façade has a hip roof that shelters the side-by-side main entrances, which are right of center and fitted with metal security screen doors and accessed via a wide set of wood steps. A square wood post supports the porch at the corner; the simple balustrade is wood. The main façade features double-height cutaway bay windows to the left of the entrances. Fenestration consists of replacement hung sash windows and picture windows in rectangular openings with decorative casings. The property is in fair to good condition, with paint flaking away and a patched area on the south elevation but few serious deferred maintenance issues on other parts of the building. Alterations since it was documented in 1987 include installation of porch/stair railing and removal of elaborate scrolled brackets at the cutaway bays and corners of the porch. Window replacement, conversion to a duplex, and installation of metal security doors were performed at an unknown date. Despite these changes, many original decorative features remain and the house is a recognizable as a Queen Anne style residence that retains sufficient integrity to remain eligible as a district contributor.

*P3b. Resource Attributes: (List attributes and codes) HP3. Multiple family property

*P4. Resources Present: ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District is gone now ☒ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (View, date, accession #) Photograph 1: Northwest and southwest elevations, camera facing east, November 22, 2021.

*P6. Date Constructed/Age and Sources:
☒ Historic ☐ Prehistoric ☐ Both
c1888-89, Alameda County Assessor

*P7. Owner and Address:

*P8. Recorded by: (Name, affiliation, address)
Kara Brunzell
Brunzell Historical
1613 B St
Napa, CA 94559

*P9. Date Recorded: November 22, 2021

*P10. Survey Type: (Describe) Intensive

*P11. Report Citation: (Cite survey report and other sources, or enter "none.")

*Attachments: NONE ☒ Location Map ☐ Sketch Map ☐ Continuation Sheet ☐ Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (list) ________

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # ________________________
HRI # ________________________
Trinomial ________________________
NRHP Status Code ______________
Other Listings ________________________
Review Code __________ Reviewer ____________________ Date __________

Page 1 of 1 *Resource Name or # (Assigned by recorder) 830-832 Pine Street

P1. Other Identifier: Svenson-Watts-McGinnis House

*P2. Location: ☐ Not for Publication ☒ Unrestricted *a. County Alameda
and (P2b and P2c or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad______Date T__; R __; Section ; S.B.B.M.

c. Address 830-832 Pine Street City Oakland Zip 94607

d. UTM: (give more than one for large and/or linear resources) Zone _; ____mE/ ____mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) 006-0035-063-00

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
The two-story duplex, has a rectangular plan and a flat roof with minimal eaves. It is clad in wood lap siding. The main entrances on the main (northwest) façade are right of center and fitted with wood paneled doors and accessed via a wide set of wood steps; simple balustrade is wood. Entrances are sheltered by a shed roof porch, which is supported at the corners by square wood posts with a simple wood balustrade. The main façade features double-height cutaway bay windows to the left of the entrances. Fenestration consists of aluminum-sash windows in vertical and horizontal openings. The building is in good condition. It has been heavily altered and stripped of all Italianate decorative features including porch, cornice, and surface ornamentation. Wood-sash windows have been replaced, along with decorative window casings and spandrel panels. Doors and cladding have also been replaced. Originally an Italianate-style house that was a contributor to the historic district in 1990, only its two-story massing and double-height bay window reference its original form. It does not convey its identity as a Victorian-era building and does not retain sufficient integrity to remain a district contributor.

*P3b. Resource Attributes: (List attributes and codes) HP3. Multiple family property

*P4. Resources Present: ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☒ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (View, date, accession #) Photograph 1: Northwest and southwest elevations, camera facing southeast, November 22, 2021.

*P6. Date Constructed/Age and Sources:
☒ Historic ☐ Prehistoric ☐ Both
c1877 (remodel c1990s), Alameda County Assessor

*P7. Owner and Address:

*P8. Recorded by: (Name, affiliation, address)
Kara Brunzell
Brunzell Historical
1613 B St
Napa, CA 94559

*P9. Date Recorded: November 22, 2021

*P10. Survey Type: (Describe) Intensive

*P11. Report Citation: (Cite survey report and other sources, or enter "none.")

*Attachments: NONE ☐ Location Map ☐ Sketch Map ☐ Continuation Sheet ☐ Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (list) ________

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # ________________________
HRI # ________________________
Trinomial ________________________
NRHP Status Code ____________
Other Listings ________________________
Review Code __________ Reviewer ____________________ Date __________

Page 1 of 1 *Resource Name or # (Assigned by recorder) 834 Pine Street

P1. Other Identifier: 834 Pine Street

*P2. Location: ☐ Not for Publication ☒ Unrestricted *a. County Alameda

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad_______Date T__; R __; Section ; S.B.B.M.

c. Address 834 Pine Street City Oakland Zip 94607

d. UTM: (give more than one for large and/or linear resources) Zone _; ____mE/ ____mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) 006-0035-064-00

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The two-story residence has a rectangular plan and a medium-pitched gable roof with boxed eaves. Gable ends are clad in narrow wood siding and the balance of the house is clad in wood drop siding. The main entrance on the main (northwest) façade is sheltered by the second story and sits left of center. It is fitted with a partially glazed paneled wood door and is accessed via a set of wood steps with a simple wood balustrade. The overhang above the door is supported at one corner by a square wood post. Fenestration consists of vinyl windows in vertical openings. There is a single-car garage to the right of the main entrance. The house was not constructed within the historic period of the Oakland Point API and is not a contributor to the historic district. Its basic form, materials, and massing are compatible with contributors to the historic district.

*P3b. Resource Attributes: (List attributes and codes) HP2. Single family property

*P4. Resources Present: ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (View, date, accession #) Photograph 1: Northwest and southwest elevations, camera facing southeast, November 22, 2021.

*P6. Date Constructed/Age and Sources: ☒ Historic ☐ Prehistoric ☐ Both
2020, Field Visit

*P7. Owner and Address:

*P8. Recorded by: (Name, affiliation, address)
Kara Brunzell
Brunzell Historical
1613 B St
Napa, CA 94559

*P9. Date Recorded: November 22, 2021

*P10. Survey Type: (Describe) Intensive

*P11. Report Citation: (Cite survey report and other sources, or enter "none.")

*Attachments: NONE ☐ Location Map ☐ Sketch Map ☐ Continuation Sheet ☐ Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (list) ________

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # ____
HRI # ____
Trinomial ____
NRHP Status Code ____
Other Listings ____
Review Code ____ Reviewer ____ Date ____

Page 1 of 1 *Resource Name or # (Assigned by recorder) 840 Pine Street

P1. Other Identifier: Spikula (Nick) Garage

*P2. Location: ☐ Not for Publication ☒ Unrestricted *a. County Alameda
and (P2b and P2c or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad____ Date T__; R __; Section ; S.B.B.M.

c. Address 840 Pine Street City Oakland Zip 94607

d. UTM: (give more than one for large and/or linear resources) Zone _; ____mE/ ____mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) 006-0035-065-00

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
The one-story storefront/garage building has a rectangular plan and a flat roof with a parapet on the main (northwest) elevation. It is clad in corrugated metal siding. The human-scale entrance is left of center and fitted with a flat wood door and is accessed via a small ramp. The building lacks fenestration. The historic-period utilitarian building lacks decorative elements or features that connect it to the surrounding historic district. Previous documentation found the building did not contribute to the character of the Oakland Point historic district, and it is not a contributor to the Oakland Point District. It is in fair to good condition and has not been substantially altered since it was documented in 1988.

*P3b. Resource Attributes: (List attributes and codes) HP6. 1-3 story commercial property

*P4. Resources Present: ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (View, date, accession #) Photograph 1: Northwest elevation, camera facing east, November 22, 2021.

*P6. Date Constructed/Age and Sources: ☒ Historic ☐ Prehistoric ☐ Both
1921/1945, Oakland Point Cultural Heritage Survey

*P7. Owner and Address:

*P8. Recorded by: (Name, affiliation, address)
Kara Brunzell
Brunzell Historical
1613 B St
Napa, CA 94559

*P9. Date Recorded: November 22, 2021

*P10. Survey Type: (Describe) Intensive

*P11. Report Citation: (Cite survey report and other sources, or enter "none.")

*Attachments: NONE ☐ Location Map ☐ Sketch Map ☐ Continuation Sheet ☐ Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (list) ________

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # ________________
HRI # ________________
Trinomial ________________
NRHP Status Code ________
Other Listings ________________
Review Code ________ Reviewer ________________ Date ________

Page 1 of 1 *Resource Name or # (Assigned by recorder) 844 Pine Street

P1. Other Identifier: Cameron (Oliver P.) House

*P2. Location: ☐ Not for Publication ☒ Unrestricted *a. County Alameda

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad_______Date T__; R __; Section ; S.B.B.M.

c. Address 844 Pine Street City Oakland Zip 94607

d. UTM: (give more than one for large and/or linear resources) Zone _; ____mE/ ____mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) 006-0035-066-00

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
The two-story residence has a rectangular plan and a medium-pitched gable roof with minimal eaves. It is clad in board-and-batten. The porch on the main (northwest) façade has a hip roof that shelters the centered main entrance that is fitted with a partially glazed paneled wood door and is accessed via a set of wood steps with a simple wood balustrade. Fenestration consists of vinyl replacement windows mounted flush in rectangular openings with non-operational shutters on second floor windows. The house is in excellent condition. Its overall form and massing along with research performed for the Oakland Point Cultural Heritage Survey suggest that the original house was constructed in the 1880s and substantially altered in 1924. The 1988 study found that it was compatible with the Oakland Point District but did not qualify as a district contributor. Siding, windows, and window casings have been replaced since 1990, and the porch was also added to the main façade. The property does not retain sufficient integrity to convey its identity as a historic-era house, and does not qualify as a contributor to the historic district.

*P3b. Resource Attributes: (List attributes and codes) HP2. Single family property

*P4. Resources Present: ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (View, date, accession #) Photograph 1: Northwest elevation, camera facing southeast, November 22, 2021.

*P6. Date Constructed/Age and Sources: ☒ Historic ☐ Prehistoric ☐ Both
c1880s/1924, Oakland Point Cultural Heritage Survey

*P7. Owner and Address:

*P8. Recorded by: (Name, affiliation, address)
Kara Brunzell
Brunzell Historical
1613 B St
Napa, CA 94559

*P9. Date Recorded: November 22, 2021

*P10. Survey Type: (Describe) Intensive

*P11. Report Citation: (Cite survey report and other sources, or enter "none.")

*Attachments: NONE ☐ Location Map ☐ Sketch Map ☐ Continuation Sheet ☐ Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (list) ________

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # ____
HRI # ____
Trinomial ____
NRHP Status Code _______________
Other Listings ____
Review Code ___________ Reviewer ______________________________ Date ___________

Page 1 of 1 *Resource Name or # (Assigned by recorder) 850-852 Pine Street

P1. Other Identifier: Norton-Mastrangelo House

*P2. Location: ☐ Not for Publication ☒ Unrestricted *a. County Alameda

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad_______Date T__; R __; Section ; **S.B.B.M.**

c. Address 850-852 Pine Street City Oakland Zip 94607

d. UTM: (give more than one for large and/or linear resources) Zone _; ____mE/ ____mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) 006-0035-001-00

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The two-story Stick Cottage has a modified rectangular plan and a steeply-pitched gabled roof with decorative knee braces and a vent on the gable end. It is clad in wood drop siding. The main entrance on the second story of the main (northwest) façade is left of center and fitted with a metal security screen door. It is accessed via a tall tube-flight set of concrete steps with a solid stucco balustrade. The ground floor, probably originally a basement, has been converted to additional living space. Fenestration consists of vinyl replacement windows. There is an entrance to the ground floor on the southwest elevation below a projecting square window bay, facing Chase Street. The house is clad in horizontal drop siding. A rear addition has several volumes with different roof forms and is clad in vertical groove plywood. The house is in fair condition, with paint falling away and areas of decay at several window casings. The house has not been visibly altered since it was documented in 1987. It is recognizable as a Stick Cottage that retains sufficient integrity to remain eligible as a contributor to the Oakland Point District.

*P3b. Resource Attributes: (List attributes and codes) HP2. Single family property

*P4. Resources Present: ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☒ Element of District ☐ Other (Isolates, etc.)

-

P5b. Description of Photo: (View, date, accession #) Photograph 1: Northwest and southwest elevations, camera facing east, November 22, 2021.

*P6. Date Constructed/Age and Sources: ☒ Historic ☐ Prehistoric ☐ Both
c1881 (addition c1930), Oakland Point Cultural Heritage Survey

*P7. Owner and Address:

*P8. Recorded by: (Name, affiliation, address)
Kara Brunzell
Brunzell Historical
1613 B St
Napa, CA 94559

*P9. Date Recorded: November 22, 2021

*P10. Survey Type: (Describe) Intensive

*P11. Report Citation: (Cite survey report and other sources, or enter "none.")

*Attachments: NONE ☐ Location Map ☐ Sketch Map ☐ Continuation Sheet ☐ Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (list) ________

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # ______
HRI # ______
Trinomial ______
NRHP Status Code ______
Other Listings ______
Review Code ______ Reviewer ______ Date ______

Page 1 of 1 *Resource Name or # (Assigned by recorder) 854-858 Pine Street

P1. Other Identifier: 854-858 Pine Street

*P2. Location: ☐ Not for Publication ☒ Unrestricted *a. County Alameda

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad______Date T__; R __; Section ; S.B.B.M.

c. Address 854-858 Pine Street City Oakland Zip 94607

d. UTM: (give more than one for large and/or linear resources) Zone _; ____mE/ ____mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) 006-0035-009-01

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The two-story residence has a rectangular plan and a medium-pitched gable roof with exposed beams and as octagonal louvered vent on the gable end. It is clad in wood lap siding. An integral porch on the main (northwest) façade shelters the centered entrance on the second story. It is fitted with a paneled wood door and is accessed from the side via a tall set of wood steps with a solid balustrade. A second entrance on the ground floor is sheltered by the steps to the second floor; it is fitted with a wood paneled door. Fenestration consists of vinyl windows in rectangular openings. The house is in good condition. It was not constructed within the historic period and is not a contributor to the Oakland Point District.

*P3b. Resource Attributes: (List attributes and codes) HP2. Single family property

*P4. Resources Present: ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (View, date, accession #) Photograph 1: Northwest and south elevations, camera facing southeast, November 22, 2021.

*P6. Date Constructed/Age and Sources: ☒ Historic ☐ Prehistoric ☐ Both
c1992, Alameda County Assessor

*P7. Owner and Address:

*P8. Recorded by: (Name, affiliation, address)
Kara Brunzell
Brunzell Historical
1613 B St
Napa, CA 94559

*P9. Date Recorded: November 22, 2021

*P10. Survey Type: (Describe) Intensive

*P11. Report Citation: (Cite survey report and other sources, or enter "none.")

*Attachments: NONE ☐ Location Map ☐ Sketch Map ☐ Continuation Sheet ☐ Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (list) ________

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # ______________________________________
HRI # ____
Trinomial ______________________________________
NRHP Status Code ______________
Other Listings ____
Review Code __________ Reviewer ____________________________ Date ___________

Page 1 of 1 *Resource Name or # (Assigned by recorder) 862 Pine Street

P1. Other Identifier: 862 Pine Street

*P2. Location: ☐ Not for Publication ☒ Unrestricted *a. County Alameda
and (P2b and P2c or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad_______Date _T__; R __; **Section** ; **S.B.B.M.**
c. Address 862 Pine Street City Oakland Zip 94607
d. UTM: (give more than one for large and/or linear resources) Zone _; ____mE/ ____mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) 006-0035-007-00

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
The two-story residence has a rectangular plan and a steeply-pitched gable-on-hip roof with narrow eaves. It is clad in wood lap siding. The primary entrance on the main (west) façade is in a recessed volume left of the projecting front gable. It has a shed roof entry porch that shelters the main entrance, which is fitted with a metal security screen door. It is accessed via a set tall of wood steps with a solid balustrade. Fenestration is varied with a picture window on the main façade. It is at the center of a decorative bay window above the garage door on the first floor. The bay window is sheltered by a decorative gable end that is clad in fishscale shingles. The house is in good condition. It was not constructed within the historic period and is not a contributor to the Oakland Point historic district.

*P3b. Resource Attributes: (List attributes and codes) HP2. Single family property

*P4. Resources Present: ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (View, date, accession #) Photograph 1: Northeast and northwest elevations, camera facing southeast, November 23, 2021.

*P6. Date Constructed/Age and Sources: ☒ Historic ☐ Prehistoric ☐ Both
c2007, Alameda County Assessor

*P7. Owner and Address:

*P8. Recorded by: (Name, affiliation, address)
Kara Brunzell
Brunzell Historical
1613 B St
Napa, CA 94559

*P9. Date Recorded: November 23, 2021

*P10. Survey Type: (Describe) Intensive

*P11. Report Citation: (Cite survey report and other sources, or enter "none.")

*Attachments: NONE ☐ Location Map ☐ Sketch Map ☐ Continuation Sheet ☐ Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (list) ________

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # ______
HRI # ______
Trinomial ______
NRHP Status Code ______
Other Listings ______
Review Code ______ Reviewer ______ Date ______

Page 1 of 1 *Resource Name or # (Assigned by recorder) 866 Pine Street

P1. Other Identifier: Way-Hodges House

*P2. Location: ☐ Not for Publication ☒ Unrestricted *a. County Alameda
and (P2b and P2c or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad______ Date T__; R __; Section ; S.B.B.M.
c. Address 866 Pine Street City Oakland Zip 94607
d. UTM: (give more than one for large and/or linear resources) Zone _; ____mE/ ____mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) 006-0035-006-00

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
The two-story Stick Cottage residence has a modified rectangular plan and steeply-pitched gable-on-hip roof with returns and narrow eaves. Decorative elements include elaborate scrolled brackets at the porch and cornice, which has a paneled frieze. It is clad in wood drop siding. The integral porch on the main (northwest) façade shelters the main entrance which is left of center. It is fitted with a metal security screen door and a transom; it is accessed via a tall set of wood steps with a simple wood balustrade. Fenestration consists of replacement windows in tall vertical openings. The main façade features a decorative square bay window with its own gabled roof, ornamental brackets, and spandrel panels. It shelters a secondary entrance on the first floor, which is fitted with a metal security screen door. The house is in excellent condition. It has not been visibly altered since it was documented in 1987. The house is recognizable as a Stick Cottage that retains sufficient integrity to remain eligible as an Oakland Point district contributor.

*P3b. Resource Attributes: (List attributes and codes) HP2. Single family property

*P4. Resources Present: ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☒ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (View, date, accession #) Photograph 1: Northwest and southwest elevations, camera facing east, November 22, 2021.

*P6. Date Constructed/Age and Sources: ☒ Historic ☐ Prehistoric ☐ Both
c1882-83, Alameda County Assessor

*P7. Owner and Address:

*P8. Recorded by: (Name, affiliation, address)
Kara Brunzell
Brunzell Historical
1613 B St
Napa, CA 94559

*P9. Date Recorded: November 22, 2021

*P10. Survey Type: (Describe) Intensive

*P11. Report Citation: (Cite survey report and other sources, or enter "none.")

*Attachments: NONE ☐ Location Map ☐ Sketch Map ☐ Continuation Sheet ☐ Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (list) ________

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # ______________________________________
HRI # ____
Trinomial ______________________________________
NRHP Status Code _______________
Other Listings ____
Review Code __________ Reviewer ____________________________ Date ___________

Page 1 of 1 *Resource Name or # (Assigned by recorder) 870 Pine Street

P1. Other Identifier: 870 Pine Street

*P2. Location: ☐ Not for Publication ☒ Unrestricted *a. County Alameda

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad_______Date T__; R __; Section ; S.B.B.M.

c. Address 870 Pine Street City Oakland Zip 94607

d. UTM: (give more than one for large and/or linear resources) Zone _; ____mE/ ____mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) 006-0035-005-00

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The two-story residence has a rectangular plan and medium-pitched gable roof with exposed rafter tails. It is clad in horizontal wood siding. The main entrance on the main (northwest) façade is recessed and left of center; it is fitted with a metal security screen door and is accessed via a concrete walkway. Fenestration consists of aluminum sliding-sash windows and fixed windows. The main façade features a decorative bay window that shelters the garage door on the first floor. The house is in good condition. It was not constructed within the historic period and is not a contributor to the Oakland Point historic district.

*P3b. Resource Attributes: (List attributes and codes) HP2. Single family property

*P4. Resources Present: ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (View, date, accession #) Photograph 1: West and south elevations, camera facing northeast, November 22, 2021.

*P6. Date Constructed/Age and Sources: ☒ Historic ☐ Prehistoric ☐ Both
c1991, Alameda County Assessor

*P7. Owner and Address:

*P8. Recorded by: (Name, affiliation, address)
Kara Brunzell
Brunzell Historical
1613 B St
Napa, CA 94559

*P9. Date Recorded: November 22, 2021

*P10. Survey Type: (Describe) Intensive

*P11. Report Citation: (Cite survey report and other sources, or enter "none.")

*Attachments: NONE ☐ Location Map ☐ Sketch Map ☐ Continuation Sheet ☐ Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (list) ________

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # ______
HRI # ______
Trinomial ______
NRHP Status Code ______
Other Listings ______
Review Code ______ Reviewer ______ Date ______

Page 1 of 1 *Resource Name or # (Assigned by recorder) 874 Pine Street

P1. Other Identifier: 874 Pine Street

*P2. Location: ☐ Not for Publication ☒ Unrestricted *a. County Alameda

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad______Date T__; R __; Section ; S.B.B.M.

c. Address 874 Pine Street City Oakland Zip 94607

d. UTM: (give more than one for large and/or linear resources) Zone _; ____mE/ ____mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) 006-0035-004-00

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
The two-story residence has a rectangular plan and medium-pitched gable roof with exposed rafter tails. It is clad in horizontal wood siding. The main entrance on the main (northwest) façade is recessed and right of center; it is fitted with a metal security screen door and is accessed via a concrete walkway. Fenestration consists of aluminum sliding-sash windows and fixed windows. The main façade features a decorative bay window that shelters the garage door on the first floor. The house is in good condition. It was not constructed within the historic period and is not a contributor to the Oakland Point historic district.

*P3b. Resource Attributes: (List attributes and codes) HP2. Single family property

*P4. Resources Present: ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (View, date, accession #) Photograph 1: Northwest elevation, camera facing southeast, November 22, 2021.

*P6. Date Constructed/Age and Sources: ☒ Historic ☐ Prehistoric ☐ Both
c1991, Alameda County Assessor

*P7. Owner and Address:

*P8. Recorded by: (Name, affiliation, address)
Kara Brunzell
Brunzell Historical
1613 B St
Napa, CA 94559

*P9. Date Recorded: November 22, 2021

*P10. Survey Type: (Describe) Intensive

*P11. Report Citation: (Cite survey report and other sources, or enter "none.")

*Attachments: NONE ☐ Location Map ☐ Sketch Map ☐ Continuation Sheet ☐ Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (list) ________

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # ______________________________
HRI # ______________________________
Trinomial ______________________________
NRHP Status Code ____________
Other Listings ______________________________
Review Code ________ Reviewer ______________________ Date ________

Page 1 of 1 *Resource Name or # (Assigned by recorder) 882 Pine Street

P1. Other Identifier: Rosander-Borges House

*P2. Location: ☐ Not for Publication ☒ Unrestricted *a. County Alameda

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad______Date T__; R __; Section ; S.B.B.M.

c. Address 882 Pine Street City Oakland Zip 94607

d. UTM: (give more than one for large and/or linear resources) Zone _; ____mE/ ____mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) 006-0035-002-00

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
The one-story Italianate-Stick residence sits atop a raised basement and has a modified rectangular plan and steeply-pitched gable-on-hip roof with narrow eaves. Decorative features include stickwork and dentil molding at the cornice, bay window, and porch. The house is clad in wood drop siding. The partial-width porch on the main (west) façade shelters the main entrance, which is left of center and fitted with a partially glazed paneled wood door. It is accessed via a tall set of wood steps. Square columns with capitals, bases, and elaborate brackets support the porch roof at the corners. Fenestration consists of original double-hung wood-sash windows (which are rare in the neighborhood) in rectangular openings with decorative crowns. The main façade features a decorative slanted bay window to the right of the entrance with decorative cornice, pilasters, and scalloped crowns. The house is in fair condition with areas of decay around windows, and badly needs a coat of paint. It has not been visibly altered since it was documented in 1987. The house is recognizable as an Italianate-Stick residence that retains sufficient integrity to remain eligible as an Oakland Point district contributor.

*P3b. Resource Attributes: (List attributes and codes) HP2. Single family property

*P4. Resources Present: ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☒ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (View, date, accession #) Photograph 1: Northwest elevation, camera facing southeast, November 22, 2021.

*P6. Date Constructed/Age and Sources: ☒ Historic ☐ Prehistoric ☐ Both
c1881-82, Alameda County Assessor

*P7. Owner and Address:

*P8. Recorded by: (Name, affiliation, address)
Kara Brunzell
Brunzell Historical
1613 B St
Napa, CA 94559

*P9. Date Recorded: November 22, 2021

*P10. Survey Type: (Describe) Intensive

*P11. Report Citation: (Cite survey report and other sources, or enter "none.")

*Attachments: NONE ☐ Location Map ☐ Sketch Map ☐ Continuation Sheet ☐ Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (list) ________

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # ____
HRI # ____
Trinomial ____
NRHP Status Code _______________
Other Listings ____
Review Code ___________ Reviewer ______________________________ Date ___________

Page 1 of 1 *Resource Name or # (Assigned by recorder) 886 (884) Pine Street

P1. Other Identifier: Martin (Thomas) House

*P2. Location: ☐ Not for Publication ☒ Unrestricted *a. County Alameda
and (P2b and P2c or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad_______Date T__; R __; Section ; S.B.B.M.
c. Address 886 Pine Street City Oakland Zip 94607
d. UTM: (give more than one for large and/or linear resources) Zone _; ____mE/ ____mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) 006-0035-017-00

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
The one-story Stick Cottage sits atop a raised basement and has a modified rectangular plan and steeply-pitched gable-on-hip roof with narrow eaves. It is clad in wood drop siding with plywood panels at the basement level. The partial-width porch on the main (northwest) façade is shelters the main entrance, which is right of center and fitted with a paneled wood door and transom. It is accessed via a tall two-flight set of wood steps with a wood lattice balustrade. Square wood columns with capitals and bases support the porch roof at the corners. Fenestration consists of double-hung wood-sash windows in rectangular openings and replacement sliding windows. The main and northeast façades feature decorative slanted bay windows with dramatic mansard roofs clad in fishscale shingles and scalloped detail at the eaves. The stair railing has been altered since the house was documented in 1987, but its important decorative features as well as its essential form and massing have been preserved. It is recognizable as a Stick Cottage that retains sufficient integrity to remain eligible as an Oakland Point district contributor.

*P3b. Resource Attributes: (List attributes and codes) HP2. Single family property

*P4. Resources Present: ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☒ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (View, date, accession #) Photograph 1: Northeast and northwest elevations, camera facing southeast, November 22, 2021.

*P6. Date Constructed/Age and Sources: ☒ Historic ☐ Prehistoric ☐ Both
1884-5, Alameda County Assessor

*P7. Owner and Address:

*P8. Recorded by: (Name, affiliation, address)
Kara Brunzell
Brunzell Historical
1613 B St
Napa, CA 94559

*P9. Date Recorded: November 22, 2021

*P10. Survey Type: (Describe) Intensive

*P11. Report Citation: (Cite survey report and other sources, or enter "none.")

*Attachments: NONE ☐ Location Map ☐ Sketch Map ☐ Continuation Sheet ☐ Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (list) ________

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # ______________________________________
HRI # ____
Trinomial ______________________________________
NRHP Status Code _______________
Other Listings ____
Review Code __________ Reviewer _____________________________ Date ___________

Page 1 of 1 *Resource Name or # (Assigned by recorder) 903 Pine Street

P1. Other Identifier: Ellis-Holland House

*P2. Location: ☐ Not for Publication ☒ Unrestricted *a. County Alameda
and (P2b and P2c or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad_______Date T__; R __; **Section** ; **S.B.B.M.**
c. Address 903 Pine Street City Oakland Zip 94607
d. UTM: (give more than one for large and/or linear resources) Zone _; ____mE/ ____mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) 006-0049-023-00

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
The one-story Stick Cottage residence sits atop a raised basement and has a modified rectangular plan and steeply-pitched gable-on-hip roof with decorative stickwork at the gable ends. The house is clad in wood drop siding. The partial-width porch on the main (southeast) façade has a shed roof that shelters the main entrance, which is right of center and fitted with a partially glazed paneled wood replacement door. It is accessed via a wide set of wood steps with a simple wood balustrade. Wood knee braces support the porch roof at the corners. Fenestration consists of double-hung wood-sash windows in rectangular openings. The main and southwest façades features decorative square bay windows with hipped roofs, scrolled brackets, and scalloped detail at the crown. The house is in excellent condition. It has not been visibly altered since it was documented in 1987. The house is recognizable as a Stick Cottage that retains sufficient integrity to remain eligible as an Oakland Point district contributor.

*P3b. Resource Attributes: (List attributes and codes) HP2. Single family property

*P4. Resources Present: ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☒ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (View, date, accession #) Photograph 1: Southeast elevation, camera facing northwest, November 22, 2021.

*P6. Date Constructed/Age and Sources: ☒ Historic ☐ Prehistoric ☐ Both
c1884, Alameda County Assessor

*P7. Owner and Address:

*P8. Recorded by: (Name, affiliation, address)
Kara Brunzell
Brunzell Historical
1613 B St
Napa, CA 94559

*P9. Date Recorded: November 22, 2021

*P10. Survey Type: (Describe) Intensive

*P11. Report Citation: (Cite survey report and other sources, or enter "none.")

*Attachments: NONE ☐ Location Map ☐ Sketch Map ☐ Continuation Sheet ☐ Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (list) ________

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # ______________________________________
HRI # ____
Trinomial ______________________________________
NRHP Status Code ______________
Other Listings ____
Review Code __________ Reviewer ____________________________ Date __________

Page 1 of 1 *Resource Name or # (Assigned by recorder) 1796-1798 8th Street

P1. Other Identifier: Berry-Woodman House

*P2. Location: ☐ Not for Publication ☒ Unrestricted *a. County Sacramento
and (P2b and P2c or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad_______Date T__; R __; **Section** ; **S.B.B.M.**

c. Address 1796-1798 8th Street City Oakland Zip 94607

d. UTM: (give more than one for large and/or linear resources) Zone _; ____mE/ ____mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) 006-0035-057-00

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
The two-story Stick-Gothic residence has an irregular plan and a steeply-pitched gable roof with knee braces, corbels, and decorative cornice. Gable ends are clad in fishscale shingles and have ornamental stickwork. The balance of the house is clad in wood drop siding. The main entrance on the second story of the main (southwest) façade is left of center and fitted with a metal security screen door. It is sheltered by an extraordinarily ornate porch with steeply-pitched gabled roof and accessed via a tall two-flight set of wood steps with a simple wood balustrade. The northwest and southwest elevations feature decorative square bay windows with unusual narrow center windows. Fenestration consists of replacement windows in decorative rectangular openings with decorative molding at the crowns. The house was raised about six feet to allow for a ground-floor garage at some point after 1990. Despite this change, the unusually profuse original decorative features remain and the house is a recognizable as a Stick-Gothic residence that retains sufficient integrity to remain eligible as an Oakland Point district contributor.

*P3b. Resource Attributes: (List attributes and codes) HP2. Single family property

*P4. Resources Present: ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☒ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (View, date, accession #) Photograph 1: Northwest and southwest elevations, camera facing northeast, November 22, 2021.

*P6. Date Constructed/Age and Sources: ☒ Historic ☐ Prehistoric ☐ Both
c1886-87, Alameda County Assessor

*P7. Owner and Address:

*P8. Recorded by: (Name, affiliation, address)
Kara Brunzell
Brunzell Historical
1613 B St
Napa, CA 94559

*P9. Date Recorded: November 22, 2021

*P10. Survey Type: (Describe) Intensive

*P11. Report Citation: (Cite survey report and other sources, or enter "none.")

*Attachments: NONE ☐ Location Map ☐ Sketch Map ☐ Continuation Sheet ☐ Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (list) ________

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # ____________________
HRI # ____________________
Trinomial ____________________
NRHP Status Code ____________
Other Listings ____________________
Review Code __________ Reviewer ____________________ Date __________

Page 1 of 1 *Resource Name or # (Assigned by recorder) 1798 9th Street

P1. Other Identifier: 1798 9th Street

*P2. Location: ☐ Not for Publication ☒ Unrestricted *a. County Sacramento
and (P2b and P2c or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad_______Date T__; R __; Section ; S.B.B.M.

c. Address 1798 9th Street City Oakland Zip 94607

d. UTM: (give more than one for large and/or linear resources) Zone _; ____mE/ ____mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) 006-0033-026-00

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
The two-story residence has a rectangular plan and a steeply-pitched gable roof with boxed eaves. The house is clad in wood drop siding. The centered main entrance on the main (southwest) façade is recessed and fitted with a metal security screen door. The opening to the recessed entry porch is framed by decorative pilasters and crown. It is accessed via a set of wood steps. Fenestration consists of multiple-paned wood sash windows and replacement sliding windows in rectangular openings. A shed roof porch at the rear of the house has been enclosed. The porch addition on the main façade was demolished and was being rebuilt at the time of a 2021 field visit. The house is in fair condition with some areas of decay at the enclosed rear porch. The house retains integrity as a contributor to the Oakland Point historic district.

*P3b. Resource Attributes: (List attributes and codes) HP2. Single family property

*P4. Resources Present: ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☒ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (View, date, accession #) Photograph 1: Southwest and northwest elevations, camera facing northeast, November 22, 2021.

*P6. Date Constructed/Age and Sources: ☒ Historic ☐ Prehistoric ☐ Both
c1885, Alameda County Assessor

*P7. Owner and Address:

*P8. Recorded by: (Name, affiliation, address)
Kara Brunzell
Brunzell Historical
1613 B St
Napa, CA 94559

*P9. Date Recorded: November 22, 2021

*P10. Survey Type: (Describe) Intensive

*P11. Report Citation: (Cite survey report and other sources, or enter "none.")

*Attachments: NONE ☐ Location Map ☐ Sketch Map ☐ Continuation Sheet ☐ Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (list) ________

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # ______________________
HRI # ______________________
Trinomial ______________________
NRHP Status Code ____________
Other Listings ______________________
Review Code __________ Reviewer ______________________ Date __________

*Resource Name or # (Assigned by recorder) 1819 10th Street

P1. Other Identifier: Block 703

*P2. Location: ☐ Not for Publication ☒ Unrestricted

*a. County Sacramento

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad_Date _T__; R ___; ___ ¼ of Sec ___; ______ B.M.

c. Address 1819 10th Street City Oakland Zip 94607

d. UTM: (give more than one for large and/or linear resources) Zone __; _______mE/ _______mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) 006-0049-025-01

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The 1.64-acre parcel holds four industrial buildings and one smaller building:

- 1819 10th St., which is oriented east-west and occupies most of the north half of the parcel
- 1824 9th St., which is oriented north-south and located at the southeast corner of the parcel
- 1826 9th St., which is oriented north-south and located immediately adjacent to the west elevation of 1824
- 1832 9th St., which is oriented north-south and located at the center of the block
- A small building at the southwest corner of the parcel

1819 10th St. is a large, double-height, double-gabled industrial building. Its cladding and roofing are corrugated metal. Large vehicle openings are fitted with metal rollup doors. There are banks of industrial-sash windows along the east, west, and south elevations. 1824 9th St. is double-height gable-roofed industrial building with corrugated metal cladding and roofing. A vehicle opening along 9th Street is fitted with a top-mounted sliding door. An adjacent human-scale door is fitted with a metal security screen door. The building lacks fenestration. 1826 9th St. is a single-height gable-roofed industrial building with corrugated metal cladding and roofing. A vehicle opening along 9th Street is fitted with a metal rollup door. 1832 9th St is a single-height industrial building with a low pitch gable roof with wide eaves. Cladding and roofing are corrugated metal. A vehicle opening along 9th Street is fitted with a metal rollup door. The small building at the southwest corner of the parcel also features a gable roof and metal cladding. There is a temporary metal carport structure near the center of the parcel.

*P3b. Resource Attributes: (List attributes and codes) HP6. 1-3 story commercial building

*P4. Resources Present: ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (View, date, accession #) Photograph 1: 1819 10th Street, camera facing west, November 22, 2021.

*P6. Date Constructed/Age and Sources: ☒ Historic ☐ Prehistoric ☐ Both
1919-1927, 1942, 1949, Oakland Tribune

*P7. Owner and Address:

*P8. Recorded by: (Name, affiliation, address)
Kara Brunzell
Brunzell Historical
1613 B St
Napa, CA 94559

*P9. Date Recorded: November 22, 2021

*P10. Survey Type: (Describe) Intensive

*P11. Report Citation: (Cite survey report and other sources, or enter "none.") none

*Attachments: NONE ☐ Location Map ☐ Sketch Map ☒ Continuation Sheet ☒ Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (list) ______________

*NRHP Status Code ______________

*Resource Name or # (Assigned by recorder) 1819 10th Street

B1. Historic Name: None

B2. Common Name: 1819 10th Street

B3. Original Use: commercial B4. Present Use: commercial

*B5. Architectural Style:

*B6. Construction History: (Construction date, alteration, and date of alterations) c1902, First warehouse constructed at southwest corner of Block 703 (Standard Oil Co., 1830 9th Street)
1919, Spears-Wells moves manufacturing plant into existing warehouse, expands facility
1927, Spears-Wells expands to the east of the original building
1942, Independent Iron Works ancillary warehouse constructed immediately adjacent to the east of Spears-Wells plant
1949, Irving Subway Grating Company warehouse constructed on north half of property
1966, Irving Subway Grating Company purchases Spears-Wells Machinery Company buildings and expands
c1967, Brick warehouse at 1831 9th St (constructed by Spears-Wells 1919-1927) demolished
1985, Irving Subway Grating Company corrugated metal warehouse constructed at 1831 9th St
1993-2000, Original brick warehouse (constructed by Standard Oil Co. c1902) demolished

*B7. Moved? ☒ No ☐ Yes ☐ Unknown Date: __________________ Original Location: ______________

*B8. Related Features: __________________

B9. Architect: unknown. b. Builder: unknown

*B10. Significance: Theme N/A Area N/A

Period of Significance N/A Property Type N/A Applicable Criteria N/A

(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

B11. Additional Resource Attributes: (List attributes and codes)

*B12. References:

(See Footnotes)

B13. Remarks:

*B14. Evaluator: Kara Brunzell

*Date of Evaluation: November 22, 2021

(This space reserved for official comments.)

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
CONTINUATION SHEET

Primary # ________________________
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Page 3 of 14 *Resource Name or # (Assigned by recorder) 1819 10th Street

*Recorded by Kara Brunzell *Date: November 22, 2021 ☒ Continuation ☐ Update

*P3a. Description: (continued):

Photograph 2: View of 1819 10th Street, southeast elevation, camera facing northwest, November 22, 2021.

Photograph 3: 1819 10th Street view of warehouse with carport foreground, southwest elevation, camera facing northeast, November 22, 2021.

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
CONTINUATION SHEET

Primary # ______
HRI # ______
Trinomial ______

Page 4 of 14 *Resource Name or # (Assigned by recorder) 1819 10th Street

*Recorded by Kara Brunzell *Date: November 22, 2021 ☒ Continuation ☐ Update

Photograph 4: 1819 10th Street, northeast elevation, camera facing west, November 22, 2021.

Photograph 5: Block 703 warehouses, southwest elevations, camera facing northwest, November 22, 2021.

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
CONTINUATION SHEET

Primary # ______________________
HRI # ______________________
Trinomial ______________________

Page 5 of 14 *Resource Name or # (Assigned by recorder) 1819 10th Street

*Recorded by Kara Brunzell *Date: November 22, 2021 ☒ Continuation ☐ Update

Photograph 6: 1824 9th Street warehouse, southwest elevation, camera facing northeast, November 22, 2021.

Photograph 7: 1826 9th Street warehouse, southwest elevation, camera facing northeast, November 22, 2021.

*Resource Name or # (Assigned by recorder) 1819 10th Street

*Recorded by Kara Brunzell *Date: November 22, 2021 ☒ Continuation ☐ Update

Photograph 8: 1832 9th Street warehouse, northeast elevation, camera facing west, November 22, 2021.

Photograph 9: View of Block 703, small building at southwest corner, southwest elevations, camera facing east, November 22, 2021.

*Resource Name or # (Assigned by recorder) 1819 10th Street

*Recorded by Kara Brunzell *Date: November 22, 2021 ☒ Continuation ☐ Update

Photograph 10: View of small building at corner, 1819 10th Street background, camera facing east, November 22, 2021.

Photograph 11: View of 9th Street warehouses, looking towards Pine Street, camera facing west, November 22, 2021.

*Resource Name or # (Assigned by recorder) 1819 10th Street
*Recorded by Kara Brunzell *Date: November 22, 2021 ☒ Continuation ☐ Update

B10. Significance (continued):

Oakland

The Oakland area was originally inhabited by Ohlone people. Northern Alameda County was part of Rancho San Antonio, a vast tract of land granted to the Peralta family (who lived in San José) in 1820. Like other Mexican land grant recipients, the Peraltas had difficulty holding onto their land after California entered the United States in 1850. When the Gold Rush brought large numbers of Americans to California in 1849, the East Bay became an important transit station for passengers and cargo. American hunters and fortune-seekers began squatting in the area that would become Oakland. Horace Carpentier was one of these squatters, and after obtaining a lease from the Peralta family incorporated Oakland in 1852. Carpentier received an extremely valuable grant for the use of most of its waterfront at the first meeting of the city trustees.[1]

Oakland Point is located about two miles west of the original City of Oakland. The Point is notable for its position as the closest land location to San Francisco. In the 1850s, the area was occupied by small farm plots and cut off from the rest of the city by a large marsh, with more marshes to the north and south. These marshes were initially used as dumps and sewage outlets before their development for industrial uses in the twentieth century. In the 1860s, Rodmond Gibbons and partners developed the Bay Street Wharf and the San Francisco and Oakland Railroad at the Point. The railroad included a commuter line that met the ferry at the wharf. Railroad service began in 1862 and was expanded to the east in 1864 and the west in 1868. In 1869 the Central Pacific Railroad connected Oakland Point to the transcontinental railroad. Former mayor Horace Carpentier (who had incorporated Oakland and received a grant to most of its waterfront in 1852) formed a partnership with the Central Pacific Railroad in 1869. He subsequently deeded most of the waterfront to the Central Pacific Railroad, allowing Oakland to become the western terminus of the railroad, with transcontinental shipping passing through, but preventing other development in the area. The railroad tracks and pier system were expanded in 1870, 1871, and 1879-1881; at one point, the piers extended two miles into the water.[2]

Railroad development in the area led to rapid residential growth; Oakland Point's development boomed in the 1870s, and the area was home to a significant portion of Oakland's population. There were two large-scale developers, John Winfield Pearson and John Ziegenbein, who built large tracts in Oakland Point over the decades. The neighborhood was largely built out by the 1890s; 70 percent of buildings extant in 1990 were built before 1889. Large numbers of Oakland Point residents were railroad employees through the 1930s (until the 1920s, railroad workers were required to live west of Adeline Street). The Pullman Palace Car Company, which employed exclusively Black porters, arrived in 1869, giving rise to the beginnings of Oakland's large and early Black population. The Pullman Company employed around 30% of the local Black population as late as 1929. Many Oakland Point residents of this era were lodgers and moved frequently, especially those who worked for the railroad. The Point was also a convenient residential area for San Francisco commuters. Early Oakland Point included a notably large population of working women; an 1880-1881 city directory reported at least fifteen businesses owned by women. Oakland Point during the nineteenth century was dominated by Americans who had moved to Oakland from northern states and immigrants from northwestern Europe, with small but visible Black and Chinese communities. By 1900, there were significant Irish, British, German, and Scandinavian populations as well as over 1000 Black residents (nearly 20 times the 1870 Black population). The early twentieth century saw large increases in the Italian and Slavic populations. The surrounding city grew significantly at this time; Oakland's population doubled between 1900 and 1910 as a result of the 1906 San Francisco earthquake. The Point's Black population also continued to grow and included homeowners and business owners. The Pacific Coast Real Estate and Employment Company was established in 1907 to serve this growing community. The Oakland and East Bay Negro Business League, the first organization of its kind in the region, was formed in 1919. Oakland Point was known in the 1920s and 1930s for its Black music venues and nightclubs; touring performers were barred from most hotels and generally stayed with residents. Oakland Point was highly praised by residents in the first decades of the twentieth century for its racial diversity.[3]

By 1910, the Western Pacific Railroad had broken the Southern Pacific Railroad (successor to the Central Pacific Railroad) monopoly in court. This action allowed the Western Pacific to construct its own pier to the south of the existing pier and begin its own service to Oakland, operating as the main freight and passenger route from the Bay Area to Northeastern California. Oakland Point's hold on the

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[1] Historic Landscape Report, UC Berkeley, Piedmont Avenue Landscape, Berkeley, California, Final Draft, Prepared by PGAdesign Inc. and Page & Turnbull, March 2006, II-2, II-3; M. W. Wood, *History of Alameda County, California*, M.W. Wood, Oakland California: 1883, 485.

[2] Oakland Point District DPR, Oakland Cultural Heritage Survey, August 23, 1990, 25-27, 29-30, 32-36; Woodruff Minor, *Pacific Gateway: an Illustrated History of the Port of Oakland*, Port of Oakland, Oakland California: 2000, 5.

[3] Oakland Point District DPR, Oakland Cultural Heritage Survey, August 23, 1990, 25-27, 29-30, 32-36, 43, 47, 50-53; Annalee Allen, *Oakland: A Postcard History* (San Francisco: Arcadia Press, 2005), 9.

railroad industry was also diluted by the Southern Pacific Railroad's conversion of local passenger service from steam to electric, which required more widely-scattered headquarters. There were several electrical power stations in the region, and lineman had to maintain long overhead power lines, so electrical service maintenance was dispersed rather than concentrated in the rail yards. The Southern Pacific Railroad built a car shop in Alameda, and the Oakland Point area began to open to other kinds of development; by the 1910s, most new construction in Oakland Point was for industrial properties, located around the edges of the neighborhood's residential center. This included the establishment of shipyards and shipping terminals, which expanded significantly during World War I. During this time, Oakland became one of the foremost shipbuilding centers in the nation; in 1920, their peak year, Oakland shipyards employed more men than every other industry combined. Oakland Point also developed a number of local businesses in the 1910s and 1920s, including large numbers of neighborhood-serving businesses like grocery stores and gas stations. Business owners tended to live in the neighborhood, and Oakland Point was noted locally for residents' ability to meet all their needs without leaving the Point. The influence of the railyards continued to decline in the 1920s as trucking began to compete with rail freight and ferry service became an increasingly significant part of the Southern Pacific Railroad's business. Passenger service soon declined as well with the opening of the Bay Bridge between Oakland and San Francisco in 1936, and the local service stopped in 1941.[4]

The City of Oakland was zoned in the 1930s, by which time it was one of the largest cities in California. Oakland Point was zoned industrial (a designation retained until 1974). By the 1930s, a number of houses in the Point had deteriorated, and residential redevelopment began in 1939 with the construction of large housing projects like Campbell Village and Peralta Villa. These housing projects were controversial among Oakland Point residents, many of whom regarded them as an insidious attempt at racial segregation. Objectors pointed out that the locations chosen for the projects contained large numbers of Black residents, while whiter blocks in worse condition were allowed to remain. The 1939 studies that justified the projects explicitly mapped "non-white families" alongside factors like disease and substandard housing. At least half of the displaced residents were homeowners with limited options to buy elsewhere, and attempts to force the projects to integrate were only moderately successful. During World War II, Oakland shipyards sent recruiters to the south and more than 50,000 Black people moved to the East Bay. High demand for housing led to further rapid residential redevelopment as single-family houses were divided into multiple units and commercial buildings were converted to housing. Many houses in Oakland Point had separate basement units added in the 1940s. Moore Shipyards built its own housing project to accommodate wartime employees in 1942, and there were several other temporary dormitories for wartime workers in industrial neighborhoods.[5]

Historically an integrated area, black residents became a larger percentage of the population in West Oakland as southerners moving to the Bay Area for defense work displaced communities in East Oakland, Richmond, and other cities across the region. Oakland Point's Black population reached a majority of around 80 percent in 1950 and remained around the same until at least the 1980s. The Oakland City Council designated West Oakland as "blighted" in 1949, leading to additional demolitions that decreased its population. Redevelopment projects of the ensuing decades continued to target West Oakland's Black population. In the 1950s, Cypress Freeway construction cut through the neighborhood and isolated it from the rest of the city. 500 homes were demolished for the US Postal Distribution Center in 1960, and much of the neighborhood's commercial core on 7th Street (which has been home to a lively cultural scene) was destroyed in 1970 to make way for the Bay Area Rapid Transit (BART) station. By the end of the 1960s – 1970s era of urban renewal, more than 800 businesses had been closed, 2,500 houses had been demolished, and almost 5,000 households had been pushed out.[6]

Redevelopment was a devastating blow to a community that had been hit hard by the shrinking railroad industry and loss of industrial jobs in the decades following the end of World War II. Redlining meant that West Oakland homeowners were excluded from federally insured mortgages. Of the 137 groceries serving in West Oakland in 1960, just 22 remained by 1980, and many of these businesses had been replaced by liquor stores. Social problems followed disinvestment and redevelopment. Oakland, and particularly West Oakland, was hit hard by the drug epidemics of the 1970s and 1980s, with drugs sold openly on many corners and violence following the drug trade.

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[4] Oakland Point District DPR, Oakland Cultural Heritage Survey, August 23, 1990, 30-31, 38.

[5] Oakland Point District DPR, Oakland Cultural Heritage Survey, August 23, 1990, 39, 50, 53-54; Annalee Allen, *Oakland: A Postcard History* (San Francisco: Arcadia Press, 2005), 9.

[6] Oakland Point District DPR, Oakland Cultural Heritage Survey, August 23, 1990, 39, 50, 53-54; Ariana Bindman, "West Oakland Was Once an Economic Hub for the Bay's Black Community. What Happened?" *Bold Italic*, July 7, 2020.

*Recorded by Kara Brunzell *Date: November 22, 2021 ☒ Continuation ☐ Update

The large office buildings, hotels, and convention center facilities that brought economic revitalization to downtown Oakland during this era did not bring similar benefits to West Oakland.[7]

The Loma Prieta earthquake in 1989 destroyed a number of historic buildings in Oakland Point and the Cypress Freeway, which collapsed, killing 42 people. Oakland Point residents organized and successfully pushed Caltrans to re-route I-880 around the neighborhood, turning the space previously used by the Freeway into a greenway called the Mandela Parkway. Gentrification due to the Bay Area's tech economy began to affect Oakland in the 1990s and escalated after 2000. An eviction crisis led to unprecedented levels of homelessness in the city, and the Black population has consistently declined in numbers for decades. By 2010, Oakland's Black population was smaller than the white population for the first time since 1970, and by 2020 only about one out of four households in West Oakland was Black.[8]

Block 703

Block 703, which is bounded by Cedar, 9th, 10th, and Pine streets, was first developed for housing in the 19th century. The Standard Oil Company was the first to develop a warehouse on the southwest corner of the block around 1902. It was a valuable location for industrial development due to its proximity to the railroad tracks and waterfront. With the construction of more warehouses, industrial spurs were developed to connect the warehouses to the railroad tracks. The Spears-Wells Machinery Company developed multiple warehouses on the southwest half of block 703, at addresses 1830 9th Street, 1832 9th Street, and 1824 9th Street. Independent Iron Works had a warehouse to the east of the Spears-Wells assembling warehouse. On the northeast half of block 703, the Irving Subway Grating Company developed a large warehouse at 1819 10th Street and 1849 10th Street in 1949. Houses remained on the east end of Block 703, bordering Pine Street. In the 1990s, the original Standard Oil Company warehouse on the southwest corner was demolished. [9]

Spears-Wells Machinery Company

Charles Alvah Spears was the Vice-President of Spears-Wells Machinery Company. Prior to Spear-Wells Machinery Company, Charles Spears owned Graves-Spears Road Machinery Company in the 1910s. For years, Charles A. Spears was involved in the Oakland Chamber of Commerce's roads committee. He also was on the executive committee to plan the All-Western Road Show in San Francisco, which was a conference for contractors and those who dealt in highway building. I. M. Wells was his partner, and Secretary of the company. Ira Moore Wells (1887 – 1981) was born in Hawaii and attended technical school in Minneapolis as a young man. Wells, who was often present when company machinery was being used in road construction, appears to have been the technical expert in the partnership. In 1919, Spears-Wells Machinery Company began manufacturing farm machinery in Oakland, establishing an office on Twelfth Street and the factory in the brick Standard Oil facility at the corner of Cedar and Ninth streets (which had fallen into disuse after Standard Oil opened a new plant in Richmond). By September of that year, the company was installing its own machinery in the facility. Additional buildings were also constructed, with a total expenditure of $50,000 to develop the plant. The company made a graders, oilers, and other large equipment for road-building, which it shipped all over the Western US. In 1920, it claimed to be the only company west of Chicago manufacturing road-building equipment. [10]

Business was good in the 1920s, and the company added a 5640 square feet of floor space as well as new machinery in 1927 in order to increase production by 30 percent. Aerial photographs show that by 1931, there was a small addition (use for machinery storage) to the south of the original building as well as several large new buildings to the east including a brick machine shop adjacent corrugated metal buildings used as assembly and shop areas. The company appears to have remained active through the late 1950s. [11]

Independent Iron Works, Ltd.

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[7] Mitchell Schwarzer, *Hella Town: Oakland's History of Development and Disruption*, (Berkeley: University of California Press, 2021), 208, 306; Robert Lindsey, "Oakland Fighting Back to end Drug Violence," *New York Times*, October 7, 1984.

[8] "4.3: Cultural and Historic Resources," West Oakland Specific Plan – Draft EIR, 4.3-7; "West Oakland: A Neighborhood Divided," Connect Oakland, 2015, accessed December 1, 2021; Brett Jackson, "Replacing Oakland's Cypress Freeway," *Public Roads* Vol. 61 No. 5, March/April 1998; Angela Rowen, "Black Oakland's Story," A Changing Oakland, 2019, accessed December 2, 2021.

[9] *Sanborn Fire Insurance Map from Oakland, Alameda County, California*, Sanborn Map Company, 1912-1951 Vol. 1, 1951, Map, https://www.loc.gov/item/sanborn00727_015/.

[10] *Oakland Tribune,* "Make Farm Machinery in Oakland," September 21, 1919; *Oakland Tribune,* "Spears-Wells Machinery Co., Inc.," Mar. 31, 1920, 23; *Oakland Tribune,* "C. of C. Roads Committee Talk Program," Jan. 25, 1928, 7; *Oakland Tribune,* "Road Building Show to Draw Contractors," Oct. 20, 1925, 3.

[11] *Oakland Tribune,* "Machinery Company Is Expanding," September 17, 1927.

*Resource Name or # (Assigned by recorder) 1819 10th Street

*Recorded by Kara Brunzell *Date: November 22, 2021 ☒ Continuation ☐ Update

The warehouse located at 1822 9th Street, in the same block as 1819 10th Street, was used in the 1940s as a warehouse for Independent Iron Works Ltd. Prior to this warehouse, the land was owned by Edwin A. Newton and his wife. They sold the property to Independent Iron Works, Ltd. In 1942.[12]

The building was constructed by the Independent Iron Works company as a warehouse. At the time, it was across the street from the company's primary warehouses and manufacturing plant. Independent Iron Works was a steel manufacturing company founded in the 1920s by Henry Gede and William George Meagher. Henry Gede (1893-1979) was born in San Jose and worked at Moore Dry-dock in Oakland as a young man. In 1918, Henry Gede married Valeta Elder. He was co-owner of the Independent Iron Works until he retired in 1954; he died in 1979. William G. Meagher (1894-1973) was born in Port Angeles, Washington and moved to California around 1918. He was married to Jane A. Kelly-Meagher (1898-1963) and they had three sons. His son, William G. Meagher Jr., became vice-president for the Independent Iron Works company, working alongside his father.[13]

The company started out in fairly small facilities on the block bounded by Pine, Eighth, Ninth, and Cedar streets. The plant appears to have expanded gradually over the 1930s, and eventually occupied the entire block as well as an office on 8th Street. By 1939, the plant had 250 employees. The company fabricated all sorts of steel products: structural steel beams for buildings, bridge girders, and small pre-fabricated buildings like gas stations and restrooms. With US entry into World War II, Independent Iron Works expanded into the war work market, competing with the likes of Bethlehem Steel and Kaiser Steel. It supplied prefabricated parts to at least ten local plants that produced war materiel, and also manufactured its own metal barges. Many of the items it manufactured were for US Navy or Merchant Marine ships including ladders, ships' doors, shelving, and sea chests. The warehouse north of 9th Street was developed as part of this expansion. [14]

After the war, Independent Iron Works went back to manufacturing ordinary consumer products, adding new products like barbells. Forty years after the company was started, the Meaghers sold it to Vinnell Steel in 1961. Vinnell Steel, which was based in Irwindale, California, was itself acquired by a larger company a few years later. By 1969, the Independent Iron Works main plant on Pine Street had been shuttered. The main plant was demolished in the late 1990s. [15]

Irving Subway Grating Company

Walter E. Irving (1874 – 1955) established Irving Iron Works in Long Island, New York in 1902. Irving lived with his wife Charlotte and their children in Darien, Connecticut. An engineer who graduated from Rensselaer Polytechnic Institute in 1896, Irving was an innovator and inventor, introducing wire mesh grating systems for the New York City subway system in 1912. The firm changed its name to Irving Subway Grating Company, and began producing open-mesh decking for bridges. At the start of World War II, the company introduced innovative portable landing mats that were utilized by the US Army Air Corps to quickly create airfields.[16]

Irving Subway Grating Company opened its West Coast factory in Emeryville in 1943, where it manufactured the landing mats as well as steel grating for industrial floors and bridges. During World War II, the company was the principal supplier of portable airstrips in the Pacific. In 1949, the company outgrew its Emeryville factory and built its 23,000 square foot, corrugated metal plant on 10th St. In the 1950s, J. C. Lynn was the president of the Irving Subway Grating Company's western division until he died in 1954. James E. Irving succeeded J. C. Lynn as president of the western division of Irving Subway Grating Company in 1955. James Irving (1907 – 1991) was Walter in Charlotte Irving's eldest son. He began his working life as an apprentice in a box factory before becoming a salesman for the family firm and working his way into management. He married Cecile Cottrell in 1933, and the couple lived in Darien until Irving Subway Grating Company opened its West Coast division. He was also the executive vice president and general manager of the parent company in Long Island, New York.[17]

In 1952, the Irving Subway Company warehouse at 1819 10th Street was used by the American Committee for Protection of the Foreign Born for a meeting to help with those who faced deportation. The chairman for that meeting was Henry Saunders, and attorney from

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[12] Sanborn Fire Insurance Map from Oakland, Alameda County, California. *Sanborn Map Company,* Nov. 1951 Vol. 1; Oakland Tribune, "Legal Notice: New Street," Oct. 8, 1946, 17.

[13] *Oakland Tribune,* "Obituary: Henry Gede," Feb. 3, 1979, 27; *Oakland Tribune,* "Meagher, William G.," Jan. 11, 1973, 22.

[14] *Oakland Tribune,* "Iron Works Strike Ends in Oakland," Oct.6, 1939, 14.

[15] *Oakland Tribune,* "Independent Iron Works Sold to Vinnell," Apr. 6, 1961, 52.

[16] IKG, History, 2021, https://ikg.com/about-us/history/, accessed December 20, 2021.

[17] *Oakland Tribune,* "James E. Irving," Feb. 7, 1955, 24; *Oakland Tribune,* "What They're Doing: Business in the Eastbay," Sep. 22, 1952, 28;

Page 12 of 14 *Resource Name or # (Assigned by recorder) 1819 10th Street
*Recorded by Kara Brunzell *Date: November 22, 2021 ☒ Continuation ☐ Update

Oakland who specialized in the legal matters for left-wing labor unions and Communist Party members. That same month, the Bay Area annual festival for the International Workers Order was held at this address. Around one-hundred people attended this gathering, most of them supporters of the Communist Party of California.[18]

When James Irving was appointed Chairman of the Board for the company, Charles M. Thomson was elected president of the Irving Subway Grating Company's western division in the 1960s. Harsco Corporation acquired Irving Subway Grating and another company, Gary Gratings, in 1965; Kerrigan Iron Works Company was purchased by Harsco a year later. In 1966, the company expanded its Oakland facility by purchasing the adjacent property to at 1832 Ninth Street from Spears-Wells Machinery Company. The brick warehouse that had been constructed by Spears-Wells Machinery Company between 1919 and 1927 was demolished in 1967. In 1969, the company changed its name to IKG to reflect the names of the firms it had merged.[19]

IKG continue to operate the plant into the 1980s, and constructed a new corrugated metal warehouse at 1832 9th St. in 1985. By the end of the decade, the facility had been shuttered and Joe Clar and Sons, a scrap metal business, moved into 1819 10th St. in 1991. Between 1993 and 2000, 1820 and 1824 9th St. were later used by a company who gave lessons in trapeze and other circus performing arts. The old brick warehouse constructed by Standard Oil Company in 1902 was demolished between 1993 and 2000.

Figure 1: USDA Aerial Photograph showing Spears-Wells Machinery Company, 1931.

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[18] Journal of the Senate, Legislature of the State of California, United States: California State Print Office, 1953.

[19] *Oakland Tribune,* "Appointments," Oct. 7, 1963, 37; *Oakland Tribune,* "Grating Company Plans Expansion," Feb. 1, 1966, 50.

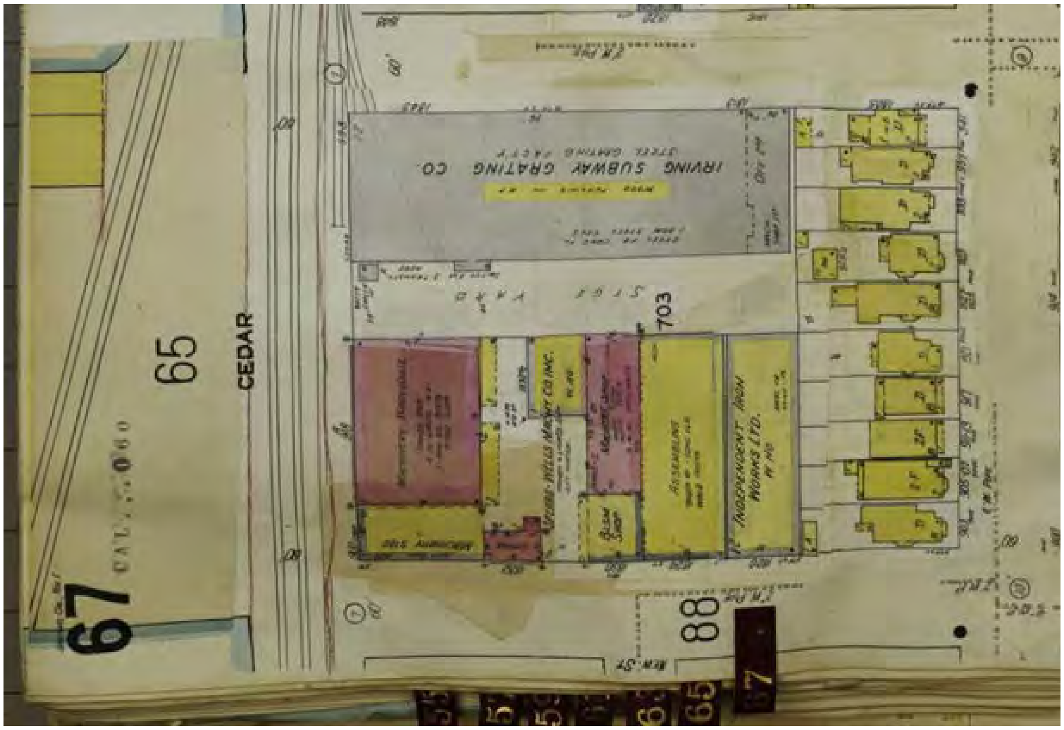

Figure 2: Sanborn Maps showing Spears-Wells Machinery Company, Independent Iron Works, & Irving Subway Grating Co., 1951.

Evaluation:

The National Register of Historic Places (NRHP) and California Register of Historical Resources (CRHR) require that a significance criterion from A-D or 1-4 (respectively) be met for a resource to be eligible.

Criterion A/1: 1819 10th Street is not associated with events that have made a significant contribution to the broad patterns of our history. The property is generally associated with the industrial development of West Oakland during the twentieth century. However, research has revealed no indication that any of the companies located on the block made important contributions history Irving Subway Grating Company did produce portable landing mats that were important to the US war effort, however they did not move to the site until after World War II. Likewise, Independent Iron Works contributed to Bay Area shipbuilding during the war, but its warehouse at the corner of Pine and 9th streets on the subject property was not its primary facility. Research has not revealed that the property is significant within the context of World War II defense production or any other historic context. Therefore, the property is recommended not eligible to the NRHP or CRHR under Criterion A/1.

Criterion B/2: The property is not associated with the life of persons important to our history. Research has not revealed any strong connection between the owners and managers of the various companies and the subject property; nor are these managers important historical figures. Therefore, the property lacks the strength of association required for eligibility under Criterion B/2. The property is recommended not eligible to the NRHP or CRHR under Criterion B/2.

Criterion C/3: 1819 10th Street is not significant for its architecture. The warehouses on property that were constructed within the historic period exhibit the typical characteristics of utilitarian buildings of the era. They are simple rectangular buildings with gabled roofs and corrugated metal cladding. They lack decorative features or associations with particular architectural styles. Nor do they possess unique engineering or other design features. For these reasons, the property is recommended ineligible to the NRHP or CRHR under Criterion C/3.

Criterion D/4: In rare instances, buildings themselves can serve as sources of important information about historic construction materials or technologies and be significant under Criterion D/4. The buildings at 1819 10th Street are examples of a well-understood type of construction and do not appear to be a principal source of important information in this regard.

Page 14 of 14 *Resource Name or # (Assigned by recorder) 1819 10th Street
*Recorded by Kara Brunzell *Date: November 22, 2021 ☒ Continuation ☐ Update

The property is recommended not eligible for listing on the NRHP or CRHR and therefore does not qualify as a historical resource under CEQA.

P-01-007149 FHWA 900927X

4623-0281-0000

For Historic Overview see 4623-0261-9999

Serial Number: A-22
UTM: 10/561480/4184890
NR: 3S

Prop. 83063

HISTORIC RESOURCES INVENTORY

( ) LISTED ( ) DETERMINED ELIGIBLE
(X) APPEARS ELIGIBLE ( ) APPEARS INELIGIBLE

IDENTIFICATION

1. Common name: None

2. Historic name: Standard Oil- Spears-Wells Co. warehouse

3. Street address: 918 CEDAR ST
Oakland, CA 94607
County: Alameda

4. Parcel Number: 6-49-25-1 W

5. Present Owner: WANG JERRY C & YING Y
103 ORCHARD AV
HAYWARD CA 94544
Ownership: private

6. Present use: Industry/manufacturing
Original use: Commerce/warehouse

DESCRIPTION

7a. Architectural Style: 19th century utilitarian

7b. Briefly describe the present physical appearance and any major alterations:

918 Cedar Street, the Standard Oil Warehouse, is a one-story rectangular brick building, 100′ x 75′, with a single arched opening for grade level entry on the north side and platform level openings on the east side. Elsewhere the sixteen-inch brick walls laid in common bond with a header course for every 5 stretcher courses have no openings. The walls are tied at the corners where circular iron tie-plates with star patterns are visible. Along the exposed west side, and presumably the east, and in scattered locations elsewhere, vertical rows of smaller iron tie plates are visible. These are imperfectly lined up and may have been added. As they are in regularly spaced columns, they appear to be part of a system tying the outside walls to some interior framing.

Inside, a single row of wood columns running north and south through the center of the building supports a structure of two parallel gabled roof sections which meet at the line of columns. The interior is lit by skylights. It has a wood floor. The gable ends of the roof are hidden by twin stepped parapets, which have slight corbeling at their tops.

(see continuation page)

Subs

8. Construction Date: 1889

9. Architect:
unknown

10. Builder:
unknown

11. Approx. property size (in feet)
Frontage: 75 Depth: 100
or approx. acreage:

12. Photo number: 538-36
Photo date: 08/12/90

P-01-007149

Serial Number: A-22

13. Condition: fair

14. Alterations: addition

15. Surroundings: densely built up, scattered buildings, industrial

16. Threats: public works project

17. Is the structure: On its original site? (X) Unknown? ( ) Moved? ( )

18. Related features: signs

SIGNIFICANCE

19. Briefly state historical and/or architectural importance (include dates, events, and persons associated with the site):

918 Cedar Street, the Standard Oil Warehouse, was built in 1889 as the Oakland substation of the Standard Oil Company of Iowa. Iowa Standard, as it was called, was an affiliate of the main branch of the Standard Oil Company and was set up in 1885 to market Standard Oil products in the western United States (information on Standard Oil comes from Gerald T. White, "Formative Years in the Far West," N.Y., 1962). The company had only a legal connection to the State of Iowa and was administered in San Francisco and New York. It established a basis for overcoming the competition from the Pacific Coast Oil Company, a California company with a refinery in Alameda and a distribution system established in 1880. Standard Oil products, primarily kerosene for illumination and various oils for lubricating machinery, had previously been distributed in the West through various wholesalers. The new marketing system which produced this warehouse was an important step in the creation of a completely integrated national corporation, a corporation that would control not only the sources of the raw material, processing of the raw material, and transportation of the raw material and finished products, but now also the marketing and distributing of

(see continuation page)

20. Main themes of the historic resource:
Economic/Industrial, Architecture

Locational Sketch Map:

See Map C, Sheet 9 of 17.

21. Sources:
City & county tax rolls & block books, 1869-1960; Sanborn maps, 1889-1901, 1902-11, 1912-51, 1970s; city directories & telephone books; U.S. census; building & alteration permits; biographical & subject indexes, Oakland History Room; Gerald T. White, Formative Years in the Far West, N.Y., 1962

22. Date form prepared: 08/17/90
By: Staff and Consultants
Org: Oakland Cultural Heritage Survey
One City Hall Plaza
Oakland, CA 94612
Phone: (415) 273-3941

HISTORIC RESOURCES INVENTORY CONTINUATION PAGE

Address: 918 Cedar Street

Serial Number: A-22

7b. Physical Description (continued)

The exterior of the building today is marked with large, fading, painted signs advertising the "Spears Wells Machinery Company" (the occupant in the 1920s-50s). Portions of the parapet wall have collapsed, some apparently in the October 1989 earthquake and others which have weathered much longer ago. The building's setting consists of railroad tracks and unpaved land on the west, and later factories and warehouses on the other three sides.

Photo number: 538-35
Photo date: 08/12/90

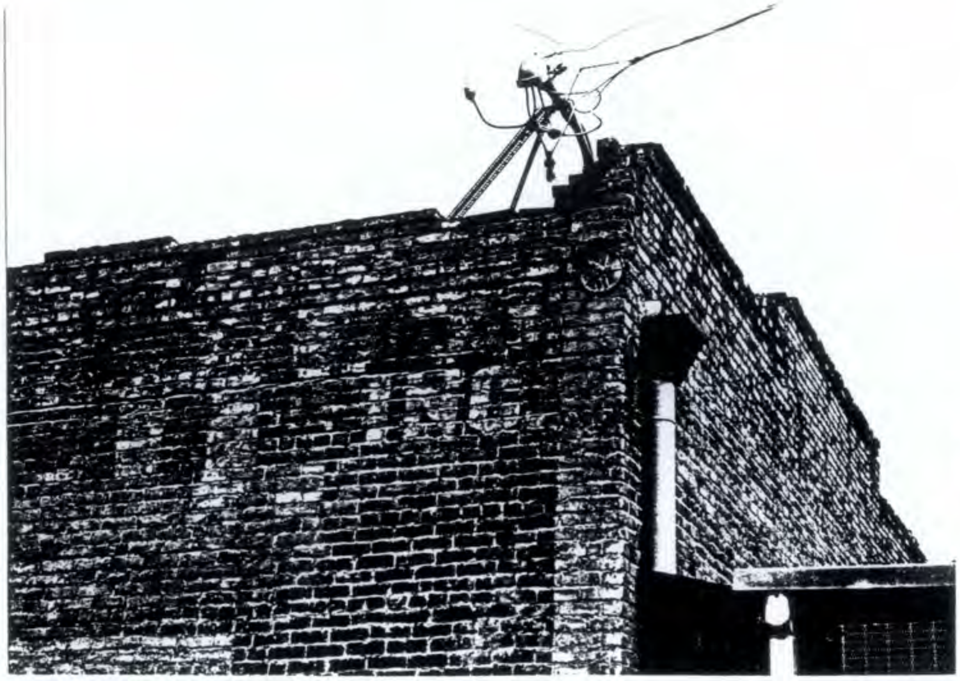

Photo number: 538-25
Photo date: 08/12/90

19. Historical and/or Architectural Importance (continued)

the finished products as well. This was at a time when there was no clear model for such a system in the petroleum products industry and few in other industries.

Prior to 1882, Standard Oil had built a small warehouse at Third and Townsend Streets in San Francisco for distribution within San Francisco. Between 1882 and 1884, it built a big new San Francisco warehouse at Fifth and Berry Streets and stations in Sacramento, Stockton, and Oakland, the better to compete with the Pacific Coast Oil Company. In 1885, this competitive relationship ended with the merger of the marketing operations of Pacific Coast Oil and Standard Oil under Iowa Standard. Following the merger, Iowa Standard was organized with six main stations: in San Francisco, Stockton, Sacramento, Los Angeles, plus Portland, and one secondary depot in Oakland. In 1886, new stations were established in San Diego and Seattle, and in 1887 the Oakland station was elevated from a depot of the San Francisco main station to a substation. In 1889, the old Oakland warehouse was vacated and the existing warehouse was built to better accommodate the needs of a substation. By 1890, there were 12 main stations and 11 substations and by 1900, 15 main stations and 58 substations between the Mexican border and Alaska. After 1900, pipelines and tank farms replaced the old warehouse system and its old facilities were gradually abandoned. This warehouse remained in the hands of Standard Oil until about 1923. About 1923 the building was sold to the Spears Wells Machinery Co. for a warehouse and shop for construction equipment. Two modifications of unknown specifics were made to the building in 1923 and 1927 under building permits for $1,500 and $5,000; they may have been interior fixtures or the reinforcing rods, since the building seems essentially unaltered. It is not known how many other of these 19th century main stations, substations, or depots may be left standing; this was the only one ever in Oakland.

The building appears to have been organized so that rail deliveries of company products from Cleveland could be made on a platform along the east side of the building, from a spur off the adjacent Southern Pacific railroad, and horse-drawn wagon and tank deliveries could be made through the street-level entry on the north side. (There was a stable and wagon shed on the yard to the east.) Standard Oil products came in cases of cans and in bulk in tank cars. Cases of cans were stacked in the warehouse and bulk liquids transferred to tanks in the warehouse. Bulk liquids were pumped from tanks to barrels (which may have been made at the site) or tank wagons for delivery to customers. While the barrel was so identified with oil that it had already become the basic unit of measure in the industry, Standard Oil encouraged the sale of its bulk products by tank wagon which was cheaper and more efficient. Record keeping and administration presumably took place in an office in the warehouse. In 1894, the main station at Portland, which was larger but probably not different in kind from the Oakland substation, had 19 employees: a special agent (manager), a cashier, two clerks, an office boy, two traveling salesmen, eight warehousemen, three teamsters, and one pumper and cooper. Oakland probably had a smaller number of employees, but the same basic tasks.

HISTORIC RESOURCES INVENTORY CONTINUATION PAGE

Address: 918 Cedar Street Serial Number: A-22

19. Historical and/or Architectural Importance (continued)

The 1892-93 city directory includes a John H. McWilliams, warehouseman Standard Oil Company, living a block away at 914 (now 882) Pine.

In addition to this building's association with the Standard Oil Company and the emergence of the oil industry as a major factor in the economy of California, it is also of interest simply as one of many warehouses built in the Bay Area in the 19th century when commerce was largely based on the distribution of products made elsewhere, and as one of the very few such warehouses that survive. While 19th century San Francisco, from the Gold Rush forward, has been widely recognized as a city of warehouses, not many of these have survived in Oakland.

Its warehouse structure is distinctive. It was constructed with a minimum of openings and thicker walls than were required for its load--sixteen inches--for security against fire and theft. With petroleum products, fire was a particular danager and adjacent enterprises required protection from fires or explosions as much as the contents did from outside dangers. In addition, the columns of iron tie plates suggest that either initially or later (perhaps after the earthquake of 1906) unusual steps were taken to ensure the structural stability of the building. It may be an important example of early efforts to apply engineering knowledge to the problems of designing in an earthquake zone, either at the time of its initial construction or later--this can only be known by further close study of the building itself.

Thus, the Standard Oil Warehouse is a relic of a 19th century distribution system and represents the efforts of the Standard Oil Company not only to distribute its products but to arrive at an efficient overall corporate structure. It is an unprepossessing building but one which served a necessary part in an organization where the organizational structure was a newly significant feature of its success. It represents a business decision by Standard Oil that resulted in its quick dominance of the market in California. With its accommodations of both long-distance rail transportation and local wagon transporation, it is a rare surviving example of a 19th century warehouse in the Bay Area when much of the economy was based on the use of warehouses.

Its setting is only partially contributing. Railroad tracks and unpaved land to the west are what was there historically, and contribute to its significance since railroad access was the reason for siting the warehouse here. On the other three sides, the building is now surrounded by larger warehouses, which are compatible in kind but relatively recent, and conceal it from view from all sides except the tracks; when built, it was surrounded on the north, east, and south by houses, and probably dominated the area. The surrounding warehouses on these three sides are all post-1923, the end of the building's Standard Oil era, and do not constitute contributing elements of the setting.

HISTORIC RESOURCES INVENTORY CONTINUATION PAGE

Address: 918 Cedar Street

Serial Number: A-22

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19. Historical and/or Architectural Importance (continued)

Altogether, the Standard Oil Warehouse is a rich artifact that has significant associations with known events, a rare surviving example of an important regional building type, and one that might yield important information about construction technology upon further investigation. As such, it appears to be eligible for the National Register at the local level under Criteria A and C.

Photo number: 504-26
Photo date: 02/22/88

HISTORIC RESOURCES INVENTORY CONTINUATION PAGE (9/28/90)

Address: 918 Cedar Street

Serial Number: A-22

19. Historical and/or Architectural Importance (continued)

A series of articles in the Oakland Enquirer in the fall of 1893 provides additional information about the operations of the Standard Oil warehouse, and about the way its corporate presence was received in Oakland. The fullest report is on September 7, under the heading "SUED AGAIN. The Standard Oil Company is After Oakland. It Will Fight the Ordinance for the Removal of Its Big Tanks."

> ...The City of Oakland in October, 1889, designated certain land as available for the storage of kerosene. These lots were at once bought by the Standard Oil Company. It erected warehouses and built three great tanks, one holding 8000 gallons, another 10,000 and a third 140,000 gallons. The company spent $20,000 in making the warehouses secure and arranging fixtures that would expedite the handling of the oil. A side track was built so that a car could be switched to the warehouse and the oil pumped to it from the great tank. There was also apparatus to enable the twenty odd delivery wagons of the company to get their loads easily before they started on their tours of the grocery stores and residences of the city.
>
> Shortly after the establishment of the warehouse suit were instituted to have it abated as a nuisance. This was in April. The complainants were M. Nightingale and J.E. Saulpaugh. They claimed that the storing of such a large quantity of oil near the city was a menace to its safety. ...
>
> ...City Council passed an ordinance rescinding the ordinance of 1889 fixing the site of the warehouses. The new ordinance set aside certain lots on the overflowed marshland. The land is submerged at high tide. To enable the company to bring its wagons to the tanks would require the expenditure of large sums of money. For these reasons the Standard Oil Company wants the courts to decide that the ordinance of May 15, 1893, is not binding.
>
> The monopolistic corporation also urges that the owners of the designated lots have raised the price to an unconscionable figure.... It is claimed that the proceedings are not so much against the company as a nuisance as against a hated corporation.

The parallel to the city's continuing litigation with Southern Pacific over the waterfront was not overlooked in this or subsequent reports. On Sept. 9 Mayor Pardee was reported as assuring Standard Oil that city crews would not take direct action to abate the tanks as they had SP's fence across the foot of Broadway, which was on city property.

Complainants Nightingale and Saulpaugh are identified in city directories as Miss Margaret Nightingale of 1816 Taylor (9th) Street, and James E. Saulpaugh,

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # ____
HRI # ____
Trinomial ____
NRHP Status Code _______________
Other Listings ____
Review Code ___________ Reviewer _____________________________ Date ___________

Page 1 of 8 *Resource Name or # (Assigned by recorder) 767 Pine Street

P1. Other Identifier: 767 Pine Street

*P2. Location: ☐ Not for Publication ☒ Unrestricted *a. County Sacramento
and (P2b and P2c or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad_Date T__; R __; __ ¼ of Sec __; ______ B.M.

c. Address 767 Pine Street City Oakland Zip 94607

d. UTM: (give more than one for large and/or linear resources) Zone _; _______mE/ _______mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) 006-0045-009-01

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
The one-story commercial building has a rectangular plan and features a medium-pitched gable roof with a vent on the gable end and minimal eaves. It is clad in stucco siding. The centered main entrance on the main (east) façade is fitted with a metal security screen door and is accessed via a wide set of concrete steps with a simple wood balustrade. Fenestration consists of fixed and sliding aluminum sash windows in rectangular openings with bars. The main façade features a square tower with a hipped roof to the left of the main entrance.

*P3b. Resource Attributes: (List attributes and codes) HP6. 1-3 story commercial building

*P4. Resources Present: ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (View, date, accession #) Photograph 1: 767 Pine Street, East elevation, camera facing west, November 22, 2021.

*P6. Date Constructed/Age and Sources: ☒ Historic ☐ Prehistoric ☐ Both
1880s, Sanborn Maps

*P7. Owner and Address:

*P8. Recorded by: (Name, affiliation, address)
Kara Brunzell
Brunzell Historical
1613 B St
Napa, CA 94559

*P9. Date Recorded: November 22, 2021

*P10. Survey Type: (Describe) Intensive

*P11. Report Citation: (Cite survey report and other sources, or enter "none.") none

*Attachments: NONE ☒ Location Map ☐ Sketch Map ☒ Continuation Sheet ☒ Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (list) __________________

Primary # ______________________________________
HRI # ____

*NRHP Status Code _____________

*Resource Name or # (Assigned by recorder) 767 Pine Street

B1. Historic Name: None

B2. Common Name: None

B3. Original Use: commercial B4. Present Use: commercial

*B5. Architectural Style:

*B6. Construction History: (Construction date, alteration, and date of alterations) Original construction, 1880s
Front stucco & replace windows, c1975
Side addition, c1980

*B7. Moved? ☒ No ☐ Yes ☐ Unknown Date: _________________ Original Location: _____________

*B8. Related Features: _________________

B9. Architect: unknown. b. Builder: unknown

*B10. Significance: Theme N/A Area N/A
Period of Significance N/A Property Type N/A Applicable Criteria N/A
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

B11. Additional Resource Attributes: (List attributes and codes)

*B12. References:

(See Footnotes)

B13. Remarks:

*B14. Evaluator: Kara Brunzell

*Date of Evaluation: November 22, 2021

(This space reserved for official comments.)

Primary # ______
HRI # ______
Trinomial ______

Page 3 of 8 *Resource Name or # (Assigned by recorder) 767 Pine Street

*Recorded by Kara Brunzell *Date: November 22, 2021 ☒ Continuation ☐ Update

*P3a. Description: (continued):

Photograph 2: 767 Pine Street, east and north elevations, camera facing southwest, November 22, 2021.

Photograph 3: 767 Pine Street, north elevation, camera facing southwest, November 22, 2021.

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
CONTINUATION SHEET

Primary # ________________
HRI # ________________
Trinomial ________________

Page 4 of 8 *Resource Name or # (Assigned by recorder) 767 Pine Street

*Recorded by Kara Brunzell *Date: November 22, 2021 ☒ Continuation ☐ Update

Photograph 4: 767 Pine Street, view of south elevation, camera facing northwest, November 22, 2021.

Photograph 5: View up Pine Street, camera facing north, November 22, 2021.

B10. Significance (continued):

*Resource Name or # (Assigned by recorder) 767 Pine Street

*Recorded by Kara Brunzell *Date: November 22, 2021 ☒ Continuation ☐ Update

Oakland

The Oakland area was originally inhabited by Ohlone people. Northern Alameda County was part of Rancho San Antonio, a vast tract of land granted to the Peralta family (who lived in San José) in 1820. Like other Mexican land grant recipients, the Peraltas had difficulty holding onto their land after California entered the United States in 1850. When the Gold Rush brought large numbers of Americans to California in 1849, the East Bay became an important transit station for passengers and cargo. American hunters and fortune-seekers began squatting in the area that would become Oakland. Horace Carpentier was one of these squatters, and after obtaining a lease from the Peralta family incorporated Oakland in 1852. Carpentier received an extremely valuable grant for the use of most of its waterfront at the first meeting of the city trustees.[1]

Oakland Point is located about two miles west of the original City of Oakland. The Point is notable for its position as the closest land location to San Francisco. In the 1850s, the area was occupied by small farm plots and cut off from the rest of the city by a large marsh, with more marshes to the north and south. These marshes were initially used as dumps and sewage outlets before their development for industrial uses in the twentieth century. In the 1860s, Rodmond Gibbons and partners developed the Bay Street Wharf and the San Francisco and Oakland Railroad at the Point. The railroad included a commuter line that met the ferry at the wharf. Railroad service began in 1862 and was expanded to the east in 1864 and the west in 1868. In 1869 the Central Pacific Railroad connected Oakland Point to the transcontinental railroad. Former mayor Horace Carpentier (who had incorporated Oakland and received a grant to most of its waterfront in 1852) formed a partnership with the Central Pacific Railroad in 1869. He subsequently deeded most of the waterfront to the Central Pacific Railroad, allowing Oakland to become the western terminus of the railroad, with transcontinental shipping passing through, but preventing other development in the area. The railroad tracks and pier system were expanded in 1870, 1871, and 1879-1881; at one point, the piers extended two miles into the water.[2]

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By 1910, the Western Pacific Railroad had broken the Southern Pacific Railroad (successor to the Central Pacific Railroad) monopoly in court. This action allowed the Western Pacific to construct its own pier to the south of the existing pier and begin its own service to Oakland, operating as the main freight and passenger route from the Bay Area to Northeastern California. Oakland Point's hold on the railroad industry was also diluted by the Southern Pacific Railroad's conversion of local passenger service from steam to electric, which

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[1] Historic Landscape Report, UC Berkeley, Piedmont Avenue Landscape, Berkeley, California, Final Draft, Prepared by PGAdesign Inc. and Page & Turnbull, March 2006, II-2, II-3; M. W. Wood, *History of Alameda County, California*, M.W. Wood, Oakland California: 1883, 485.

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*Recorded by Kara Brunzell *Date: November 22, 2021 ☒ Continuation ☐ Update

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Redevelopment was a devastating blow to a community that had been hit hard by the shrinking railroad industry and loss of industrial jobs in the decades following the end of World War II. Redlining meant that West Oakland homeowners were excluded from federally insured mortgages. Of the 137 groceries serving in West Oakland in 1960, just 22 remained by 1980, and many of these businesses had been replaced by liquor stores. Social problems followed disinvestment and redevelopment. Oakland, and particularly West Oakland, was hit hard by the drug epidemics of the 1970s and 1980s, with drugs sold openly on many corners and violence following the drug trade. The large office buildings, hotels, and convention center facilities that brought economic revitalization to downtown Oakland during this era did not bring similar benefits to West Oakland.[7]

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[4] Oakland Point District DPR, Oakland Cultural Heritage Survey, August 23, 1990, 30-31, 38.

[5] Oakland Point District DPR, Oakland Cultural Heritage Survey, August 23, 1990, 39, 50, 53-54; Annalee Allen, *Oakland: A Postcard History* (San Francisco: Arcadia Press, 2005), 9.

[6] Oakland Point District DPR, Oakland Cultural Heritage Survey, August 23, 1990, 39, 50, 53-54; Ariana Bindman, "West Oakland Was Once an Economic Hub for the Bay's Black Community. What Happened?" *Bold Italic*, July 7, 2020.

[7] Mitchell Schwarzer, *Hella Town: Oakland's History of Development and Disruption*, (Berkeley: University of California Press, 2021), 208, 306; Robert Lindsey, "Oakland Fighting Back to end Drug Violence," *New York Times*, October 7, 1984.

*Resource Name or # (Assigned by recorder) 767 Pine Street

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767 Pine Street

The first building on the property was small residential building constructed in the early 1880s. The building was square in plan and set well back from the street, perhaps to take advantage of a lot that was somewhat wider than others on the block. In 1883, the house was advertised as a rooming house. In 1930, Joseph (1894-1961) and Louise Pine rented the property with their two sons, Leslie and Leroy Pine. Joe Pine worked as a truck driver for a draying company. They moved to Myrtle Street in 1938. It was home to Andrew Brown and Mary Alice Jones in 1945, shortly before it was converted into a church. [9]

At the end of 1945, the Mt. Moriah (Mariah) Baptist Church applied to remodel the house at 767 Pine Street for use as a neighborhood church. Reverend R. H. Sims, Jr. was the pastor of the Mt. Moriah Baptist Church. A Black man, he apparently moved from Pittsburg in 1945 in order to establish a Baptist congregation in the neighborhood to serve its Black residents. Research did not reveal details of his biography. Irwin M. Johnson, a prolific Oakland architect best known for residential construction, was hired for the remodel. The modest project appears to have roughly doubled the size of the small house, extending it toward the street. The small church building apparently did not attract the interest of local newspapers, and research has not revealed any historic-era descriptions or photographs. A small building behind the main church was constructed for use as a church school, and at some point a small belfry addition was constructed adjacent to Pine Street. A few years after its establishment, a second church with the same name was started in central Oakland, Rev. Sims may have moved to the new church. [10]

By 1975, the name of the congregation had changed to St. Luke Missionary Baptist Church. The institution appears to have continued to serve the local Black community, although little is known about its history. In 1975, Aristade Green, a local contractor who was also a deacon in the church, stuccoed the front of the building and replaced two of its original windows with aluminum sliding-sash windows; the other sides were later stuccoed as well. Green and his wife Hazel were Louisiana natives who relocated to Oakland after World War II, where Aristade began working as a builder. In the late 1970s, Green constructed a small addition on its north elevation. Later, Oakland-based evangelist Altha Washington was involved with the congregation. Born in Texas in 1897, she married Elliott Washington, who served in World War I and then worked as a Pullman Porter. Although Altha did not call herself a professional minister, she gained some renown as an evangelist and preacher in the 1960s and 1970s. In the mid-1980s, J. W. Morrison was the pastor, apparently a part-time position since he also led a Baptist church in Vallejo. Claude Mason was the pastor in 2019. In 2021, the property appears to be abandoned. [11]

Evaluation:

The National Register of Historic Places (NRHP) and California Register of Historical Resources (CRHR) require that a significance criterion from A-D or 1-4 (respectively) be met for a resource to be eligible.

Criterion A/1: The church at 767 Pine Street is not associated with events that have made a significant contribution to the broad patterns of our history. The property is generally associated with the residential development of the Oakland Point neighborhood in West Oakland and with its Black community. Research has not revealed that the property is significant within that or any other historic context. Therefore, the property is recommended not eligible to the NRHP or CRHR under Criterion A/1.

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[8] "4.3: Cultural and Historic Resources," West Oakland Specific Plan – Draft EIR, 4.3-7; "West Oakland: A Neighborhood Divided," Connect Oakland, 2015, accessed December 1, 2021; Brett Jackson, "Replacing Oakland's Cypress Freeway," *Public Roads* Vol. 61 No. 5, March/April 1998; Angela Rowen, "Black Oakland's Story," A Changing Oakland, 2019, accessed December 2, 2021.

[9] *Oakland Tribune,* "CC- Lost Ration Books," Jan. 24, 1945, 15; *Oakland Tribune,* "Rooms and Boarding," Feb. 10, 1883, 6; *Oakland Tribune,* "Pine, Joseph," Jan. 8, 1961, 36.

[10] *Oakland Tribune,* "Church Building Hearing Booked," Nov. 7, 1945, 7; *Pittsburgh Courier,* "Salutes 20-Year Pastor," Aug. 8, 1964, 16.

[11] *Alameda County Behavioral Health Addendum*, RFP No. 19-10, Addendum No. 1, July 17, 2019.

Primary # ______
HRI # ______
Trinomial ______

Page 8 of 8 *Resource Name or # (Assigned by recorder) 767 Pine Street
*Recorded by Kara Brunzell *Date: November 22, 2021 ☒ Continuation ☐ Update

Criterion B/2: The property is not associated with the life of persons important to our history. The families who lived on the property were not significant contributors to Oakland's development, and research has revealed no important professional accomplishments or lasting impact on local history. Nor do the pastors associated with the church appear to have been historically significant individuals. Therefore, the property lacks the strength of association required for eligibility under Criterion B/2. The property is recommended not eligible to the NRHP or CRHR under Criterion B/2.

Criterion C/3: 767 Pine Street is not significant for its architecture. Originally a modest dwelling, the building has been altered many times over the decades and is not a good example of any historic architectural style. For these reasons, the property is ineligible to the NRHP or CRHR under Criterion C/3.

Criterion D/4: In rare instances, buildings themselves can serve as sources of important information about historic construction materials or technologies and be significant under Criterion D/4. 767 Pine Street is an example of a well-understood type of construction and does not appear to be a principal source of important information in this regard.

The property is recommended not eligible for listing on the NRHP or CRHR and therefore does not qualify as a historical resource under CEQA.

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # ______________________________
HRI # ______________________________
Trinomial ______________________________
NRHP Status Code ______________
Other Listings ______________________________
Review Code __________ Reviewer ______________________ Date __________

*Resource Name or # (Assigned by recorder) 1791 8th Street

P1. Other Identifier: 800 Pine Street

*P2. Location: ☐ Not for Publication ☒ Unrestricted *a. County Sacramento

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad_Date _T__; R __; __ ¼ of Sec __; _____ B.M.

c. Address 1791 8th Street City Oakland Zip 94607

d. UTM: (give more than one for large and/or linear resources) Zone __; ______mE/ ______mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) 6-37-1

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The two-story commercial building, which exhibits elements of Streamline Moderne architecture, has a trapezoidal plan and flat roof. It is clad in enameled metal. Streamline Moderne decorative features are concentrated at the curved northwest corner. Its main entrance faces the corner and is fitted with double metal commercial doors; it is accessed via a wide set of terrazzo steps. The main façade features two columns on either side of the entrance which are wrapped with gold and white square panels; they support a curved Streamline Moderne awning and are flanked with curved windows fitted with glass block. Fenestration consists of steel casement windows fitted with steel security screens on the first floor. The rear (south) elevation, which faces a fenced parking lot, is stuccoed and has a secondary entrance. The stuccoed east elevation has large window openings fitted with glass block. The building is in good condition.

*P3b. Resource Attributes: (List attributes and codes) HP6. 1-3 story commercial building

*P4. Resources Present: ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (View, date, accession #) Photograph 1: 1791 8th Street, west and north elevations, camera facing southeast, November 22, 2021.

*P6. Date Constructed/Age and Sources: ☒ Historic ☐ Prehistoric ☐ Both
1907/1943 Oakland Tribune

*P7. Owner and Address:

*P8. Recorded by: (Name, affiliation, address)
Kara Brunzell
Brunzell Historical
1613 B St
Napa, CA 94559

*P9. Date Recorded: November 22, 2021

*P10. Survey Type: (Describe) Intensive

*P11. Report Citation: (Cite survey report and other sources, or enter "none.") none

*Attachments: NONE ☐ Location Map ☐ Sketch Map ☒ Continuation Sheet ☒ Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (list) ______________

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
BUILDING, STRUCTURE, AND OBJECT RECORD

Primary # ____
HRI # ____

Page 2 of 9

*NRHP Status Code ______________

*Resource Name or # (Assigned by recorder) 1791 8th Street

B1. Historic Name: None

B2. Common Name: 1791 8th Street

B3. Original Use: office/commercial B4. Present Use: commercial

*B5. Architectural Style:

*B6. Construction History: (Construction date, alteration, and date of alterations) Original construction, c1907
Remodeled into current form, 1943

*B7. Moved? ☒ No ☐ Yes ☐ Unknown Date: __________________ Original Location: ______________

*B8. Related Features: __________________

B9. Architect: M. D. Perkins b. Builder: unknown

*B10. Significance: Theme Architecture Area West Oakland

Period of Significance 1943 – 1945 Property Type Office Applicable Criteria A/1

(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

B11. Additional Resource Attributes: (List attributes and codes)

*B12. References:

(See Footnotes)

B13. Remarks:

*B14. Evaluator: Kara Brunzell

*Date of Evaluation: November 22, 2021

(This space reserved for official comments.)

Primary # ____________________
HRI # ____________________
Trinomial ____________________

*Resource Name or # (Assigned by recorder) 1791 8th Street

*Recorded by Kara Brunzell *Date: November 22, 2021 ☒ Continuation ☐ Update

*P3a. Description: (continued):

Photograph 2: 1791 8th Street, east and north elevations, camera facing west, November 22, 2021.

Photograph 3: 1791 8th Street, south and west elevations, camera facing northeast, November 22, 2021.

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
CONTINUATION SHEET

Primary # ______________________
HRI # ______________________
Trinomial ______________________

Page 4 of 9 *Resource Name or # (Assigned by recorder) 1791 8th Street

*Recorded by Kara Brunzell *Date: November 22, 2021 ☒ Continuation ☐ Update


Photograph 4: 1791 8th Street, west elevation, camera facing southeast, November 22, 2021.


Photograph 5: View from 1791 8th Street up Pine Street, camera facing north, November 22, 2021.

Page 5 of 9 *Resource Name or # (Assigned by recorder) 1791 8th Street
*Recorded by Kara Brunzell *Date: November 22, 2021 ☒ Continuation ☐ Update

Photograph 6: View from 1791 8th Street and down Pine Street, camera facing south, November 22, 2021.

B10. Significance (continued):

Oakland

The Oakland area was originally inhabited by Ohlone people. Northern Alameda County was part of Rancho San Antonio, a vast tract of land granted to the Peralta family (who lived in San José) in 1820. Like other Mexican land grant recipients, the Peraltas had difficulty holding onto their land after California entered the United States in 1850. When the Gold Rush brought large numbers of Americans to California in 1849, the East Bay became an important transit station for passengers and cargo. American hunters and fortune-seekers began squatting in the area that would become Oakland. Horace Carpentier was one of these squatters, and after obtaining a lease from the Peralta family incorporated Oakland in 1852. Carpentier received an extremely valuable grant for the use of most of its waterfront at the first meeting of the city trustees.[1]

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Redevelopment was a devastating blow to a community that had been hit hard by the shrinking railroad industry and loss of industrial jobs in the decades following the end of World War II. Redlining meant that West Oakland homeowners were excluded from federally insured mortgages. Of the 137 groceries serving in West Oakland in 1960, just 22 remained by 1980, and many of these businesses had been replaced by liquor stores. Social problems followed disinvestment and redevelopment. Oakland, and particularly West Oakland, was hit hard by the drug epidemics of the 1970s and 1980s, with drugs sold openly on many corners and violence following the drug trade. The large office buildings, hotels, and convention center facilities that brought economic revitalization to downtown Oakland during this era did not bring similar benefits to West Oakland.[7]

The Loma Prieta earthquake in 1989 destroyed a number of historic buildings in Oakland Point and the Cypress Freeway, which collapsed, killing 42 people. Oakland Point residents organized and successfully pushed Caltrans to re-route I-880 around the neighborhood, turning the space previously used by the Freeway into a greenway called the Mandela Parkway. Gentrification due to the Bay Area's tech economy began to affect Oakland in the 1990s and escalated after 2000. An eviction crisis led to unprecedented levels of homelessness in the city, and the Black population has consistently declined in numbers for decades. By 2010, Oakland's Black population was smaller than the white population for the first time since 1970, and by 2020 only about one out of four households in West Oakland was Black.[8]

1791 8th Street

The commercial/office building at 1791 8th Street (800 Pine Street) was originally constructed in 1907 to serve as the West Oakland Athletic Club. A wood-frame building with projecting square window bays on the second floor, only its footprint was retained when it was remodeled to its current form in 1942 by Mac D. Perkins. Mac Dudley Perkins (1897-1989) was an architect and engineer. Born in Colorado, he attended Massachusetts Institute of technology and graduated in 1922. Mac Perkins married Eleanor Hobbs in 1923. They moved to Berkely in the 1924 and had a son, David H. Perkins. Perkins had a practice as consulting engineer in San Francisco. During World War II, he also worked for the Navy. He was part of a team of architects and engineers who designed the Art Deco Monterey County Courthouse, completed in 1943. He won an award as the structural engineer on the Hope Lutheran Church of San Francisco, designed with noted modernist Mario Corbett in 1954. [9]

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[5] Oakland Point District DPR, Oakland Cultural Heritage Survey, August 23, 1990, 39, 50, 53-54; Annalee Allen, *Oakland: A Postcard History* (San Francisco: Arcadia Press, 2005), 9.

[6] Oakland Point District DPR, Oakland Cultural Heritage Survey, August 23, 1990, 39, 50, 53-54; Ariana Bindman, "West Oakland Was Once an Economic Hub for the Bay's Black Community. What Happened?" *Bold Italic*, July 7, 2020.

[7] Mitchell Schwarzer, *Hella Town: Oakland's History of Development and Disruption*, (Berkeley: University of California Press, 2021), 208, 306; Robert Lindsey, "Oakland Fighting Back to end Drug Violence," *New York Times*, October 7, 1984.

[8] "4.3: Cultural and Historic Resources," West Oakland Specific Plan – Draft EIR, 4.3-7; "West Oakland: A Neighborhood Divided," Connect Oakland, 2015, accessed December 1, 2021; Brett Jackson, "Replacing Oakland's Cypress Freeway," *Public Roads* Vol. 61 No. 5, March/April 1998; Angela Rowen, "Black Oakland's Story," A Changing Oakland, 2019, accessed December 2, 2021.

[9] *Oakland Tribune,* "New School Leaders Named," July 28, 1938, 8; *Oakland Tribune,* "Perkins," Oct. 14, 1989, 25; Progressive Architecture, January 1954, 120.

*Resource Name or # (Assigned by recorder) 1791 8th Street

*Recorded by Kara Brunzell *Date: November 22, 2021 ☒ Continuation ☐ Update

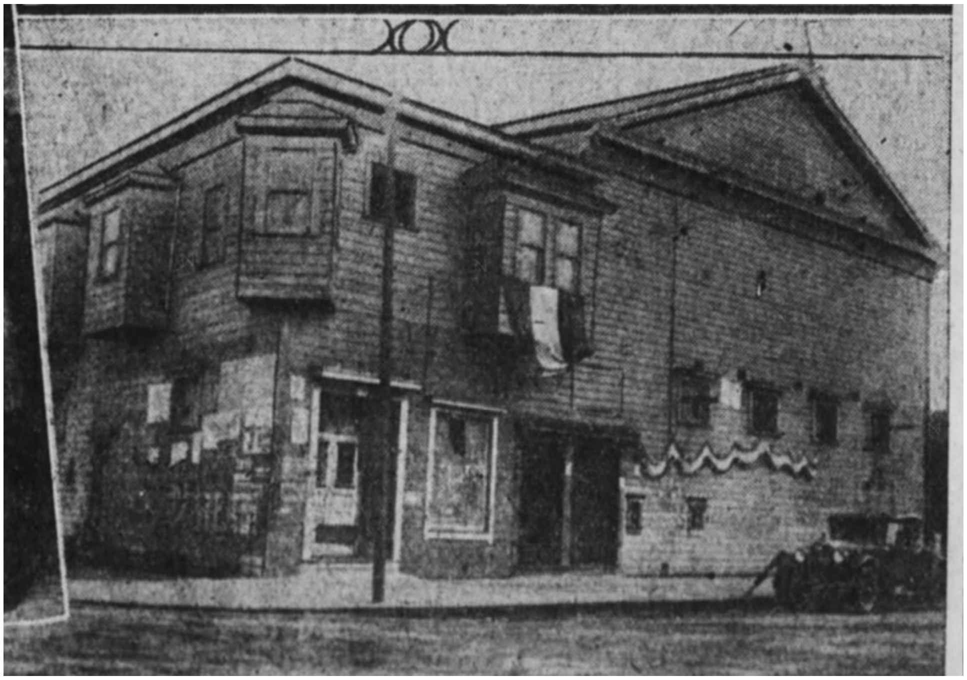


Figure 1: Subject building c1925 prior to being remodeled into its current form (Oakland Tribune).

The building was used by the Independent Iron Works company as an office space. At the time, it was across the street from the company warehouses and manufacturing plant. Independent Iron Works was a steel manufacturing company founded in the 1920s by Henry Gede and William George Meagher. Henry Gede (1893-1979) was born in San Jose and worked at Moore Dry-dock in Oakland as a young man. In 1918, Henry Gede married Valeta Elder. He was co-owner of the Independent Iron Works until he retired in 1954; he died in 1979. William G. Meagher (1894-1973) was born in Port Angeles, Washington and moved to California around 1918. He was married to Jane A. Kelly-Meagher (1898-1963) and they had three sons. His son, William G. Meagher Jr., became vice-president for the Independent Iron Works company, working alongside his father.[10]

The company started out in fairly small facilities on the block bounded by Pine, Eighth, Ninth, and Cedar streets (across the street to the northwest of the subject building). The plant appears to have expanded gradually over the 1930s, and eventually occupied the entire block as well as a warehouse north of Ninth Street. By 1939, the plant had 250 employees. The company fabricated all sorts of steel products: structural steel beams for buildings, bridge girders, and small pre-fabricated buildings like gas stations and restrooms. With US entry into World War II, Independent Iron Works expanded into the war work market, competing with the likes of Bethlehem Steel and Kaiser Steel. It supplied prefabricated parts to at least ten local plants that produced war materiel, and also manufactured its own metal barges. Many of the items it manufactured were for US Navy or Merchant Marine ships including ladders, ships' doors, shelving, and sea chests. [11]

By late 1942, the expanding steel plant across the street had pushed out the old boxing arena at the 1791 8th Street. Its interior had been converted to use as a paint shop, but it was lacking structurally; beams were strengthened and framing added that would allow installation of ribbon bands of steel-sash windows. Floors and partitions were installed to convert the interior to use as Independent Iron Works office headquarters. The project appears to have been completed in 1943. [12]

After the war, Independent Iron Works went back to manufacturing ordinary consumer products, adding new products like barbells. Forty years after the company was started, the Meaghers sold it to Vinnell Steel in 1961. Vinnell Steel, which was based in Irwindale,

---

[10] *Oakland Tribune,* "Obituary: Henry Gede," Feb. 3, 1979, 27; *Oakland Tribune,* "Meagher, William G.," Jan. 11, 1973, 22.

[11] *Oakland Tribune,* "Iron Works Strike Ends in Oakland," Oct.6, 1939, 14.

[12] *Oakland Tribune,* "Old Fight Arena In War Program," Dec 16, 1942, 15.

*Resource Name or # (Assigned by recorder) 1791 8th Street

*Recorded by Kara Brunzell *Date: November 22, 2021 ☒ Continuation ☐ Update

California, was itself acquired by a larger company a few years later. By 1969, the Independent Iron Works plant on Pine Street had been shuttered. The main plant was demolished in the late 1990s. [13]

In the 1980s, the office building was used by the Rich and Famous Theatre Company, started by Diana D. Duffer. More recently, the building has been used as an art studio.[14]

Evaluation:

The National Register of Historic Places (NRHP) and California Register of Historical Resources (CRHR) require that a significance criterion from A-D or 1-4 (respectively) be met for a resource to be eligible.

Criterion A/1: 1791 8th Street is associated with events that have made a significant contribution to the broad patterns of our history. It was the office for Independent Iron Works, a small local steel fabrication company that expanded into war work during World War II. The company played a small but significant role in the production of ships and barges that were used in the US war effort, and is associated with the important role of the East Bay as a locus of the industrial power that underpinned the war effort. 1791 8th Street was used as a paint shop early in the war as the plant was expanding, and then remodeled into its current form to serve as administrative offices for the company in 1943. Its plant, originally located across the street, has been demolished, leaving the office building the only remnant of the company in the built environment. Therefore, the property is recommended eligible to the NRHP and CRHR under Criterion A/1.

Criterion B/2: The property is not associated with the life of persons important to our history. William Meagher and Henry Gede were successful businessmen, but do not appear to have been technical innovators in the steel manufacturing field. Research has revealed no evidence that indicates that either man had a lasting impact on the steel business. Therefore, the property lacks the strength of association required for eligibility under Criterion B/2. The property is recommended not eligible to the NRHP or CRHR under Criterion B/2.

Criterion C/3: 1791 8th Street is significant for its architecture. It is an excellent if rather simple example of Streamline Moderne architecture, a relatively rare style that was popular for only a brief time. Its curved corner at the main entryway with character-defining curved awning and glass block are strong elements of the style. Because of its association with war work, it was constructed in 1943, a time when almost no office or commercial buildings were constructed in the US because of material shortages caused by the war. Furthermore, because its steel-sash windows were in all likelihood fabricated across the street at the Independent Iron Works plant, the architecture of the building is associated with the purpose of the company. For these reasons, the property is eligible to the NRHP and CRHR under Criterion C/3.

Criterion D/4: In rare instances, buildings themselves can serve as sources of important information about historic construction materials or technologies and be significant under Criterion D/4. 1791 8th Street is an example of a well-understood type of construction and does not appear to be a principal source of important information in this regard.

Historic integrity is defined as the authenticity of a property's historic identity, evidenced by the survival of physical characteristics that existed during its historic period. There are seven aspects of integrity: location, design, setting, materials, workmanship, feeling, and association. Loss of integrity, if sufficiently great, overwhelms significance, rendering a property ineligible for historic listing. 1791 8th Street has not been moved and therefore retains integrity of location. The composition of elements that constitute the form, plan, space, structure, and style of the building have not been altered. The building's integrity of materials and workmanship is evident in the survival of original exterior details. The property retains sufficient significant physical characteristics from its original construction to convey its historic qualities and therefore retains integrity of feeling. Continued use as commercial/art studio space allows it to convey integrity of association. Therefore, the building conveys its historic significance through all seven aspects of integrity.

The property is recommended eligible for listing on the NRHP and CRHR and therefore qualifies as a historical resource under CEQA.

---

[13] *Oakland Tribune,* "Independent Iron Works Sold to Vinnell," Apr. 6, 1961, 52.

[14] *Oakland Tribune,* "Rich and Famous Theatre Company," Mar. 10, 1985, 149; *Oakland Tribune,* "Fictitious Business Name Statement," Feb. 7, 1985, 34.

Serial Number: A-305
UTM: 10/561460/4184600
NR: 6

HISTORIC RESOURCES INVENTORY

( ) LISTED ( ) DETERMINED ELIGI
( ) APPEARS ELIGIBLE (X) APPEARS INELIGIB

IDENTIFICATION

1. Common name: None

2. Historic name: Independent Iron Works office

3. Street address: 1791 8TH ST/774-80 PINE ST
Oakland, CA 94607
County: Alameda

4. Parcel Number: 6-37-1-0

5. Present Owner: PHOENIX PROPERTIES
P O BOX 8685
EMERYVILLE CA 94662
Ownership: private

6. Present use: Commerce/business
Original use: Commerce/business

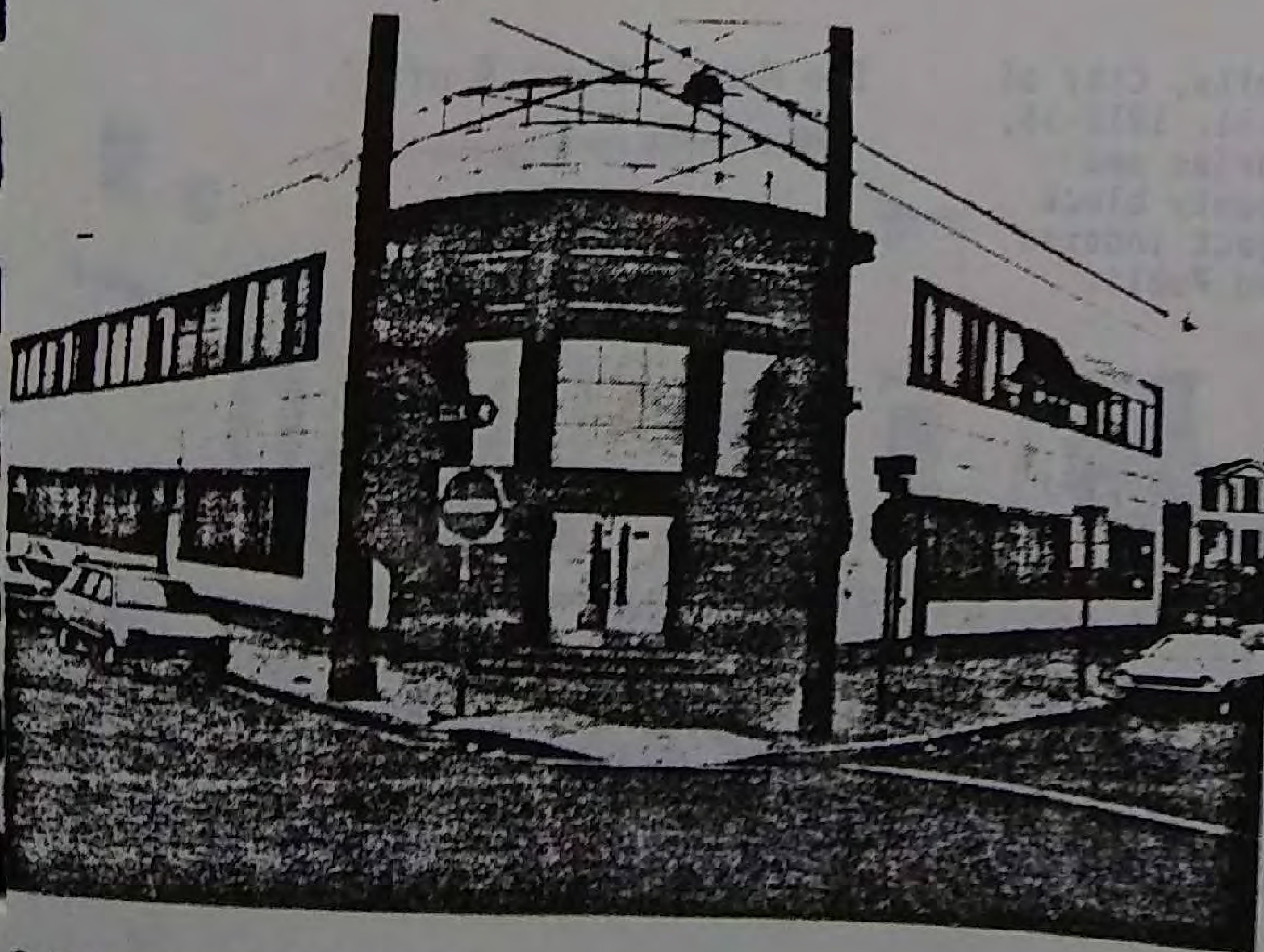
DESCRIPTION

7a. Architectural Style: Streamlined Moderne

7b. Briefly describe the present physical appearance and any major alterations:

1791 8TH ST is a Streamlined Moderne office building, originally Colonial Revival meeting hall. It is two stories, flatiron shape, on a corner lot. It has a flat parapet, monumental entry, and bands of windows. Exterior walls are enameled metal and steel sash. Roof is composition. Foundation is concrete. The building has glass block and terrazzo. Present use is office building. The setting is densely built up, industrial, residential.

Visible alterations include security grilles, awnings. The building is in good condition; its integrity is excellent.



8. Construction Date: 1944-45
incorporating 1907

9. Architect:
M.D. Perkins (engineer)

10. Builder:
unknown

11. Approx. property size (in feet)
Frontage: Depth:
or approx. acreage:

12. Photo number: 492-17
Photo date: 09/04/87

Substitute DPR 523 (Rev 5/90)

13. Condition: good

14. Alterations: security grilles, awnings

15. Surroundings: densely built up, industrial, residential

16. Threats: public works project

17. Is the structure: On its original site? (X) Unknown? ( ) Moved? ( )

18. Related features:

SIGNIFICANCE

19. Briefly state historical and/or architectural importance (include dates, events, and persons associated with the site):

1791 8TH ST, the Independent Iron Works office, is a very good example of a Streamlined Moderne office building, originally Colonial Revival meeting hall. It was built in 1944-45, architect M.D. Perkins (engineer) and builder unknown. It incorporates an earlier one-story wood-frame building constructed in 1907 for the West Oakland Athletic Club. Historically the building reflects industrial development in Oakland, World War II (wartime housing, industries, migrations, postwar building boom), and civic institutions and activities (politics, religion, education, etc.).

Although its architectural integrity has been maintained, this building does not meet the criteria for individual listing on the National Register of Historic Places since it is less than 50 years old and does not appear to be of exceptional importance. It is unlikely to meet the criteria when it does reach 50 years because it appears to lack sufficient design distinction and historical associations. It is not located within a National Register eligible district.

20. Main themes of the historic resource:
Economic/Industrial, Social/Education

Locational Sketch Map:

See Map C, Sheet 9 of 17.

21. Sources:
Building and alteration permits, City of Oakland; Sanborn maps, 1902-11, 1912-35, 1912-51, 1970s; city directories and telephone books; city and county block books; biographical and subject indexes, Oakland History Room, Oakland Public Library.

22. Date form prepared: 08/16/90
By: Staff and Consultants
Org: Oakland Cultural Heritage Survey
One City Hall Plaza
Oakland, CA 94612
Phone: (415) 273-3941

From:	Pries, Shannon@Parks
To:	Janis Offermann
Cc:	David Chen; Klein, Heather; Patrick Sutton; Monty Espino
Subject:	RE: Request For Section 106 Review: The Phoenix Mixed-Use Affordable Housing
Date:	Monday, June 6, 2022 12:13:13 PM

Good afternoon Janis,

Unfortunately, due to an extremely high workload, I was unable to review this project within the 30-day comment period allowed under the Section 106 regulations. Please proceed pursuant to 36 CFR Part 800.3(c)(4) *Failure of the SHPO/THPO to respond.* You can include this correspondence in the environmental record to demonstrate the City Oakland's efforts to consult under Section 106 of the National Historic Preservation Act.

Feel free to contact me directly if you have any questions about this approach.

All the best,
Shannon

Shannon Lauchner Pries
Historian II
Local Government & Environmental Compliance Unit
California Office of Historic Preservation
1725 23rd Street, Suite 100
Sacramento, CA 95816
shannon.pries@parks.ca.gov

From: Janis Offermann <janis@horizonh2o.com>
Sent: Thursday, April 28, 2022 4:40 PM
To: Pries, Shannon@Parks <Shannon.Pries@parks.ca.gov>; OHP, CALSHPO@Parks <CALSHPO.OHP@parks.ca.gov>
Cc: David Chen <david.chen@ebaldc.org>; Klein, Heather <HKlein@oaklandca.gov>; Patrick Sutton <patrick@baseline-env.com>; Monty Espino <mespino@ebaldc.org>
Subject: Request For Section 106 Review: The Phoenix Mixed-Use Affordable Housing

Good afternoon
On behalf of the City of Oakland and the East Bay Asian Local Development Corporation, attached please a request for Section 106 review of the cultural resources study conducted for the proposed Phoenix Mixed-Use Affordable Housing in Oakland, Alameda County, California.

This letter, along with the Cultural Resources Assessment Report prepared for the project, are being sent to you via Hightail, a secure file transfer system due to the large size of the document. Please let me know that you have received the report.

If you have any questions about the project, please contact Heather Klein with the City of Oakland, at (510)
238-3659 or hklein@oaklandca.gov .

Best regards

Janis Offermann, MA, RPA
Cultural Resources Practice Lead
Horizon Water and Environment
1800 7th Street, Suite 100
Sacramento, CA 95811
530.220.4918

From: Corrina Gould
To: David Chen
Cc: Janis Offermann; Patrick Sutton; Matthew Wiswell; Monty Espino
Subject: Re: David Chen and Corrina Gould
Date: Friday, June 17, 2022 2:35:24 PM
Attachments: image001.jpg
image004.jpg

Yes it is completed. Thank you all.

'Uni (Respectfully),

Corrina Gould, Tribal Chair
Confederated Villages of Lisjan Nation

On Wed, Jun 15, 2022 at 2:12 PM David Chen <david.chen@ebaldc.org> wrote:

> Dear Chairperson Gould,
>
> Thank you so much again for taking the time to speak with us today about our Phoenix affordable housing project in West Oakland. Based on our conversation, we are marking the consultation process with the Confederated Villages of Lisjan Tribe as complete. Can you please confirm this by email response?
>
> Very much appreciated,
>
> David
>
> **David Chen**
>
> **Project Manager**
>
> **Pronouns: he/him**
>
> East Bay Asian Local Development Corporation
>
> 1825 San Pablo Ave., Suite 200, Oakland, CA 94612
>
> CELL (516) 708-7880 DIRECT (510) 606-1839 FAX (510) 763-4143
>
> EMAIL david.chen@ebaldc.org WEB www.ebaldc.org

-----Original Appointment-----
From: cvltribe@gmail.com <cvltribe@gmail.com>
Sent: Wednesday, June 1, 2022 11:05 AM
To: cvltribe@gmail.com; David Chen
Subject: David Chen and Corrina Gould
When: Wednesday, June 15, 2022 1:00 PM-1:45 PM (UTC-08:00) Pacific Time (US & Canada).
Where: https://us06web.zoom.us/j/89919141522

You have been invited to the following event.

David Chen and Corrina Gould

When	Wed Jun 15, 2022 1pm – 1:45pm Pacific Time - Los Angeles
Where	https://us06web.zoom.us/j/89919141522 (map)
Calendar	david.chen@ebaldc.org
Who	• cvltribe@gmail.com - organizer • david.chen@ebaldc.org

more details »

Event Name: Consultation

Location: This is a Zoom web conference.

You can join this meeting from your computer, tablet, or smartphone.
https://us06web.zoom.us/j/89919141522

One tap mobile:
+1 301 715 8592,,89919141522#
+1 312 626 6799,,89919141522#

You can also dial in using your phone.
US: +1 301 715 8592, +1 312 626 6799, +1 929 205 6099, +1 253 215 8782, +1 346 248 7799, +1 669 900 6833
Meeting ID: 899-191-41522

Find your local number: https://us06web.zoom.us/u/kbK9zfocIS

Please share anything that will help prepare for our meeting.: Regarding the Phoenix affordable housing project in West Oakland

Need to make changes to this event?
Cancel: https://calendly.com/cancellations/8138bc65-b644-4754-a80a-df02d6b1573c
Reschedule: https://calendly.com/reschedulings/8138bc65-b644-4754-a80a-df02d6b1573c

Powered by Calendly.com

Going (david.chen@ebaldc.org)? **Yes** - **Maybe** - **No** more options »

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APPENDIX H

SOILS

DRAFT

ROCKRIDGE
GEOTECHNICAL

Prepared for **Urban Designs, LLC**

FINAL GEOTECHNICAL INVESTIGATION
THE PHOENIX – PHASE I
9TH AND PINE STREETS
OAKLAND, CALIFORNIA

UNAUTHORIZED USE OR COPYING OF THIS DOCUMENT IS STRICTLY PROHIBITED BY ANYONE OTHER THAN THE CLIENT FOR THE SPECIFIC PROJECT

December 18, 2019
Project No. 17-1404A

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APPENDIX A

APPENDIX B

FINAL GEOTECHNICAL INVESTIGATION
PROPOSED RESIDENTIAL DEVELOPMENT
THE PHOENIX – PHASE I
9th and Pine Streets
Oakland, California

1.0 INTRODUCTION

This report presents the results of the final geotechnical investigation performed by Rockridge Geotechnical, Inc. for Phase I of the proposed development (The Phoenix) to be constructed west of Pine Street between Shorey and 9th streets in Oakland, California. The Phase I parcel occupies the southern portion of the development and is a trapezoidal-shaped parcel with maximum plan dimensions of about 280 by 170 feet, and encompasses an area of about 0.9 acres. The Phase I site is bordered by Pine Street on the southeast, Shorey Street on the south, Frontage Road on the west, and Phase II of The Phoenix development on the north, as shown on Site Location Map, Figure 1 and Site Plan, Figure 2. We previously performed a preliminary geotechnical investigation for the site development, the results of which were presented in our report dated December 29, 2017.

The site is relatively level and is currently occupied by concrete slabs from former warehouse buildings across the entire site. Based on our review of preliminary drawings by David Baker Architects dated August 9, 2019 and our discussions with Urban Designs LLC, we understand the Phase I, will consist of a three- to four-story residential building, a two-story administration building, landscaping areas, and a drive aisle with surface parking along the western site boundary. Both buildings will be constructed at-grade.

Alameda County Department of Environmental Health (ACDEH) is overseeing environmental investigation and cleanup activities at the site under Site Cleanup Program (SCP) case number RO 0003269. Environmental contaminants identified at the site include lead impacted soil in the upper 1 foot and PCE/TCE soil gas (P&D Environmental, 2019).

2.0 SCOPE OF SERVICES

During our preliminary investigation, we explored subsurface conditions by advancing seven cone penetration tests (CPTs) across the Phase I and Phase II sites.

Our final geotechnical investigation was performed in accordance with our proposal October 29, 2019. Our final geotechnical investigation included further exploring subsurface conditions across the entire site (Phase I and Phase II) by advancing an additional 12 CPTs, performing four hand-auger borings, and performing laboratory testing on select soil samples. We used the data collected during our field investigation to perform engineering analyses to develop conclusions and recommendations regarding:

- site seismicity and seismic hazards, including the potential for liquefaction and liquefaction-induced ground failure
- the most appropriate foundation type(s) for the proposed buildings
- design criteria for the recommended foundation type(s), including vertical and lateral capacities
- estimates of static and seismically induced foundation settlement
- rigid and flexible pavement design
- design groundwater level
- subgrade preparation for floor slabs, pavements, and exterior concrete flatwork
- site grading and excavation, including criteria for fill quality and compaction
- 2019 California Building Code (CBC) site class and design spectral response acceleration parameters (mapped values)
- soil corrosivity
- construction considerations.

3.0 FIELD INVESTIGATION AND LABORATORY TESTING

We explored the subsurface conditions at the site by performing cone penetration tests (CPTs) and hand-auger borings. Prior to our field investigation, we:

- Reviewed the soil and groundwater management plan prepared by P&D Environmental[1]
- Obtained a drilling permit from the Alameda County Public Works Agency (ACPWA)
- Contacted Underground Service Alert (USA) to notify them of our work
- Retained a professional utility locator to check that the investigation locations were clear of existing underground utilities
- Cored through the existing concrete slab at investigation locations

Additional details of our field investigations and laboratory testing are presented in this section.

3.1 Cone Penetration Tests

Cone penetration tests were performed across the entire during two mobilizations:

> Preliminary Investigation - Seven CPTs, designated CPT-1 through CPT-7, were advanced on December 4, 2017 by Gregg Drilling and Testing, Inc.
>
> Final (Current) Investigation - Twelve CPTs, designated CPT-8 through CPT-19, were advanced on November 19-20, 2019 by ConeTec, Inc.

CPTs were advanced to depths between 30 and 100 feet below ground surfaces (bgs) at the approximate locations shown on the Site Plan, Figure 2.

The CPTs were performed with a truck-mounted rig hydraulically pushing a 1.7-inch-diameter cone-tipped probe into the ground. The probe measured tip resistance, pore water pressure, and frictional resistance on a sleeve behind the cone tip. Electrical sensors within the cone continuously measured these parameters for the entire depth advanced, and the readings were digitized and recorded by a computer. Accumulated data were processed by computer to provide engineering information such as soil behavior types, correlated strength characteristics, and estimated liquefaction resistance of the soil encountered. Upon completion, the CPT holes were tremie-grouted with neat cement grout in accordance with ACPWA requirements. In addition,

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[1] *Soil and Groundwater Management Plan, County File # RO 3269, Project # 0772*, prepared by P&D Environmental, Inc. and dated December 1, 2017

specialized CPT equipment was used to measure shear wave velocities in CPT-15 and obtain a soil sample from CPT-19 at a depth of approximately 25 feet bgs.

We judge that the results of CPT-6, CPT-7, and CPT-16 through CPT-19 are the most applicable CPTs for Phase I. The logs of these CPTs, showing tip resistance, friction ratio, and pore pressure, as well as interpreted soil behavior type, are presented in Appendix A on Figures A-1 through A-6.

3.2 Hand-Auger Borings and Laboratory Testing

To obtain shallow soil samples we advanced four borings immediately adjacent to CPTs, designated HA-8, HA-9, HA-13, and HA-17, at the approximate locations shown on Figure 2. The borings were advanced to a depth of about 5 feet bgs using a three-inch-diameter hand auger. Soil samples were obtained at approximately one-foot intervals for visual classification and laboratory testing. Soil cuttings were drummed and left on site, and the borings were backfilled with neat cement grout.

In the laboratory, soil samples were tested to measure moisture content, Atterberg limits (plasticity index), fines content, and corrosivity. HA-17 was performed within the Phase I area and is presented in Appendix B on Figure B-1. The soil encountered was classified in accordance with the classification chart shown on Figure B-2. Geotechnical laboratory test results are presented on the boring logs and on Figure B-3. Corrosion test results are presented on Figure B-4.

4.0 SUBSURFACE CONDITIONS AND SITE GEOLOGY

This section summarizes subsurface conditions at the site based on available geologic data from others and subsurface information from this investigation.

4.1 Subsurface Soil Conditions

As presented on Figure 3, the Regional Geologic Map, the site is mapped in a zone of Merritt sand (Qs) (Graymer, 2006). Based on the results of our geotechnical investigation, we conclude that the site is generally underlain by a layer of loose to medium dense sand, which is typically 4 to 7 feet thick. This layer could represent (i) geologically young material, (ii) reworked native material, or (iii) fill and is underlain by Merritt sand. The Merritt sand consists of sand, silty sand, and clayey sand which are typically dense to very dense with occasional medium dense layers. At CPT-16, the Merritt sand extends to a depth of about 63 feet bgs and is underlain by the San Antonio formation. The San Antonio formation typically consists of very stiff to hard clays with occasional interbeds of dense to very dense sand. The San Antonio formation extends to at least 100 feet bgs at the site (at CPT-16), the deepest depth explored. Bedrock is estimated to be about 500 feet bgs (Rogers & Figueres, 1991)

4.2 Groundwater Conditions

Groundwater levels were indirectly measured in CPTs by performing pore-pressure dissipation in CPTs-16, -17, and -19. The measured groundwater levels at the time of testing varied between about 9.5 and 10 feet bgs.

We also reviewed the results of environmental borings performed across the entire site in 1999 by IT Corporation (26 hollow-stem auger borings to approximately 11.5 feet bgs) and in 2018 by P&D Environmental, Inc. (9 hand auger borings to about 11 feet bgs). Groundwater was initially encountered in these borings at depths ranging from about 8 to 10 feet bgs. P&D Environmental noted that the groundwater level was observed to rise to about 6 to 7 feet bgs prior to grouting after being left open for a few hours.

Based on the existing groundwater level data, we conclude a design high groundwater level of 4 feet bgs should be used for design of the project. The groundwater level at the site is expected to fluctuate several feet seasonally with potentially larger fluctuations annually, depending on the amount of rainfall.

5.0 SEISMIC CONSIDERATIONS

The San Francisco Bay Area is considered to be one of the more seismically active regions in the world. We evaluated the potential for earthquake-induced geologic hazards including ground shaking, ground surface rupture, liquefaction,[2] lateral spreading,[3] cyclic densification[4]. The results of our evaluation regarding seismic considerations for the project site are presented in the following sections.

5.1 Regional Seismicity and Faulting

The site is located in the Coast Ranges geomorphic province of California that is characterized by northwest-trending valleys and ridges. These topographic features are controlled by folds and faults that resulted from the collision of the Farallon plate and North American plate and subsequent strike-slip faulting along the San Andreas fault system. The San Andreas fault is more than 600 miles long from Point Arena in the north to the Gulf of California in the south. The Coast Ranges province is bounded on the east by the Great Valley and on the west by the Pacific Ocean.

The major active faults in the area are the Hayward, San Andreas, and Mount Diablo faults. These and other faults of the region are shown on Figure 4. The fault systems in the Bay Area consist of several major right-lateral strike-slip faults that define the boundary zone between the Pacific and the North American tectonic plates. Numerous damaging earthquakes have occurred along these fault systems in recorded time. For these and other active faults within a 50-kilometer radius of the site, the distance from the site and estimated mean characteristic moment

---

[2] Liquefaction is a phenomenon where loose, saturated, cohesionless soil experiences temporary reduction in strength during cyclic loading such as that produced by earthquakes.

[3] Lateral spreading is a phenomenon in which surficial soil displaces along a shear zone that has formed within an underlying liquefied layer. Upon reaching mobilization, the surficial blocks are transported downslope or in the direction of a free face by earthquake and gravitational forces.

[4] Cyclic densification is a phenomenon in which non-saturated, cohesionless soil is compacted by earthquake vibrations, causing ground-surface settlement.

magnitude[5] [Working Group on California Earthquake Probabilities (WGCEP, 2008) and Cao et al. (2003)] are summarized in Table 1.

TABLE 1
Regional Faults and Seismicity

Fault Segment	Approximate Distance from Site (km)	Direction from Site	Mean Characteristic Moment Magnitude
Total Hayward	7.7	East	7.00
Total Hayward-Rodgers Creek	7.7	East	7.33
N. San Andreas - Peninsula	21	West	7.2
N. San Andreas (1906 event)	21	West	8.05
N. San Andreas - North Coast	24	West	7.5
Mount Diablo Thrust	24	East	6.70
Total Calaveras	26	East	7.03
San Gregorio Connected	27	West	7.50
Green Valley Connected	29	East	6.80
Rodgers Creek	33	North	7.07
West Napa	40	North	6.7
Monte Vista-Shannon	42	South	6.50
Greenville Connected	42	East	7.00
Great Valley 5, Pittsburg Kirby Hills	46	East	6.70
Point Reyes	49	West	6.90

In the past 200 years, four major earthquakes (i.e., Magnitude > 6) have been recorded on the San Andreas fault. In 1836, an earthquake with an estimated maximum intensity of VII on the

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[5] Moment magnitude is an energy-based scale and provides a physically meaningful measure of the size of a faulting event. Moment magnitude is directly related to average slip and fault rupture area.

Modified Mercalli (MM) Intensity Scale occurred east of Monterey Bay on the San Andreas fault (Toppozada and Borchardt, 1998). The estimated moment magnitude, M_w, for this earthquake is about 6.25. In 1838, an earthquake occurred on the Peninsula segment of the San Andreas fault. Severe shaking occurred with an MM of about VIII-IX, corresponding to an M_w of about 7.5. The San Francisco Earthquake of 1906 caused the most significant damage in the history of the Bay Area in terms of loss of lives and property damage. This earthquake created a surface rupture along the San Andreas fault from Shelter Cove to San Juan Bautista approximately 470 kilometers in length. It had a maximum intensity of XI (MM), an M_w of about 7.9, and was felt 560 kilometers away in Oregon, Nevada, and Los Angeles. The Loma Prieta Earthquake of October 17, 1989 had an M_w of 6.9 and occurred about 94 kilometers south of the site. On August 24, 2014 an earthquake with an estimated maximum intensity of VIII (severe) on the MM scale occurred on the West Napa fault. This earthquake was the largest earthquake event in the San Francisco Bay Area since the Loma Prieta Earthquake. The M_w of the 2014 South Napa Earthquake was 6.0.

In 1868, an earthquake with an estimated maximum intensity of X on the MM scale occurred on the southern segment (between San Leandro and Fremont) of the Hayward fault. The estimated M_w for the earthquake is 7.0. In 1861, an earthquake of unknown magnitude (probably an M_w of about 6.5) was reported on the Calaveras fault. The most recent significant earthquake on this fault was the 1984 Morgan Hill earthquake ($M_w = 6.2$).

The U.S. Geological Survey's 2014 Working Group on California Earthquake Probabilities has compiled the earthquake fault research for the San Francisco Bay area in order to estimate the probability of fault segment rupture. They have determined that the overall probability of moment magnitude 6.7 or greater earthquake occurring in the San Francisco Region during the next 30 years (starting from 2014) is 72 percent. The highest probabilities are assigned to the Hayward fault, Calaveras fault, and the northern segment of the San Andreas fault. These probabilities are 14.3, 7.4, and 6.4 percent, respectively.

5.2 Geologic Hazards

During a major earthquake on a segment of one of the nearby faults, strong to very strong ground shaking is expected to occur at the project site. Strong shaking during an earthquake can result in ground failure such as that associated with soil liquefaction, lateral spreading, and cyclic densification. We used the results of the borings and CPTs to evaluate the potential of these phenomena occurring at the project site.

5.2.1 Ground Shaking

The ground shaking intensity felt at the project site will depend on: 1) the size of the earthquake (magnitude), 2) the distance from the site to the fault source, 3) the directivity (focusing of earthquake energy along the fault in the direction of the rupture), and 4) subsurface conditions. The site is approximately 8 kilometers from the Hayward fault and 21 kilometers from the San Andreas fault. Therefore, the potential exists for a large earthquake to induce strong to very strong ground shaking at the site during the life of the project.

5.2.2 Liquefaction and Associated Hazards

When a saturated, cohesionless soil liquefies, it experiences a temporary loss of shear strength created by a transient rise in excess pore pressure generated by strong ground motion. Soil susceptible to liquefaction includes loose to medium dense sand and gravel, low-plasticity silt, and some low-plasticity clay deposits. Flow failure, lateral spreading, differential settlement, loss of bearing strength, ground fissures and sand boils are evidence of excess pore pressure generation and liquefaction. The site mapped within a liquefaction hazard zone, as shown on Figure 5 from the map titled *State of California, Seismic Hazard Zones, Oakland West Quadrangle, Official Map*, dated February 14, 2003 and prepared by the California Geological Survey (CGS).

Liquefaction susceptibility was assessed using the software CLiq v3.0.2.4 (GeoLogismiki, 2019). CLiq uses measured field CPT data and assesses liquefaction potential, including post-earthquake vertical settlement, given a user-defined earthquake magnitude and peak ground acceleration (PGA). Our liquefaction analyses were performed using the methodology proposed by Boulanger & Idriss (2014). We used the relationship proposed by Zhang et al. (2002) to estimate post-liquefaction volumetric strains and corresponding ground surface settlement; volumetric strains were then modified using the methodology proposed by Çetin et al. (2009) to account for the depth of the liquefiable layers.

Our analyses were performed using an in-situ groundwater depth of 10 feet bgs and "during earthquake" groundwater depth of 6 feet bgs. In accordance with the 2019 CBC, we used a peak ground acceleration of 0.70 times gravity (g) in our liquefaction evaluation; this peak ground acceleration is consistent with the Maximum Considered Earthquake Geometric Mean (MCE_G) peak ground acceleration adjusted for site effects (PGA_M). We also used a moment magnitude 7.33 earthquake, which is consistent with the mean characteristic moment magnitude for the Hayward fault, as presented in Table 1.

The results of our liquefaction analysis indicate there is are layers of potentially liquefiable material where the upper loose/medium dense sand layer extends below the assumed groundwater table and at a depth of about 26 feet bgs, and is about 2 feet thick. We estimate total "free-field" ground surface settlements associated with liquefaction (referred to as post-liquefaction reconsolidation) within these layers after a major event on a nearby fault will be less than about 1/2 inch,. with differential settlements of about 1/4 inch over a horizontal distance of 30 feet.

Considering the depth and plasticity of the potentially liquefiable soil layers, we conclude the risk of lateral spreading is low.

5.2.3 Cyclic Densification

Cyclic densification (also referred to as differential compaction) of non-saturated sand (sand above groundwater table) can occur during an earthquake, resulting in settlement of the ground surface and overlying improvements. The loose to medium dense undocumented fill material in the upper 5 to 6 feet of the site is potentially susceptible to cyclic densification. We estimate up to 2 inches of ground surface settlement where this layer is not improved or removed, as discussed further in Section 6.1.

5.2.4 Fault Rupture

Historically, ground surface displacements closely follow the trace of geologically young faults. The site is not within an Earthquake Fault Zone, as defined by the Alquist-Priolo Earthquake Fault Zoning Act, and no known active or potentially active faults exist on the site. We therefore conclude the risk of fault offset at the site from a known active fault is very low. In a seismically active area, the remote possibility exists for future faulting in areas where no faults previously existed; however, we conclude the risk of surface faulting and consequent secondary ground failure from previously unknown faults is also very low.

6.0 DISCUSSION AND CONCLUSIONS

From a geotechnical standpoint, we conclude the site can be developed as planned, provided the recommendations presented in this report are incorporated into the project plans and specifications and implemented during construction. The primary geotechnical concerns at the site are the presence of 5 to 7 feet of loose to medium dense sand blanketing the site, some of which may consist of undocumented fill, and providing adequate foundation support for the proposed building. These and other geotechnical issues as they pertain to the proposed development are discussed in the remainder of this section.

6.1 Foundations and Settlement

The results of field investigation indicate the site is blanketed by 5 to 7 feet of loose to medium dense sand. If the proposed buildings supported on this layer in its current condition, we conclude the buildings may experience erratic performance due to the inherent variability of these materials and the potential for excessive settlement under static and seismic load conditions. To create a more homogeneous subgrade that will provide uniform support for the proposed improvements, we conclude the upper layer of loose/medium dense sand should be over-excavated, moisture-conditioned, blended, and recompacted. This will require removing the upper 5 feet (as measured from existing grades) of soil across the proposed building pads, scarifying, moisture-conditioning, and compacting the exposed base of overexcavation, and replacing the material as a well-compacted engineered fill. Recompaction (densification) of the undocumented loose to medium dense soil blanketing the site will reduce the amount of anticipated settlement under static loads, as well as the cyclic densification settlement discussed in Section 5.2.3.

As an alternative to over-excavation and recompaction, the buildings may be supported on a shallow foundation provided that the upper layer of soil is otherwise improved (such as through Rapid Impact Compaction [RIC] ground improvement method) or deepened footings are used to bear below the upper layer.

RIC utilizes a track-mounted machine that imparts energy by dropping an approximately 7.5-ton weight from a controlled height of about three feet onto a patented foot. The energy is delivered at a rate of 40 to 60 blows per minute. Drop height, number of blows, and penetration per blow are monitored and/or controlled by an on-board data acquisition system. Compaction points are performed on a geometric grid, the spacing of which is determined based on the properties of the soil to be densified.

We conclude that the Merritt sand below the surficial loose/medium dense layer is capable of supporting the proposed structures on a shallow foundation system, such as conventional spread footings, without excessive settlement. Our settlement analyses indicate total and differential settlement of conventional footings bearing on undisturbed native soil or properly engineered fill, designed using the allowable bearing pressures presented in Section 7.2 of this report, will be less than 1 inch and to the order of a 1/2 inch over a 30-foot horizontal distance, respectively.

Other foundation or ground improvement systems could be designed to support the proposed buildings; however, we believe the above options represent the most feasible and economic options for the proposed project. We can provide recommendations for alternative foundations systems on request.

6.2 Construction Considerations

The soil to be excavated consists primarily of sand, which can be excavated with conventional earth-moving equipment such as loaders and backhoes. If concrete debris or former foundation elements are encountered during grading, removal will require equipment capable of breaking concrete, such as a hoe-ram.

Depending on the groundwater table at the time of construction and amount of rain, the over-excavated areas may be subject to disturbance by repeated by heavy equipment loads; this phenomenon could result in severe rutting and pumping of the exposed subgrade. If this behavior is observed, heavy rubber-tired equipment as well as vibratory rollers should be avoided

Excavations that will be entered by workers should be sloped or shored in accordance with CAL-OSHA standards (29 CFR Part 1926). The contractor should be responsible for the construction and safety of temporary slopes. We judge temporary slopes above the groundwater table with a maximum inclination of 1.5:1 (horizontal to vertical) should be stable, provided the slope is not surcharged by adjacent structures, construction equipment, or stockpiled soil.

6.3 Soil Corrosivity

Corrosivity testing was performed by Project X Corrosion of Murrieta, California on soil samples obtained from the near-surface soil during our field investigation from locations HA-9 and HA-13 at a depth of 2.5 and 2 feet bgs, respectively. The test results are presented on Figure B-4. Based on the resistivity test results, the soil samples are classified as mildly corrosive to buried steel. Based on the chloride, sulfide, and sulfate ion concentrations, and pH test results, the soil samples do not present corrosion problems for buried iron, steel, mortar-coated steel and reinforced concrete structures. Accordingly, based on the resistivity test results, any buried iron, steel, cast iron, galvanized steel, and dielectric-coated steel or iron should be properly protected against corrosion.

7.0 RECOMMENDATIONS

Recommendations for site grading, foundation design, and seismic design are presented in this section of the report.

7.1 Site Preparation and Grading

Site demolition should include the removal of existing structures, pavements, underground utilities, and foundations. In addition, any on-site areas that will receive surface improvements, such as asphalt pavement or concrete flatwork, should be overexcavated one foot below existing grade, scarified, moisture-conditioned, and recompacted. The primary purpose of the overexcavation beneath surface improvements is to check for loose fill and buried debris or foundations from previous site development or demolition.

In general, abandoned underground utilities should be removed to the property line or service connections and properly capped or plugged with concrete. Where existing utility lines are outside of the proposed building footprint and will not interfere with the proposed construction, they may be abandoned in-place if allowed by the utility company, provided they are filled with flowable grout or slurry. Voids resulting from demolition activities should be properly backfilled with compacted fill following the recommendations provided later in this section and under the observation of our field engineer.

Fill should consist of on-site soil or imported soil (select fill) that is free of organic matter, contains no rocks or lumps larger than four inches in greatest dimension, has a liquid limit of less than 40 and a plasticity index lower than 12, and is approved by the Geotechnical Engineer. Samples of proposed imported fill material should be submitted to the Geotechnical Engineer at least three business days prior to use at the site. The grading contractor should provide analytical test results or other suitable environmental documentation indicating the imported fill is free of hazardous materials at least three days before use at the site. If this data is not available, up to two weeks should be allowed to perform analytical testing on the proposed imported material.

7.1.1 Subgrade Preparation

After site clearing and demolition is completed, in areas that will receive improvements (i.e. building pad, pavement, and exterior concrete flatwork) or new fill, the soil subgrade exposed by overexcavation (as described above) should be scarified to a depth of at least eight inches, moisture-conditioned, and compacted in accordance with the requirements presented below in Table 2 (Section 7.1.2).

If the over-excavation and re-compaction option is selected to mitigate the loose upper soils blanketing the building pads, as discussed in Section 6.1, the material should be removed down to at least 5 feet below existing grades, or to undisturbed native material, under the direction of our field engineer, moisture-conditioned, placed in 8-inch-thick lifts, and compacted in accordance with the recommendations in Table 2.

7.1.2 Fill Materials and Compaction Criteria

All fill should be placed in horizontal lifts not exceeding eight inches in loose thickness, moisture-conditioned, and compacted in accordance with the requirements provided below in Table 2. Each type of material is described in the following text according to its uses and specifications.

TABLE 2
Summary of Compaction Requirements

Location	Required Relative Compaction (percent)	Moisture Requirement
Clean sand or gravel (All locations)	95+	Near optimum
Building pad – low-plasticity soil	90+	Above optimum
Exterior slabs – low-plasticity soil	90+	Above optimum
Pavements – low-plasticity soil	95+	Above optimum
Pavements - aggregate base	95+	Near optimum
General fill – low-plasticity soil	90+	Above optimum
Utility trench backfill – low-plasticity	90+	Above optimum

Note: Select fill and lime-treated clay are considered low-plasticity soil.

On-site Soil

On-site soil may be used as general fill, provided the material is free of organic matter, contain no rocks or lumps larger than three inches in greatest dimension, and be approved by the Geotechnical Engineer.

Select Fill

Select fill should consist of on-site or imported soil that is free of organic matter, contain no rocks or lumps larger than three inches in greatest dimension, have a liquid limit less than 40 and plasticity index less than 12, and be approved by the Geotechnical Engineer. Samples of proposed select fill material should be submitted to the Geotechnical Engineer at least three business days prior to use at the site.

The grading contractor should provide analytical test results or other suitable environmental documentation indicating the imported fill is free of hazardous materials at least three days before use at the site. If this data is not provided, a minimum of two weeks will be required to perform any necessary analytical testing.

Aggregate Base Material

Imported aggregate base material may be used as general fill, trench backfill (above bedding materials), or as select fill beneath building pad or exterior concrete flatwork. Aggregate base should meet the requirements in the 2015 Caltrans Standard Specifications, Section 26, for Class 2 aggregate base (3/4-inch maximum).

Controlled Low-Strength Material

Controlled low-strength material (CLSM) may be considered as an alternative to fill beneath the building, concrete flatwork, or pavement. CLSM should meet the requirements in the 2015 Caltrans Standard Specifications. It is an ideal backfill material when adequate room is limited or not available for conventional compaction equipment, or when settlement of the backfill must be minimized. No compaction is required to place CLSM. CLSM should have a minimum 28-day unconfined strength of 100 pounds per square inch (psi).

7.1.3 Utility Trench Backfill

Excavations for utility trenches can be readily made with a backhoe. All trenches should conform to the current CAL-OSHA requirements. To provide uniform support, pipes or conduits should be bedded on a minimum of four inches of clean sand or fine gravel. After the pipes and conduits are tested, inspected (if required) and approved, they should be covered to a depth of six inches with sand or fine gravel, which should be mechanically tamped.

Backfill for utility trenches and other excavations is also considered fill, and should be placed and compacted as according to the recommendations previously presented. If imported clean sand or gravel (defined as soil with less than 10 percent fines) is used as backfill, it should be compacted to at least 95 percent relative compaction. Jetting of trench backfill should not be permitted. Special care should be taken when backfilling utility trenches in pavement areas. Poor compaction may cause excessive settlements, resulting in damage to the improvements above the fill.

Foundations for the proposed building should be bottomed below an imaginary line extending up at a 1.5:1 (horizontal:vertical) inclination from the base of the utility trenches running parallel to the foundation. Alternatively, the portion of the utility trench (excluding bedding) that is below the 1.5:1 line can be backfilled with CLSM (see Section 7.1.2 for material requirements). If utility trenches are to be excavated below this zone-of-influence line after construction of the building foundations, the trench walls need to be fully supported with shoring until CLSM is placed.

7.1.4 Drainage and Landscaping

Positive surface drainage should be provided around the building to direct surface water away from foundations and below-grade walls. To reduce the potential for water ponding adjacent to the building, we recommend the ground surface within a horizontal distance of five feet from the building slope down away from the building with a surface gradient of at least two percent in unpaved areas and one percent in paved areas. In addition, roof downspouts should be discharged into controlled drainage facilities to keep the water away from the foundation and below-grade walls.

7.2 Foundation Design

Provided the estimated total and differential settlements presented in Section 6.1 are acceptable, we recommend the proposed buildings may be supported by conventional spread footings bearing on: (i) over-excavated and properly compacted fill, (ii) soil improved via Rapid Impact Compaction, or (iii) deepened footings.

Where the perimeter footing is constructed near a bio-retention area or bio-swale, the footing should be founded below an imaginary line extending up at an inclination of 1.5:1 (horizontal: vertical) from the base of the bio-retention area. Exterior perimeter footings should be bottomed at least 24 inches below the outside grade. Interior footings should be bottomed at least 18 inches below the bottom of the capillary moisture break.

Footings may be designed using an allowable bearing pressure of 4,500 pounds per square foot (psf) for dead-plus-live loads; this value may be increased by one-third for total design loads, which include wind or seismic forces. The recommended allowable bearing pressures for dead-plus-live loads and total loads include factors of safety of at least 2.0 and 1.5, respectively.

Lateral loads may be resisted by a combination of passive pressure on the vertical faces of the footings and friction between the bottoms of the footings and the supporting soil. To compute lateral resistance of footings, we recommend using an equivalent fluid weight (triangular distribution) allowable passive pressure of 300 pounds per cubic foot (pcf). Passive pressure in the upper one foot of soil should be neglected unless confined by a slab or pavement. Frictional resistance should be computed using a base friction coefficient of 0.3. The passive pressure and frictional resistance values have included a factor of safety of at least 1.5 and may be used in combination without reduction.

7.2.1 Deepened Footings

The proposed buildings may be directly supported on spread footings that derive support on firm Merritt sand layer below the loose material blanketing the site. This can be achieved by either bottoming the footings below the loose layer, which typically extends 5 to 7 feet below existing grades, or by over-excavating the loose native soil and/or undocumented fill and placing CLSM up to the design bottom-of-footing elevation.

7.2.2 Rapid Impact Compaction

We judge it is feasible to densify the upper loose soil layers in-situ by using Rapid Impact Compaction (RIC). RIC is generally suitable for densifying granular soils within 10 to 15 feet of the ground surface. Because of existing improvements surrounding the site, vibrations should be monitored, and setback from improvements should be established.

Prior to performing the production RIC at the site, a pilot-testing program should be performed to confirm the effectiveness of the proposed RIC spacing and number of passes. We should choose the locations of the test sections and review the ground improvement contractor’s submittal for the proposed test sections. CPTs should be performed before and after the testing program to quantitatively evaluate the improvement. In addition, we recommend time be included in the construction schedule for a second round of pilot-testing for a different spacing or pattern in the event the first round does not show adequate improvement. Improved soil between compaction locations should have a normalized cone tip resistance (Q_{tn}) of at least 100 in order to mitigate the potential for large and erratic settlements in the upper 5 to 7 feet of soil.

Where RIC is performed, it will cause uneven settlement of the ground surface. Consequently, fill will be required to raise site grades in these locations. Our experience at similar sites indicates that about 1 foot of fill may be required as a result for the RIC operation.

7.3 Floor Slabs

If the proposed buildings will include a concrete floor slab, the floor slabs may consist of conventional slabs-on-grade. Where water vapor transmission through the floor slab is undesirable, we recommend installing a capillary moisture break and a water vapor retarder beneath the slab-on-grade. A vapor retarder and capillary moisture break are typically not required beneath parking garage slabs because there is sufficient air circulation to allow evaporation of moisture that is transmitted through the slab; however, we recommend the vapor retarder and capillary break be installed below the slab-on-grade in utility rooms and any areas in or adjacent to the parking garage that will be used for storage and/or will receive a floor covering or coating.

A capillary moisture break consists of at least four inches of clean, free-draining gravel or crushed rock. The vapor retarder should meet the requirements for Class B vapor retarders stated in ASTM E1745. The vapor retarder should be placed in accordance with the requirements of ASTM E1643. These requirements include overlapping seams by six inches, taping seams, and sealing penetrations in the vapor retarder. The particle size of the capillary break material should meet the gradation requirements presented in Table 3.

TABLE 3

Gradation Requirements for Capillary Moisture Break

Sieve Size	Percentage Passing Sieve
1 inch	90 – 100
3/4 inch	30 – 100
1/2 inch	5 – 25
3/8 inch	0 – 6

The concrete slabs should be properly cured. Concrete mixes with high water/cement (w/c) ratios result in excess water in the concrete, which increases the cure time and results in excessive vapor transmission through the slab. Therefore, concrete for the slabs should have a low w/c ratio - less than 0.45. Water should not be added to the concrete mix in the field. If necessary, workability should be increased by adding plasticizers. Before floor coverings are placed on the mat or on slab-on-grade floors, the contractor should check that the concrete surface and the moisture emission levels (if emission testing is required) meet the manufacturer's requirements.

7.4 Site Retaining Walls

Site retaining walls should be designed to resist lateral earth pressures imposed by the retained soil, as well as a surcharge pressure from nearby foundations and vehicles, where appropriate. Where permanent retaining walls will be restrained from movement at the top (i.e. retaining walls with 90-degree angle turn), they should be designed for at-rest conditions. Walls retaining more than 6 feet of soil should be designed to resist seismic forces. We recommend restrained below-grade walls at the site be designed for the more critical of the following criteria:

- At-rest equivalent fluid weight of 60 pcf above the design groundwater table and 91 pcf below.
- Active pressure of 40 pcf plus a seismic increment of 20 pcf (triangular distribution) above the design groundwater level, and 82 pcf plus a seismic increment of 10 pcf (triangular distribution) below.

We recommend restrained walls be designed using an at-rest equivalent fluid weight of 60 pcf. Retaining walls that are unrestrained at the top should be designed for active conditions using an active equivalent fluid weight of 40 pcf. Where there will be passenger vehicular traffic behind the top of a permanent wall within a horizontal distance equal to 1.5 times the height of the wall, the wall should be designed for vehicular surcharge of 50 psf over the entire wall height. Higher surcharge pressures may be required, if garbage truck or fire truck loading is anticipated behind the walls. Where existing foundations are supported above a “zone-of-influence” line extending up from a permanent wall at an inclination of 1.5:1 (horizontal:vertical), the wall should be designed for a surcharge pressure—we can evaluate the design surcharge pressure on a case-by-case basis, if needed.

The design earth pressures recommended above are applicable to drained soil conditions. Although the permanent walls will likely be above the groundwater level, water can accumulate behind the walls from other sources, such as rainfall, irrigation, and broken water lines. All retaining walls designed using the recommended earth pressures presented above should be backdrained. One acceptable method for backdraining a retaining wall is to place a prefabricated drainage panel against the back of the wall. The drainage panel should extend down to a perforated PVC collector pipe at the base of the wall. The pipe should be surrounded on all sides by at least four inches of Caltrans Class 2 permeable material or 3/4-inch drain rock wrapped in filter fabric (Mirafi NC or equivalent). A proprietary, prefabricated collector drain system, such as Tremdrain Total Drain, AdvanEdge, or Hydroduct Coil, designed to work in conjunction with the drainage panel may be used in lieu of the perforated pipe surrounded by gravel described above. The pipe should be sloped to drain by gravity to a suitable outlet.

7.5 Pavement Design

Design recommendations for asphalt concrete and Portland cement concrete pavements and concrete pavers are presented in the following sections.

7.5.1 Flexible (Asphalt Concrete) Pavement Design

The State of California flexible pavement design method was used to develop the recommended asphalt concrete pavement sections. For pavement design, we assumed a resistance value (R-value) of 30, which is appropriate for the relatively clean sand at the site. Recommended pavement sections for traffic indices ranging from 4.5 to 7.5 are presented in Table 4.

TABLE 4
AC Pavement Sections

TI	Asphaltic Concrete (inches)	Class 2 Aggregate Base R = 78 (inches)
4.5	2.5	5.5
5.0	3.0	5.5
5.5	3.0	7.0
6.0	3.5	7.5
6.5	4.0	8.0
7.0	4.0	9.5
7.5	4.5	10

The upper eight inches of the subgrade and any material placed as part of the required overexcavation should be moisture-conditioned and compacted in accordance with requirements presented in Table 2 in Section 7.1. The aggregate base should be moisture-conditioned to near optimum and compacted to at least 95 percent relative compaction.

Where pavements are adjacent to irrigated landscaped areas, curbs adjacent to those areas should extend through the aggregate base and at least three inches into the underlying soil to reduce the potential for irrigation water to infiltrate into the pavement section. Where pavements are adjacent to storm water treatment facilities, such as bio-swales, flow-through planters, or bio-retention basins, or any other landscaped areas in which a significant thickness of loose, uncompacted soil will be present, the curbs may need to extend deeper.

7.5.2 Rigid (Portland Cement Concrete) Pavement

Concrete pavement design is based on a maximum single-axle load of 20,000 pounds and a maximum tandem axle load of 32,000 pounds and light truck traffic (i.e., a few trucks per week). The recommended rigid pavement section for these axle loads is five inches of Portland cement concrete over six inches of Class 2 aggregate base. Where fire truck traffic is expected, the pavement section should consist of six inches of Portland cement concrete over six inches of Class 2 aggregate base. .

The modulus of rupture of the concrete should be at least 500 psi at 28 days. Contraction joints should be constructed at maximum spacing of 12.5 and 15 feet for 5-inch-thick and 6-inch-thick pavement sections, respectively. Where the outer edge of a concrete pavement meets asphalt concrete pavement, the concrete slab should be thickened by 50 percent at a taper not to exceed a slope of 1 in 10. For areas that will receive weekly garbage truck traffic, we recommend the slab be reinforced with a minimum of No. 4 bars at 16-inch spacing in both directions. Recommendations for subgrade preparation and aggregate base compaction for concrete pavement are the same as those described above for asphalt concrete pavement.

7.6 Seismic Design

We anticipate that the proposed buildings will be designed under the 2019 version of the California Building Code (CBC), which is based on the guidelines contained within *ASCE 7-16*. The latitude and longitude of the site are 37.8091° and -122.3035°, respectively. Measured shear wave velocities at the site are consistent with Site Class D classification. Therefore, we recommend Site Class D be used for structural design of the buildings.

Assuming the seismic response coefficient (C_S) value will be calculated as outlined in *ASCE 7-16*, *Section 11.4.8, Exception 2*, we recommend the following seismic design parameters:

- $S_S = 1.500g$, $S_1 = 0.600g$
- $F_a = 1.0$, $F_v = 1.7$

- S_{MS} = 1.50g, S_{M1} = 1.020g
- S_{DS} = 1.00g, S_{D1} = 0.680g
- Seismic Design Category D for Risk Factors I, II, and III

In lieu of adjusting the C_s value, our scope can be revised to include a site-specific ground motion hazard analysis, if desired from a structural engineering standpoint.

8.0 GEOTECHNICAL SERVICES DURING CONSTRUCTION

Prior to construction, Rockridge Geotechnical, Inc. should review the project plans and specifications to verify that they conform to the intent of our recommendations. During construction, our field engineer should provide on-site observation and testing during site preparation, placement and compaction of fill, and installation of foundations. These observations will allow us to compare actual with anticipated soil conditions and to verify that the contractor's work conforms to the geotechnical aspects of the plans and specifications.

9.0 LIMITATIONS

This geotechnical study has been conducted in accordance with the standard of care commonly used as state-of-practice in the profession. No other warranties are either expressed or implied. The recommendations made in this report are based on the assumption that the subsurface conditions do not deviate appreciably from those disclosed in the test borings and CPTs. If any variations or undesirable conditions are encountered during construction, we should be notified so that additional recommendations can be made. The foundation recommendations presented in this report are developed exclusively for the proposed development described in this report and are not valid for other locations and construction in the project vicinity.

REFERENCES

2019 California Building Code (CBC)

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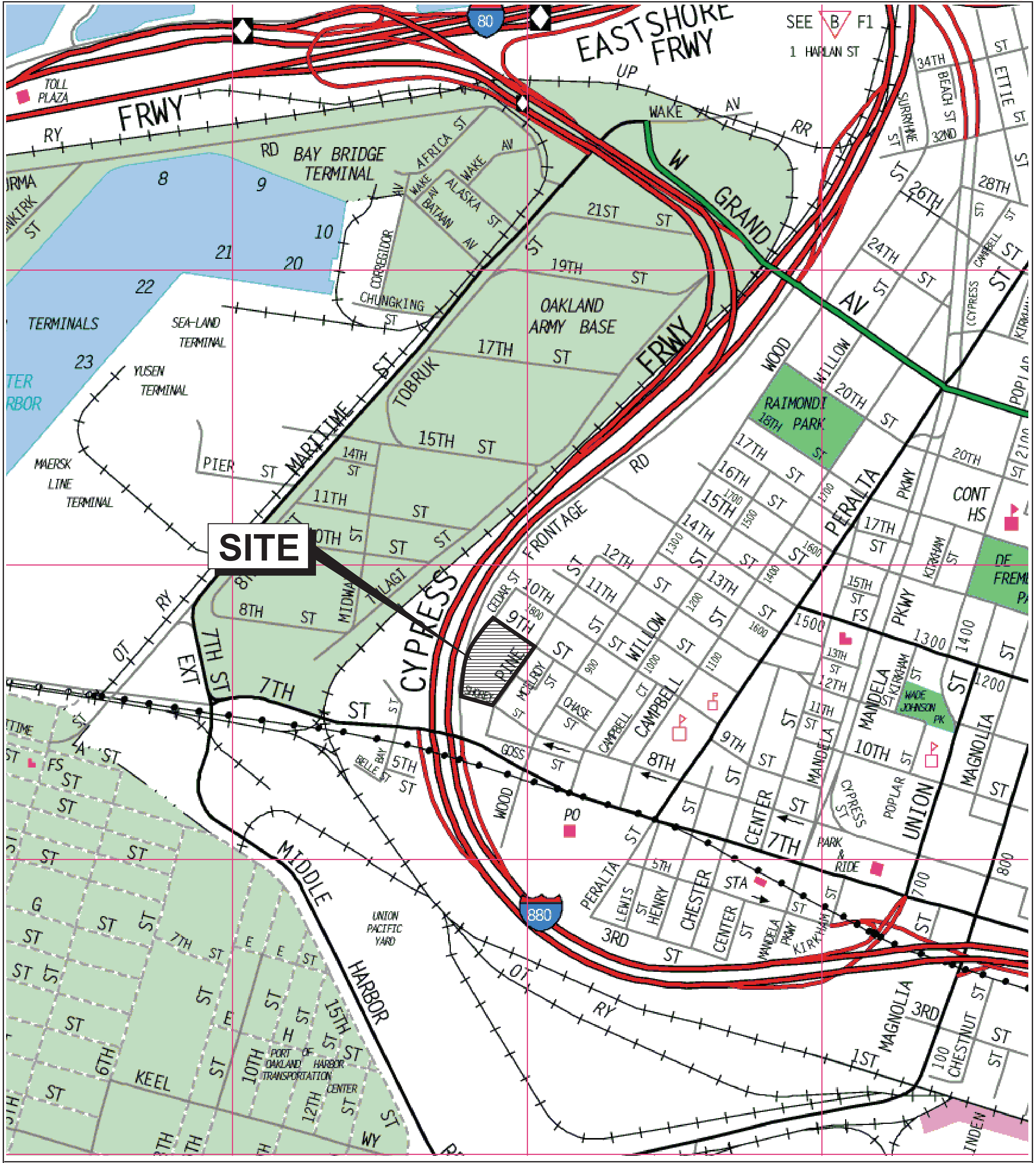
FIGURES

DRAFT



Base map: The Thomas Guide
Alameda County
2002

0 1/4 1/2 Mile

Approximate scale

THE PHOENIX
9TH & PINE STREET
Oakland, California

ROCKRIDGE
GEOTECHNICAL

SITE LOCATION MAP

Date 12/12/19 | Project No. 17-1404 | Figure 1

DRAFT

EXPLANATION

HA-8 ⌖	Approximate location of hand auger by Rockridge Geotechnical Inc., November 20, 2019
CPT-8 ▲	Approximate location of cone penetration test by Rockridge Geotechnical Inc., November 19 & 20, 2019
CPT-1 ●	Approximate location of cone penetration test by Rockridge Geotechnical Inc., December 4, 2017
OAK-102 ⌖	Approximate location of cone penetration test by U.S. Geologic Survey, August 2001
— - —	Overall Project Limits
- - - -	Phase I Limits
——	Approximate locations of proposed buildings

0 100 Feet

Approximate scale

Base map: Google Earth, 2017.

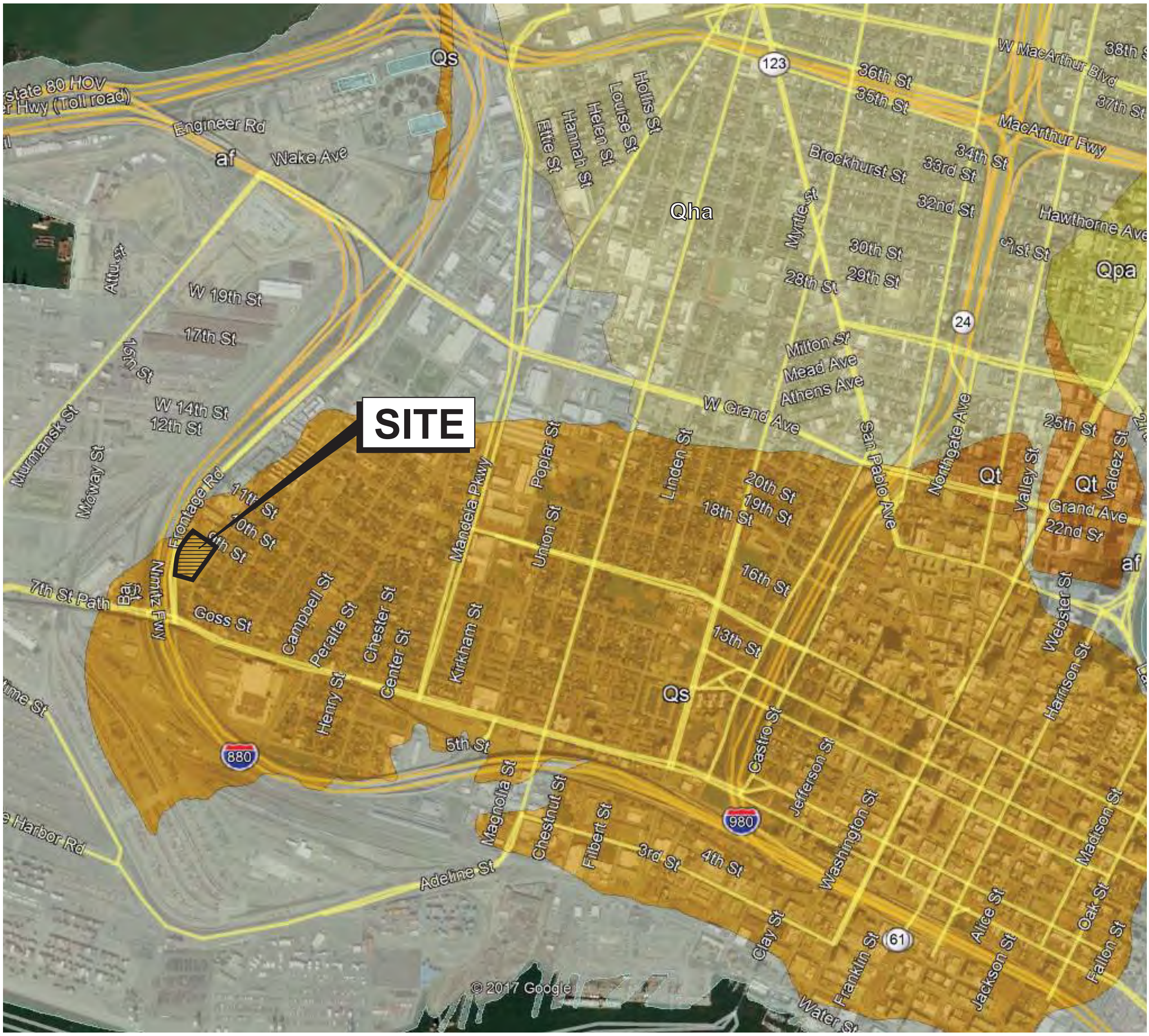
THE PHOENIX
9TH & PINE STREET
Oakland, California

SITE PLAN

Date 12/16/19	Project No. 17-1404	Figure 2

ROCKRIDGE
GEOTECHNICAL

DRAFT

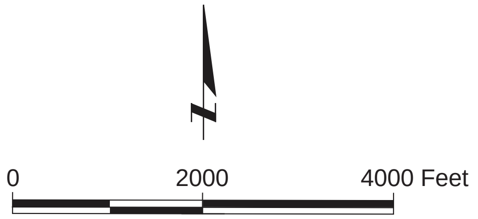


Base map: Google Earth with U.S. Geological Survey (USGS), Alameda County, 2016.

EXPLANATION

af	Artificial Fill
Qha	Alluvium (Holocene)
Qs	Beach and dune sand (Quaternary)
Qpa	Alluvium (Pleistocene)
Qt	Marine terrace deposits (Pleistocene)

Geologic contact: dashed where approximate and dotted where concealed, queried where uncertain



Approximate scale

THE PHOENIX
9TH & PINE STREET
Oakland, California

ROCKRIDGE
GEOTECHNICAL

REGIONAL GEOLOGIC MAP

Date 12/12/19 | Project No. 17-1404 | Figure 3

DRAFT

Base Map: U.S. Geological Survey (USGS), National Seismic Hazards Maps - Fault Sources, 2008.

EXPLANATION

🟥 Strike slip

■ Thrust (Reverse)

🟦 Normal

0 5 10 Miles

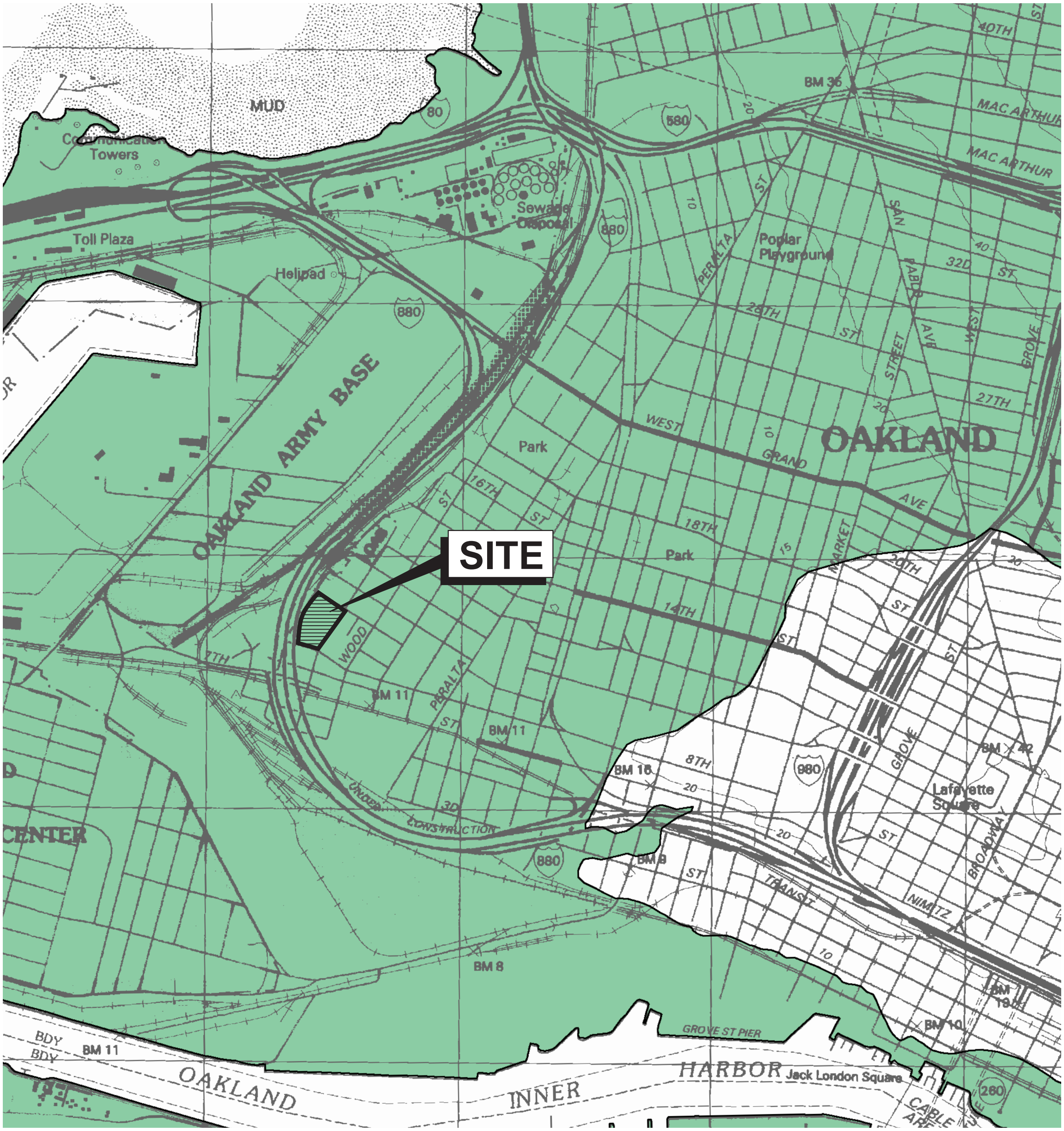
Approximate scale

THE PHOENIX
9TH & PINE STREET
Oakland, California

ROCKRIDGE GEOTECHNICAL

REGIONAL FAULT MAP

Date 12/12/19	Project No. 17-1404	Figure 4



EXPLANATION

🟩 **Liquefaction;** Areas where historic occurence of liquefaction, or local topographic, geological, geotechnical, and subsurface water conditions indicate a potential for permanent ground displacements.

🟦 **Earthquake-Induced Landslides;** Areas where previous occurence of landslide movement, or local topographic, geological, geotechnical, and subsurface water conditions indicate a potential for permanent ground displacements.

0 2,000 4,000 Feet

Approximate scale

Reference:
State of California "Seismic Hazard Zones"
Oakland West Quadrangle.
Released on February 14, 2003

THE PHOENIX
9TH & PINE STREET
Oakland, California

ROCKRIDGE
GEOTECHNICAL

SEISMIC HAZARDS ZONE MAP

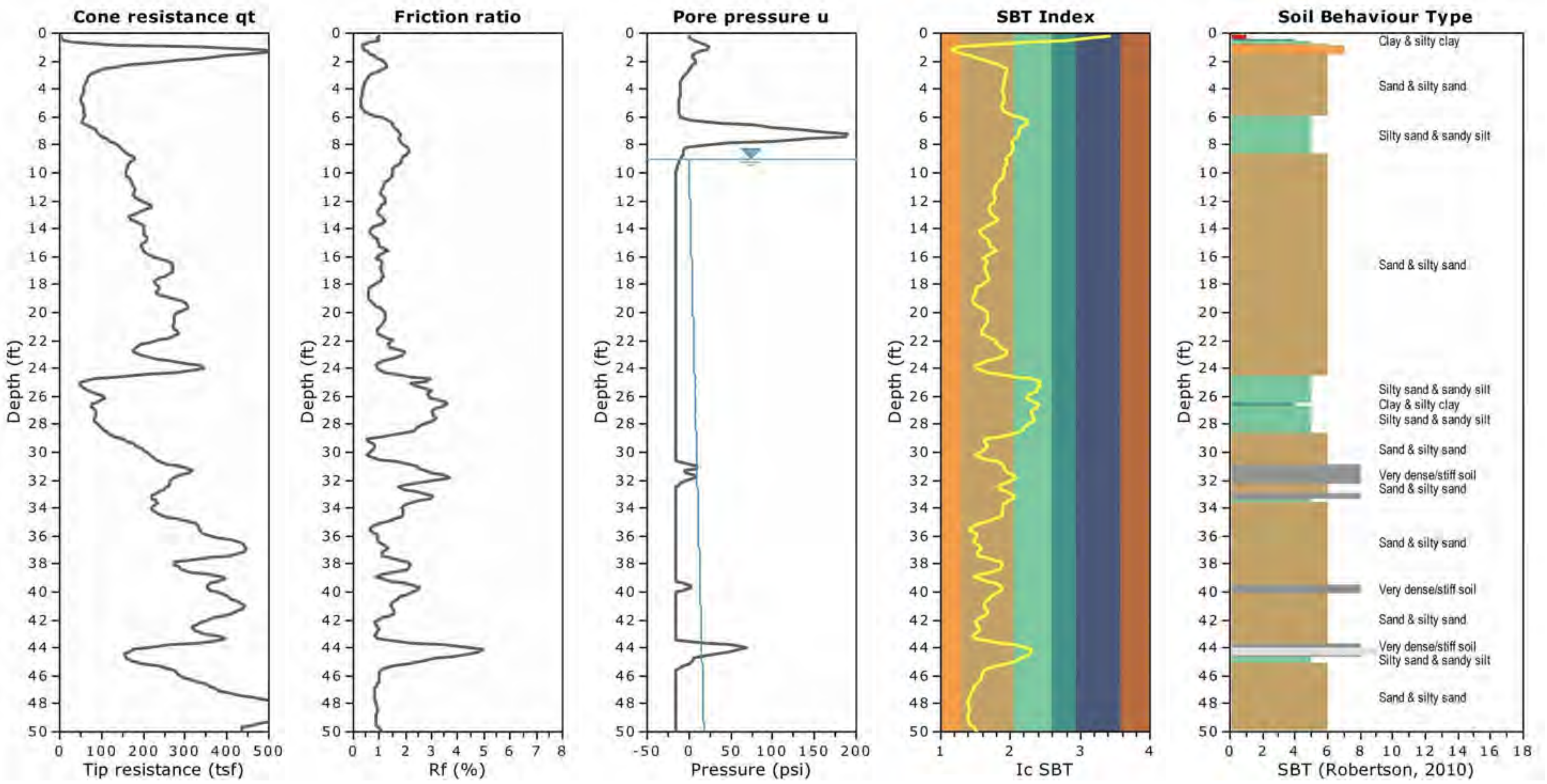
Date 12/12/19 | Project No. 17-1404 | Figure 5

ROCKRIDGE
GEOTECHNICAL

APPENDIX A

Cone Penetration Test Results

DRAFT



SBT legend

🟥 1. Sensitive fine grained	🟦 4. Clayey silt to silty clay	🟧 7. Gravely sand to sand
🟫 2. Organic material	🟩 5. Silty sand to sandy silt	⬛ 8. Very stiff sand to clayey sand
🟦 3. Clay to silty clay	🟨 6. Clean sand to silty sand	⬜ 9. Very stiff fine grained

Total depth: 50.03 ft, Date: 12/04/2017
Estimated Groundwater Depth: 9 feet bgs
Cone Operator: Gregg Drilling Inc.

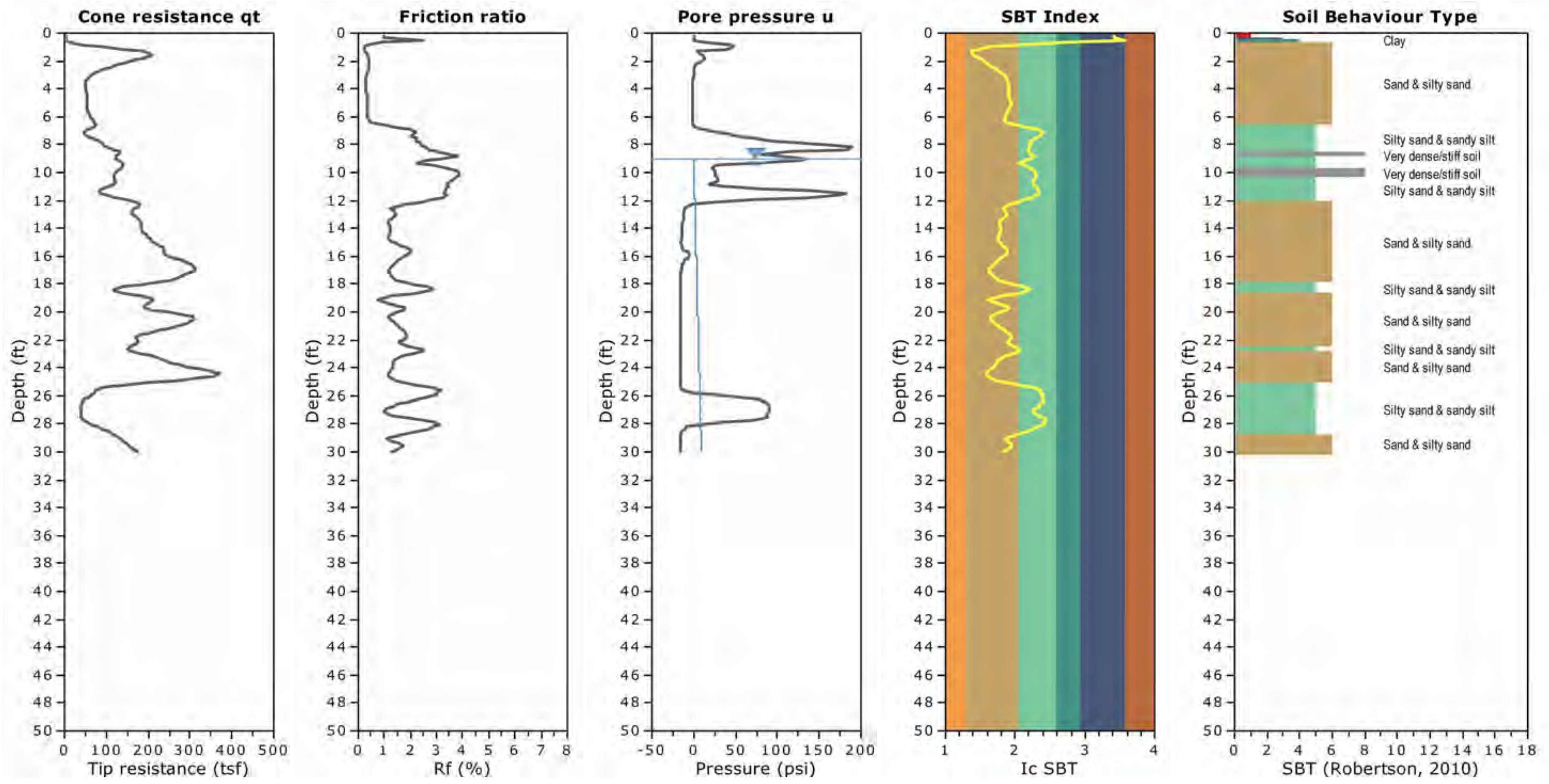
THE PHOENIX
9TH & PINE STREET
Oakland, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-6

Date 12/12/19 | Project No. 17-1404 | Figure A-1

DRAFT



SBT legend

🟥 1. Sensitive fine grained
🟫 2. Organic material
🟦 3. Clay to silty clay
🟩 4. Clayey silt to silty clay
🟩 5. Silty sand to sandy silt
🟫 6. Clean sand to silty sand
🟧 7. Gravely sand to sand
⬛ 8. Very stiff sand to clayey sand
⬜ 9. Very stiff fine grained

Total depth: 30.02 ft, Date: 12/04/2017
Estimated Groundwater Depth: 9 feet bgs
Cone Operator: Gregg Drilling Inc.

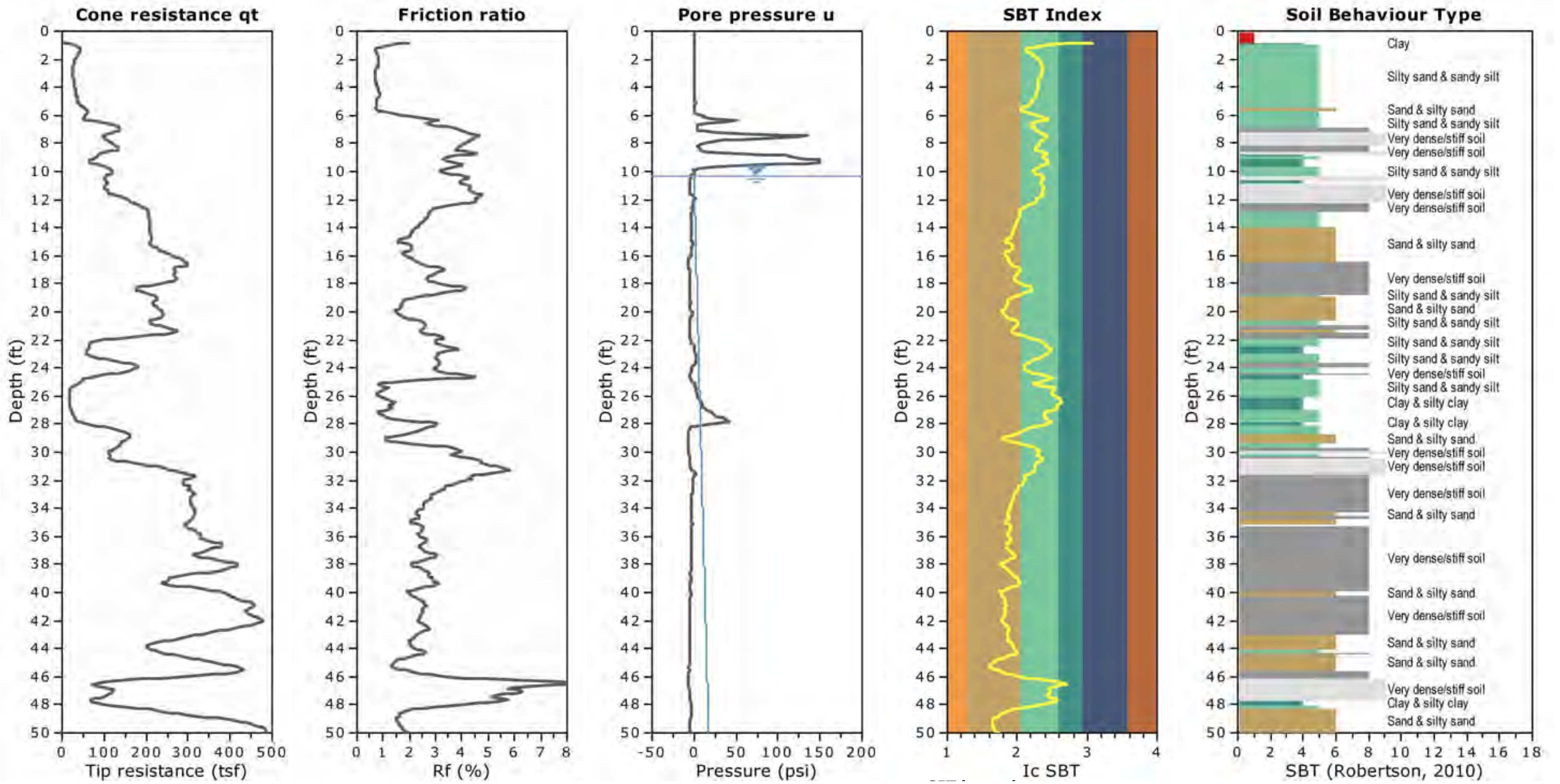
THE PHOENIX
9TH & PINE STREET
Oakland, California

ROCKRIDGE
GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-7

Date 12/12/19	Project No. 17-1404	Figure A-2

DRAFT



Total depth: 100.56 ft, Date: 11/19/2019
Estimated Groundwater Depth: 10 feet bgs (PPD)
Cone Operator: ConeTec, Inc.

SBT legend
- 🟥 1. Sensitive fine grained
- 🟫 2. Organic material
- 🟦 3. Clay to silty clay
- 🟩 4. Clayey silt to silty clay
- 🟩 5. Silty sand to sandy silt
- 🟫 6. Clean sand to silty sand
- 🟧 7. Gravely sand to sand
- ⬛ 8. Very stiff sand to clayey sand
- ⬜ 9. Very stiff fine grained

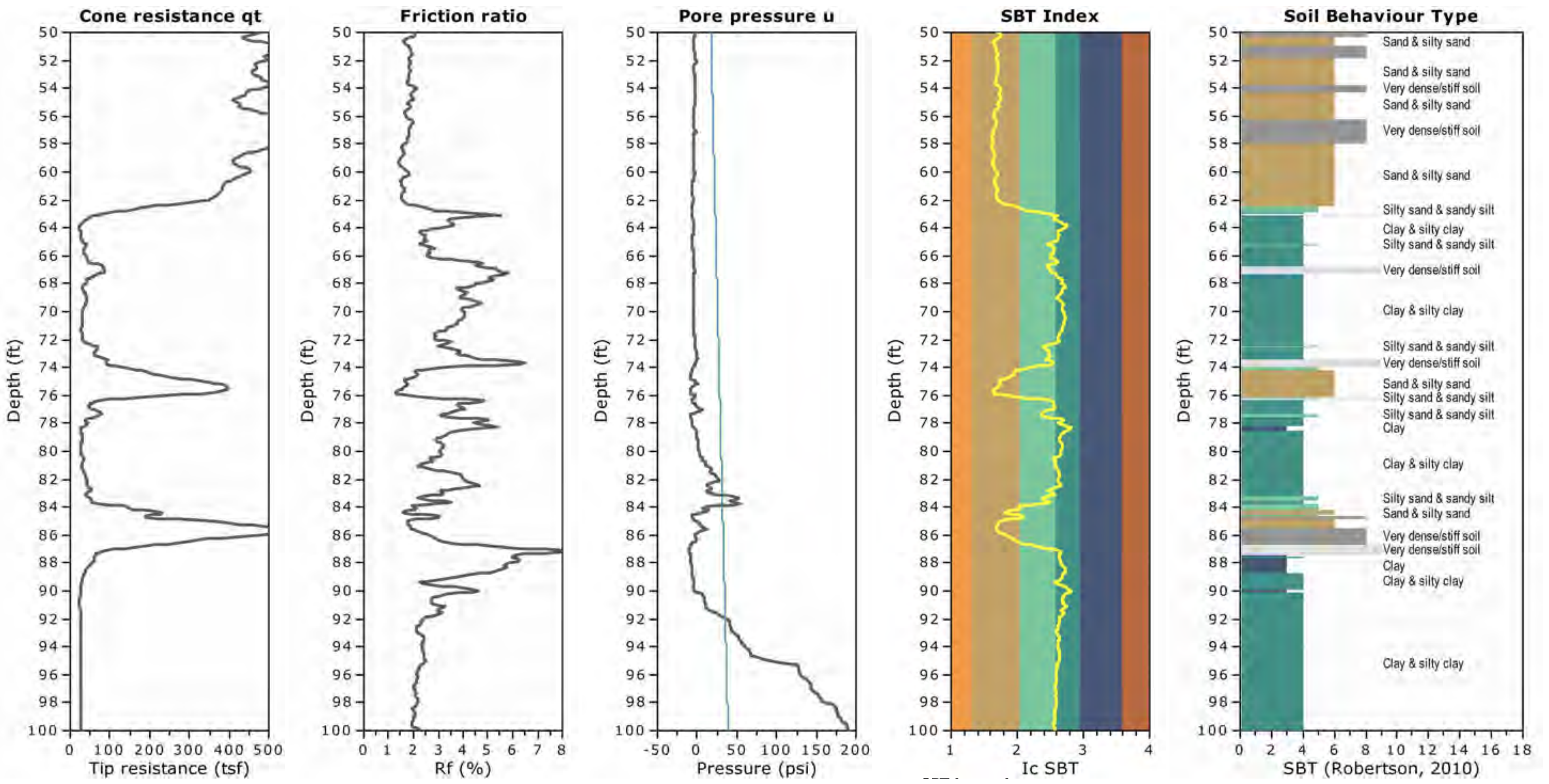
THE PHOENIX
9TH & PINE STREET
Oakland, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-16

Date 12/13/19	Project No. 17-1404	Figure A-3a

DRAFT



SBT legend

🟥 1. Sensitive fine grained	4. Clayey silt to silty clay	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to clayey sand
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained

Total depth: 100.56 ft, Date: 11/19/2019
Estimated Groundwater Depth: 10 feet bgs (PPD)
Cone Operator: ConeTec, Inc.

THE PHOENIX
9TH & PINE STREET
Oakland, California

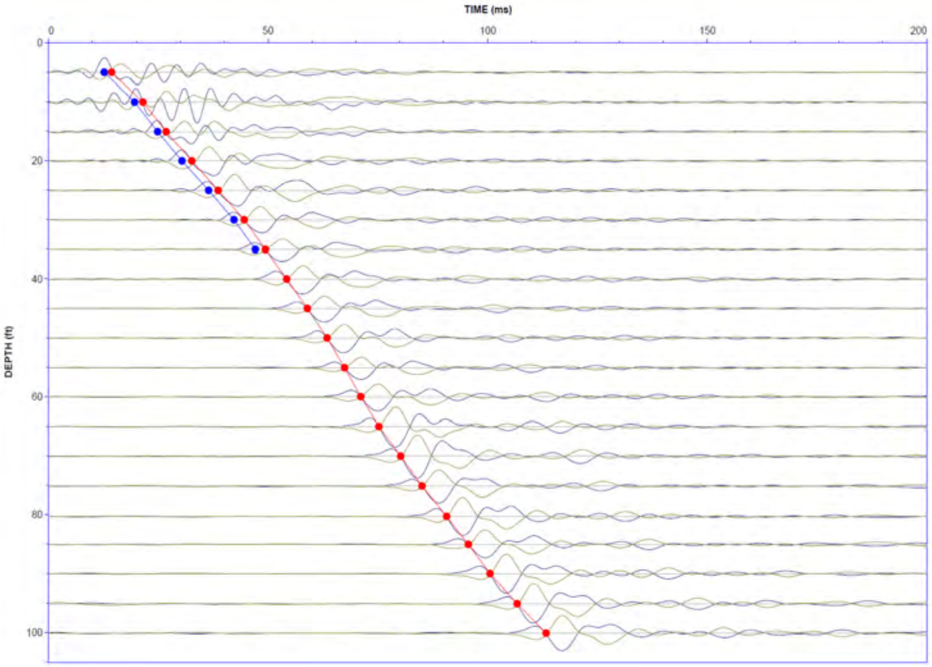
ROCKRIDGE
GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-16

Date 12/13/19	Project No. 17-1404	Figure A-3b

DRAFT

Seismic Source: Beam
Source Offset (ft): 2.10
Source Depth (ft): 0.00
Geophone Offset (ft): 0.66



SCPTu SHEAR WAVE VELOCITY TEST RESULTS - Vs

Tip Depth (ft)	Geophone Depth (ft)	Ray Path (ft)	Ray Path Difference (ft)	Travel Time Interval (ms)	Interval Velocity (ft/s)
5.02	4.36	4.84			
10.01	9.35	9.58	4.74	7.05	673
15.03	14.37	14.52	4.94	5.25	940
20.01	19.36	19.47	4.95	5.70	868
25.03	24.38	24.47	5.00	6.04	827
30.02	29.36	29.44	4.97	5.85	850
35.04	34.38	34.45	5.01	4.85	1032
40.03	39.37	39.43	4.98	4.84	1028
45.01	44.36	44.41	4.98	4.69	1061
50.03	49.38	49.42	5.01	4.49	1117
55.12	54.46	54.50	5.08	3.99	1275
60.04	59.38	59.42	4.92	3.71	1326
65.03	64.37	64.40	4.98	4.12	1208
70.05	69.39	69.42	5.02	4.95	1015
75.13	74.47	74.50	5.08	4.84	1049
80.31	79.66	79.69	5.18	5.61	923
85.07	84.42	84.44	4.76	4.94	963
90.06	89.40	89.43	4.99	4.94	1008
95.08	94.42	94.45	5.02	6.19	811
100.07	99.41	99.43	4.99	6.60	755

Total depth: 100.56 ft, Date: 11/19/2019
Estimated Groundwater Depth: 10 feet bgs (PPD)
Cone Operator: ConeTec, Inc.

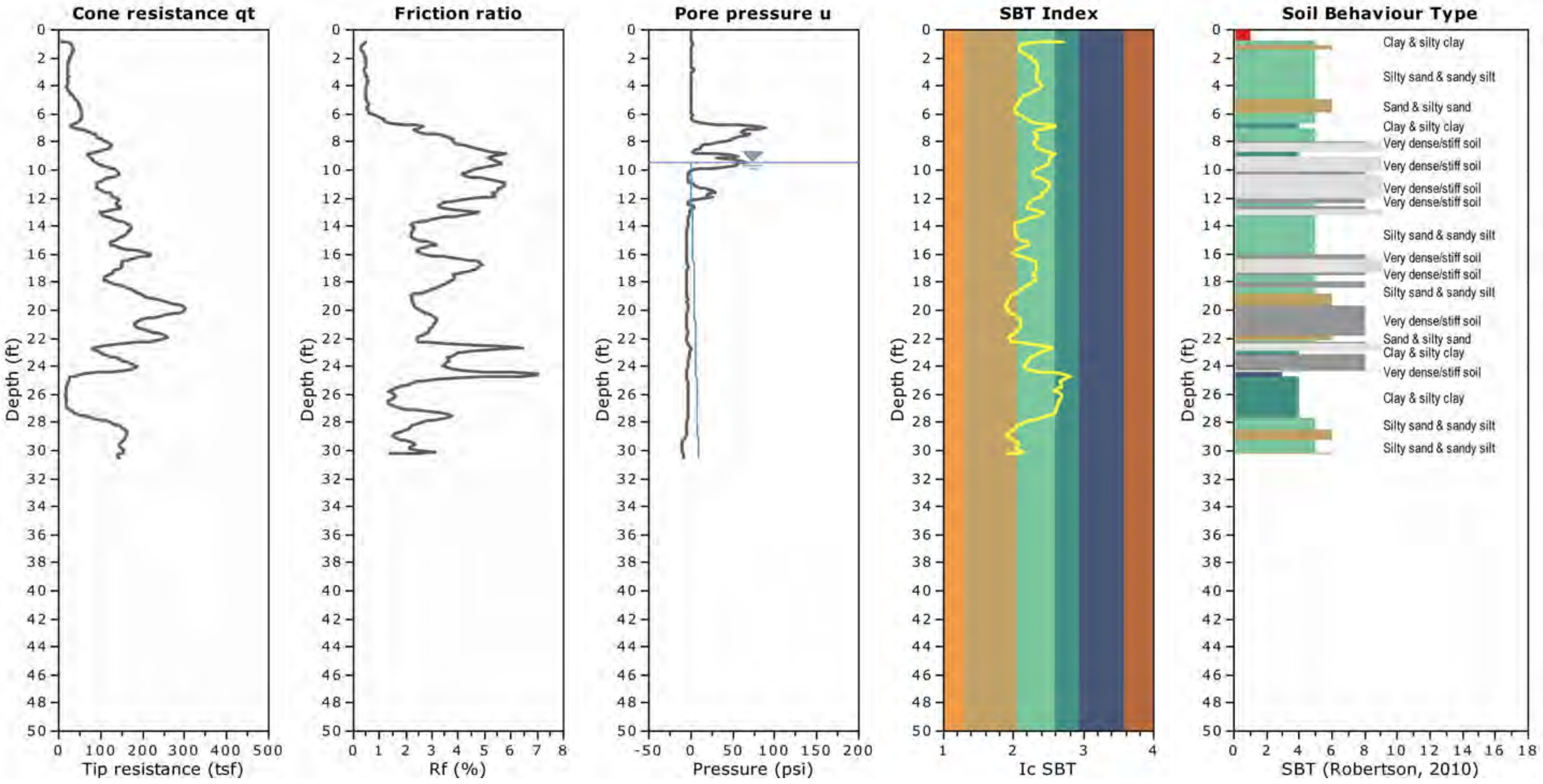
THE PHOENIX
9TH & PINE STREET
Oakland, California

ROCKRIDGE
GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-16

Date 12/13/19 | Project No. 17-1404 | Figure A-3c

DRAFT



SBT legend

🟥 1. Sensitive fine grained
🟫 2. Organic material
🟦 3. Clay to silty clay
🟩 4. Clayey silt to silty clay
🟩 5. Silty sand to sandy silt
🟫 6. Clean sand to silty sand
🟧 7. Gravely sand to sand
⬛ 8. Very stiff sand to clayey sand
⬜ 9. Very stiff fine grained

Total depth: 30.51 ft, Date: 11/20/2019
Estimated Groundwater Depth: 9.5 feet bgs (PPD)
Cone Operator: ConeTec, Inc.

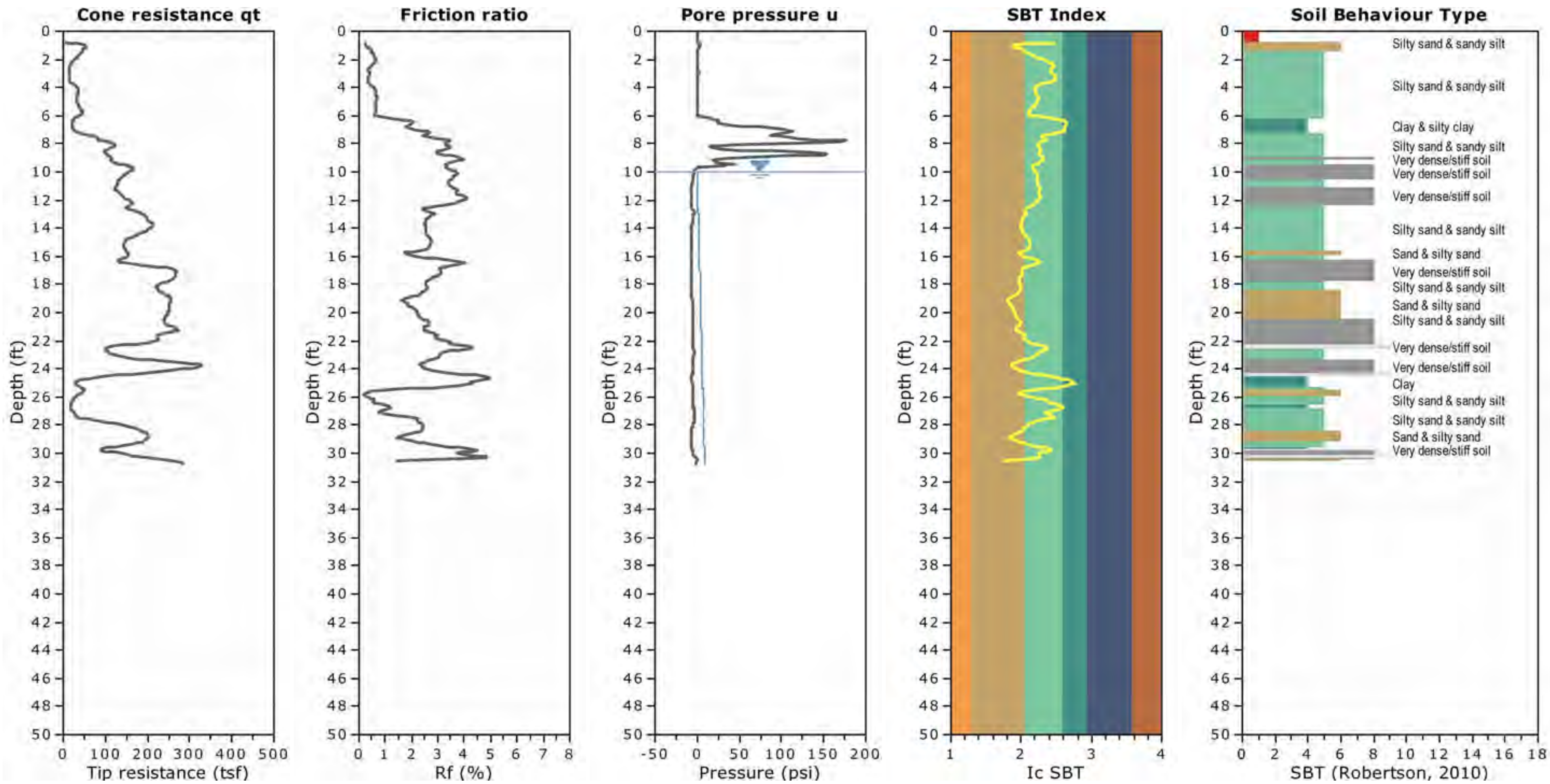
THE PHOENIX
9TH & PINE STREET
Oakland, California

ROCKRIDGE
GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-17

Date 12/13/19	Project No. 17-1404	Figure A-4

DRAFT



SBT legend

- 🟥 1. Sensitive fine grained
- 🟫 2. Organic material
- 🟦 3. Clay to silty clay
- 🟩 4. Clayey silt to silty clay
- 🟩 5. Silty sand to sandy silt
- 🟨 6. Clean sand to silty sand
- 🟧 7. Gravely sand to sand
- ⬛ 8. Very stiff sand to clayey sand
- ⬜ 9. Very stiff fine grained

Total depth: 30.76 ft, Date: 11/19/2019
Estimated Groundwater Depth: 10 feet bgs (PPD)
Cone Operator: ConeTec, Inc.

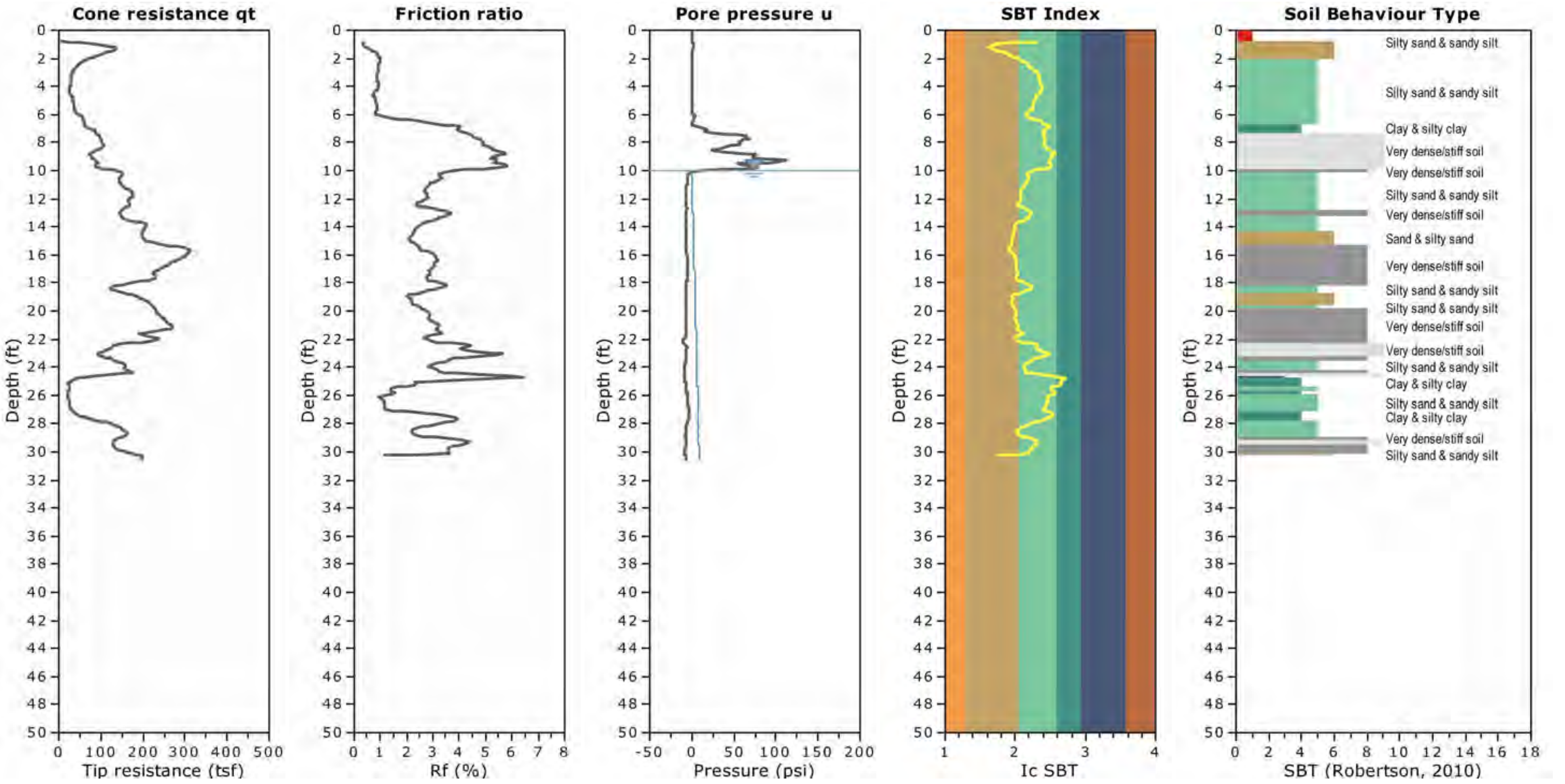
THE PHOENIX
9TH & PINE STREET
Oakland, California

ROCKRIDGE
GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-18

Date 12/13/19	Project No. 17-1404	Figure A-5

DRAFT



SBT legend

- 🟥 1. Sensitive fine grained
- 🟫 2. Organic material
- 🟦 3. Clay to silty clay
- 🟩 4. Clayey silt to silty clay
- 🟩 5. Silty sand to sandy silt
- 🟨 6. Clean sand to silty sand
- 🟧 7. Gravely sand to sand
- ⬛ 8. Very stiff sand to clayey sand
- ⬜ 9. Very stiff fine grained

Total depth: 30.51 ft, Date: 11/20/2019
Estimated Groundwater Depth: 10 feet bgs (PPD)
Cone Operator: ConeTec, Inc.

THE PHOENIX
9TH & PINE STREET
Oakland, California

ROCKRIDGE
GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-19

Date 12/13/19	Project No. 17-1404	Figure A-6

ROCKRIDGE
GEOTECHNICAL

APPENDIX B

Log of Boring and Laboratory Test Results

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PROJECT:	**THE PHOENIX** **9TH & PINE STREET** Oakland, California

Log of Boring HA-17

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Logged by: M. Hachey

Date started: 11/20/2019

Date finished: 11/20/2019

Drilling method: 3-inch-diameter hand-auger

Hammer weight/drop: N/A

Hammer type: N/A

Sampler: Grab

DEPTH (feet)	SAMPLES Sampler Type	SAMPLES Sample	SAMPLES Blows/ 6"	SAMPLES SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA Type of Strength Test	LABORATORY TEST DATA Confining Pressure Lbs/Sq Ft	LABORATORY TEST DATA Shear Strength Lbs/Sq Ft	LABORATORY TEST DATA Fines %	LABORATORY TEST DATA Natural Moisture Content, %	LABORATORY TEST DATA Dry Density Lbs/Cu Ft
						5 inch thick concrete slab						
					SP	SAND (SP) dark brown, loose, moist, fine- to medium-grained sand, trace silt						
1												
	GRAB	☒										
2												
3					SP-SM	SAND with SILT (SP-SM) brown, loose, moist, fine-grained sand						
	GRAB	☒										
4												
	GRAB	☒				yellow-brown						
5												
6												
7												
8												
9												
10												

Boring terminated at a depth of 5 feet below ground surface.
Boring backfilled with cement grout.
Groundwater not encountered during hand-augering.

ROCKRIDGE GEOTECHNICAL

Project No.: 17-1404

Figure: B-1

DRAFT

UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions		Symbols	Typical Names
Coarse-Grained Soils (more than half of soil > no. 200 sieve size)	Gravels (More than half of coarse fraction > no. 4 sieve size)	**GW**	Well-graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	Sands (More than half of coarse fraction < no. 4 sieve size)	**SW**	Well-graded sands or gravelly sands, little or no fines
		SP	Poorly-graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
Fine -Grained Soils (more than half of soil < no. 200 sieve size)	Silts and Clays LL = < 50	**ML**	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
		OL	Organic silts and organic silt-clays of low plasticity
	Silts and Clays LL = > 50	**MH**	Inorganic silts of high plasticity
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic silts and clays of high plasticity
Highly Organic Soils		**PT**	Peat and other highly organic soils

GRAIN SIZE CHART

Classification	Range of Grain Sizes	
	U.S. Standard Sieve Size	Grain Size in Millimeters
Boulders	Above 12"	Above 305
Cobbles	12" to 3"	305 to 76.2
Gravel coarse fine	3" to No. 4 3" to 3/4" 3/4" to No. 4	76.2 to 4.76 76.2 to 19.1 19.1 to 4.76
Sand coarse medium fine	No. 4 to No. 200 No. 4 to No. 10 No. 10 to No. 40 No. 40 to No. 200	4.76 to 0.075 4.76 to 2.00 2.00 to 0.420 0.420 to 0.075
Silt and Clay	Below No. 200	Below 0.075

▽ Unstabilized groundwater level

▼ Stabilized groundwater level

SAMPLE DESIGNATIONS/SYMBOLS

⊟	Sample taken with Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter. Darkened area indicates soil recovered
◩	Classification sample taken with Standard Penetration Test sampler
◨	Undisturbed sample taken with thin-walled tube
☒	Disturbed sample
⊙	Sampling attempted with no recovery
◫	Core sample
▣	Analytical laboratory sample
▥	Sample taken with Direct Push sampler
▥	Sonic

SAMPLER TYPE

C	Core barrel
CA	California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter
D&M	Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube
O	Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube
PT	Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube
S&H	Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter
SPT	Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter
ST	Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure

THE PHOENIX
9TH & PINE STREET
Oakland, California

ROCKRIDGE
GEOTECHNICAL

CLASSIFICATION CHART

Date 12/18/19 | Project No. 17-1404 | Figure B-2

Soil Analysis Lab Results

Client: Rockridge Geotechnical, Inc.
Job Name: 9th and Pine Street
Client Job Number: 17-1404
Project X Job Number: S191210C
December 13, 2019

	Method	ASTM D4327		ASTM D4327		ASTM G187		ASTM G51	ASTM G200	SM 4500-S2-D	ASTM D4327	ASTM D4327	ASTM D4327	ASTM D4327	ASTM D4327	ASTM D4327	ASTM D4327	ASTM D4327	ASTM D4327
Bore# / Description	**Depth**	**Sulfates** SO_4^{2-}		**Chlorides** Cl^-		**Resistivity** As Rec'd	Minimum	**pH**	**Redox**	**Sulfide** S^{2-}	**Nitrate** NO_3^-	**Ammonium** NH_4^+	**Lithium** Li^+	**Sodium** Na^+	**Potassium** K^+	**Magnesium** Mg^{2+}	**Calcium** Ca^{2+}	**Flouride** F_2^{--}	**Phosphate** PO_4^{3-}
	(ft)	(mg/kg)	(wt%)	(mg/kg)	(wt%)	(Ohm-cm)	(Ohm-cm)		(mV)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
HA-B	2.5-3.0	27.1	0.0027	0.5	0.0001	25,460	8,040	8.3	123.0	1.8	33.0	ND	ND	72.1	16.5	ND	19.9	ND	ND
HA-F	2.0-3.0	61.9	0.0062	4.3	0.0004	16,080	5,360	7.7	146.0	0.6	56.7	ND	ND	61.4	8.0	0.8	14.3	ND	ND

Cations and Anions, except Sulfide and Bicarbonate, tested with Ion Chromatography
mg/kg = milligrams per kilogram (parts per million) of dry soil weight
ND = 0 = Not Detected | NT = Not Tested | Unk = Unknown
Chemical Analysis performed on 1:3 Soil-To-Water extract

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ROCKRIDGE
GEOTECHNICAL

Prepared for **Urban Designs, LLC**

FINAL GEOTECHNICAL INVESTIGATION
THE PHOENIX – PHASE I
9TH AND PINE STREETS
OAKLAND, CALIFORNIA

December 18, 2019
Project No. 17-1404A

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APPENDIX A

APPENDIX B

FINAL GEOTECHNICAL INVESTIGATION
PROPOSED RESIDENTIAL DEVELOPMENT
THE PHOENIX – PHASE I
9th and Pine Streets
Oakland, California

1.0 INTRODUCTION

This report presents the results of the final geotechnical investigation performed by Rockridge Geotechnical, Inc. for Phase I of the proposed development (The Phoenix) to be constructed west of Pine Street between Shorey and 9th streets in Oakland, California. The Phase I parcel occupies the southern portion of the development and is a trapezoidal-shaped parcel with maximum plan dimensions of about 280 by 170 feet, and encompasses an area of about 0.9 acres. The Phase I site is bordered by Pine Street on the southeast, Shorey Street on the south, Frontage Road on the west, and Phase II of The Phoenix development on the north, as shown on Site Location Map, Figure 1 and Site Plan, Figure 2. We previously performed a preliminary geotechnical investigation for the site development, the results of which were presented in our report dated December 29, 2017.

The site is relatively level and is currently occupied by concrete slabs from former warehouse buildings across the entire site. Based on our review of preliminary drawings by David Baker Architects dated August 9, 2019 and our discussions with Urban Designs LLC, we understand the Phase I, will consist of a three- to four-story residential building, a two-story administration building, landscaping areas, and a drive aisle with surface parking along the western site boundary. Both buildings will be constructed at-grade.

Alameda County Department of Environmental Health (ACDEH) is overseeing environmental investigation and cleanup activities at the site under Site Cleanup Program (SCP) case number RO 0003269. Environmental contaminants identified at the site include lead impacted soil in the upper 1 foot and PCE/TCE soil gas (P&D Environmental, 2019).

2.0 SCOPE OF SERVICES

During our preliminary investigation, we explored subsurface conditions by advancing seven cone penetration tests (CPTs) across the Phase I and Phase II sites.

Our final geotechnical investigation was performed in accordance with our proposal October 29, 2019. Our final geotechnical investigation included further exploring subsurface conditions across the entire site (Phase I and Phase II) by advancing an additional 12 CPTs, performing four hand-auger borings, and performing laboratory testing on select soil samples. We used the data collected during our field investigation to perform engineering analyses to develop conclusions and recommendations regarding:

- site seismicity and seismic hazards, including the potential for liquefaction and liquefaction-induced ground failure
- the most appropriate foundation type(s) for the proposed buildings
- design criteria for the recommended foundation type(s), including vertical and lateral capacities
- estimates of static and seismically induced foundation settlement
- rigid and flexible pavement design
- design groundwater level
- subgrade preparation for floor slabs, pavements, and exterior concrete flatwork
- site grading and excavation, including criteria for fill quality and compaction
- 2019 California Building Code (CBC) site class and design spectral response acceleration parameters (mapped values)
- soil corrosivity
- construction considerations.

3.0 FIELD INVESTIGATION AND LABORATORY TESTING

We explored the subsurface conditions at the site by performing cone penetration tests (CPTs) and hand-auger borings. Prior to our field investigation, we:

- Reviewed the soil and groundwater management plan prepared by P&D Environmental[1]
- Obtained a drilling permit from the Alameda County Public Works Agency (ACPWA)
- Contacted Underground Service Alert (USA) to notify them of our work
- Retained a professional utility locator to check that the investigation locations were clear of existing underground utilities
- Cored through the existing concrete slab at investigation locations

Additional details of our field investigations and laboratory testing are presented in this section.

3.1 Cone Penetration Tests

Cone penetration tests were performed across the entire during two mobilizations:

> Preliminary Investigation - Seven CPTs, designated CPT-1 through CPT-7, were advanced on December 4, 2017 by Gregg Drilling and Testing, Inc.
>
> Final (Current) Investigation - Twelve CPTs, designated CPT-8 through CPT-19, were advanced on November 19-20, 2019 by ConeTec, Inc.

CPTs were advanced to depths between 30 and 100 feet below ground surfaces (bgs) at the approximate locations shown on the Site Plan, Figure 2.

The CPTs were performed with a truck-mounted rig hydraulically pushing a 1.7-inch-diameter cone-tipped probe into the ground. The probe measured tip resistance, pore water pressure, and frictional resistance on a sleeve behind the cone tip. Electrical sensors within the cone continuously measured these parameters for the entire depth advanced, and the readings were digitized and recorded by a computer. Accumulated data were processed by computer to provide engineering information such as soil behavior types, correlated strength characteristics, and estimated liquefaction resistance of the soil encountered. Upon completion, the CPT holes were tremie-grouted with neat cement grout in accordance with ACPWA requirements. In addition,

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[1] *Soil and Groundwater Management Plan, County File # RO 3269, Project # 0772*, prepared by P&D Environmental, Inc. and dated December 1, 2017

specialized CPT equipment was used to measure shear wave velocities in CPT-15 and obtain a soil sample from CPT-19 at a depth of approximately 25 feet bgs.

We judge that the results of CPT-6, CPT-7, and CPT-16 through CPT-19 are the most applicable CPTs for Phase I. The logs of these CPTs, showing tip resistance, friction ratio, and pore pressure, as well as interpreted soil behavior type, are presented in Appendix A on Figures A-1 through A-6.

3.2 Hand-Auger Borings and Laboratory Testing

To obtain shallow soil samples we advanced four borings immediately adjacent to CPTs, designated HA-8, HA-9, HA-13, and HA-17, at the approximate locations shown on Figure 2. The borings were advanced to a depth of about 5 feet bgs using a three-inch-diameter hand auger. Soil samples were obtained at approximately one-foot intervals for visual classification and laboratory testing. Soil cuttings were drummed and left on site, and the borings were backfilled with neat cement grout.

In the laboratory, soil samples were tested to measure moisture content, Atterberg limits (plasticity index), fines content, and corrosivity. HA-17 was performed within the Phase I area and is presented in Appendix B on Figure B-1. The soil encountered was classified in accordance with the classification chart shown on Figure B-2. Geotechnical laboratory test results are presented on the boring logs and on Figure B-3. Corrosion test results are presented on Figure B-4.

4.0 SUBSURFACE CONDITIONS AND SITE GEOLOGY

This section summarizes subsurface conditions at the site based on available geologic data from others and subsurface information from this investigation.

4.1 Subsurface Soil Conditions

As presented on Figure 3, the Regional Geologic Map, the site is mapped in a zone of Merritt sand (Qs) (Graymer, 2006). Based on the results of our geotechnical investigation, we conclude that the site is generally underlain by a layer of loose to medium dense sand, which is typically 4 to 7 feet thick. This layer could represent (i) geologically young material, (ii) reworked native material, or (iii) fill and is underlain by Merritt sand. The Merritt sand consists of sand, silty sand, and clayey sand which are typically dense to very dense with occasional medium dense layers. At CPT-16, the Merritt sand extends to a depth of about 63 feet bgs and is underlain by the San Antonio formation. The San Antonio formation typically consists of very stiff to hard clays with occasional interbeds of dense to very dense sand. The San Antonio formation extends to at least 100 feet bgs at the site (at CPT-16), the deepest depth explored. Bedrock is estimated to be about 500 feet bgs (Rogers & Figueres, 1991)

4.2 Groundwater Conditions

Groundwater levels were indirectly measured in CPTs by performing pore-pressure dissipation in CPTs-16, -17, and -19. The measured groundwater levels at the time of testing varied between about 9.5 and 10 feet bgs.

We also reviewed the results of environmental borings performed across the entire site in 1999 by IT Corporation (26 hollow-stem auger borings to approximately 11.5 feet bgs) and in 2018 by P&D Environmental, Inc. (9 hand auger borings to about 11 feet bgs). Groundwater was initially encountered in these borings at depths ranging from about 8 to 10 feet bgs. P&D Environmental noted that the groundwater level was observed to rise to about 6 to 7 feet bgs prior to grouting after being left open for a few hours.

Based on the existing groundwater level data, we conclude a design high groundwater level of 4 feet bgs should be used for design of the project. The groundwater level at the site is expected to fluctuate several feet seasonally with potentially larger fluctuations annually, depending on the amount of rainfall.

5.0 SEISMIC CONSIDERATIONS

The San Francisco Bay Area is considered to be one of the more seismically active regions in the world. We evaluated the potential for earthquake-induced geologic hazards including ground shaking, ground surface rupture, liquefaction,[2] lateral spreading,[3] cyclic densification[4]. The results of our evaluation regarding seismic considerations for the project site are presented in the following sections.

5.1 Regional Seismicity and Faulting

The site is located in the Coast Ranges geomorphic province of California that is characterized by northwest-trending valleys and ridges. These topographic features are controlled by folds and faults that resulted from the collision of the Farallon plate and North American plate and subsequent strike-slip faulting along the San Andreas fault system. The San Andreas fault is more than 600 miles long from Point Arena in the north to the Gulf of California in the south. The Coast Ranges province is bounded on the east by the Great Valley and on the west by the Pacific Ocean.

The major active faults in the area are the Hayward, San Andreas, and Mount Diablo faults. These and other faults of the region are shown on Figure 4. The fault systems in the Bay Area consist of several major right-lateral strike-slip faults that define the boundary zone between the Pacific and the North American tectonic plates. Numerous damaging earthquakes have occurred along these fault systems in recorded time. For these and other active faults within a 50-kilometer radius of the site, the distance from the site and estimated mean characteristic moment

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[2] Liquefaction is a phenomenon where loose, saturated, cohesionless soil experiences temporary reduction in strength during cyclic loading such as that produced by earthquakes.

[3] Lateral spreading is a phenomenon in which surficial soil displaces along a shear zone that has formed within an underlying liquefied layer. Upon reaching mobilization, the surficial blocks are transported downslope or in the direction of a free face by earthquake and gravitational forces.

[4] Cyclic densification is a phenomenon in which non-saturated, cohesionless soil is compacted by earthquake vibrations, causing ground-surface settlement.

magnitude[5] [Working Group on California Earthquake Probabilities (WGCEP, 2008) and Cao et al. (2003)] are summarized in Table 1.

TABLE 1

Regional Faults and Seismicity

Fault Segment	Approximate Distance from Site (km)	Direction from Site	Mean Characteristic Moment Magnitude
Total Hayward	7.7	East	7.00
Total Hayward-Rodgers Creek	7.7	East	7.33
N. San Andreas - Peninsula	21	West	7.2
N. San Andreas (1906 event)	21	West	8.05
N. San Andreas - North Coast	24	West	7.5
Mount Diablo Thrust	24	East	6.70
Total Calaveras	26	East	7.03
San Gregorio Connected	27	West	7.50
Green Valley Connected	29	East	6.80
Rodgers Creek	33	North	7.07
West Napa	40	North	6.7
Monte Vista-Shannon	42	South	6.50
Greenville Connected	42	East	7.00
Great Valley 5, Pittsburg Kirby Hills	46	East	6.70
Point Reyes	49	West	6.90

In the past 200 years, four major earthquakes (i.e., Magnitude > 6) have been recorded on the San Andreas fault. In 1836, an earthquake with an estimated maximum intensity of VII on the

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[5] Moment magnitude is an energy-based scale and provides a physically meaningful measure of the size of a faulting event. Moment magnitude is directly related to average slip and fault rupture area.

Modified Mercalli (MM) Intensity Scale occurred east of Monterey Bay on the San Andreas fault (Toppozada and Borchardt, 1998). The estimated moment magnitude, M_w, for this earthquake is about 6.25. In 1838, an earthquake occurred on the Peninsula segment of the San Andreas fault. Severe shaking occurred with an MM of about VIII-IX, corresponding to an M_w of about 7.5. The San Francisco Earthquake of 1906 caused the most significant damage in the history of the Bay Area in terms of loss of lives and property damage. This earthquake created a surface rupture along the San Andreas fault from Shelter Cove to San Juan Bautista approximately 470 kilometers in length. It had a maximum intensity of XI (MM), an M_w of about 7.9, and was felt 560 kilometers away in Oregon, Nevada, and Los Angeles. The Loma Prieta Earthquake of October 17, 1989 had an M_w of 6.9 and occurred about 94 kilometers south of the site. On August 24, 2014 an earthquake with an estimated maximum intensity of VIII (severe) on the MM scale occurred on the West Napa fault. This earthquake was the largest earthquake event in the San Francisco Bay Area since the Loma Prieta Earthquake. The M_w of the 2014 South Napa Earthquake was 6.0.

In 1868, an earthquake with an estimated maximum intensity of X on the MM scale occurred on the southern segment (between San Leandro and Fremont) of the Hayward fault. The estimated M_w for the earthquake is 7.0. In 1861, an earthquake of unknown magnitude (probably an M_w of about 6.5) was reported on the Calaveras fault. The most recent significant earthquake on this fault was the 1984 Morgan Hill earthquake ($M_w = 6.2$).

The U.S. Geological Survey's 2014 Working Group on California Earthquake Probabilities has compiled the earthquake fault research for the San Francisco Bay area in order to estimate the probability of fault segment rupture. They have determined that the overall probability of moment magnitude 6.7 or greater earthquake occurring in the San Francisco Region during the next 30 years (starting from 2014) is 72 percent. The highest probabilities are assigned to the Hayward fault, Calaveras fault, and the northern segment of the San Andreas fault. These probabilities are 14.3, 7.4, and 6.4 percent, respectively.

5.2 Geologic Hazards

During a major earthquake on a segment of one of the nearby faults, strong to very strong ground shaking is expected to occur at the project site. Strong shaking during an earthquake can result in ground failure such as that associated with soil liquefaction, lateral spreading, and cyclic densification. We used the results of the borings and CPTs to evaluate the potential of these phenomena occurring at the project site.

5.2.1 Ground Shaking

The ground shaking intensity felt at the project site will depend on: 1) the size of the earthquake (magnitude), 2) the distance from the site to the fault source, 3) the directivity (focusing of earthquake energy along the fault in the direction of the rupture), and 4) subsurface conditions. The site is approximately 8 kilometers from the Hayward fault and 21 kilometers from the San Andreas fault. Therefore, the potential exists for a large earthquake to induce strong to very strong ground shaking at the site during the life of the project.

5.2.2 Liquefaction and Associated Hazards

When a saturated, cohesionless soil liquefies, it experiences a temporary loss of shear strength created by a transient rise in excess pore pressure generated by strong ground motion. Soil susceptible to liquefaction includes loose to medium dense sand and gravel, low-plasticity silt, and some low-plasticity clay deposits. Flow failure, lateral spreading, differential settlement, loss of bearing strength, ground fissures and sand boils are evidence of excess pore pressure generation and liquefaction. The site mapped within a liquefaction hazard zone, as shown on Figure 5 from the map titled *State of California, Seismic Hazard Zones, Oakland West Quadrangle, Official Map*, dated February 14, 2003 and prepared by the California Geological Survey (CGS).

Liquefaction susceptibility was assessed using the software CLiq v3.0.2.4 (GeoLogismiki, 2019). CLiq uses measured field CPT data and assesses liquefaction potential, including post-earthquake vertical settlement, given a user-defined earthquake magnitude and peak ground acceleration (PGA). Our liquefaction analyses were performed using the methodology proposed by Boulanger & Idriss (2014). We used the relationship proposed by Zhang et al. (2002) to estimate post-liquefaction volumetric strains and corresponding ground surface settlement; volumetric strains were then modified using the methodology proposed by Çetin et al. (2009) to account for the depth of the liquefiable layers.

Our analyses were performed using an in-situ groundwater depth of 10 feet bgs and "during earthquake" groundwater depth of 6 feet bgs. In accordance with the 2019 CBC, we used a peak ground acceleration of 0.70 times gravity (g) in our liquefaction evaluation; this peak ground acceleration is consistent with the Maximum Considered Earthquake Geometric Mean (MCE_G) peak ground acceleration adjusted for site effects (PGA_M). We also used a moment magnitude 7.33 earthquake, which is consistent with the mean characteristic moment magnitude for the Hayward fault, as presented in Table 1.

The results of our liquefaction analysis indicate there is are layers of potentially liquefiable material where the upper loose/medium dense sand layer extends below the assumed groundwater table and at a depth of about 26 feet bgs, and is about 2 feet thick. We estimate total "free-field" ground surface settlements associated with liquefaction (referred to as post-liquefaction reconsolidation) within these layers after a major event on a nearby fault will be less than about 1/2 inch,. with differential settlements of about 1/4 inch over a horizontal distance of 30 feet.

Considering the depth and plasticity of the potentially liquefiable soil layers, we conclude the risk of lateral spreading is low.

5.2.3 Cyclic Densification

Cyclic densification (also referred to as differential compaction) of non-saturated sand (sand above groundwater table) can occur during an earthquake, resulting in settlement of the ground surface and overlying improvements. The loose to medium dense undocumented fill material in the upper 5 to 6 feet of the site is potentially susceptible to cyclic densification. We estimate up to 2 inches of ground surface settlement where this layer is not improved or removed, as discussed further in Section 6.1.

5.2.4 Fault Rupture

Historically, ground surface displacements closely follow the trace of geologically young faults. The site is not within an Earthquake Fault Zone, as defined by the Alquist-Priolo Earthquake Fault Zoning Act, and no known active or potentially active faults exist on the site. We therefore conclude the risk of fault offset at the site from a known active fault is very low. In a seismically active area, the remote possibility exists for future faulting in areas where no faults previously existed; however, we conclude the risk of surface faulting and consequent secondary ground failure from previously unknown faults is also very low.

6.0 DISCUSSION AND CONCLUSIONS

From a geotechnical standpoint, we conclude the site can be developed as planned, provided the recommendations presented in this report are incorporated into the project plans and specifications and implemented during construction. The primary geotechnical concerns at the site are the presence of 5 to 7 feet of loose to medium dense sand blanketing the site, some of which may consist of undocumented fill, and providing adequate foundation support for the proposed building. These and other geotechnical issues as they pertain to the proposed development are discussed in the remainder of this section.

6.1 Foundations and Settlement

The results of field investigation indicate the site is blanketed by 5 to 7 feet of loose to medium dense sand. If the proposed buildings supported on this layer in its current condition, we conclude the buildings may experience erratic performance due to the inherent variability of these materials and the potential for excessive settlement under static and seismic load conditions. To create a more homogeneous subgrade that will provide uniform support for the proposed improvements, we conclude the upper layer of loose/medium dense sand should be over-excavated, moisture-conditioned, blended, and recompacted. This will require removing the upper 5 feet (as measured from existing grades) of soil across the proposed building pads, scarifying, moisture-conditioning, and compacting the exposed base of overexcavation, and replacing the material as a well-compacted engineered fill. Recompaction (densification) of the undocumented loose to medium dense soil blanketing the site will reduce the amount of anticipated settlement under static loads, as well as the cyclic densification settlement discussed in Section 5.2.3.

As an alternative to over-excavation and recompaction, the buildings may be supported on a shallow foundation provided that the upper layer of soil is otherwise improved (such as through Rapid Impact Compaction [RIC] ground improvement method) or deepened footings are used to bear below the upper layer.

RIC utilizes a track-mounted machine that imparts energy by dropping an approximately 7.5-ton weight from a controlled height of about three feet onto a patented foot. The energy is delivered at a rate of 40 to 60 blows per minute. Drop height, number of blows, and penetration per blow are monitored and/or controlled by an on-board data acquisition system. Compaction points are performed on a geometric grid, the spacing of which is determined based on the properties of the soil to be densified.

We conclude that the Merritt sand below the surficial loose/medium dense layer is capable of supporting the proposed structures on a shallow foundation system, such as conventional spread footings, without excessive settlement. Our settlement analyses indicate total and differential settlement of conventional footings bearing on undisturbed native soil or properly engineered fill, designed using the allowable bearing pressures presented in Section 7.2 of this report, will be less than 1 inch and to the order of a 1/2 inch over a 30-foot horizontal distance, respectively.

Other foundation or ground improvement systems could be designed to support the proposed buildings; however, we believe the above options represent the most feasible and economic options for the proposed project. We can provide recommendations for alternative foundations systems on request.

6.2 Construction Considerations

The soil to be excavated consists primarily of sand, which can be excavated with conventional earth-moving equipment such as loaders and backhoes. If concrete debris or former foundation elements are encountered during grading, removal will require equipment capable of breaking concrete, such as a hoe-ram.

Depending on the groundwater table at the time of construction and amount of rain, the over-excavated areas may be subject to disturbance by repeated by heavy equipment loads; this phenomenon could result in severe rutting and pumping of the exposed subgrade. If this behavior is observed, heavy rubber-tired equipment as well as vibratory rollers should be avoided

Excavations that will be entered by workers should be sloped or shored in accordance with CAL-OSHA standards (29 CFR Part 1926). The contractor should be responsible for the construction and safety of temporary slopes. We judge temporary slopes above the groundwater table with a maximum inclination of 1.5:1 (horizontal to vertical) should be stable, provided the slope is not surcharged by adjacent structures, construction equipment, or stockpiled soil.

6.3 Soil Corrosivity

Corrosivity testing was performed by Project X Corrosion of Murrieta, California on soil samples obtained from the near-surface soil during our field investigation from locations HA-9 and HA-13 at a depth of 2.5 and 2 feet bgs, respectively. The test results are presented on Figure B-4. Based on the resistivity test results, the soil samples are classified as mildly corrosive to buried steel. Based on the chloride, sulfide, and sulfate ion concentrations, and pH test results, the soil samples do not present corrosion problems for buried iron, steel, mortar-coated steel and reinforced concrete structures. Accordingly, based on the resistivity test results, any buried iron, steel, cast iron, galvanized steel, and dielectric-coated steel or iron should be properly protected against corrosion.

7.0 RECOMMENDATIONS

Recommendations for site grading, foundation design, and seismic design are presented in this section of the report.

7.1 Site Preparation and Grading

Site demolition should include the removal of existing structures, pavements, underground utilities, and foundations. In addition, any on-site areas that will receive surface improvements, such as asphalt pavement or concrete flatwork, should be overexcavated one foot below existing grade, scarified, moisture-conditioned, and recompacted. The primary purpose of the overexcavation beneath surface improvements is to check for loose fill and buried debris or foundations from previous site development or demolition.

In general, abandoned underground utilities should be removed to the property line or service connections and properly capped or plugged with concrete. Where existing utility lines are outside of the proposed building footprint and will not interfere with the proposed construction, they may be abandoned in-place if allowed by the utility company, provided they are filled with flowable grout or slurry. Voids resulting from demolition activities should be properly backfilled with compacted fill following the recommendations provided later in this section and under the observation of our field engineer.

Fill should consist of on-site soil or imported soil (select fill) that is free of organic matter, contains no rocks or lumps larger than four inches in greatest dimension, has a liquid limit of less than 40 and a plasticity index lower than 12, and is approved by the Geotechnical Engineer. Samples of proposed imported fill material should be submitted to the Geotechnical Engineer at least three business days prior to use at the site. The grading contractor should provide analytical test results or other suitable environmental documentation indicating the imported fill is free of hazardous materials at least three days before use at the site. If this data is not available, up to two weeks should be allowed to perform analytical testing on the proposed imported material.

7.1.1 Subgrade Preparation

After site clearing and demolition is completed, in areas that will receive improvements (i.e. building pad, pavement, and exterior concrete flatwork) or new fill, the soil subgrade exposed by overexcavation (as described above) should be scarified to a depth of at least eight inches, moisture-conditioned, and compacted in accordance with the requirements presented below in Table 2 (Section 7.1.2).

If the over-excavation and re-compaction option is selected to mitigate the loose upper soils blanketing the building pads, as discussed in Section 6.1, the material should be removed down to at least 5 feet below existing grades, or to undisturbed native material, under the direction of our field engineer, moisture-conditioned, placed in 8-inch-thick lifts, and compacted in accordance with the recommendations in Table 2.

7.1.2 Fill Materials and Compaction Criteria

All fill should be placed in horizontal lifts not exceeding eight inches in loose thickness, moisture-conditioned, and compacted in accordance with the requirements provided below in Table 2. Each type of material is described in the following text according to its uses and specifications.

TABLE 2
Summary of Compaction Requirements

Location	Required Relative Compaction (percent)	Moisture Requirement
Clean sand or gravel (All locations)	95+	Near optimum
Building pad – low-plasticity soil	90+	Above optimum
Exterior slabs – low-plasticity soil	90+	Above optimum
Pavements – low-plasticity soil	95+	Above optimum
Pavements - aggregate base	95+	Near optimum
General fill – low-plasticity soil	90+	Above optimum
Utility trench backfill – low-plasticity	90+	Above optimum

Note: Select fill and lime-treated clay are considered low-plasticity soil.

On-site Soil

On-site soil may be used as general fill, provided the material is free of organic matter, contain no rocks or lumps larger than three inches in greatest dimension, and be approved by the Geotechnical Engineer.

Select Fill

Select fill should consist of on-site or imported soil that is free of organic matter, contain no rocks or lumps larger than three inches in greatest dimension, have a liquid limit less than 40 and plasticity index less than 12, and be approved by the Geotechnical Engineer. Samples of proposed select fill material should be submitted to the Geotechnical Engineer at least three business days prior to use at the site.

The grading contractor should provide analytical test results or other suitable environmental documentation indicating the imported fill is free of hazardous materials at least three days before use at the site. If this data is not provided, a minimum of two weeks will be required to perform any necessary analytical testing.

Aggregate Base Material

Imported aggregate base material may be used as general fill, trench backfill (above bedding materials), or as select fill beneath building pad or exterior concrete flatwork. Aggregate base should meet the requirements in the 2015 Caltrans Standard Specifications, Section 26, for Class 2 aggregate base (3/4-inch maximum).

Controlled Low-Strength Material

Controlled low-strength material (CLSM) may be considered as an alternative to fill beneath the building, concrete flatwork, or pavement. CLSM should meet the requirements in the 2015 Caltrans Standard Specifications. It is an ideal backfill material when adequate room is limited or not available for conventional compaction equipment, or when settlement of the backfill must be minimized. No compaction is required to place CLSM. CLSM should have a minimum 28-day unconfined strength of 100 pounds per square inch (psi).

7.1.3 Utility Trench Backfill

Excavations for utility trenches can be readily made with a backhoe. All trenches should conform to the current CAL-OSHA requirements. To provide uniform support, pipes or conduits should be bedded on a minimum of four inches of clean sand or fine gravel. After the pipes and conduits are tested, inspected (if required) and approved, they should be covered to a depth of six inches with sand or fine gravel, which should be mechanically tamped.

Backfill for utility trenches and other excavations is also considered fill, and should be placed and compacted as according to the recommendations previously presented. If imported clean sand or gravel (defined as soil with less than 10 percent fines) is used as backfill, it should be compacted to at least 95 percent relative compaction. Jetting of trench backfill should not be permitted. Special care should be taken when backfilling utility trenches in pavement areas. Poor compaction may cause excessive settlements, resulting in damage to the improvements above the fill.

Foundations for the proposed building should be bottomed below an imaginary line extending up at a 1.5:1 (horizontal:vertical) inclination from the base of the utility trenches running parallel to the foundation. Alternatively, the portion of the utility trench (excluding bedding) that is below the 1.5:1 line can be backfilled with CLSM (see Section 7.1.2 for material requirements). If utility trenches are to be excavated below this zone-of-influence line after construction of the building foundations, the trench walls need to be fully supported with shoring until CLSM is placed.

7.1.4 Drainage and Landscaping

Positive surface drainage should be provided around the building to direct surface water away from foundations and below-grade walls. To reduce the potential for water ponding adjacent to the building, we recommend the ground surface within a horizontal distance of five feet from the building slope down away from the building with a surface gradient of at least two percent in unpaved areas and one percent in paved areas. In addition, roof downspouts should be discharged into controlled drainage facilities to keep the water away from the foundation and below-grade walls.

7.2 Foundation Design

Provided the estimated total and differential settlements presented in Section 6.1 are acceptable, we recommend the proposed buildings may be supported by conventional spread footings bearing on: (i) over-excavated and properly compacted fill, (ii) soil improved via Rapid Impact Compaction, or (iii) deepened footings.

Where the perimeter footing is constructed near a bio-retention area or bio-swale, the footing should be founded below an imaginary line extending up at an inclination of 1.5:1 (horizontal: vertical) from the base of the bio-retention area. Exterior perimeter footings should be bottomed at least 24 inches below the outside grade. Interior footings should be bottomed at least 18 inches below the bottom of the capillary moisture break.

Footings may be designed using an allowable bearing pressure of 4,500 pounds per square foot (psf) for dead-plus-live loads; this value may be increased by one-third for total design loads, which include wind or seismic forces. The recommended allowable bearing pressures for dead-plus-live loads and total loads include factors of safety of at least 2.0 and 1.5, respectively.

Lateral loads may be resisted by a combination of passive pressure on the vertical faces of the footings and friction between the bottoms of the footings and the supporting soil. To compute lateral resistance of footings, we recommend using an equivalent fluid weight (triangular distribution) allowable passive pressure of 300 pounds per cubic foot (pcf). Passive pressure in the upper one foot of soil should be neglected unless confined by a slab or pavement. Frictional resistance should be computed using a base friction coefficient of 0.3. The passive pressure and frictional resistance values have included a factor of safety of at least 1.5 and may be used in combination without reduction.

7.2.1 Deepened Footings

The proposed buildings may be directly supported on spread footings that derive support on firm Merritt sand layer below the loose material blanketing the site. This can be achieved by either bottoming the footings below the loose layer, which typically extends 5 to 7 feet below existing grades, or by over-excavating the loose native soil and/or undocumented fill and placing CLSM up to the design bottom-of-footing elevation.

7.2.2 Rapid Impact Compaction

We judge it is feasible to densify the upper loose soil layers in-situ by using Rapid Impact Compaction (RIC). RIC is generally suitable for densifying granular soils within 10 to 15 feet of the ground surface. Because of existing improvements surrounding the site, vibrations should be monitored, and setback from improvements should be established.

Prior to performing the production RIC at the site, a pilot-testing program should be performed to confirm the effectiveness of the proposed RIC spacing and number of passes. We should choose the locations of the test sections and review the ground improvement contractor's submittal for the proposed test sections. CPTs should be performed before and after the testing program to quantitatively evaluate the improvement. In addition, we recommend time be included in the construction schedule for a second round of pilot-testing for a different spacing or pattern in the event the first round does not show adequate improvement. Improved soil between compaction locations should have a normalized cone tip resistance (Q_{tn}) of at least 100 in order to mitigate the potential for large and erratic settlements in the upper 5 to 7 feet of soil.

Where RIC is performed, it will cause uneven settlement of the ground surface. Consequently, fill will be required to raise site grades in these locations. Our experience at similar sites indicates that about 1 foot of fill may be required as a result for the RIC operation.

7.3 Floor Slabs

If the proposed buildings will include a concrete floor slab, the floor slabs may consist of conventional slabs-on-grade. Where water vapor transmission through the floor slab is undesirable, we recommend installing a capillary moisture break and a water vapor retarder beneath the slab-on-grade. A vapor retarder and capillary moisture break are typically not required beneath parking garage slabs because there is sufficient air circulation to allow evaporation of moisture that is transmitted through the slab; however, we recommend the vapor retarder and capillary break be installed below the slab-on-grade in utility rooms and any areas in or adjacent to the parking garage that will be used for storage and/or will receive a floor covering or coating.

A capillary moisture break consists of at least four inches of clean, free-draining gravel or crushed rock. The vapor retarder should meet the requirements for Class B vapor retarders stated in ASTM E1745. The vapor retarder should be placed in accordance with the requirements of ASTM E1643. These requirements include overlapping seams by six inches, taping seams, and sealing penetrations in the vapor retarder. The particle size of the capillary break material should meet the gradation requirements presented in Table 3.

TABLE 3

Gradation Requirements for Capillary Moisture Break

Sieve Size	Percentage Passing Sieve
1 inch	90 – 100
3/4 inch	30 – 100
1/2 inch	5 – 25
3/8 inch	0 – 6

The concrete slabs should be properly cured. Concrete mixes with high water/cement (w/c) ratios result in excess water in the concrete, which increases the cure time and results in excessive vapor transmission through the slab. Therefore, concrete for the slabs should have a low w/c ratio - less than 0.45. Water should not be added to the concrete mix in the field. If necessary, workability should be increased by adding plasticizers. Before floor coverings are placed on the mat or on slab-on-grade floors, the contractor should check that the concrete surface and the moisture emission levels (if emission testing is required) meet the manufacturer's requirements.

7.4 Site Retaining Walls

Site retaining walls should be designed to resist lateral earth pressures imposed by the retained soil, as well as a surcharge pressure from nearby foundations and vehicles, where appropriate. Where permanent retaining walls will be restrained from movement at the top (i.e. retaining walls with 90-degree angle turn), they should be designed for at-rest conditions. Walls retaining more than 6 feet of soil should be designed to resist seismic forces. We recommend restrained below-grade walls at the site be designed for the more critical of the following criteria:

- At-rest equivalent fluid weight of 60 pcf above the design groundwater table and 91 pcf below.
- Active pressure of 40 pcf plus a seismic increment of 20 pcf (triangular distribution) above the design groundwater level, and 82 pcf plus a seismic increment of 10 pcf (triangular distribution) below.

We recommend restrained walls be designed using an at-rest equivalent fluid weight of 60 pcf. Retaining walls that are unrestrained at the top should be designed for active conditions using an active equivalent fluid weight of 40 pcf. Where there will be passenger vehicular traffic behind the top of a permanent wall within a horizontal distance equal to 1.5 times the height of the wall, the wall should be designed for vehicular surcharge of 50 psf over the entire wall height. Higher surcharge pressures may be required, if garbage truck or fire truck loading is anticipated behind the walls. Where existing foundations are supported above a “zone-of-influence” line extending up from a permanent wall at an inclination of 1.5:1 (horizontal:vertical), the wall should be designed for a surcharge pressure—we can evaluate the design surcharge pressure on a case-by-case basis, if needed.

The design earth pressures recommended above are applicable to drained soil conditions. Although the permanent walls will likely be above the groundwater level, water can accumulate behind the walls from other sources, such as rainfall, irrigation, and broken water lines. All retaining walls designed using the recommended earth pressures presented above should be backdrained. One acceptable method for backdraining a retaining wall is to place a prefabricated drainage panel against the back of the wall. The drainage panel should extend down to a perforated PVC collector pipe at the base of the wall. The pipe should be surrounded on all sides by at least four inches of Caltrans Class 2 permeable material or 3/4-inch drain rock wrapped in filter fabric (Mirafi NC or equivalent). A proprietary, prefabricated collector drain system, such as Tremdrain Total Drain, AdvanEdge, or Hydroduct Coil, designed to work in conjunction with the drainage panel may be used in lieu of the perforated pipe surrounded by gravel described above. The pipe should be sloped to drain by gravity to a suitable outlet.

7.5 Pavement Design

Design recommendations for asphalt concrete and Portland cement concrete pavements and concrete pavers are presented in the following sections.

7.5.1 Flexible (Asphalt Concrete) Pavement Design

The State of California flexible pavement design method was used to develop the recommended asphalt concrete pavement sections. For pavement design, we assumed a resistance value (R-value) of 30, which is appropriate for the relatively clean sand at the site. Recommended pavement sections for traffic indices ranging from 4.5 to 7.5 are presented in Table 4.

TABLE 4
AC Pavement Sections

TI	Asphaltic Concrete (inches)	Class 2 Aggregate Base R = 78 (inches)
4.5	2.5	5.5
5.0	3.0	5.5
5.5	3.0	7.0
6.0	3.5	7.5
6.5	4.0	8.0
7.0	4.0	9.5
7.5	4.5	10

The upper eight inches of the subgrade and any material placed as part of the required overexcavation should be moisture-conditioned and compacted in accordance with requirements presented in Table 2 in Section 7.1. The aggregate base should be moisture-conditioned to near optimum and compacted to at least 95 percent relative compaction.

Where pavements are adjacent to irrigated landscaped areas, curbs adjacent to those areas should extend through the aggregate base and at least three inches into the underlying soil to reduce the potential for irrigation water to infiltrate into the pavement section. Where pavements are adjacent to storm water treatment facilities, such as bio-swales, flow-through planters, or bio-retention basins, or any other landscaped areas in which a significant thickness of loose, uncompacted soil will be present, the curbs may need to extend deeper.

7.5.2 Rigid (Portland Cement Concrete) Pavement

Concrete pavement design is based on a maximum single-axle load of 20,000 pounds and a maximum tandem axle load of 32,000 pounds and light truck traffic (i.e., a few trucks per week). The recommended rigid pavement section for these axle loads is five inches of Portland cement concrete over six inches of Class 2 aggregate base. Where fire truck traffic is expected, the pavement section should consist of six inches of Portland cement concrete over six inches of Class 2 aggregate base. .

The modulus of rupture of the concrete should be at least 500 psi at 28 days. Contraction joints should be constructed at maximum spacing of 12.5 and 15 feet for 5-inch-thick and 6-inch-thick pavement sections, respectively. Where the outer edge of a concrete pavement meets asphalt concrete pavement, the concrete slab should be thickened by 50 percent at a taper not to exceed a slope of 1 in 10. For areas that will receive weekly garbage truck traffic, we recommend the slab be reinforced with a minimum of No. 4 bars at 16-inch spacing in both directions. Recommendations for subgrade preparation and aggregate base compaction for concrete pavement are the same as those described above for asphalt concrete pavement.

7.6 Seismic Design

We anticipate that the proposed buildings will be designed under the 2019 version of the California Building Code (CBC), which is based on the guidelines contained within *ASCE 7-16*. The latitude and longitude of the site are 37.8091° and -122.3035°, respectively. Measured shear wave velocities at the site are consistent with Site Class D classification. Therefore, we recommend Site Class D be used for structural design of the buildings.

Assuming the seismic response coefficient (C_S) value will be calculated as outlined in *ASCE 7-16*, *Section 11.4.8, Exception 2*, we recommend the following seismic design parameters:

- $S_S = 1.500g$, $S_1 = 0.600g$
- $F_a = 1.0$, $F_v = 1.7$

- S_{MS} = 1.50g, S_{M1} = 1.020g
- S_{DS} = 1.00g, S_{D1} = 0.680g
- Seismic Design Category D for Risk Factors I, II, and III

In lieu of adjusting the C_s value, our scope can be revised to include a site-specific ground motion hazard analysis, if desired from a structural engineering standpoint.

8.0 GEOTECHNICAL SERVICES DURING CONSTRUCTION

Prior to construction, Rockridge Geotechnical, Inc. should review the project plans and specifications to verify that they conform to the intent of our recommendations. During construction, our field engineer should provide on-site observation and testing during site preparation, placement and compaction of fill, and installation of foundations. These observations will allow us to compare actual with anticipated soil conditions and to verify that the contractor's work conforms to the geotechnical aspects of the plans and specifications.

9.0 LIMITATIONS

This geotechnical study has been conducted in accordance with the standard of care commonly used as state-of-practice in the profession. No other warranties are either expressed or implied. The recommendations made in this report are based on the assumption that the subsurface conditions do not deviate appreciably from those disclosed in the test borings and CPTs. If any variations or undesirable conditions are encountered during construction, we should be notified so that additional recommendations can be made. The foundation recommendations presented in this report are developed exclusively for the proposed development described in this report and are not valid for other locations and construction in the project vicinity.

REFERENCES

2019 California Building Code (CBC)

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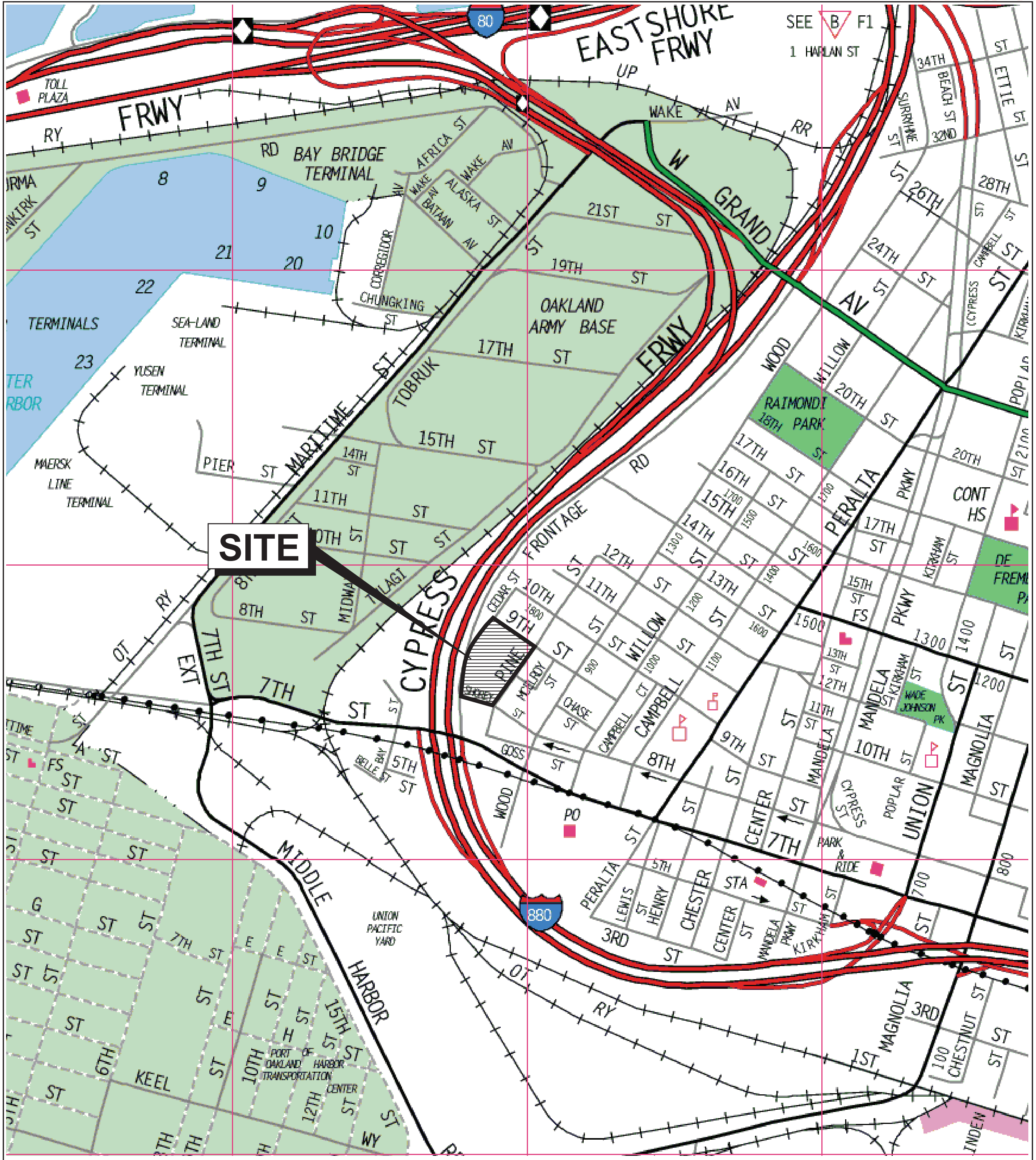
FIGURES

DRAFT



Base map: The Thomas Guide
Alameda County
2002

0 1/4 1/2 Mile

Approximate scale

THE PHOENIX
9TH & PINE STREET
Oakland, California

ROCKRIDGE
GEOTECHNICAL

SITE LOCATION MAP

Date 12/12/19	Project No. 17-1404	Figure 1

EXPLANATION

HA-8 ⌖	Approximate location of hand auger by Rockridge Geotechnical Inc., November 20, 2019
CPT-8 △	Approximate location of cone penetration test by Rockridge Geotechnical Inc., November 19 & 20, 2019
CPT-1 ◉	Approximate location of cone penetration test by Rockridge Geotechnical Inc., December 4, 2017
OAK-102 ⊕	Approximate location of cone penetration test by U.S. Geologic Survey, August 2001
— - —	Overall Project Limits
- - - -	Phase I Limits
——	Approximate locations of proposed buildings

0 100 Feet
Approximate scale

Base map: Google Earth, 2017.

THE PHOENIX
9TH & PINE STREET
Oakland, California

SITE PLAN

Date 12/16/19	Project No. 17-1404	Figure 2

ROCKRIDGE GEOTECHNICAL

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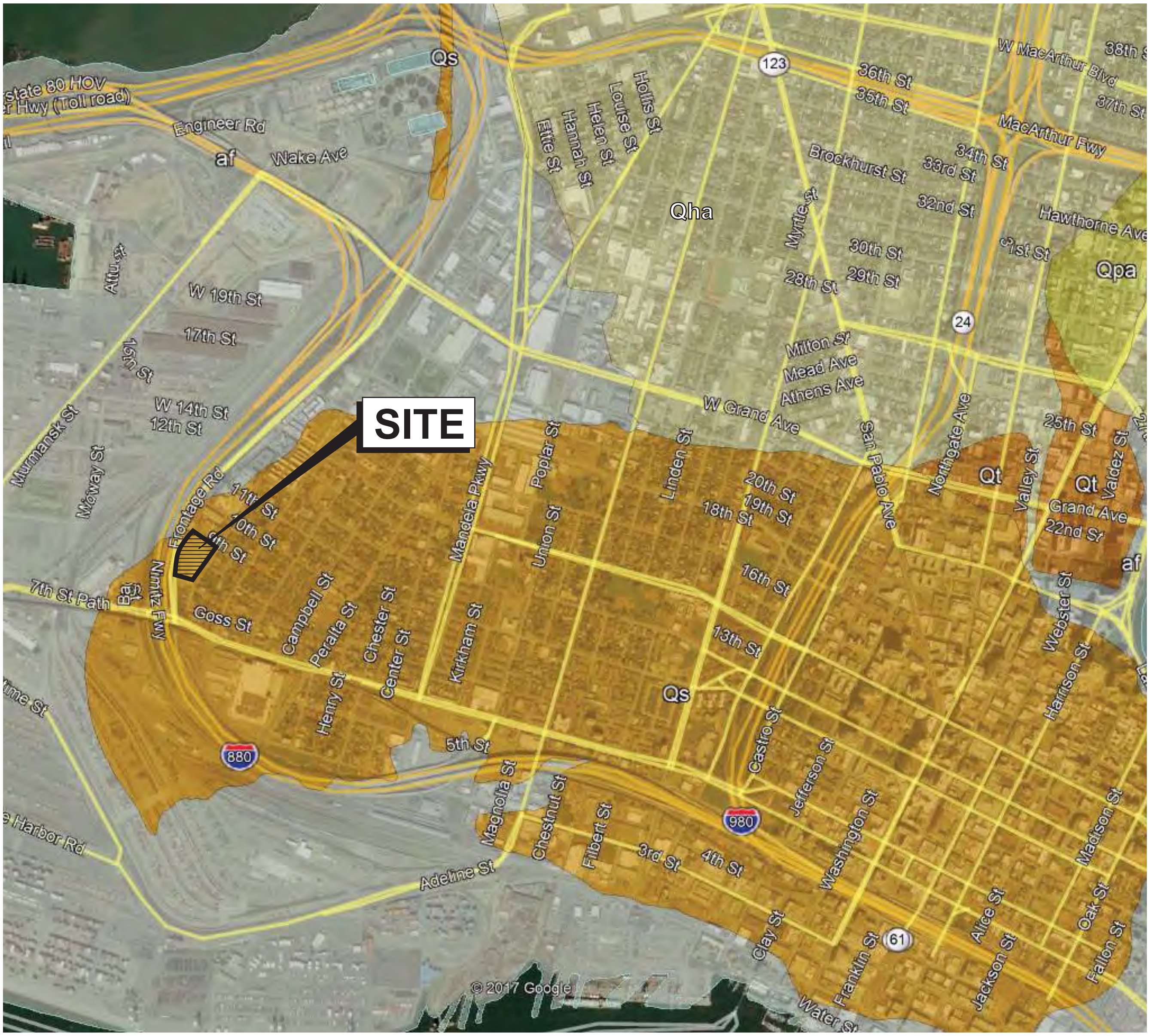
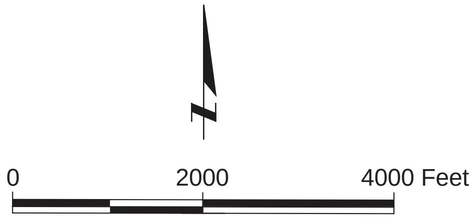


Base map: Google Earth with U.S. Geological Survey (USGS), Alameda County, 2016.

EXPLANATION

af	Artificial Fill
Qha	Alluvium (Holocene)
Qs	Beach and dune sand (Quaternary)
Qpa	Alluvium (Pleistocene)
Qt	Marine terrace deposits (Pleistocene)

Geologic contact:
dashed where approximate and dotted
where concealed, queried where uncertain



Approximate scale

THE PHOENIX
9TH & PINE STREET
Oakland, California

ROCKRIDGE
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REGIONAL GEOLOGIC MAP

Date 12/12/19	Project No. 17-1404	Figure 3

DRAFT

Base Map: U.S. Geological Survey (USGS), National Seismic Hazards Maps - Fault Sources, 2008.

EXPLANATION

🟥 Strike slip

▬ Thrust (Reverse)

🟦 Normal

0 5 10 Miles

Approximate scale

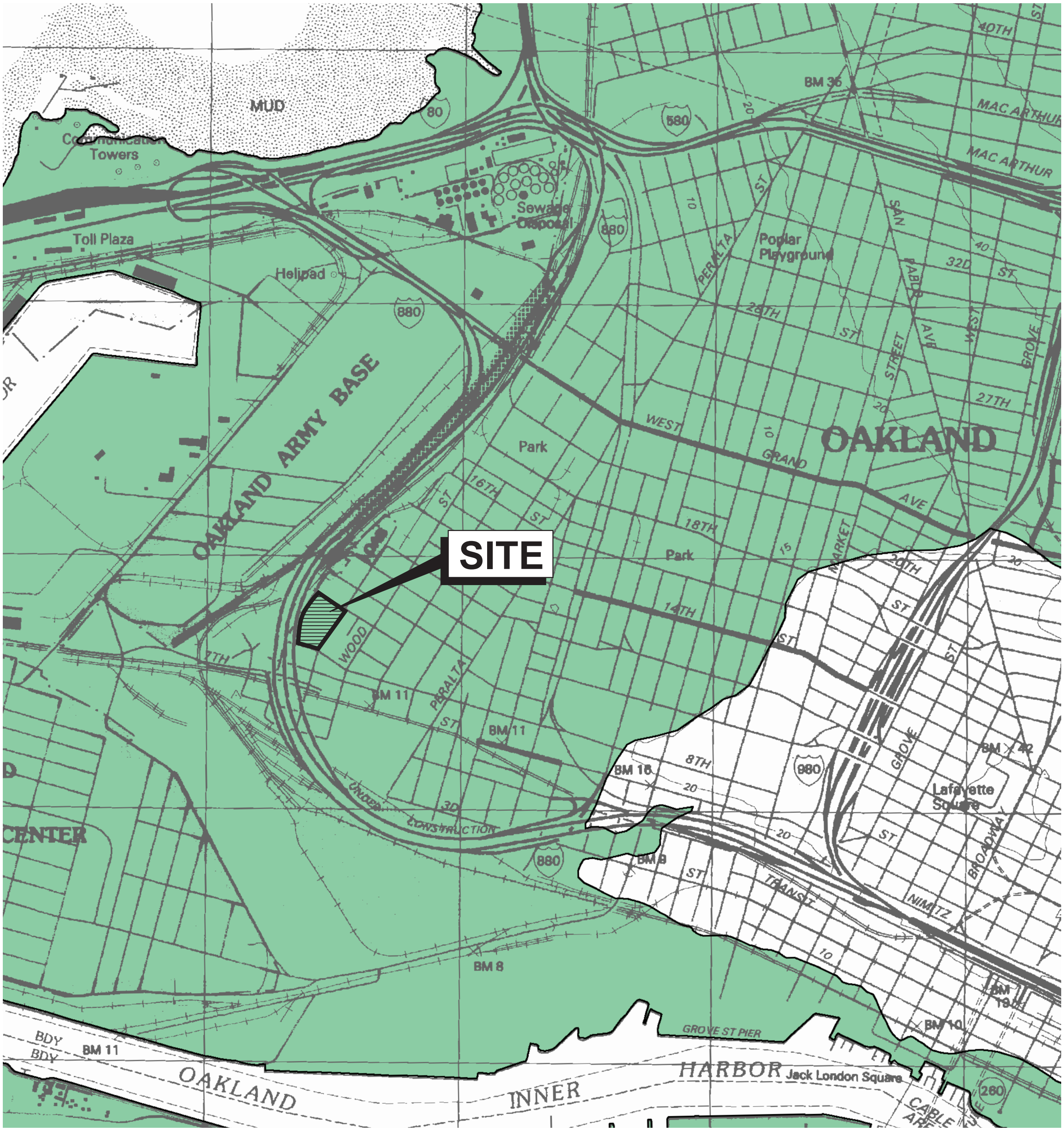
THE PHOENIX
9TH & PINE STREET
Oakland, California

ROCKRIDGE GEOTECHNICAL

REGIONAL FAULT MAP

Date 12/12/19	Project No. 17-1404	Figure 4

DRAFT



EXPLANATION

🟩 **Liquefaction;** Areas where historic occurence of liquefaction, or local topographic, geological, geotechnical, and subsurface water conditions indicate a potential for permanent ground displacements.

🟦 **Earthquake-Induced Landslides;** Areas where previous occurence of landslide movement, or local topographic, geological, geotechnical, and subsurface water conditions indicate a potential for permanent ground displacements.

0 2,000 4,000 Feet

Approximate scale

Reference:
State of California "Seismic Hazard Zones"
Oakland West Quadrangle.
Released on February 14, 2003

THE PHOENIX
9TH & PINE STREET
Oakland, California

ROCKRIDGE
GEOTECHNICAL

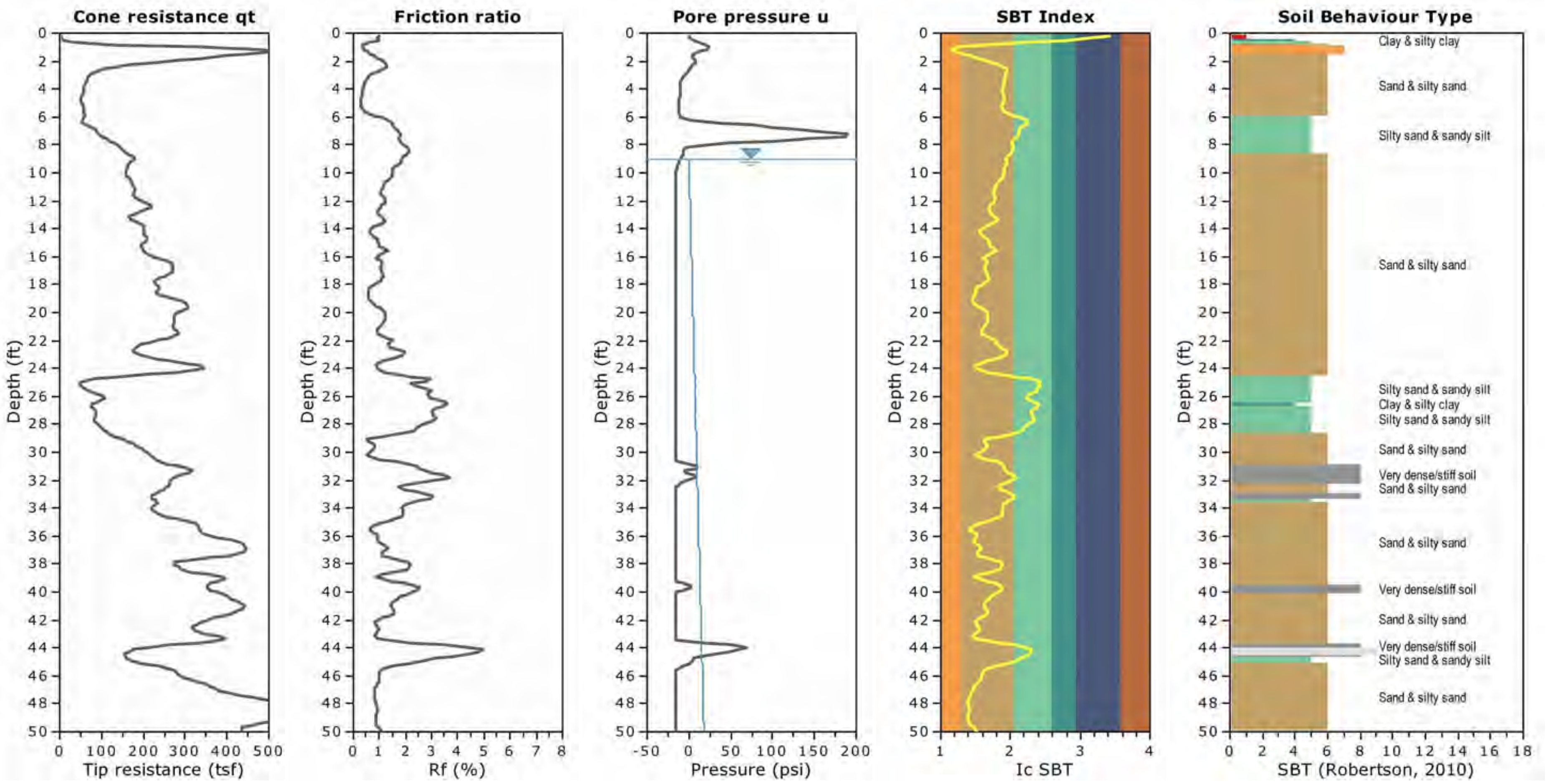
SEISMIC HAZARDS ZONE MAP

Date 12/12/19	Project No. 17-1404	Figure 5

APPENDIX A

Cone Penetration Test Results

DRAFT



SBT legend

- 🟥 1. Sensitive fine grained
- 🟫 2. Organic material
- 🟦 3. Clay to silty clay
- 🟩 4. Clayey silt to silty clay
- 🟩 5. Silty sand to sandy silt
- 🟫 6. Clean sand to silty sand
- 🟧 7. Gravely sand to sand
- ⬛ 8. Very stiff sand to clayey sand
- ⬜ 9. Very stiff fine grained

Total depth: 50.03 ft, Date: 12/04/2017
Estimated Groundwater Depth: 9 feet bgs
Cone Operator: Gregg Drilling Inc.

THE PHOENIX
9TH & PINE STREET
Oakland, California

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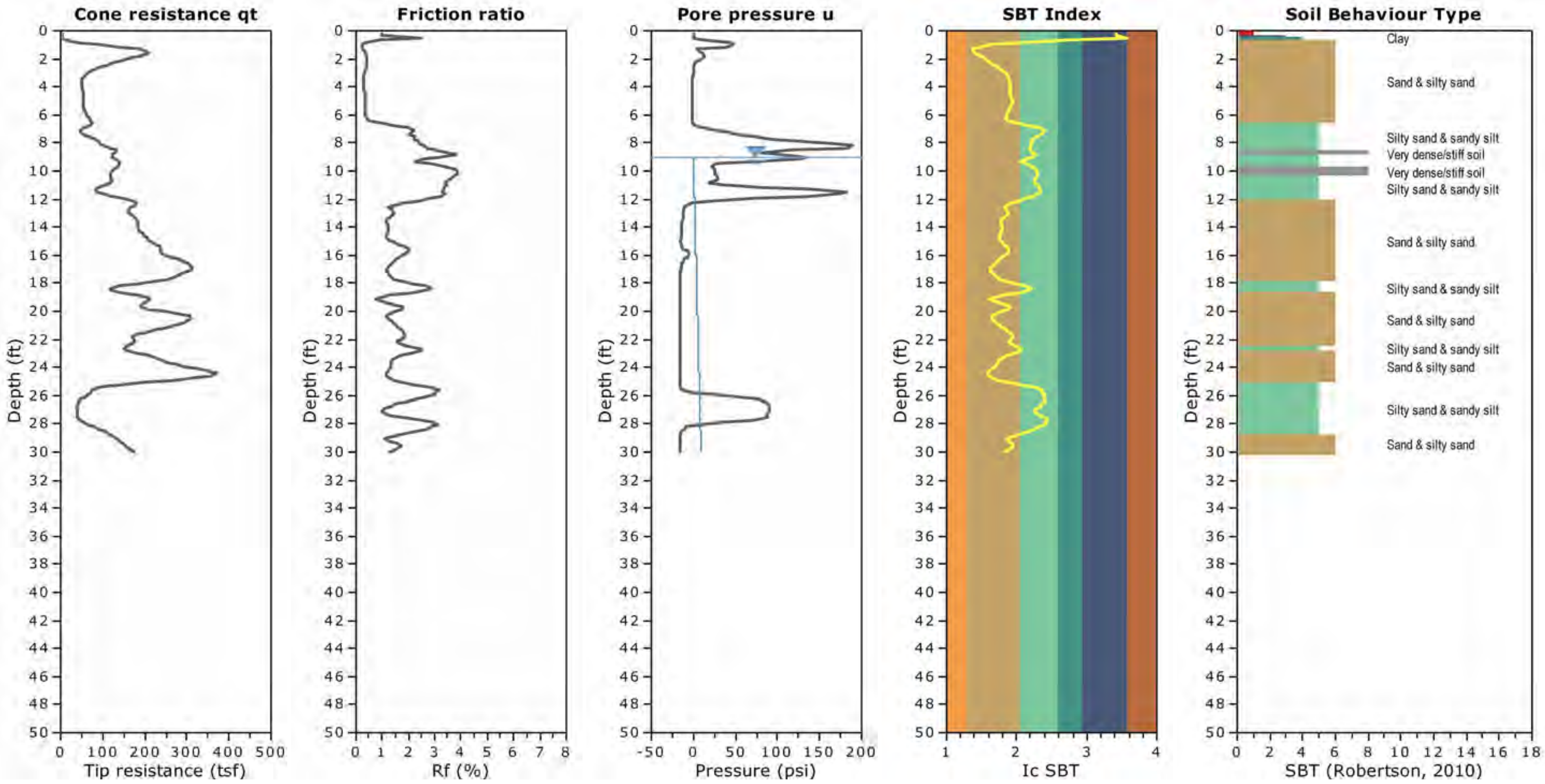
GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-6

Date 12/12/19 | Project No. 17-1404 | Figure A-1

DRAFT



SBT legend

- 🟥 1. Sensitive fine grained
- 🟫 2. Organic material
- 🟦 3. Clay to silty clay
- 🟩 4. Clayey silt to silty clay
- 🟩 5. Silty sand to sandy silt
- 🟫 6. Clean sand to silty sand
- 🟧 7. Gravely sand to sand
- ⬜ 8. Very stiff sand to clayey sand
- ⬜ 9. Very stiff fine grained

Total depth: 30.02 ft, Date: 12/04/2017
Estimated Groundwater Depth: 9 feet bgs
Cone Operator: Gregg Drilling Inc.

THE PHOENIX
9TH & PINE STREET
Oakland, California

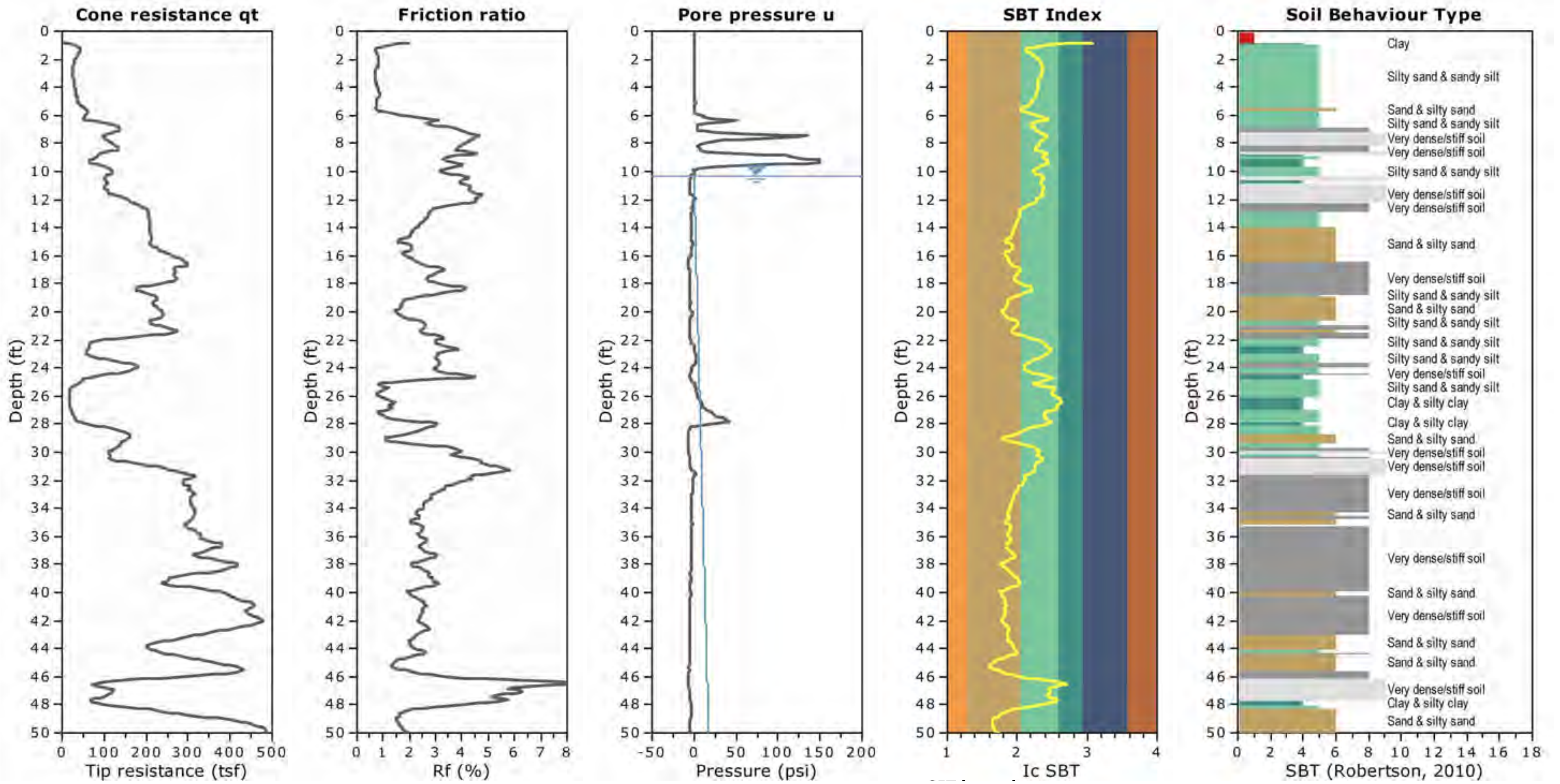
ROCKRIDGE
GEOTECHNICAL

CONE PENETRATION TEST RESULTS

CPT-7

Date 12/12/19	Project No. 17-1404	Figure A-2

DRAFT



SBT legend

- 🟥 1. Sensitive fine grained
- 🟫 2. Organic material
- 🟦 3. Clay to silty clay
- 🟩 4. Clayey silt to silty clay
- 🟩 5. Silty sand to sandy silt
- 🟫 6. Clean sand to silty sand
- 🟧 7. Gravely sand to sand
- ⬛ 8. Very stiff sand to clayey sand
- ⬜ 9. Very stiff fine grained

Total depth: 100.56 ft, Date: 11/19/2019
Estimated Groundwater Depth: 10 feet bgs (PPD)
Cone Operator: ConeTec, Inc.

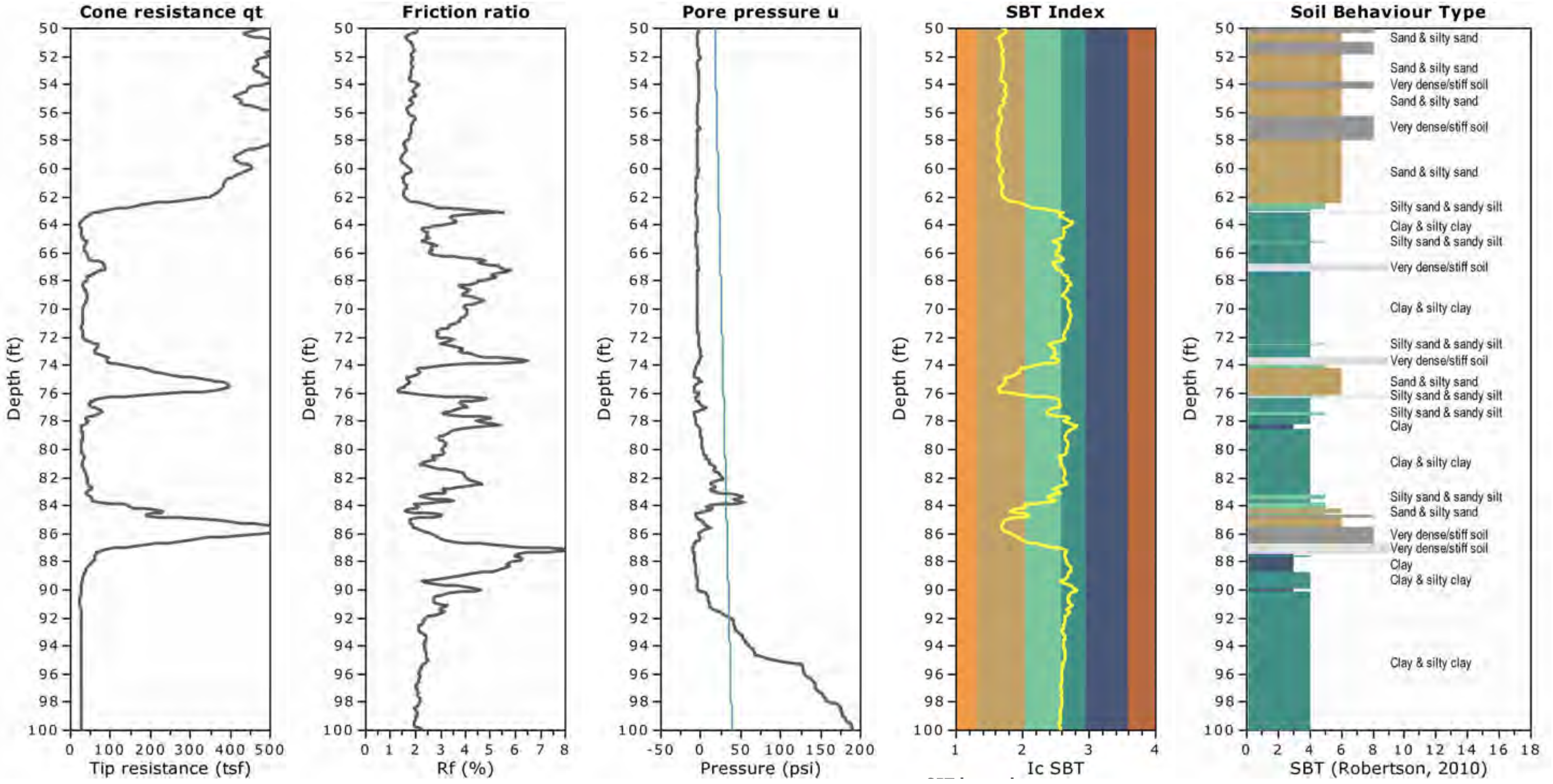
THE PHOENIX
9TH & PINE STREET
Oakland, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-16

Date 12/13/19	Project No. 17-1404	Figure A-3a

DRAFT



SBT legend

🟥 1. Sensitive fine grained	🟩 4. Clayey silt to silty clay	🟧 7. Gravely sand to sand
🟫 2. Organic material	🟩 5. Silty sand to sandy silt	⬛ 8. Very stiff sand to clayey sand
🟦 3. Clay to silty clay	🟫 6. Clean sand to silty sand	⬜ 9. Very stiff fine grained

Total depth: 100.56 ft, Date: 11/19/2019
Estimated Groundwater Depth: 10 feet bgs (PPD)
Cone Operator: ConeTec, Inc.

THE PHOENIX
9TH & PINE STREET
Oakland, California

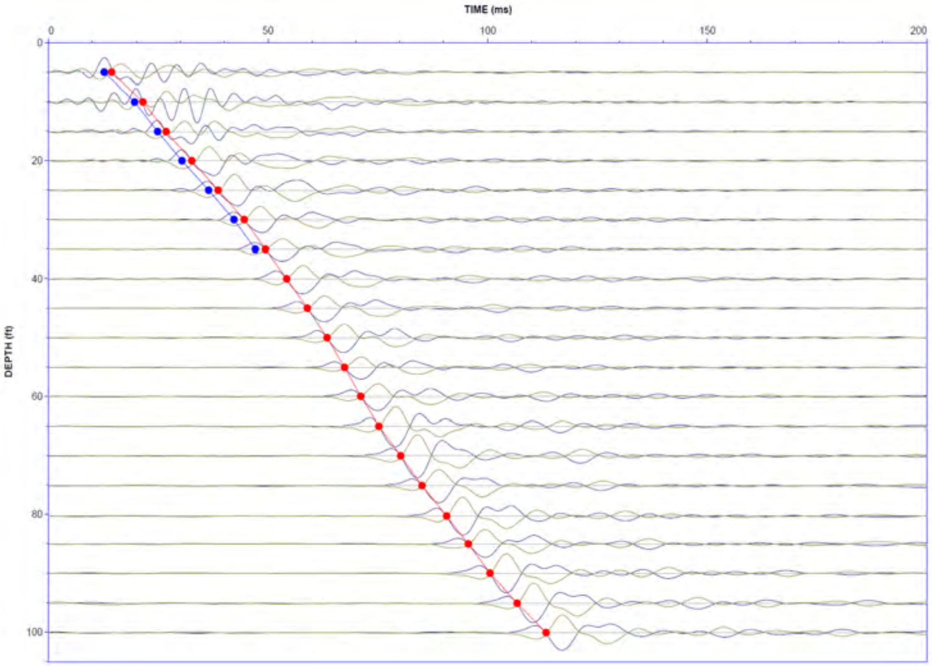
ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-16

Date 12/13/19	Project No. 17-1404	Figure A-3b

DRAFT

Seismic Source: Beam
Source Offset (ft): 2.10
Source Depth (ft): 0.00
Geophone Offset (ft): 0.66



SCPTu SHEAR WAVE VELOCITY TEST RESULTS - Vs

Tip Depth (ft)	Geophone Depth (ft)	Ray Path (ft)	Ray Path Difference (ft)	Travel Time Interval (ms)	Interval Velocity (ft/s)
5.02	4.36	4.84			
10.01	9.35	9.58	4.74	7.05	673
15.03	14.37	14.52	4.94	5.25	940
20.01	19.36	19.47	4.95	5.70	868
25.03	24.38	24.47	5.00	6.04	827
30.02	29.36	29.44	4.97	5.85	850
35.04	34.38	34.45	5.01	4.85	1032
40.03	39.37	39.43	4.98	4.84	1028
45.01	44.36	44.41	4.98	4.69	1061
50.03	49.38	49.42	5.01	4.49	1117
55.12	54.46	54.50	5.08	3.99	1275
60.04	59.38	59.42	4.92	3.71	1326
65.03	64.37	64.40	4.98	4.12	1208
70.05	69.39	69.42	5.02	4.95	1015
75.13	74.47	74.50	5.08	4.84	1049
80.31	79.66	79.69	5.18	5.61	923
85.07	84.42	84.44	4.76	4.94	963
90.06	89.40	89.43	4.99	4.94	1008
95.08	94.42	94.45	5.02	6.19	811
100.07	99.41	99.43	4.99	6.60	755

Total depth: 100.56 ft, Date: 11/19/2019
Estimated Groundwater Depth: 10 feet bgs (PPD)
Cone Operator: ConeTec, Inc.

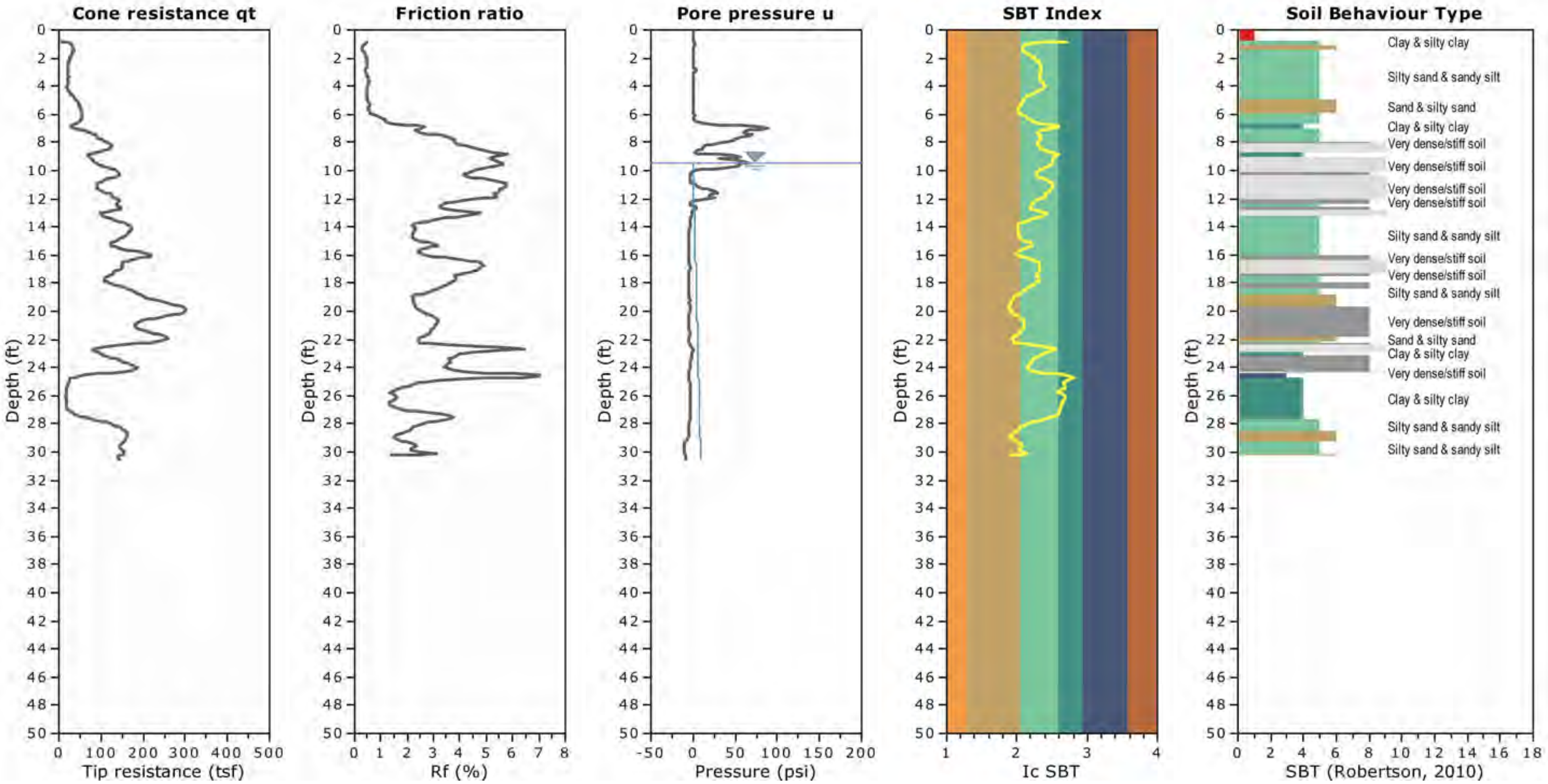
THE PHOENIX
9TH & PINE STREET
Oakland, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-16

Date 12/13/19 | Project No. 17-1404 | Figure A-3c

DRAFT



SBT legend

🟥 1. Sensitive fine grained	🟩 4. Clayey silt to silty clay	🟧 7. Gravely sand to sand
🟫 2. Organic material	🟩 5. Silty sand to sandy silt	⬛ 8. Very stiff sand to clayey sand
🟦 3. Clay to silty clay	🟫 6. Clean sand to silty sand	⬜ 9. Very stiff fine grained

Total depth: 30.51 ft, Date: 11/20/2019
Estimated Groundwater Depth: 9.5 feet bgs (PPD)
Cone Operator: ConeTec, Inc.

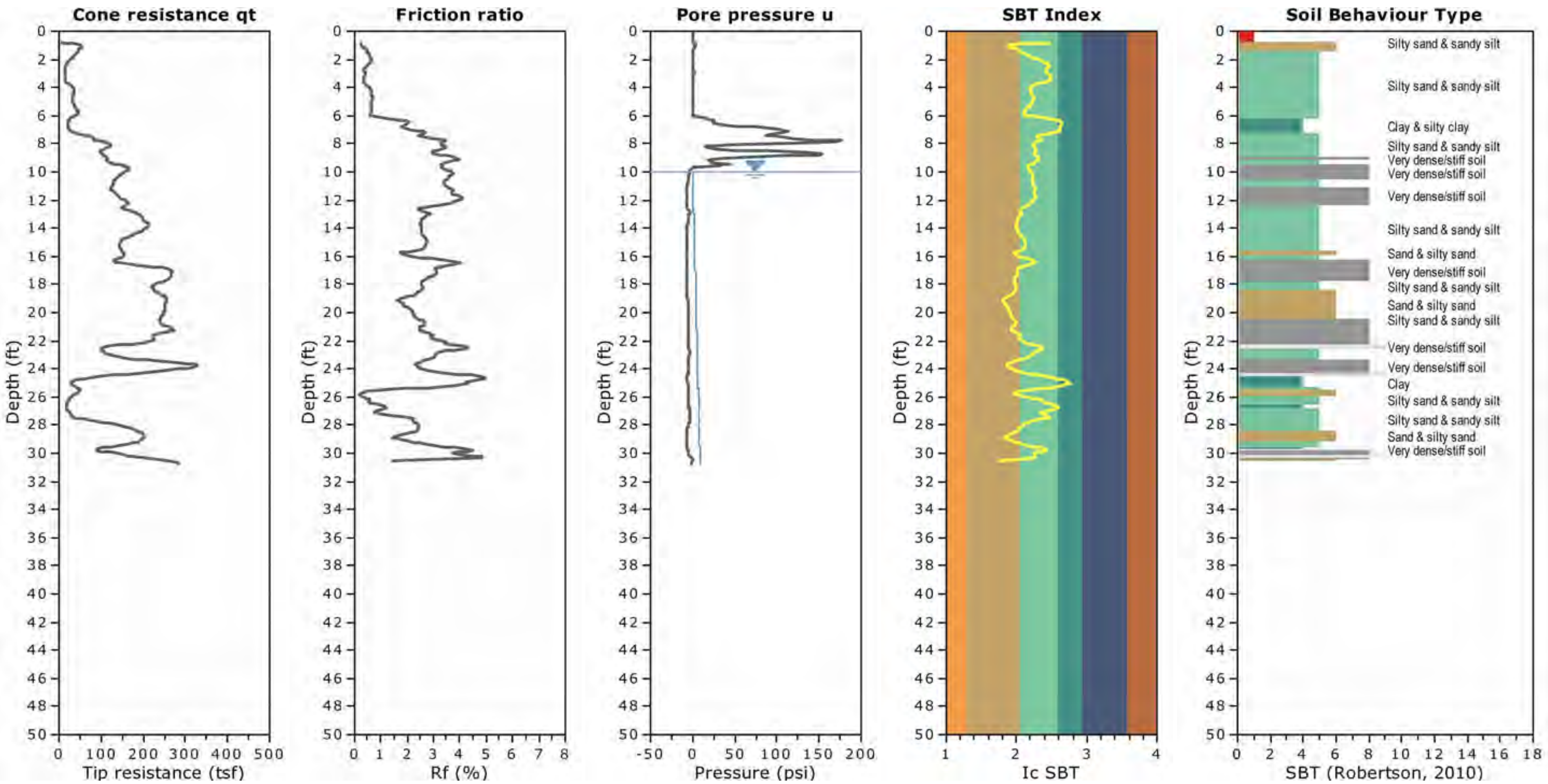
THE PHOENIX
9TH & PINE STREET
Oakland, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-17

Date 12/13/19	Project No. 17-1404	Figure A-4

DRAFT



SBT legend

🟥 1. Sensitive fine grained
🟫 2. Organic material
🟦 3. Clay to silty clay
🟩 4. Clayey silt to silty clay
🟩 5. Silty sand to sandy silt
🟨 6. Clean sand to silty sand
🟧 7. Gravely sand to sand
⬛ 8. Very stiff sand to clayey sand
⬜ 9. Very stiff fine grained

Total depth: 30.76 ft, Date: 11/19/2019
Estimated Groundwater Depth: 10 feet bgs (PPD)
Cone Operator: ConeTec, Inc.

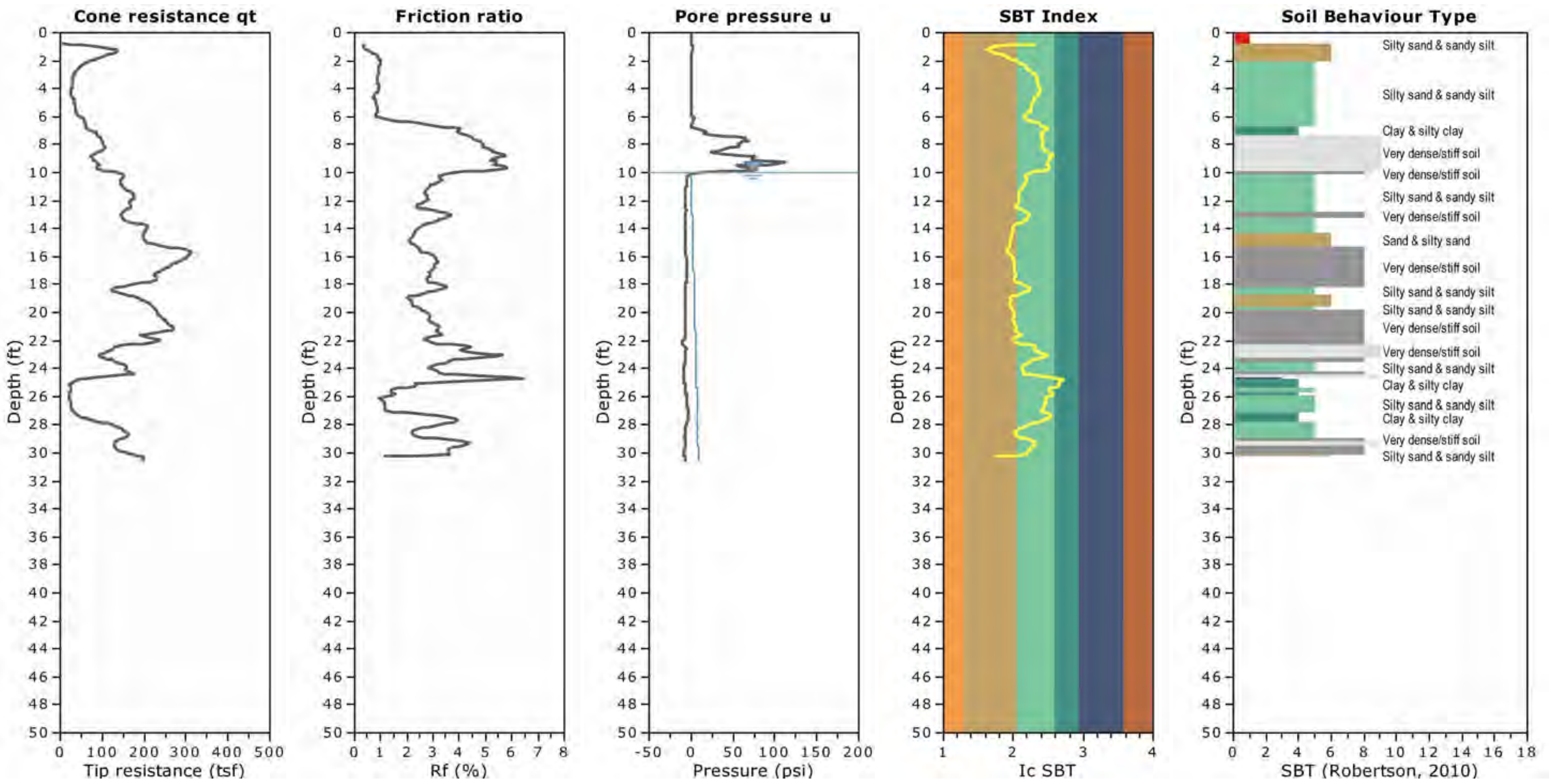
THE PHOENIX
9TH & PINE STREET
Oakland, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-18

Date 12/13/19 | Project No. 17-1404 | Figure A-5

DRAFT



SBT legend

🟥 1. Sensitive fine grained	🟦 4. Clayey silt to silty clay	🟧 7. Gravely sand to sand
🟫 2. Organic material	🟩 5. Silty sand to sandy silt	⬛ 8. Very stiff sand to clayey sand
🟦 3. Clay to silty clay	🟫 6. Clean sand to silty sand	⬜ 9. Very stiff fine grained

Total depth: 30.51 ft, Date: 11/20/2019
Estimated Groundwater Depth: 10 feet bgs (PPD)
Cone Operator: ConeTec, Inc.

THE PHOENIX
9TH & PINE STREET
Oakland, California

ROCKRIDGE
GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-19

Date 12/13/19	Project No. 17-1404	Figure A-6

APPENDIX B

Log of Boring and Laboratory Test Results

DRAFT

PROJECT: **THE PHOENIX**
9TH & PINE STREET
Oakland, California

Log of Boring HA-17

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2
Date started: 11/20/2019
Date finished: 11/20/2019
Drilling method: 3-inch-diameter hand-auger
Hammer weight/drop: N/A
Hammer type: N/A
Sampler: Grab
Logged by: M. Hachey

DEPTH (feet)	SAMPLES Sampler Type	Sample	Blows/ 6"	SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
						5 inch thick concrete slab						
					SP	SAND (SP) dark brown, loose, moist, fine- to medium-grained sand, trace silt						
1												
	GRAB	☒										
2												
3	GRAB	☒			SP-SM	SAND with SILT (SP-SM) brown, loose, moist, fine-grained sand						
4												
						yellow-brown						
	GRAB	☒										
5												
6												
7												
8												
9												
10												

Boring terminated at a depth of 5 feet below ground surface.
Boring backfilled with cement grout.
Groundwater not encountered during hand-augering.

ROCKRIDGE GEOTECHNICAL

Project No.: 17-1404
Figure: B-1

DRAFT

UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions		Symbols	Typical Names
Coarse-Grained Soils (more than half of soil > no. 200 sieve size)	Gravels (More than half of coarse fraction > no. 4 sieve size)	**GW**	Well-graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	Sands (More than half of coarse fraction < no. 4 sieve size)	**SW**	Well-graded sands or gravelly sands, little or no fines
		SP	Poorly-graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
Fine -Grained Soils (more than half of soil < no. 200 sieve size)	Silts and Clays LL = < 50	**ML**	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
		OL	Organic silts and organic silt-clays of low plasticity
	Silts and Clays LL = > 50	**MH**	Inorganic silts of high plasticity
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic silts and clays of high plasticity
Highly Organic Soils		**PT**	Peat and other highly organic soils

GRAIN SIZE CHART

Classification	Range of Grain Sizes	
	U.S. Standard Sieve Size	Grain Size in Millimeters
Boulders	Above 12"	Above 305
Cobbles	12" to 3"	305 to 76.2
Gravel coarse fine	3" to No. 4 3" to 3/4" 3/4" to No. 4	76.2 to 4.76 76.2 to 19.1 19.1 to 4.76
Sand coarse medium fine	No. 4 to No. 200 No. 4 to No. 10 No. 10 to No. 40 No. 40 to No. 200	4.76 to 0.075 4.76 to 2.00 2.00 to 0.420 0.420 to 0.075
Silt and Clay	Below No. 200	Below 0.075

▽ Unstabilized groundwater level

▼ Stabilized groundwater level

SAMPLE DESIGNATIONS/SYMBOLS

⬒ Sample taken with Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter. Darkened area indicates soil recovered

⧄ Classification sample taken with Standard Penetration Test sampler

◨ Undisturbed sample taken with thin-walled tube

⊠ Disturbed sample

⊡ Sampling attempted with no recovery

◫ Core sample

▣ Analytical laboratory sample

▥ Sample taken with Direct Push sampler

▥ Sonic

SAMPLER TYPE

C	Core barrel
CA	California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter
D&M	Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube
O	Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube
PT	Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube
S&H	Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter
SPT	Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter
ST	Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure

THE PHOENIX
9TH & PINE STREET
Oakland, California

ROCKRIDGE
GEOTECHNICAL

CLASSIFICATION CHART

Date 12/18/19 | Project No. 17-1404 | Figure B-2

REPORT S191210C
Figure B-4

Soil Analysis Lab Results

Client: Rockridge Geotechnical, Inc.
Job Name: 9th and Pine Street
Client Job Number: 17-1404
Project X Job Number: S191210C
December 13, 2019

	Method	ASTM D4327		ASTM D4327		ASTM G187		ASTM G51	ASTM G200	SM 4500-S2-D	ASTM D4327	ASTM D4327	ASTM D4327	ASTM D4327	ASTM D4327	ASTM D4327	ASTM D4327	ASTM D4327	ASTM D4327
Bore# / Description	**Depth**	**Sulfates** SO_4^{2-}		**Chlorides** Cl^-		**Resistivity** As Rec'd	Minimum	**pH**	**Redox**	**Sulfide** S^{2-}	**Nitrate** NO_3^-	**Ammonium** NH_4^+	**Lithium** Li^+	**Sodium** Na^+	**Potassium** K^+	**Magnesium** Mg^{2+}	**Calcium** Ca^{2+}	**Flouride** F_2^{--}	**Phosphate** PO_4^{3-}
	(ft)	(mg/kg)	(wt%)	(mg/kg)	(wt%)	(Ohm-cm)	(Ohm-cm)		(mV)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
HA-B	2.5-3.0	27.1	0.0027	0.5	0.0001	25,460	8,040	8.3	123.0	1.8	33.0	ND	ND	72.1	16.5	ND	19.9	ND	ND
HA-F	2.0-3.0	61.9	0.0062	4.3	0.0004	16,080	5,360	7.7	146.0	0.6	56.7	ND	ND	61.4	8.0	0.8	14.3	ND	ND

Cations and Anions, except Sulfide and Bicarbonate, tested with Ion Chromatography
mg/kg = milligrams per kilogram (parts per million) of dry soil weight
ND = 0 = Not Detected | NT = Not Tested | Unk = Unknown
Chemical Analysis performed on 1:3 Soil-To-Water extract

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APPENDIX I

NOISE

30 September 2022

David Chen
East Bay Asian Local Development Corporation
1825 San Pablo Avenue, Suite 200
Oakland, CA 94612
david.chen@ebaldc.org

Subject: **Phoenix Supportive Housing**
HUD Environmental Noise Analysis
Salter Project 20-0170

Dear David:

We have reviewed the City's comments on the Housing and Urban Development (HUD) Environmental Noise Analysis as it relates to our environmental noise study for the project. This report addresses the City's comments and HUD requirements.

CRITERIA

HUD defines areas exposed to less than DNL[1] 65 dB as "Acceptable". Areas exposed to noise levels between DNL 65 and 75 dB are defined as "Normally Acceptable". Areas exposed to DNL greater than 75 dB are considered "Unacceptable".

HUD has a goal stating that indoor noise levels should not exceed DNL 45 dB. This is consistent with the California Building Code (Title 24).

HUD also has a goal for outdoor-use spaces, which states that the DNL should not exceed 65 dB. We have applied this goal to the central courtyard accessible to the residents.

---

[1] Day-Night Average Sound Level (DNL) – A descriptor established by the U.S. Environmental Protection Agency to represent a 24-hour average noise level with a 10 dB penalty applied to noise occurring during the nighttime hours (10 p.m. to 7 a.m.) to account for the increased sensitivity of people during sleeping hours.

NOISE ENVIRONMENT

The project consists of a new affordable modular apartment building in West Oakland. Interstate 880 (I-880) is approximately 220 feet to the west, Frontage Road is approximately 115 feet to the west, 7th Street is approximately 450 feet to the south, and BART tracks are approximately 600 feet to the south.

The noise environment at the site is predominantly controlled by traffic on I-880 and Frontage Road. Due to the barrier wall along the west project boundary, these roadways contribute more to the noise environment at higher elevations.

We have completed the assessment at seven Noise Assessment Locations (NAL), which are shown in **Figure 1**.

- NAL1: West facade
- NAL2: North facade
- NAL3: East facade closest to Pine Street
- NAL4: South facade furthest from Shorey Street
- NAL5: East facade furthest from Pine Street
- NAL6: South facade closest to Shorey Street
- NAL7: Central courtyard

ANALYSIS

Exterior Noise

We used the DNL Calculator and Barrier Performance Module (BPM) to analyze exterior noise levels at the building facades and the outdoor use space. The analysis uses published traffic volumes (2017 AADT) from the California Department of Transportation (DOT) for I-880, Port of Oakland traffic data for Frontage Road[2], the provided 2018 AADT for 7th Street, and BART train schedules.

The traffic volume increase along I-880 and Frontage Road is based on the California Department of Transportation (DOT) historical average of a 3-percent increase per year, which accounts for a 1 dB noise level increase over 10 years. The West Oakland Environmental Impact Report assumes a 3.95-percent increase in total traffic volume on local roads (i.e., 7th Street) by 2035[3].

---

[2] Email from Audrey Harris at the Department of Transportation, 13 September 2022.

[3] A 3.95-percent increase in traffic equates to approximately 0.2 dB increase in noise.

We understand that traffic was reduced during the 2020 COVID-19 pandemic. However, we assume that traffic patterns have resumed near to their pre-pandemic levels and the 3-percent annual increase on major roadways (i.e., 1 dB increase in noise over 10 years), as well as a 3.95-percent increase on local roads by 2035, is considered conservative.

Per HUD guidelines, FAA-regulated airfields within 15 miles of the project site must be assessed as potential noise generators. The Oakland and San Francisco International Airports are approximately 7 miles and 13 miles away, respectively. However, the project site is not within the noise contours of either airport. Therefore, aircraft noise was not included in this analysis.

At the central courtyard (NAL7), the noise level is calculated to be less than DNL 65 dB, which is considered “Acceptable” per the HUD guidelines.

See **Appendix A** for the HUD DNL calculations. See **Appendix B** for the BPM calculations. Since the HUD Exchange tools do not allow for a detailed analysis of the barrier effects from each noise source, we have included **Appendix C** with a comprehensive table of DNL and BPM calculations at each NAL that accurately reflects the expected noise levels around the project site. See **Appendix D** for the Oakland and San Francisco airport noise contour maps.

Interior Noise

Our analysis of interior noise levels using the Sound Transmission Classification Assessment Tool (STraCAT) is based on the Site Permit Set dated 15 November 2019.

At the west facade (NAL1), the noise level is calculated to be DNL 78 dB, which is considered “Unacceptable”. The STraCAT was used at NAL1 to show how interior noise levels can meet DNL 45 dB with the planned upgraded exterior wall assembly and STC[5] 40 windows.

At the north facade (NAL2) and the south facade (NAL6), noise levels are calculated to be between DNL 72 and 74 dB, which are considered “Normally Unacceptable”. The STraCAT was used at NAL2 and NAL6 to show how interior noise levels can meet DNL 45 dB with the planned exterior wall and windows assemblies.

At the east facades (NAL3 and NAL5) and the south facade (NAL4), noise levels are calculated to be between DNL 59 and 62 dB, which are considered “Acceptable”. Therefore, no further analysis with the STraCAT is needed for NAL3, NAL4, and NAL5.

---

[5] STC (Sound Transmission Class) – A single-number rating defined in ASTM E90 that quantifies the airborne sound insulating performance of a partition under laboratory conditions. Increasing STC ratings correspond to improved airborne sound insulation.

See **Appendix E** for the STraCAT calculations at NAL1, NAL2, and NAL6. At each NAL, noise can be reduced to meet the HUD and CBC requirement of DNL 45 dB inside residences. These calculations are in line with the noise measurements conducted at the site and the window STC recommendations given in our Environmental Noise Study (dated 2 April 2020).

* * *

This concludes our HUD Environmental Noise Analysis for the Phoenix Supportive Housing project. Should you have any questions, please give us a call.

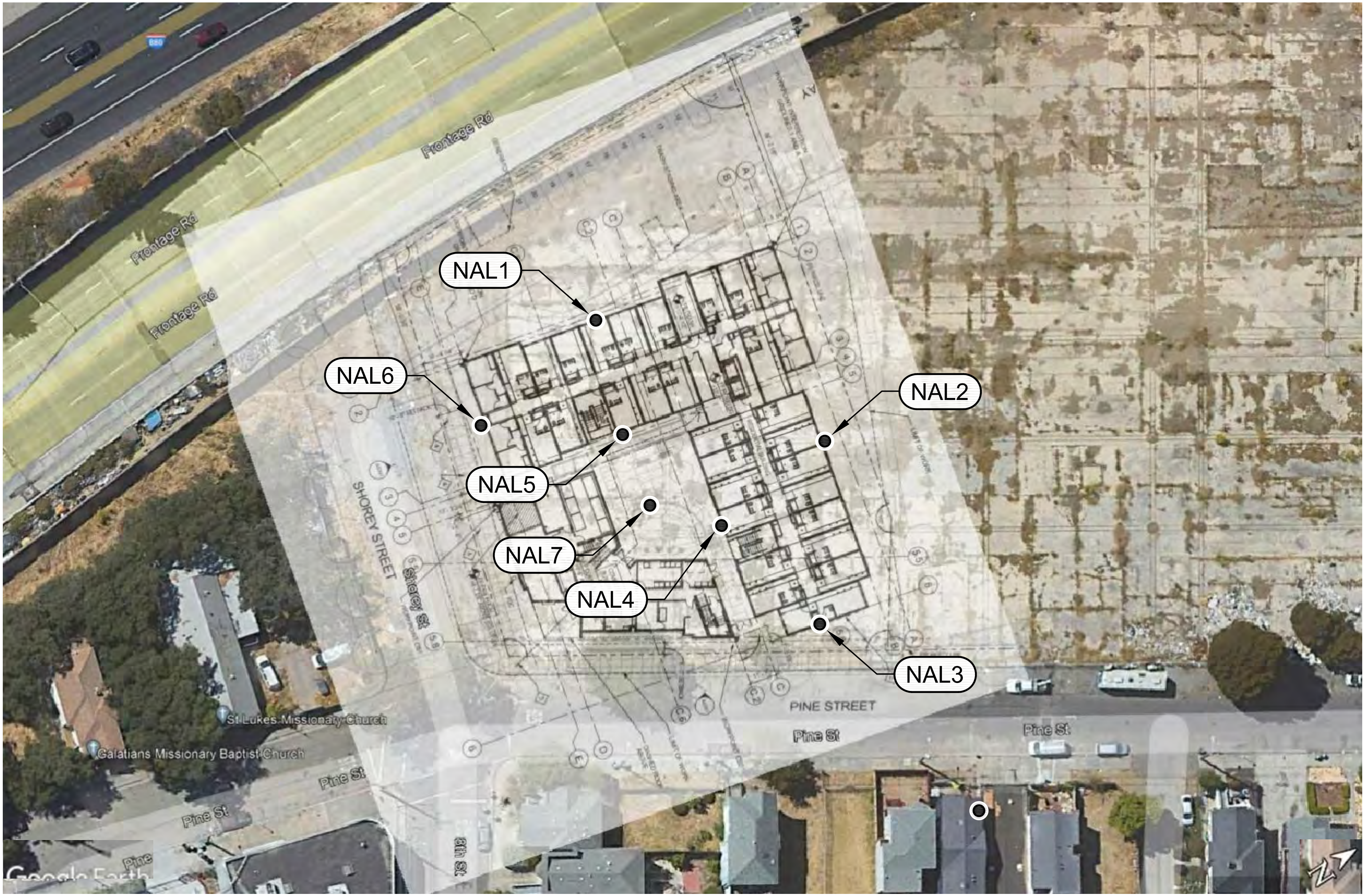
Best,

SALTER

Blake Wells, LEED GA
Associate

Eric Mori, PE
Senior Vice President

Enclosure



SALTER © 2021
FOR ACOUSTICAL DESIGN INFORMATION ONLY

PHOENIX SUPPORTIVE HOUSING HUD NOISE ASSESSMENT LOCATIONS

FIGURE 1

Salter #
20–0170

BMW/EBM
10.04.21

APPENDIX A

HUD DNL Calculations

NAL1 (West)

Home (/) > Programs (/programs/) > Environmental Review (/programs/environmental-review/) > DNL Calculator

DNL Calculator

The Day/Night Noise Level Calculator is an electronic assessment tool that calculates the Day/Night Noise Level (DNL) from roadway and railway traffic. For more information on using the DNL calculator, view the **Day/Night Noise Level Calculator Electronic Assessment Tool Overview (/programs/environmental-review/daynight-noise-level-electronic-assessment-tool/)**.

Guidelines

- To display the Road and/or Rail DNL calculator(s), click on the "Add Road Source" and/or "Add Rail Source" button(s) below.
- All Road and Rail input values must be positive non-decimal numbers.
- All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- **Note #1:** Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- **Note #2:** DNL Calculator assumes roadway data is always entered.

DNL Calculator

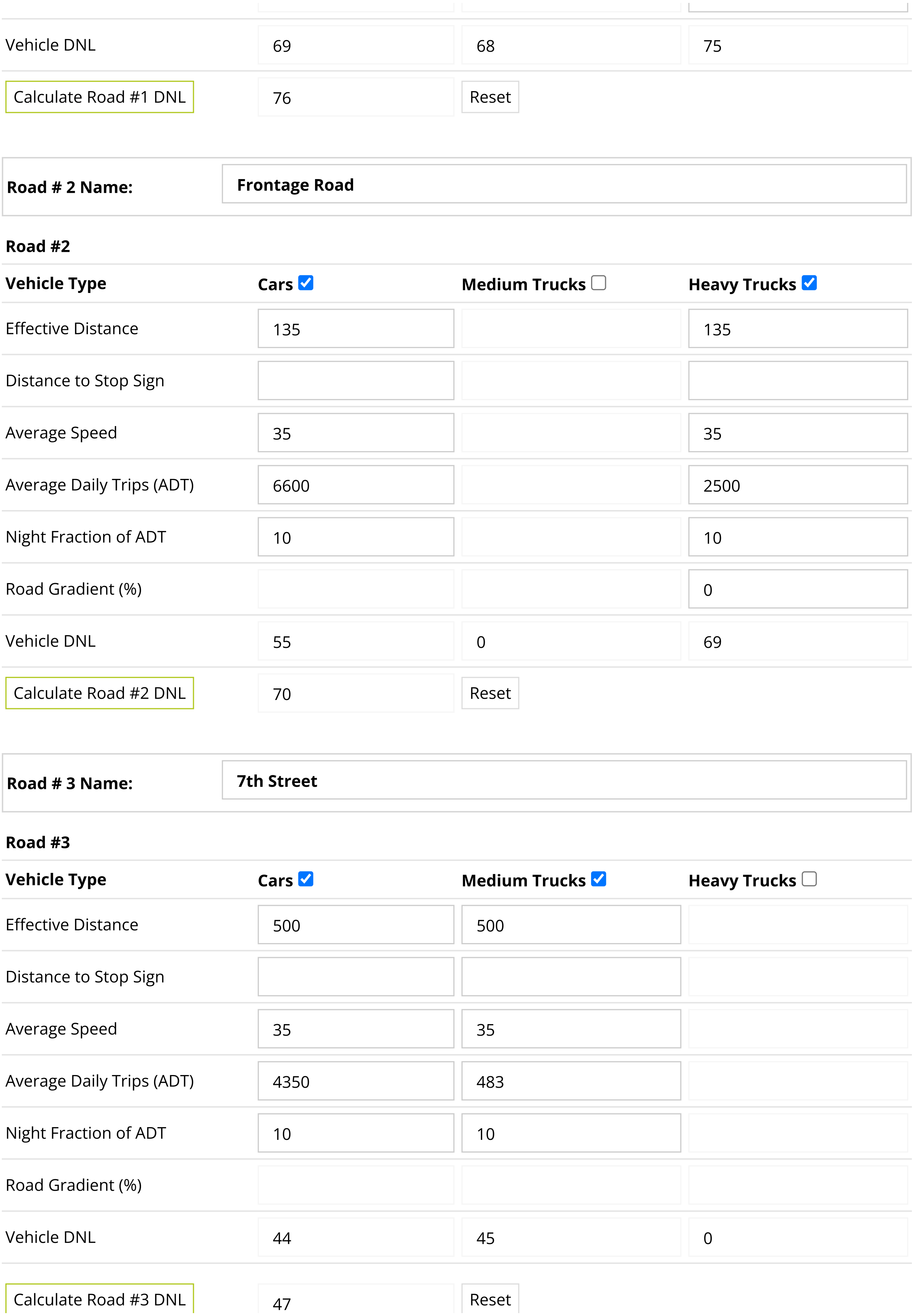
Site ID	Phoenix - NAL1
Record Date	09/29/2022
User's Name	B. Wells, Salter

Road # 1 Name:	**I-880**

Road #1

Vehicle Type	**Cars** ☑	**Medium Trucks** ☑	**Heavy Trucks** ☑
Effective Distance	230	230	230
Distance to Stop Sign			
Average Speed	65	65	65
Average Daily Trips (ADT)	113000	5650	7910
Night Fraction of ADT	10	20	20
Road Gradient (%)			0

NAL1 (West)



Vehicle DNL	69	68	75
Calculate Road #1 DNL	76	Reset	

Road # 2 Name: Frontage Road

Road #2

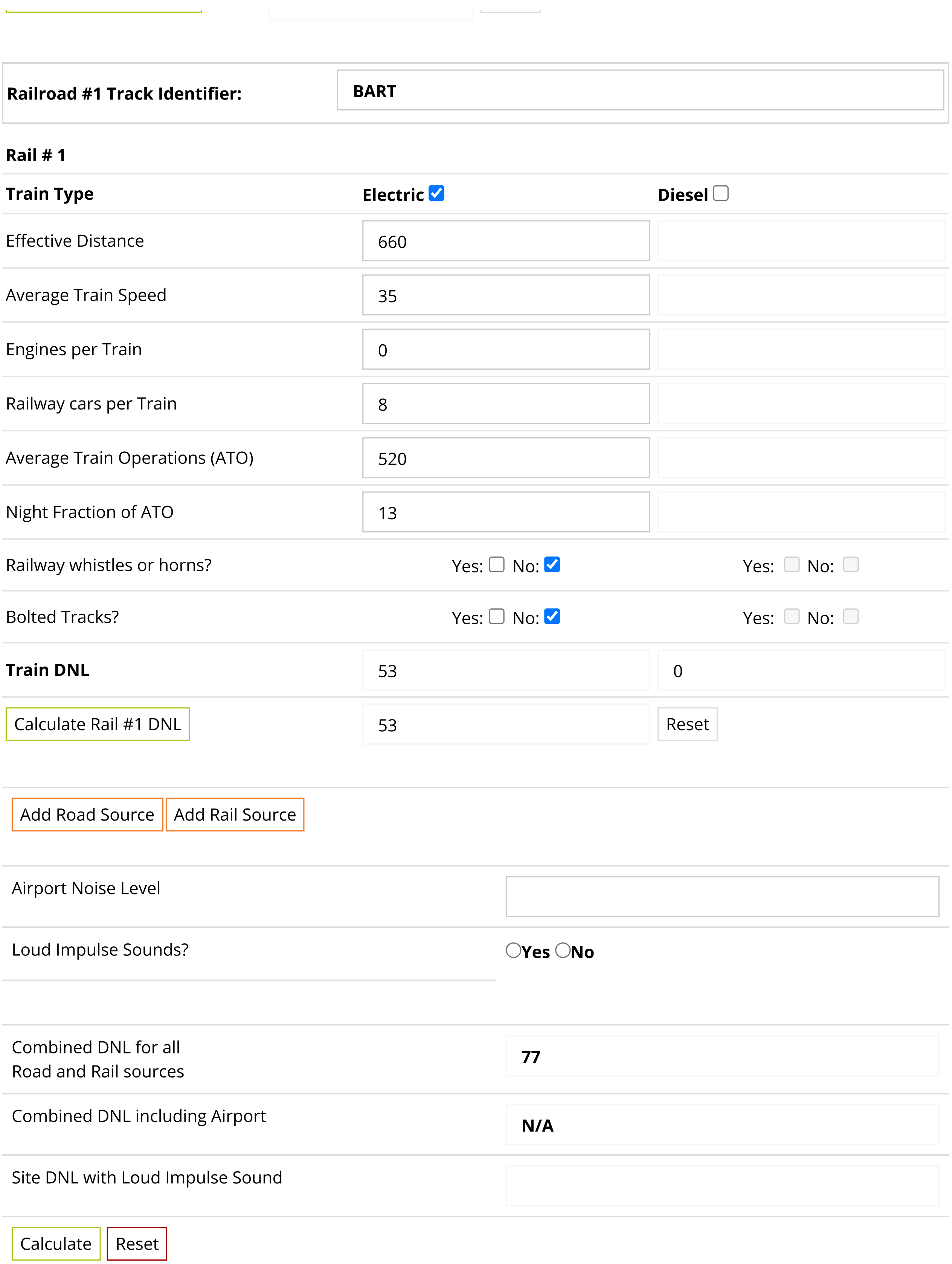
Vehicle Type	**Cars** ☑	**Medium Trucks** ☐	**Heavy Trucks** ☑
Effective Distance	135		135
Distance to Stop Sign			
Average Speed	35		35
Average Daily Trips (ADT)	6600		2500
Night Fraction of ADT	10		10
Road Gradient (%)			0
Vehicle DNL	55	0	69
Calculate Road #2 DNL	70	Reset	

Road # 3 Name: 7th Street

Road #3

Vehicle Type	**Cars** ☑	**Medium Trucks** ☑	**Heavy Trucks** ☐
Effective Distance	500	500	
Distance to Stop Sign			
Average Speed	35	35	
Average Daily Trips (ADT)	4350	483	
Night Fraction of ADT	10	10	
Road Gradient (%)			
Vehicle DNL	44	45	0
Calculate Road #3 DNL	47	Reset	

NAL1 (West)



Railroad #1 Track Identifier: **BART**

Rail # 1

Train Type	**Electric** ☑	**Diesel** ☐
Effective Distance	660	
Average Train Speed	35	
Engines per Train	0	
Railway cars per Train	8	
Average Train Operations (ATO)	520	
Night Fraction of ATO	13	
Railway whistles or horns?	Yes: ☐ No: ☑	Yes: ☐ No: ☐
Bolted Tracks?	Yes: ☐ No: ☑	Yes: ☐ No: ☐
Train DNL	53	0
Calculate Rail #1 DNL	53	Reset

Airport Noise Level	
Loud Impulse Sounds?	○**Yes** ○**No**
Combined DNL for all Road and Rail sources	**77**
Combined DNL including Airport	**N/A**
Site DNL with Loud Impulse Sound	

NAL2 (North)

Home (/) > Programs (/programs/) > Environmental Review (/programs/environmental-review/) > DNL Calculator

DNL Calculator

The Day/Night Noise Level Calculator is an electronic assessment tool that calculates the Day/Night Noise Level (DNL) from roadway and railway traffic. For more information on using the DNL calculator, view the **Day/Night Noise Level Calculator Electronic Assessment Tool Overview (/programs/environmental-review/daynight-noise-level-electronic-assessment-tool/)**.

Guidelines

- To display the Road and/or Rail DNL calculator(s), click on the "Add Road Source" and/or "Add Rail Source" button(s) below.
- All Road and Rail input values must be positive non-decimal numbers.
- All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- **Note #1:** Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- **Note #2:** DNL Calculator assumes roadway data is always entered.

DNL Calculator

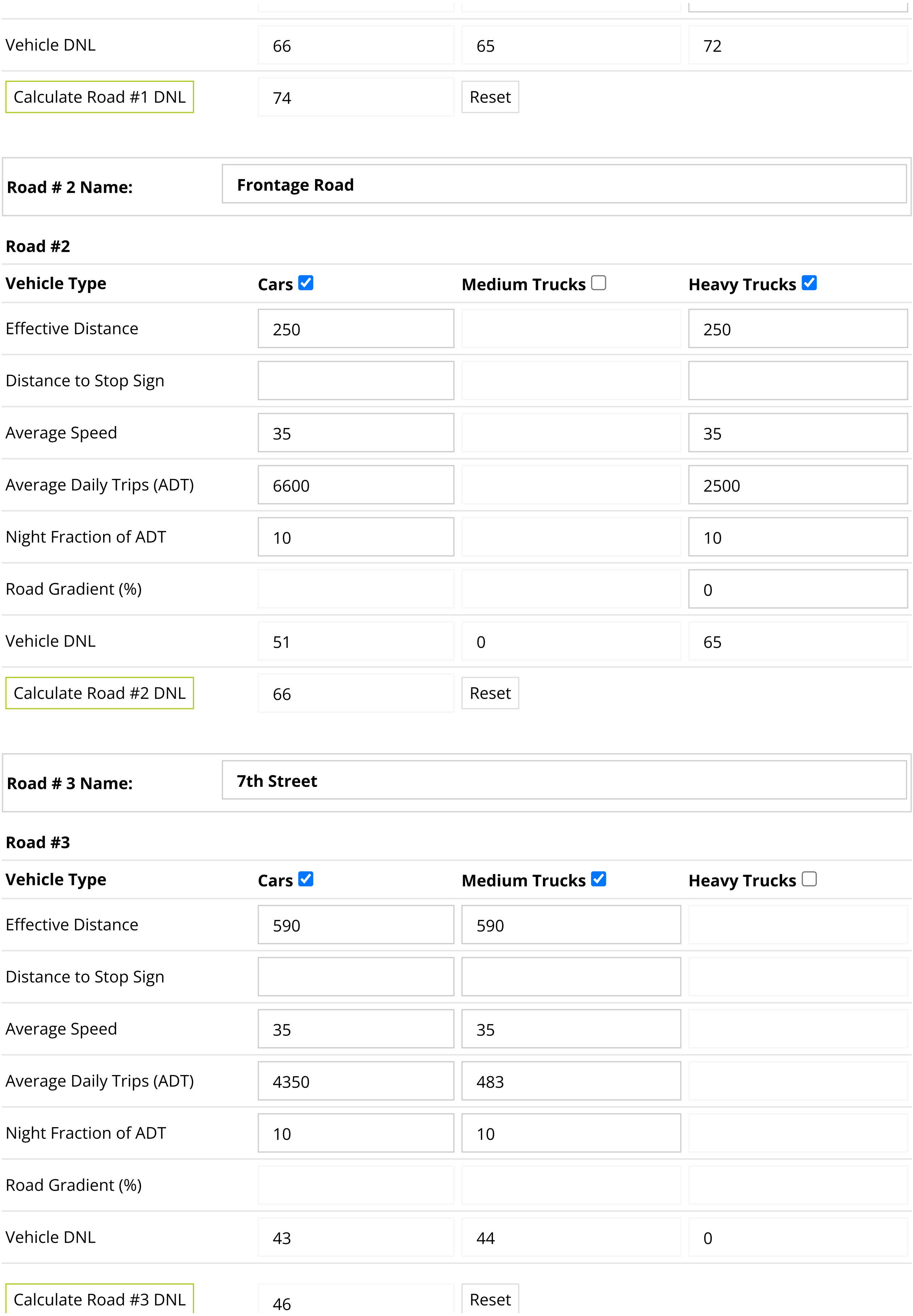
Site ID	Phoenix - NAL2
Record Date	09/29/2022
User's Name	B. Wells, Salter

Road # 1 Name:	**I-880**

Road #1

Vehicle Type	**Cars** ☑	**Medium Trucks** ☑	**Heavy Trucks** ☑
Effective Distance	340	340	340
Distance to Stop Sign			
Average Speed	65	65	65
Average Daily Trips (ADT)	113000	5650	7910
Night Fraction of ADT	10	20	20
Road Gradient (%)			0

NAL2 (North)



Vehicle DNL	66	65	72
Calculate Road #1 DNL	74	Reset	

Road # 2 Name: **Frontage Road**

Road #2

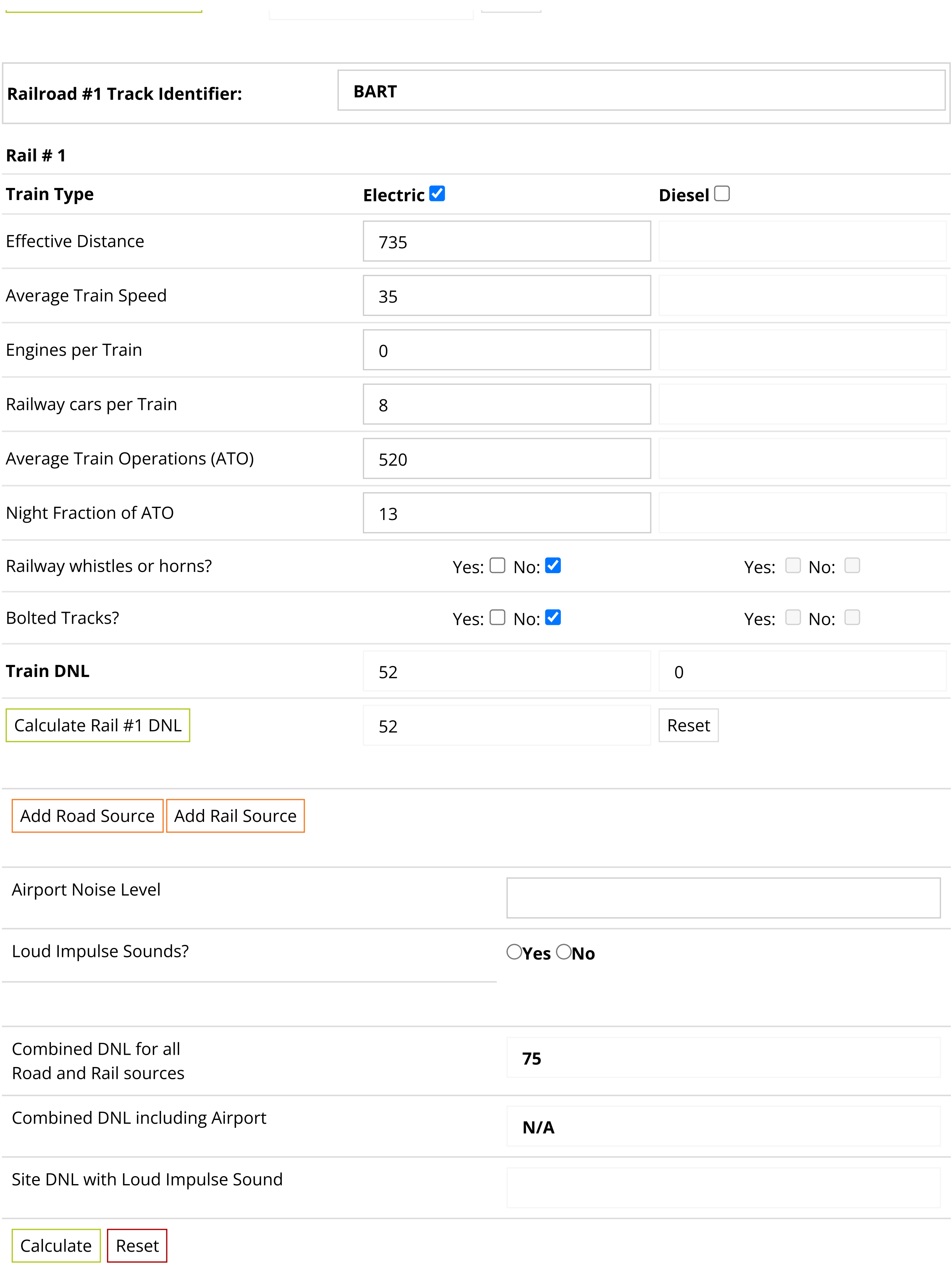
Vehicle Type	**Cars** ☑	**Medium Trucks** ☐	**Heavy Trucks** ☑
Effective Distance	250		250
Distance to Stop Sign			
Average Speed	35		35
Average Daily Trips (ADT)	6600		2500
Night Fraction of ADT	10		10
Road Gradient (%)			0
Vehicle DNL	51	0	65
Calculate Road #2 DNL	66	Reset	

Road # 3 Name: **7th Street**

Road #3

Vehicle Type	**Cars** ☑	**Medium Trucks** ☑	**Heavy Trucks** ☐
Effective Distance	590	590	
Distance to Stop Sign			
Average Speed	35	35	
Average Daily Trips (ADT)	4350	483	
Night Fraction of ADT	10	10	
Road Gradient (%)			
Vehicle DNL	43	44	0
Calculate Road #3 DNL	46	Reset	

NAL2 (North)



Railroad #1 Track Identifier:	**BART**

Rail # 1

Train Type	**Electric** ☑	**Diesel** ☐
Effective Distance	735	
Average Train Speed	35	
Engines per Train	0	
Railway cars per Train	8	
Average Train Operations (ATO)	520	
Night Fraction of ATO	13	
Railway whistles or horns?	Yes: ☐ No: ☑	Yes: ☐ No: ☐
Bolted Tracks?	Yes: ☐ No: ☑	Yes: ☐ No: ☐
Train DNL	52	0
Calculate Rail #1 DNL	52	Reset

Airport Noise Level	
Loud Impulse Sounds?	○**Yes** ○**No**

Combined DNL for all Road and Rail sources	**75**
Combined DNL including Airport	**N/A**
Site DNL with Loud Impulse Sound	

NAL3 (East 1)

DNL Calculator

The Day/Night Noise Level Calculator is an electronic assessment tool that calculates the Day/Night Noise Level (DNL) from roadway and railway traffic. For more information on using the DNL calculator, view the **Day/Night Noise Level Calculator Electronic Assessment Tool Overview (/programs/environmental-review/daynight-noise-level-electronic-assessment-tool/)**.

Guidelines

- To display the Road and/or Rail DNL calculator(s), click on the "Add Road Source" and/or "Add Rail Source" button(s) below.
- All Road and Rail input values must be positive non-decimal numbers.
- All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- **Note #1:** Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- **Note #2:** DNL Calculator assumes roadway data is always entered.

DNL Calculator

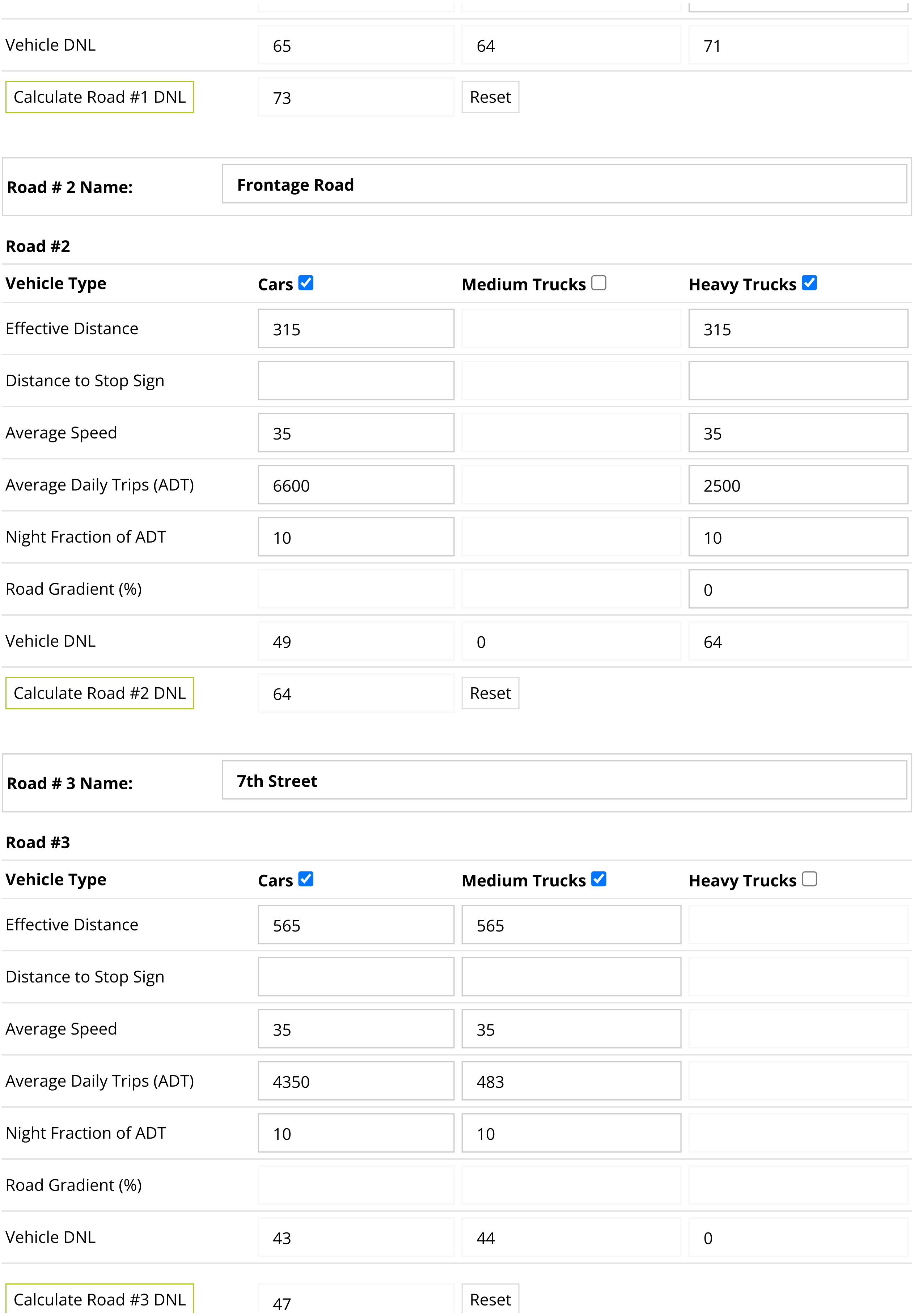
Site ID	Phoenix - NAL3
Record Date	09/29/2022
User's Name	B. Wells, Salter

Road # 1 Name:	**I-880**

Road #1

Vehicle Type	**Cars** ☑	**Medium Trucks** ☑	**Heavy Trucks** ☑
Effective Distance	410	410	410
Distance to Stop Sign			
Average Speed	65	65	65
Average Daily Trips (ADT)	113000	5650	7910
Night Fraction of ADT	10	20	20
Road Gradient (%)			0

NAL3 (East 1)



Vehicle DNL	65	64	71
Calculate Road #1 DNL	73	Reset	

Road # 2 Name: **Frontage Road**

Road #2

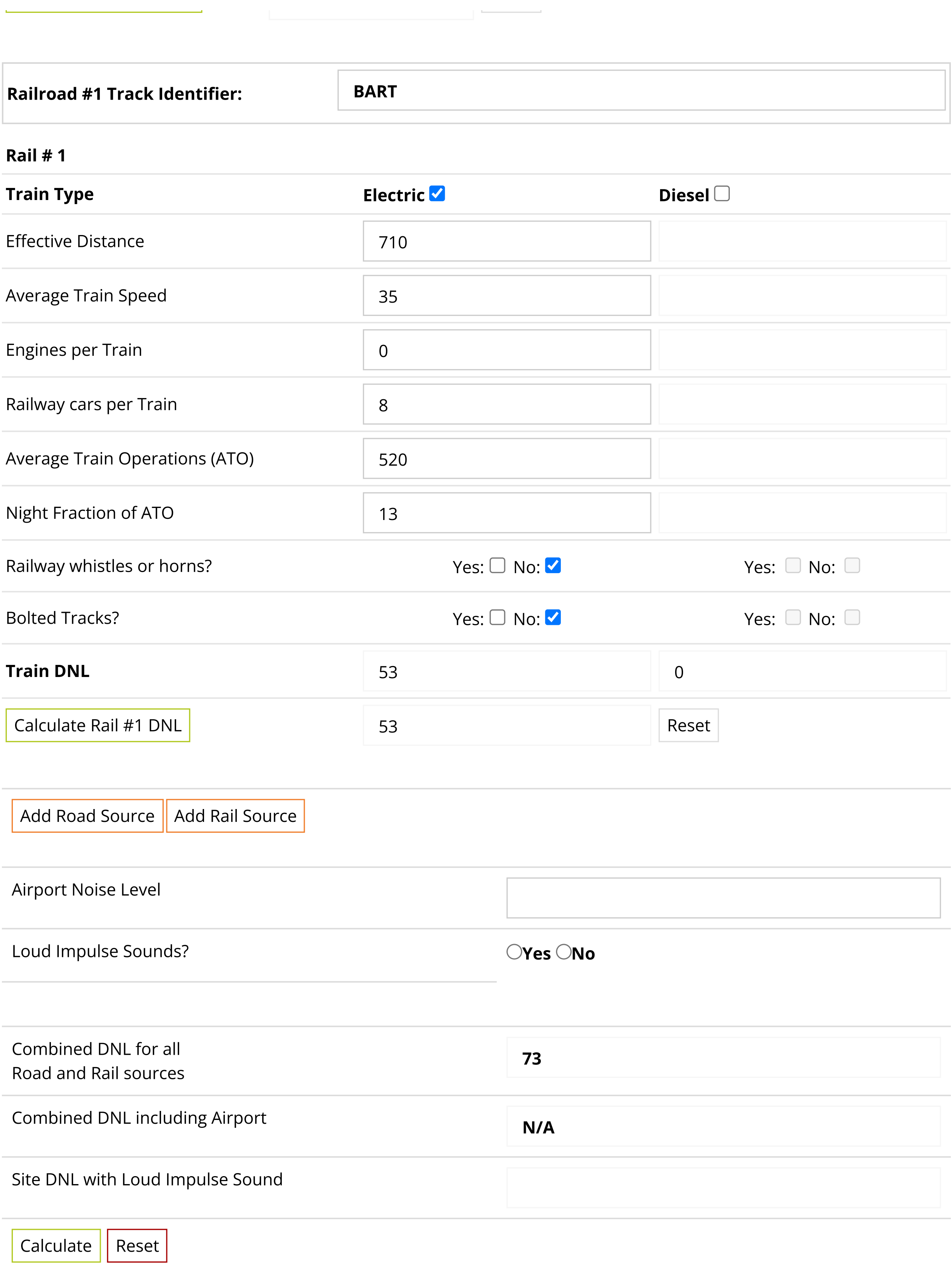
Vehicle Type	**Cars** ☑	**Medium Trucks** ☐	**Heavy Trucks** ☑
Effective Distance	315		315
Distance to Stop Sign			
Average Speed	35		35
Average Daily Trips (ADT)	6600		2500
Night Fraction of ADT	10		10
Road Gradient (%)			0
Vehicle DNL	49	0	64
Calculate Road #2 DNL	64	Reset	

Road # 3 Name: **7th Street**

Road #3

Vehicle Type	**Cars** ☑	**Medium Trucks** ☑	**Heavy Trucks** ☐
Effective Distance	565	565	
Distance to Stop Sign			
Average Speed	35	35	
Average Daily Trips (ADT)	4350	483	
Night Fraction of ADT	10	10	
Road Gradient (%)			
Vehicle DNL	43	44	0
Calculate Road #3 DNL	47	Reset	

NAL3 (East 1)



Railroad #1 Track Identifier:	**BART**

Rail # 1

Train Type	**Electric** ☑	**Diesel** ☐
Effective Distance	710	
Average Train Speed	35	
Engines per Train	0	
Railway cars per Train	8	
Average Train Operations (ATO)	520	
Night Fraction of ATO	13	
Railway whistles or horns?	Yes: ☐ No: ☑	Yes: ☐ No: ☐
Bolted Tracks?	Yes: ☐ No: ☑	Yes: ☐ No: ☐
Train DNL	53	0
Calculate Rail #1 DNL	53	Reset

Airport Noise Level	
Loud Impulse Sounds?	○**Yes** ○**No**
Combined DNL for all Road and Rail sources	**73**
Combined DNL including Airport	**N/A**
Site DNL with Loud Impulse Sound	

NAL4 (South 1)

DNL Calculator

The Day/Night Noise Level Calculator is an electronic assessment tool that calculates the Day/Night Noise Level (DNL) from roadway and railway traffic. For more information on using the DNL calculator, view the **Day/Night Noise Level Calculator Electronic Assessment Tool Overview (/programs/environmental-review/daynight-noise-level-electronic-assessment-tool/)**.

Guidelines

- To display the Road and/or Rail DNL calculator(s), click on the "Add Road Source" and/or "Add Rail Source" button(s) below.
- All Road and Rail input values must be positive non-decimal numbers.
- All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- **Note #1:** Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- **Note #2:** DNL Calculator assumes roadway data is always entered.

DNL Calculator

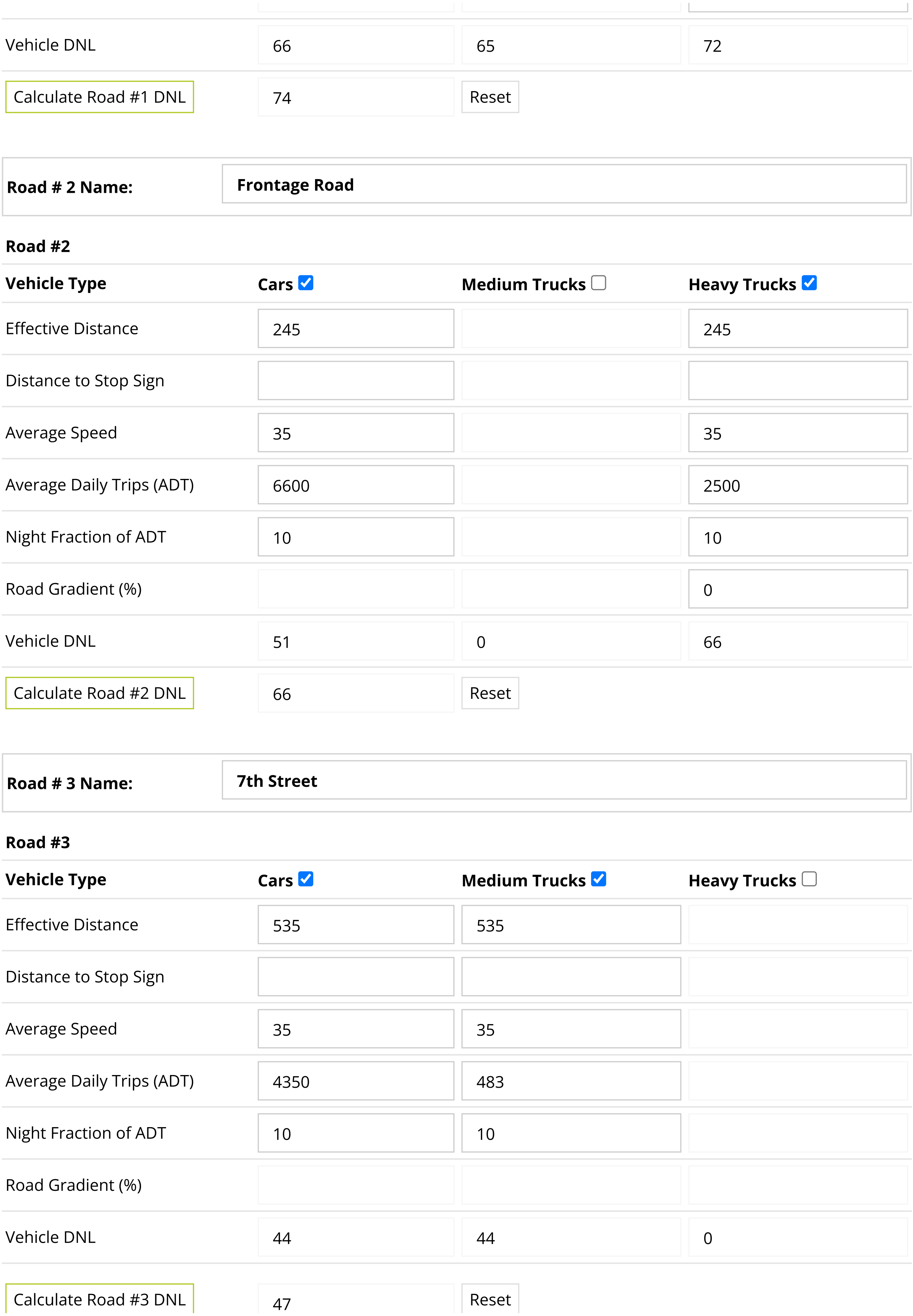
Site ID	Phoenix - NAL4
Record Date	09/29/2022
User's Name	B. Wells, Salter

Road # 1 Name:	**I-880**

Road #1

Vehicle Type	**Cars** ☑	**Medium Trucks** ☑	**Heavy Trucks** ☑
Effective Distance	340	340	340
Distance to Stop Sign			
Average Speed	65	65	65
Average Daily Trips (ADT)	113000	5650	7910
Night Fraction of ADT	10	20	20
Road Gradient (%)			0

NAL4 (South 1)



Vehicle DNL	66	65	72
Calculate Road #1 DNL	74	Reset	

Road # 2 Name: **Frontage Road**

Road #2

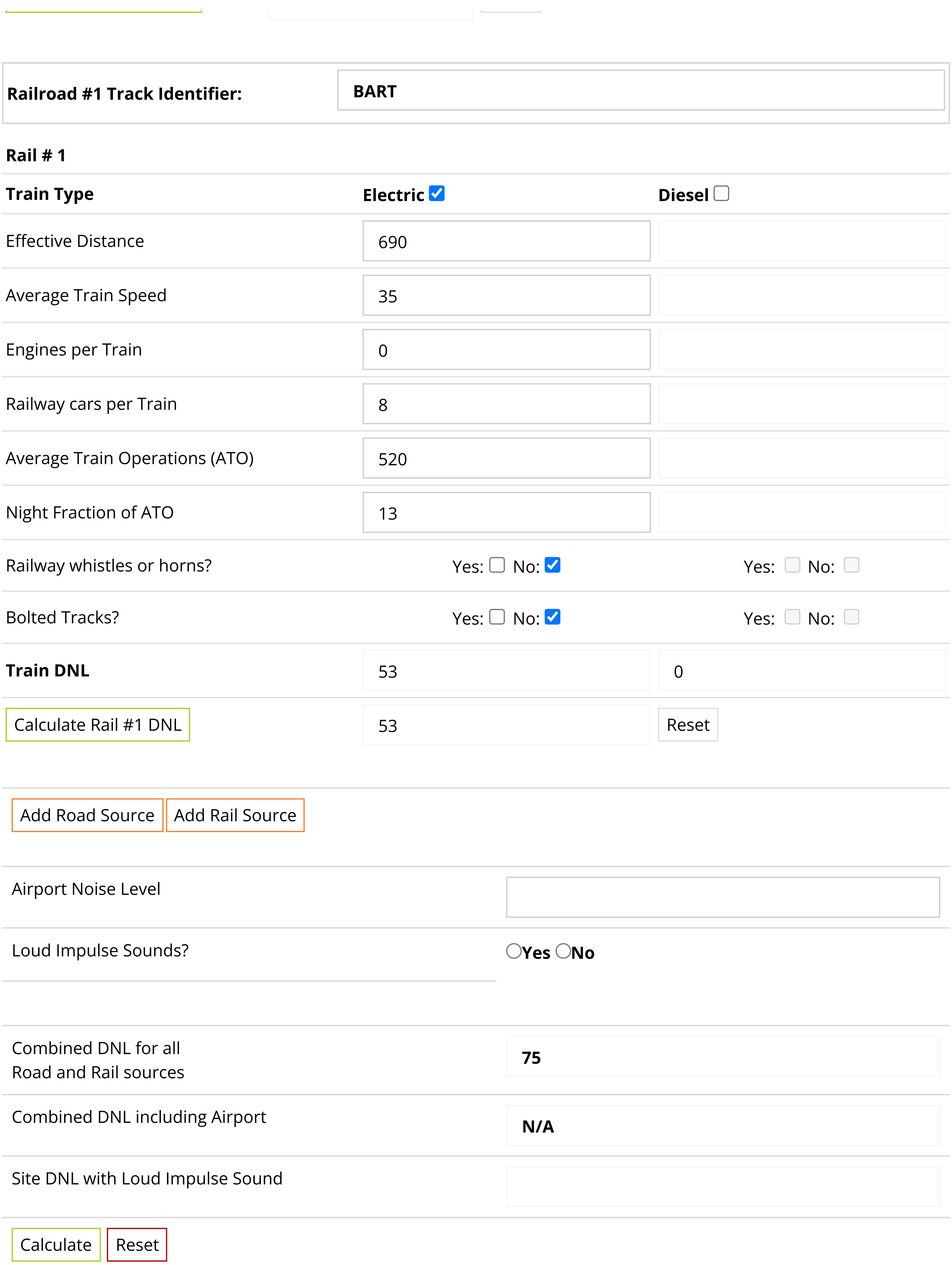
Vehicle Type	**Cars** ☑	**Medium Trucks** ☐	**Heavy Trucks** ☑
Effective Distance	245		245
Distance to Stop Sign			
Average Speed	35		35
Average Daily Trips (ADT)	6600		2500
Night Fraction of ADT	10		10
Road Gradient (%)			0
Vehicle DNL	51	0	66
Calculate Road #2 DNL	66	Reset	

Road # 3 Name: **7th Street**

Road #3

Vehicle Type	**Cars** ☑	**Medium Trucks** ☑	**Heavy Trucks** ☐
Effective Distance	535	535	
Distance to Stop Sign			
Average Speed	35	35	
Average Daily Trips (ADT)	4350	483	
Night Fraction of ADT	10	10	
Road Gradient (%)			
Vehicle DNL	44	44	0
Calculate Road #3 DNL	47	Reset	

NAL4 (South 1)



Railroad #1 Track Identifier: BART

Rail # 1

Train Type	**Electric** ☑	**Diesel** ☐
Effective Distance	690	
Average Train Speed	35	
Engines per Train	0	
Railway cars per Train	8	
Average Train Operations (ATO)	520	
Night Fraction of ATO	13	
Railway whistles or horns?	Yes: ☐ No: ☑	Yes: ☐ No: ☐
Bolted Tracks?	Yes: ☐ No: ☑	Yes: ☐ No: ☐
Train DNL	53	0
Calculate Rail #1 DNL	53	Reset

Airport Noise Level	
Loud Impulse Sounds?	○**Yes** ○**No**
Combined DNL for all Road and Rail sources	**75**
Combined DNL including Airport	**N/A**
Site DNL with Loud Impulse Sound	

NAL5 (East 2)

Home (/) > Programs (/programs/) > Environmental Review (/programs/environmental-review/) > DNL Calculator

DNL Calculator

The Day/Night Noise Level Calculator is an electronic assessment tool that calculates the Day/Night Noise Level (DNL) from roadway and railway traffic. For more information on using the DNL calculator, view the **Day/Night Noise Level Calculator Electronic Assessment Tool Overview (/programs/environmental-review/daynight-noise-level-electronic-assessment-tool/)**.

Guidelines

- To display the Road and/or Rail DNL calculator(s), click on the "Add Road Source" and/or "Add Rail Source" button(s) below.
- All Road and Rail input values must be positive non-decimal numbers.
- All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- **Note #1:** Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- **Note #2:** DNL Calculator assumes roadway data is always entered.

DNL Calculator

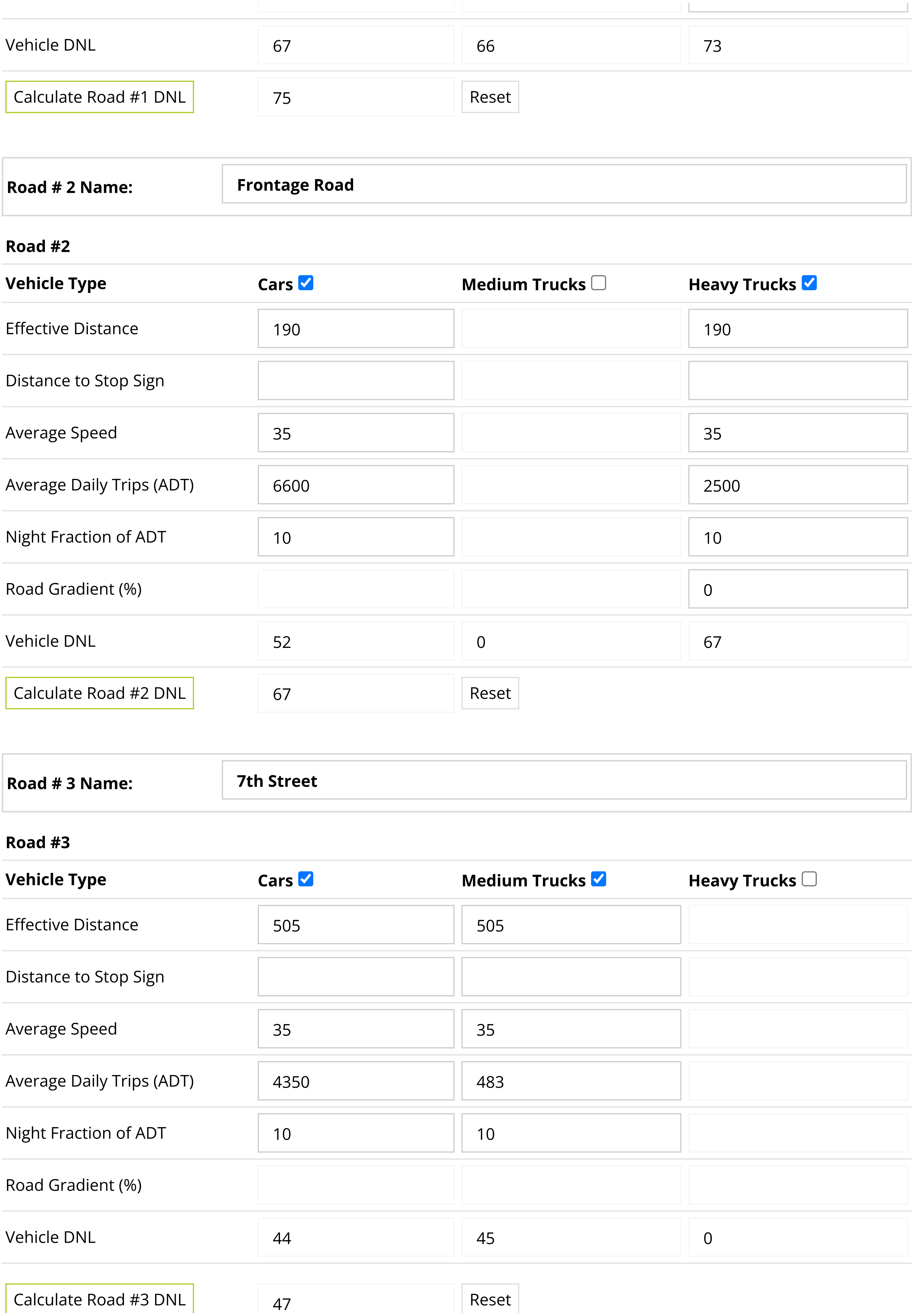
Site ID	Phoenix - NAL5
Record Date	09/29/2022
User's Name	B. Wells, Salter

Road # 1 Name:	**I-880**

Road #1

Vehicle Type	**Cars** ☑	**Medium Trucks** ☑	**Heavy Trucks** ☑
Effective Distance	285	285	285
Distance to Stop Sign			
Average Speed	65	65	65
Average Daily Trips (ADT)	113000	5650	7910
Night Fraction of ADT	10	20	20
Road Gradient (%)			0

NAL5 (East 2)



Vehicle DNL	67	66	73
Calculate Road #1 DNL	75	Reset	

Road # 2 Name: **Frontage Road**

Road #2

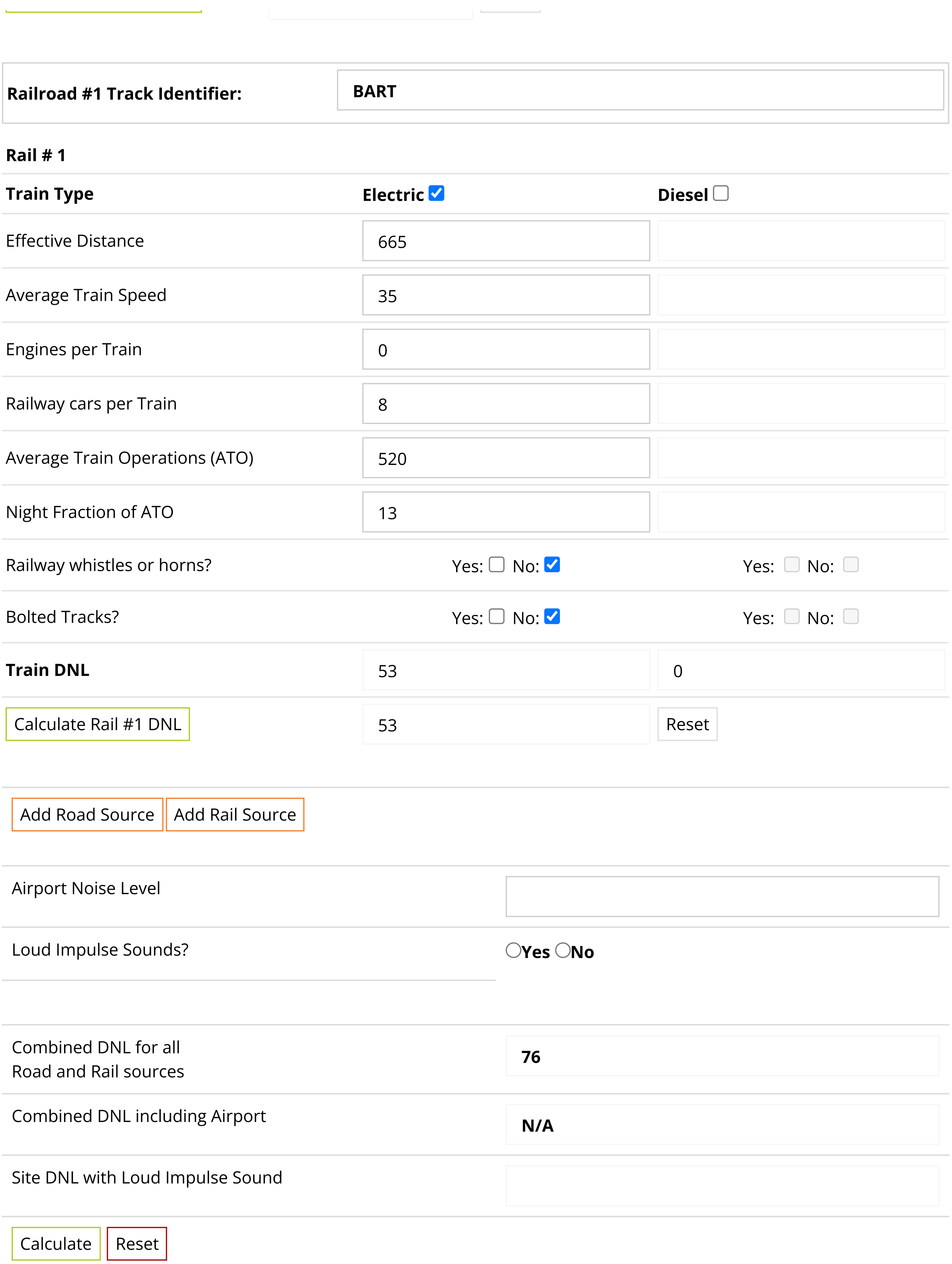
Vehicle Type	**Cars** ☑	**Medium Trucks** ☐	**Heavy Trucks** ☑
Effective Distance	190		190
Distance to Stop Sign			
Average Speed	35		35
Average Daily Trips (ADT)	6600		2500
Night Fraction of ADT	10		10
Road Gradient (%)			0
Vehicle DNL	52	0	67
Calculate Road #2 DNL	67	Reset	

Road # 3 Name: **7th Street**

Road #3

Vehicle Type	**Cars** ☑	**Medium Trucks** ☑	**Heavy Trucks** ☐
Effective Distance	505	505	
Distance to Stop Sign			
Average Speed	35	35	
Average Daily Trips (ADT)	4350	483	
Night Fraction of ADT	10	10	
Road Gradient (%)			
Vehicle DNL	44	45	0
Calculate Road #3 DNL	47	Reset	

NAL5 (East 2)



Railroad #1 Track Identifier:	**BART**

Rail # 1

Train Type	**Electric** ☑	**Diesel** ☐
Effective Distance	665	
Average Train Speed	35	
Engines per Train	0	
Railway cars per Train	8	
Average Train Operations (ATO)	520	
Night Fraction of ATO	13	
Railway whistles or horns?	Yes: ☐ No: ☑	Yes: ☐ No: ☐
Bolted Tracks?	Yes: ☐ No: ☑	Yes: ☐ No: ☐
Train DNL	53	0
Calculate Rail #1 DNL	53	Reset

Add Road Source Add Rail Source

Airport Noise Level	
Loud Impulse Sounds?	○**Yes** ○**No**

Combined DNL for all Road and Rail sources	**76**
Combined DNL including Airport	**N/A**
Site DNL with Loud Impulse Sound	

Calculate Reset

NAL6 (South 2)

Home (/) > Programs (/programs/) > Environmental Review (/programs/environmental-review/) > DNL Calculator

DNL Calculator

The Day/Night Noise Level Calculator is an electronic assessment tool that calculates the Day/Night Noise Level (DNL) from roadway and railway traffic. For more information on using the DNL calculator, view the **Day/Night Noise Level Calculator Electronic Assessment Tool Overview (/programs/environmental-review/daynight-noise-level-electronic-assessment-tool/)**.

Guidelines

- To display the Road and/or Rail DNL calculator(s), click on the "Add Road Source" and/or "Add Rail Source" button(s) below.
- All Road and Rail input values must be positive non-decimal numbers.
- All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- **Note #1:** Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- **Note #2:** DNL Calculator assumes roadway data is always entered.

DNL Calculator

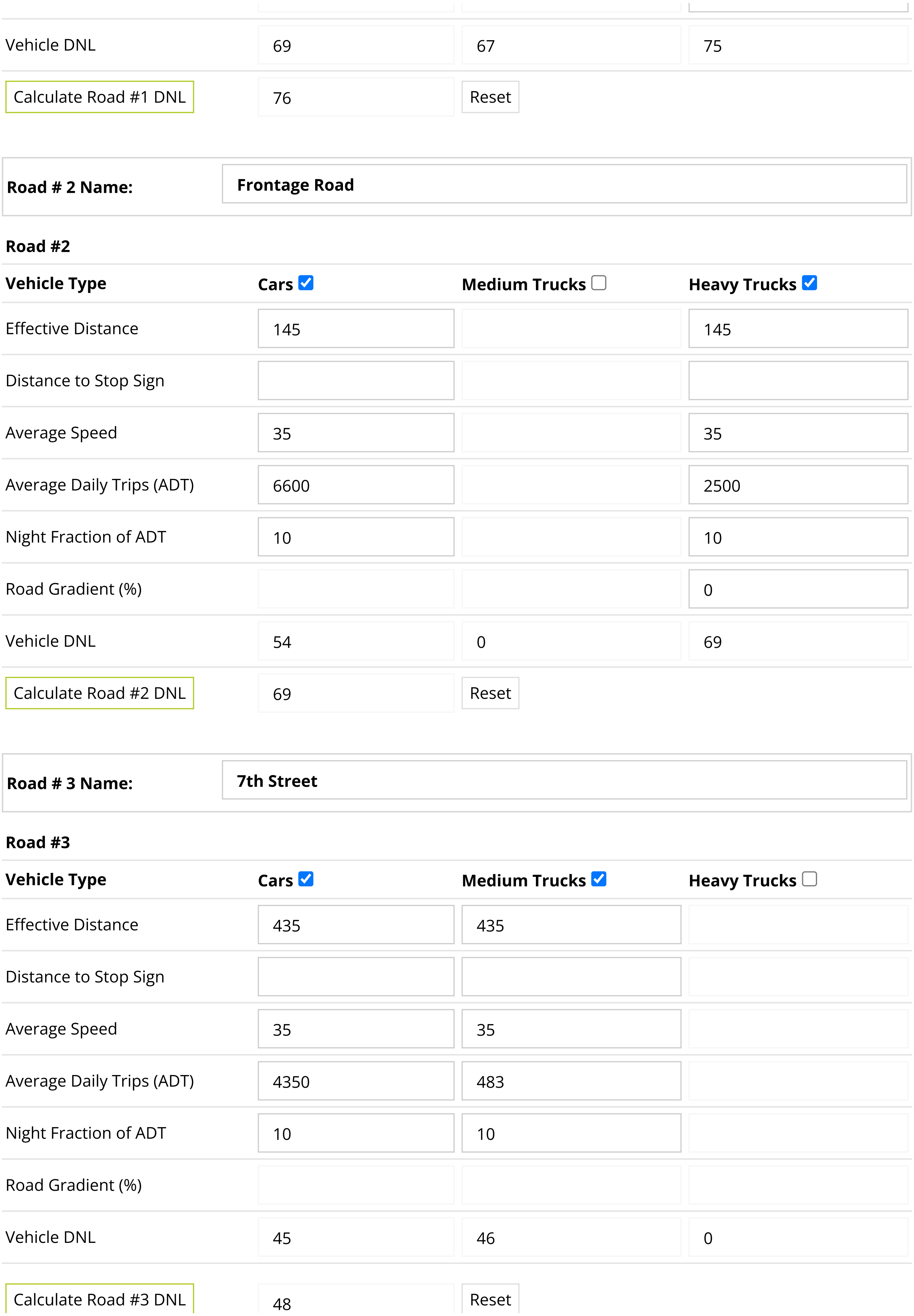
Site ID	Phoenix - NAL6
Record Date	09/29/2022
User's Name	B. Wells, Salter

Road # 1 Name:	**I-880**

Road #1

Vehicle Type	**Cars** ☑	**Medium Trucks** ☑	**Heavy Trucks** ☑
Effective Distance	240	240	240
Distance to Stop Sign			
Average Speed	65	65	65
Average Daily Trips (ADT)	113000	5650	7910
Night Fraction of ADT	10	20	20
Road Gradient (%)			0

NAL6 (South 2)



Vehicle DNL	69	67	75
Calculate Road #1 DNL	76	Reset	

Road # 2 Name: **Frontage Road**

Road #2

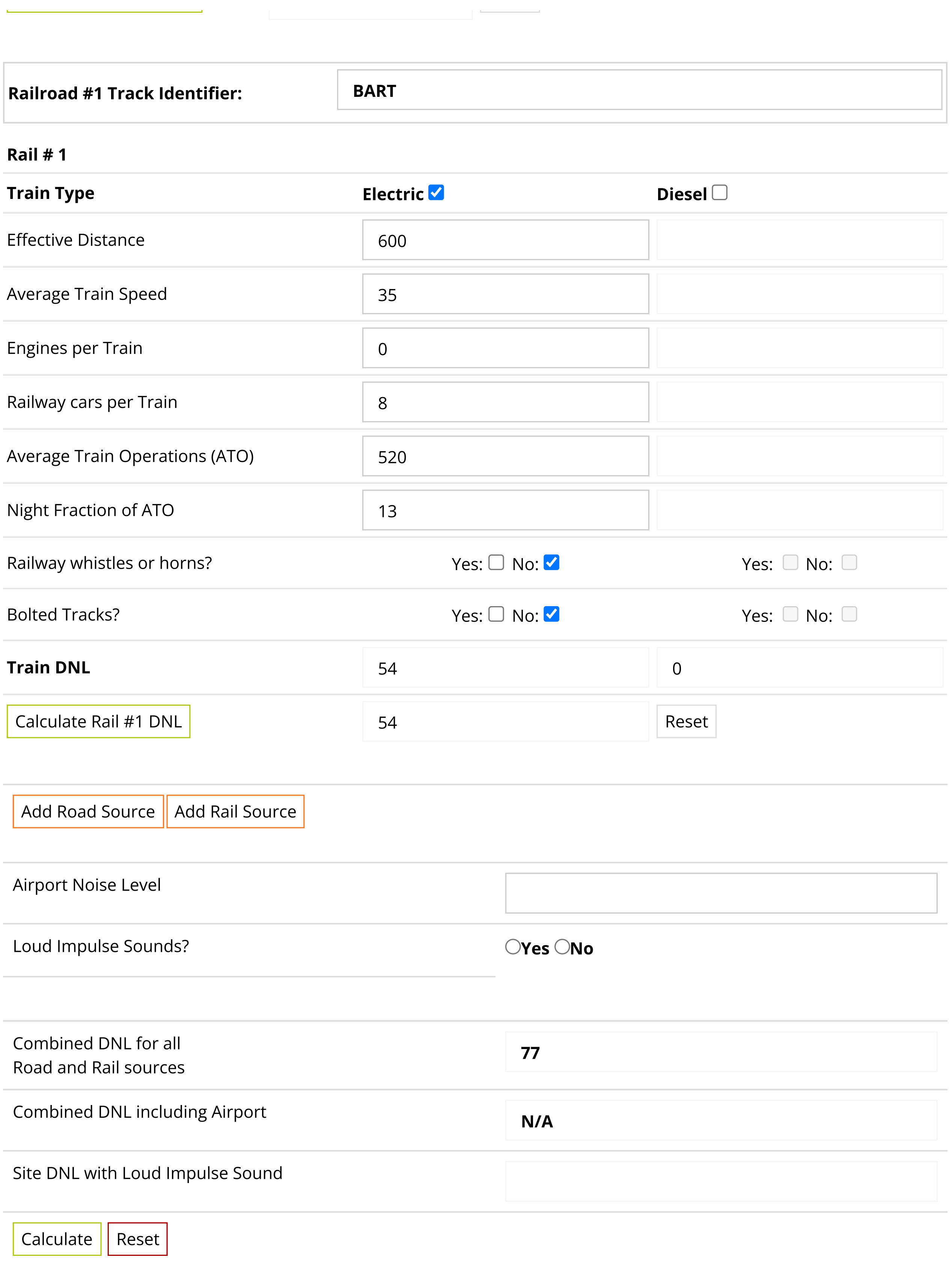
Vehicle Type	**Cars** ☑	**Medium Trucks** ☐	**Heavy Trucks** ☑
Effective Distance	145		145
Distance to Stop Sign			
Average Speed	35		35
Average Daily Trips (ADT)	6600		2500
Night Fraction of ADT	10		10
Road Gradient (%)			0
Vehicle DNL	54	0	69
Calculate Road #2 DNL	69	Reset	

Road # 3 Name: **7th Street**

Road #3

Vehicle Type	**Cars** ☑	**Medium Trucks** ☑	**Heavy Trucks** ☐
Effective Distance	435	435	
Distance to Stop Sign			
Average Speed	35	35	
Average Daily Trips (ADT)	4350	483	
Night Fraction of ADT	10	10	
Road Gradient (%)			
Vehicle DNL	45	46	0
Calculate Road #3 DNL	48	Reset	

NAL6 (South 2)



Railroad #1 Track Identifier: BART

Rail # 1

Train Type	**Electric** ☑	**Diesel** ☐
Effective Distance	600	
Average Train Speed	35	
Engines per Train	0	
Railway cars per Train	8	
Average Train Operations (ATO)	520	
Night Fraction of ATO	13	
Railway whistles or horns?	Yes: ☐ No: ☑	Yes: ☐ No: ☐
Bolted Tracks?	Yes: ☐ No: ☑	Yes: ☐ No: ☐
Train DNL	54	0
Calculate Rail #1 DNL	54	Reset

Airport Noise Level	
Loud Impulse Sounds?	○**Yes** ○**No**
Combined DNL for all Road and Rail sources	**77**
Combined DNL including Airport	**N/A**
Site DNL with Loud Impulse Sound	

NAL7 (Courtyard)

Home (/) > Programs (/programs/) > Environmental Review (/programs/environmental-review/) > DNL Calculator

DNL Calculator

The Day/Night Noise Level Calculator is an electronic assessment tool that calculates the Day/Night Noise Level (DNL) from roadway and railway traffic. For more information on using the DNL calculator, view the **Day/Night Noise Level Calculator Electronic Assessment Tool Overview (/programs/environmental-review/daynight-noise-level-electronic-assessment-tool/)**.

Guidelines

- To display the Road and/or Rail DNL calculator(s), click on the "Add Road Source" and/or "Add Rail Source" button(s) below.
- All Road and Rail input values must be positive non-decimal numbers.
- All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- **Note #1:** Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- **Note #2:** DNL Calculator assumes roadway data is always entered.

DNL Calculator

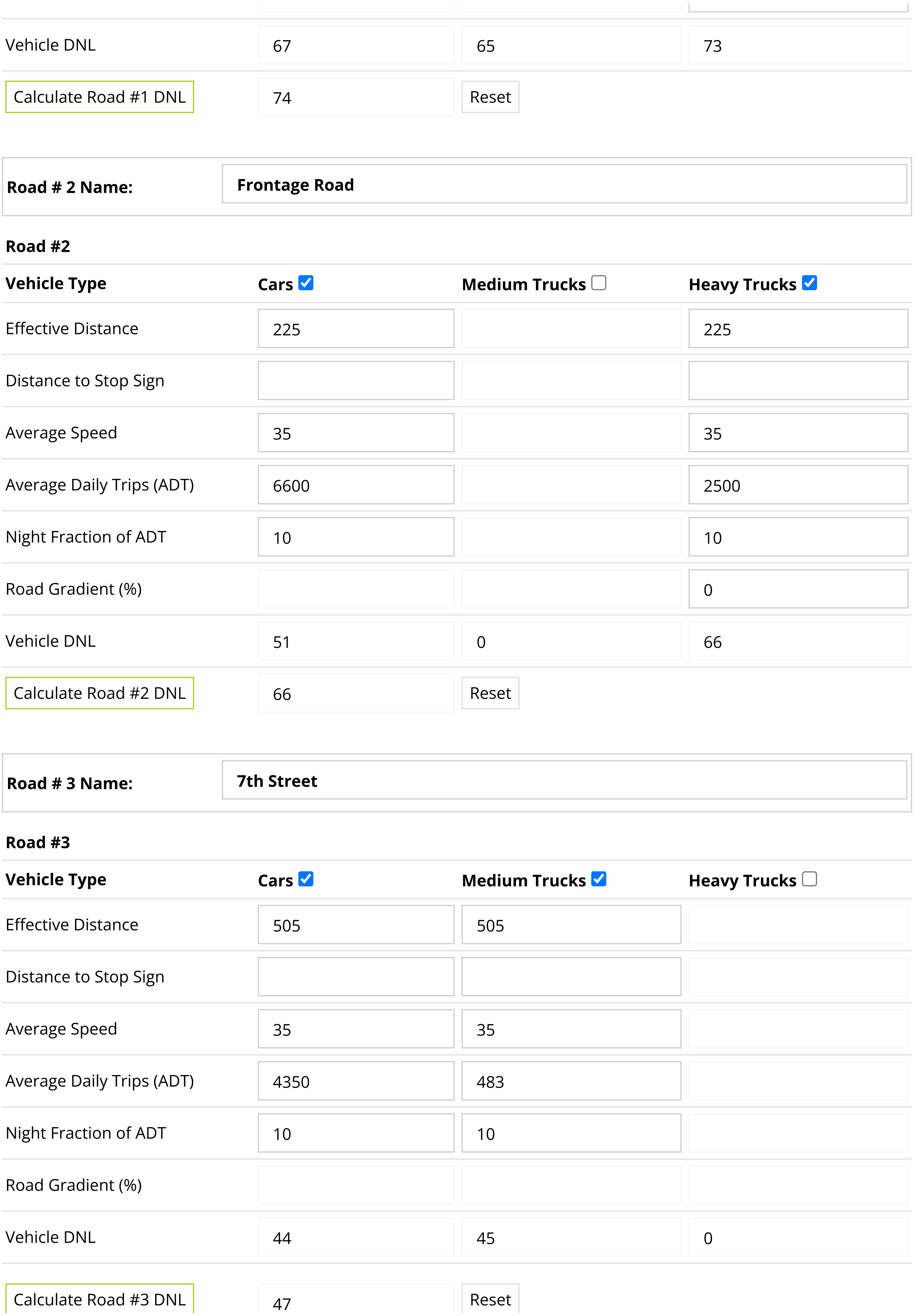
Site ID	Phoenix - NAL7
Record Date	09/29/2022
User's Name	B. Wells, Salter

Road # 1 Name:	**I-880**

Road #1

Vehicle Type	**Cars** ☑	**Medium Trucks** ☑	**Heavy Trucks** ☑
Effective Distance	315	315	315
Distance to Stop Sign			
Average Speed	65	65	65
Average Daily Trips (ADT)	113000	5650	7910
Night Fraction of ADT	10	20	20
Road Gradient (%)			0

NAL7 (Courtyard)



Vehicle DNL	67	65	73
Calculate Road #1 DNL	74	Reset	

Road # 2 Name: Frontage Road

Road #2

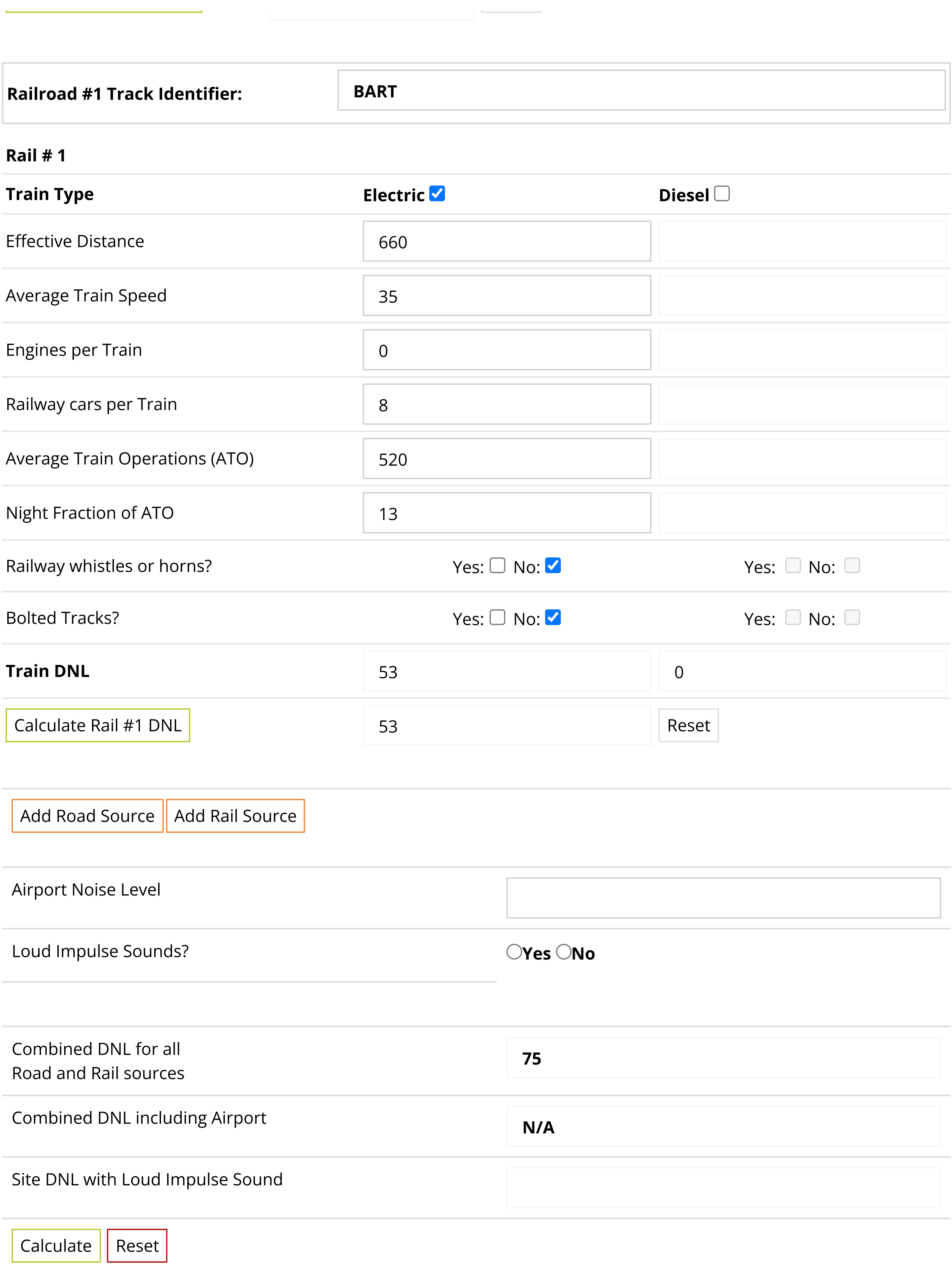
Vehicle Type	**Cars** ☑	**Medium Trucks** ☐	**Heavy Trucks** ☑
Effective Distance	225		225
Distance to Stop Sign			
Average Speed	35		35
Average Daily Trips (ADT)	6600		2500
Night Fraction of ADT	10		10
Road Gradient (%)			0
Vehicle DNL	51	0	66
Calculate Road #2 DNL	66	Reset	

Road # 3 Name: 7th Street

Road #3

Vehicle Type	**Cars** ☑	**Medium Trucks** ☑	**Heavy Trucks** ☐
Effective Distance	505	505	
Distance to Stop Sign			
Average Speed	35	35	
Average Daily Trips (ADT)	4350	483	
Night Fraction of ADT	10	10	
Road Gradient (%)			
Vehicle DNL	44	45	0
Calculate Road #3 DNL	47	Reset	

NAL7 (Courtyard)



Railroad #1 Track Identifier:	**BART**

Rail # 1

Train Type	**Electric** ☑	**Diesel** ☐
Effective Distance	660	
Average Train Speed	35	
Engines per Train	0	
Railway cars per Train	8	
Average Train Operations (ATO)	520	
Night Fraction of ATO	13	
Railway whistles or horns?	Yes: ☐ No: ☑	Yes: ☐ No: ☐
Bolted Tracks?	Yes: ☐ No: ☑	Yes: ☐ No: ☐
Train DNL	53	0
Calculate Rail #1 DNL	53	Reset

Add Road Source Add Rail Source

Airport Noise Level	
Loud Impulse Sounds?	○**Yes** ○**No**

Combined DNL for all Road and Rail sources	**75**
Combined DNL including Airport	**N/A**
Site DNL with Loud Impulse Sound	

Calculate Reset

APPENDIX B

HUD Barrier Performance Module

NAL1 - 7th Street

Barrier Performance Module

This module provides to the user a measure on the barrier's effectiveness on noise reduction. A list of the input/output variables and their definitions, as well as illustrations of different scenarios are provided.

Calculator

View Day/Night Noise Level Calculator (/programs/environmental-review/dnl-calculator/)

View Descriptions of the Input/Output variables.

Note: Tool tips, containing field specific information, have been added in this tool and may be accessed by hovering over the Input and Output variables with the mouse.

WARNING: If there is direct line-of-sight between the Source and the Observer, the module will report erroneous attenuation. “Direct line-of-sight” means if the 5’ tall Observer can see the noise Source (cars, trucks, trains, etc.) over the Barrier (wall, hill/excavation, building, etc.), the current version of Barrier Performance Module will not accurately calculate the attenuation provided. In this instance, there is unlikely to be any appreciable attenuation.

Note: Barrier height must block the line of sight

Input Data

H	12	**R^1**	50
S	2	**D^1**	490
O	55	**α**	90

Calculate Output

Output Data

h	5	**R**	51
D	491	**FS**	2.2931

Reduction From Barrier (dB):

-2.2931

Refresh

Note: If you have separate Road and Rail DNL values, please enter the values below to calculate the new combined Road/Rail DNL :

Road DNL:

77

Rail DNL:

53

Calculate

Combined Road/Rail DNL with Barrier Reduction:

74.7069

NAL2 - 7th Street & BART

Home (/) > Programs (/programs/) > Environmental Review (/programs/environmental-review/) > BPM Calculator

Barrier Performance Module

This module provides to the user a measure on the barrier's effectiveness on noise reduction. A list of the input/output variables and their definitions, as well as illustrations of different scenarios are provided.

Calculator

View Day/Night Noise Level Calculator (/programs/environmental-review/dnl-calculator/)

View Descriptions of the Input/Output variables.

Note: Tool tips, containing field specific information, have been added in this tool and may be accessed by hovering over the Input and Output variables with the mouse.

WARNING: If there is direct line-of-sight between the Source and the Observer, the module will report erroneous attenuation. “Direct line-of-sight” means if the 5’ tall Observer can see the noise Source (cars, trucks, trains, etc.) over the Barrier (wall, hill/excavation, building, etc.), the current version of Barrier Performance Module will not accurately calculate the attenuation provided. In this instance, there is unlikely to be any appreciable attenuation.

Note: Barrier height must block the line of sight

Input Data

H	55	**R**[1]	545
S	2	**D**[1]	55
O	40	**α**	180

Calculate Output

Output Data

h	18	**R**	547
D	54	**FS**	15.656

Reduction From Barrier (dB):

-15.656

Refresh

Note: If you have separate Road and Rail DNL values, please enter the values below to calculate the new combined Road/Rail DNL :

Road DNL:

75

Rail DNL:

52

Calculate

Combined Road/Rail DNL with Barrier Reduction:

59.344

NAL2 - I-880 & Frontage Road

Home (/) > Programs (/programs/) > Environmental Review (/programs/environmental-review/) > BPM Calculator

Barrier Performance Module

This module provides to the user a measure on the barrier's effectiveness on noise reduction. A list of the input/output variables and their definitions, as well as illustrations of different scenarios are provided.

Calculator

View Day/Night Noise Level Calculator (/programs/environmental-review/dnl-calculator/)

View Descriptions of the Input/Output variables.

Note: Tool tips, containing field specific information, have been added in this tool and may be accessed by hovering over the Input and Output variables with the mouse.

WARNING: If there is direct line-of-sight between the Source and the Observer, the module will report erroneous attenuation. “Direct line-of-sight” means if the 5’ tall Observer can see the noise Source (cars, trucks, trains, etc.) over the Barrier (wall, hill/excavation, building, etc.), the current version of Barrier Performance Module will not accurately calculate the attenuation provided. In this instance, there is unlikely to be any appreciable attenuation.

Note: Barrier height must block the line of sight

Input Data

H	52	**R¹**	320
S	2	**D¹**	100
O	40	**α**	90

Calculate Output

Output Data

h	21	**R**	323
D	98	**FS**	2.9899

Reduction From Barrier (dB):

-2.9899

Refresh

Note: If you have separate Road and Rail DNL values, please enter the values below to calculate the new combined Road/Rail DNL :

Road DNL:

75

Rail DNL:

52

Calculate

Combined Road/Rail DNL with Barrier Reduction:

72.0101

NAL3 - I-880 & Frontage Road

Barrier Performance Module

This module provides to the user a measure on the barrier's effectiveness on noise reduction. A list of the input/output variables and their definitions, as well as illustrations of different scenarios are provided.

Calculator

View Day/Night Noise Level Calculator (/programs/environmental-review/dnl-calculator/)

View Descriptions of the Input/Output variables.

Note: Tool tips, containing field specific information, have been added in this tool and may be accessed by hovering over the Input and Output variables with the mouse.

WARNING: If there is direct line-of-sight between the Source and the Observer, the module will report erroneous attenuation. "Direct line-of-sight" means if the 5' tall Observer can see the noise Source (cars, trucks, trains, etc.) over the Barrier (wall, hill/excavation, building, etc.), the current version of Barrier Performance Module will not accurately calculate the attenuation provided. In this instance, there is unlikely to be any appreciable attenuation.

Note: Barrier height must block the line of sight

Input Data

H	55	**R^1**	230
S	2	**D^1**	175
O	40	**α**	180

Calculate Output

Output Data

h	31	**R**	234
D	173	**FS**	16.9995

Reduction From Barrier (dB):

-16.9995

Refresh

Note: If you have separate Road and Rail DNL values, please enter the values below to calculate the new combined Road/Rail DNL :

Road DNL:

73

Rail DNL:

53

Calculate

Combined Road/Rail DNL with Barrier Reduction:

56.0005

NAL4 - I-880 & Frontage Road

Home (/) > Programs (/programs/) > Environmental Review (/programs/environmental-review/) > BPM Calculator

Barrier Performance Module

This module provides to the user a measure on the barrier's effectiveness on noise reduction. A list of the input/output variables and their definitions, as well as illustrations of different scenarios are provided.

Calculator

View Day/Night Noise Level Calculator (/programs/environmental-review/dnl-calculator/)

View Descriptions of the Input/Output variables.

Note: Tool tips, containing field specific information, have been added in this tool and may be accessed by hovering over the Input and Output variables with the mouse.

WARNING: If there is direct line-of-sight between the Source and the Observer, the module will report erroneous attenuation. "Direct line-of-sight" means if the 5' tall Observer can see the noise Source (cars, trucks, trains, etc.) over the Barrier (wall, hill/excavation, building, etc.), the current version of Barrier Performance Module will not accurately calculate the attenuation provided. In this instance, there is unlikely to be any appreciable attenuation.

Note: Barrier height must block the line of sight

Input Data

H	52	**R^1**	225
S	2	**D^1**	115
O	35	**α**	180

Calculate Output

Output Data

h	28	**R**	229
D	113	**FS**	17.2792

Reduction From Barrier (dB):

-17.2792

Refresh

Note: If you have separate Road and Rail DNL values, please enter the values below to calculate the new combined Road/Rail DNL :

Road DNL:

75

Rail DNL:

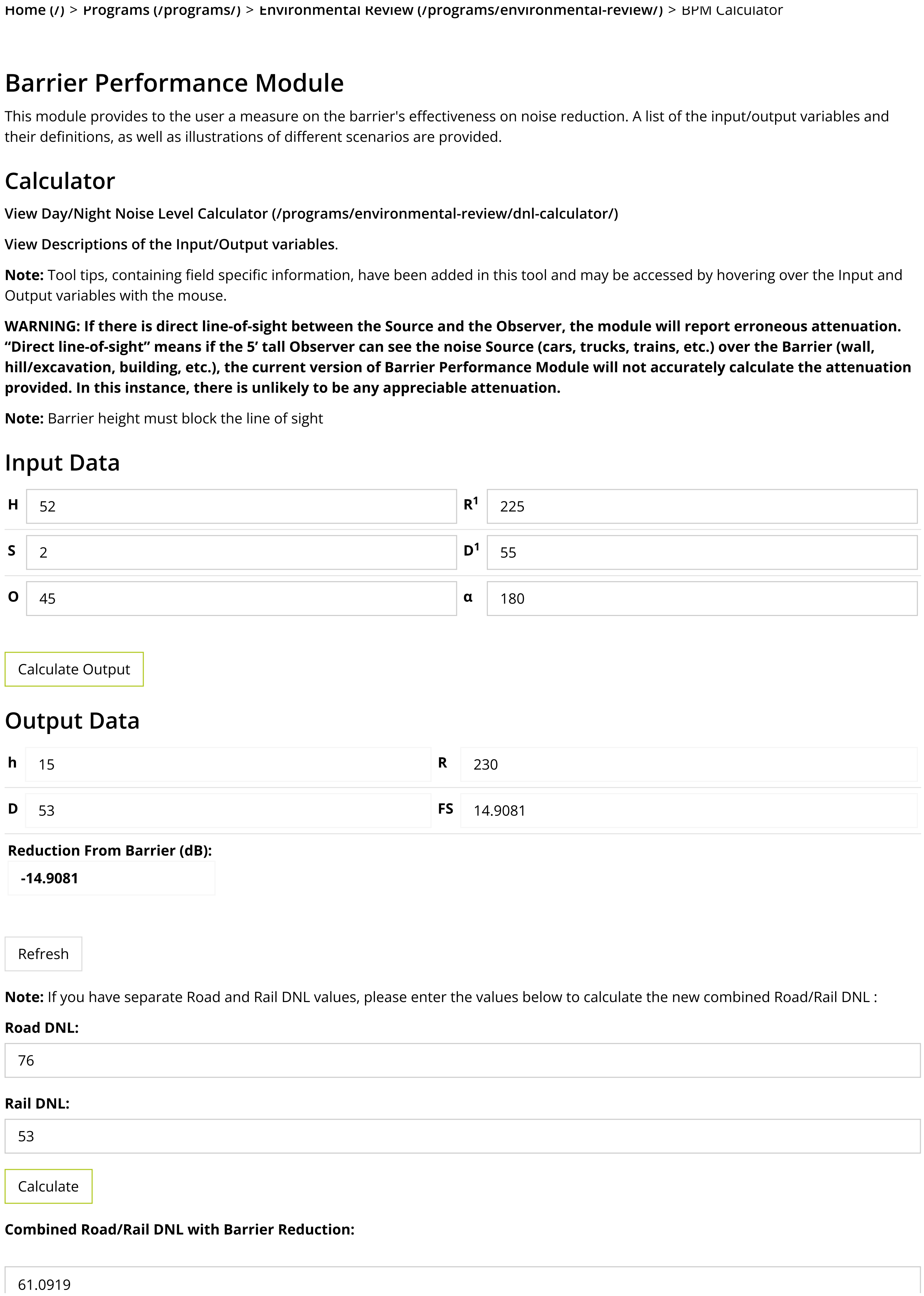
53

Calculate

Combined Road/Rail DNL with Barrier Reduction:

57.7208

NAL5 - I-880 & Frontage Road



Home (/) > Programs (/programs/) > Environmental Review (/programs/environmental-review/) > BPM Calculator

Barrier Performance Module

This module provides to the user a measure on the barrier's effectiveness on noise reduction. A list of the input/output variables and their definitions, as well as illustrations of different scenarios are provided.

Calculator

View Day/Night Noise Level Calculator (/programs/environmental-review/dnl-calculator/)

View Descriptions of the Input/Output variables.

Note: Tool tips, containing field specific information, have been added in this tool and may be accessed by hovering over the Input and Output variables with the mouse.

WARNING: If there is direct line-of-sight between the Source and the Observer, the module will report erroneous attenuation. “Direct line-of-sight” means if the 5’ tall Observer can see the noise Source (cars, trucks, trains, etc.) over the Barrier (wall, hill/excavation, building, etc.), the current version of Barrier Performance Module will not accurately calculate the attenuation provided. In this instance, there is unlikely to be any appreciable attenuation.

Note: Barrier height must block the line of sight

Input Data

H	52	**R^1**	225
S	2	**D^1**	55
O	45	**α**	180

Calculate Output

Output Data

h	15	**R**	230
D	53	**FS**	14.9081

Reduction From Barrier (dB):

-14.9081

Refresh

Note: If you have separate Road and Rail DNL values, please enter the values below to calculate the new combined Road/Rail DNL :

Road DNL:

76

Rail DNL:

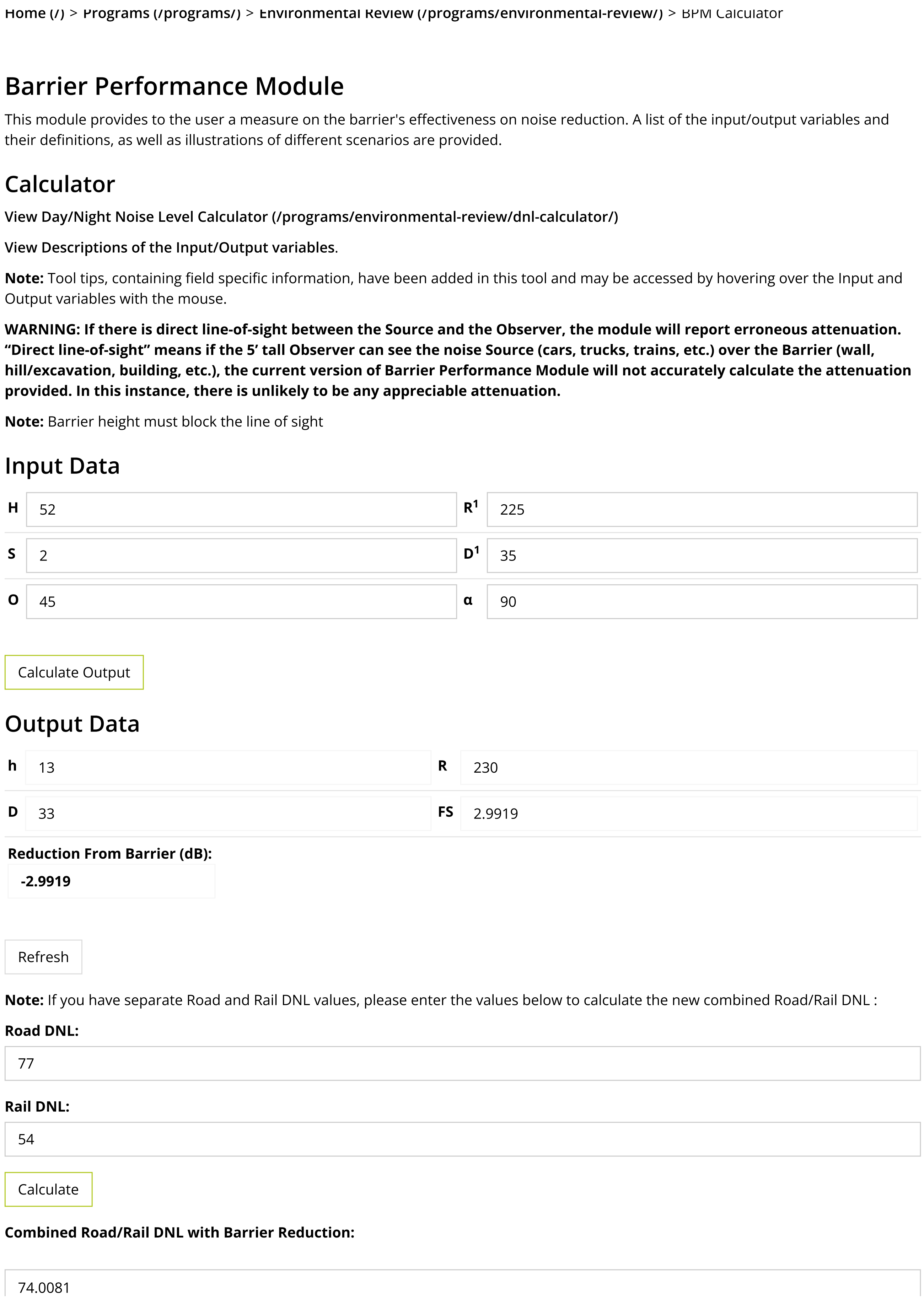
53

Calculate

Combined Road/Rail DNL with Barrier Reduction:

61.0919

NAL6 - I-880 & Frontage Road



Home (/) > Programs (/programs/) > Environmental Review (/programs/environmental-review/) > BPM Calculator

Barrier Performance Module

This module provides to the user a measure on the barrier's effectiveness on noise reduction. A list of the input/output variables and their definitions, as well as illustrations of different scenarios are provided.

Calculator

View Day/Night Noise Level Calculator (/programs/environmental-review/dnl-calculator/)

View Descriptions of the Input/Output variables.

Note: Tool tips, containing field specific information, have been added in this tool and may be accessed by hovering over the Input and Output variables with the mouse.

WARNING: If there is direct line-of-sight between the Source and the Observer, the module will report erroneous attenuation. “Direct line-of-sight” means if the 5’ tall Observer can see the noise Source (cars, trucks, trains, etc.) over the Barrier (wall, hill/excavation, building, etc.), the current version of Barrier Performance Module will not accurately calculate the attenuation provided. In this instance, there is unlikely to be any appreciable attenuation.

Note: Barrier height must block the line of sight

Input Data

H	52	**R^1**	225
S	2	**D^1**	35
O	45	**α**	90

Calculate Output

Output Data

h	13	**R**	230
D	33	**FS**	2.9919

Reduction From Barrier (dB):

-2.9919

Refresh

Note: If you have separate Road and Rail DNL values, please enter the values below to calculate the new combined Road/Rail DNL :

Road DNL:

77

Rail DNL:

54

Calculate

Combined Road/Rail DNL with Barrier Reduction:

74.0081

NAL7 - I-880 & Frontage Road

Barrier Performance Module

This module provides to the user a measure on the barrier's effectiveness on noise reduction. A list of the input/output variables and their definitions, as well as illustrations of different scenarios are provided.

Calculator

View Day/Night Noise Level Calculator (/programs/environmental-review/dnl-calculator/)

View Descriptions of the Input/Output variables.

Note: Tool tips, containing field specific information, have been added in this tool and may be accessed by hovering over the Input and Output variables with the mouse.

WARNING: If there is direct line-of-sight between the Source and the Observer, the module will report erroneous attenuation. “Direct line-of-sight” means if the 5’ tall Observer can see the noise Source (cars, trucks, trains, etc.) over the Barrier (wall, hill/excavation, building, etc.), the current version of Barrier Performance Module will not accurately calculate the attenuation provided. In this instance, there is unlikely to be any appreciable attenuation.

Note: Barrier height must block the line of sight

Input Data

H	52	**R^1**	225
S	2	**D^1**	80
O	5	**α**	160

Calculate Output

Output Data

h	48	**R**	225
D	80	**FS**	10.6737

Reduction From Barrier (dB):

-10.6737

Refresh

Note: If you have separate Road and Rail DNL values, please enter the values below to calculate the new combined Road/Rail DNL :

Road DNL:

75

Rail DNL:

53

Calculate

Combined Road/Rail DNL with Barrier Reduction:

64.3263

APPENDIX C

HUD Calculations Summary

Phoenix - HUD Calculations Summary

Assessment using the HUD DNL Calculator Tool and Barrier Performance Module

Source	Distance (in ft)	DNL w/o Barrier	Barrier Effect	Actual DNL	DNL with Future Traffic Increase
NAL1 (West)					
I-880	230	76	0	76	77
Frontage Road	135	70	0	70	71
7th Street	500	47	-2	45	46
BART	660	53	0	53	53
	Combined DNL	77	**Total DNL w/ Barrier**	**77**	**78**
NAL2 (North)					
I-880	340	74	-3	71	72
Frontage Road	250	66	-3	63	64
7th Street	590	46	-16	30	31
BART	735	52	-16	36	36
	Combined DNL	75	**Total DNL w/ Barrier**	**72**	**73**
NAL3 (East 1)					
I-880	410	73	-17	56	57
Frontage Road	315	64	-17	47	48
7th Street	565	47	0	47	48
BART	710	53	0	53	53
	Combined DNL	74	**Total DNL w/ Barrier**	**58**	**59**
NAL4 (South 1)					
I-880	340	74	-17	57	58
Frontage Road	245	66	-17	49	50
7th Street	535	47	0	47	48
BART	690	53	0	53	53
	Combined DNL	75	**Total DNL w/ Barrier**	**59**	**60**
NAL5 (East 2)					
I-880	285	75	-15	60	61
Frontage Road	190	67	-15	52	53
7th Street	505	47	0	47	48
BART	665	53	0	53	53
	Combined DNL	76	**Total DNL w/ Barrier**	**61**	**62**

NAL6 (South 2)					
I-880	240	76	-3	73	74
Frontage Road	145	69	-3	66	67
7th Street	435	48	0	48	49
BART	600	54	0	54	54
	Combined DNL	77	**Total DNL w/ Barrier**	**74**	**75**

NAL7 (Courtyard)					
I-880	315	74	-11	63	64
Frontage Road	225	66	-11	55	56
7th Street	505	47	0	47	48
BART	660	53	0	53	53
	Combined DNL	75	**Total DNL w/ Barrier**	**64**	**65**

APPENDIX D

OAK and SFO Airport Noise Contour Maps

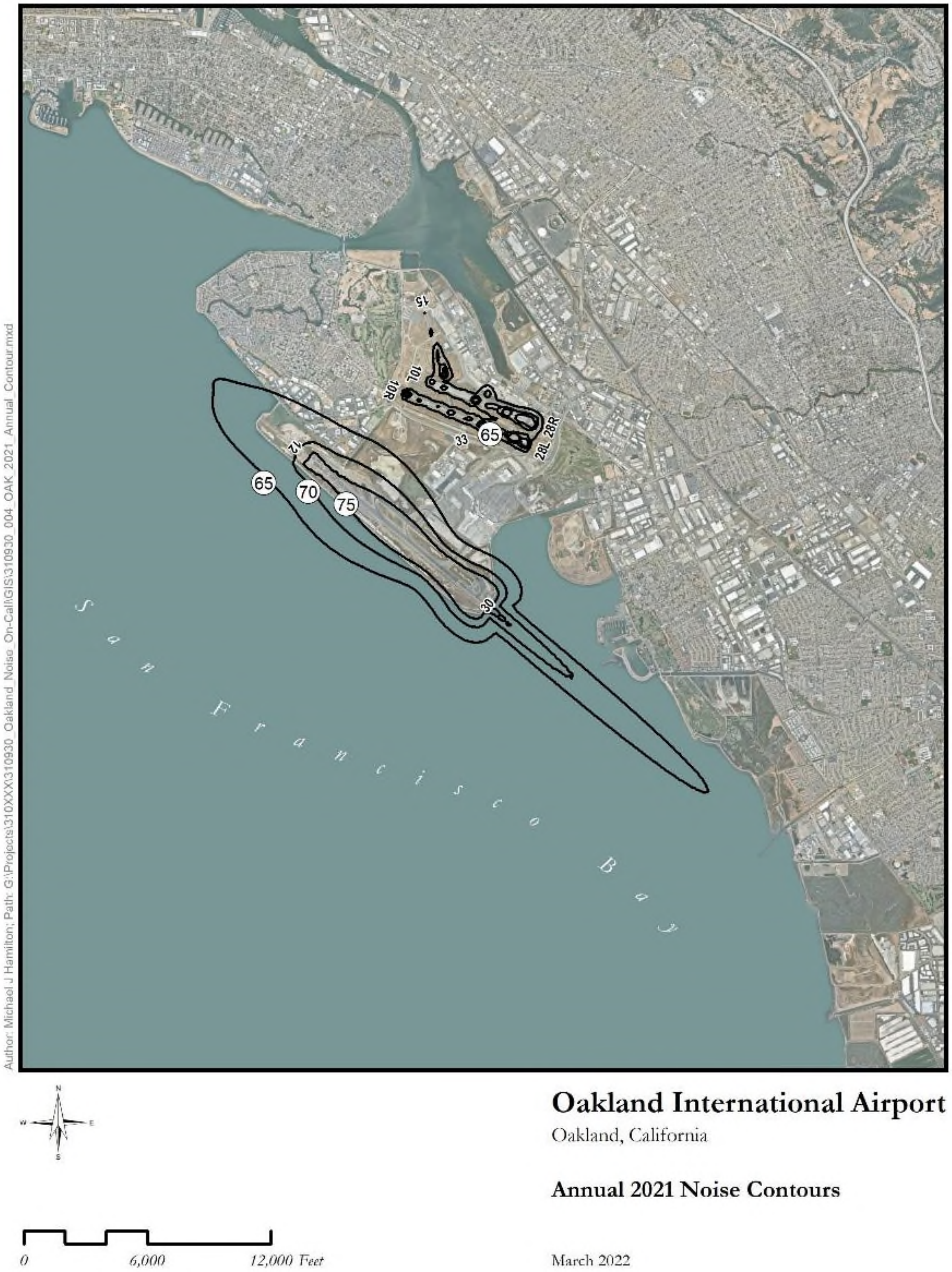
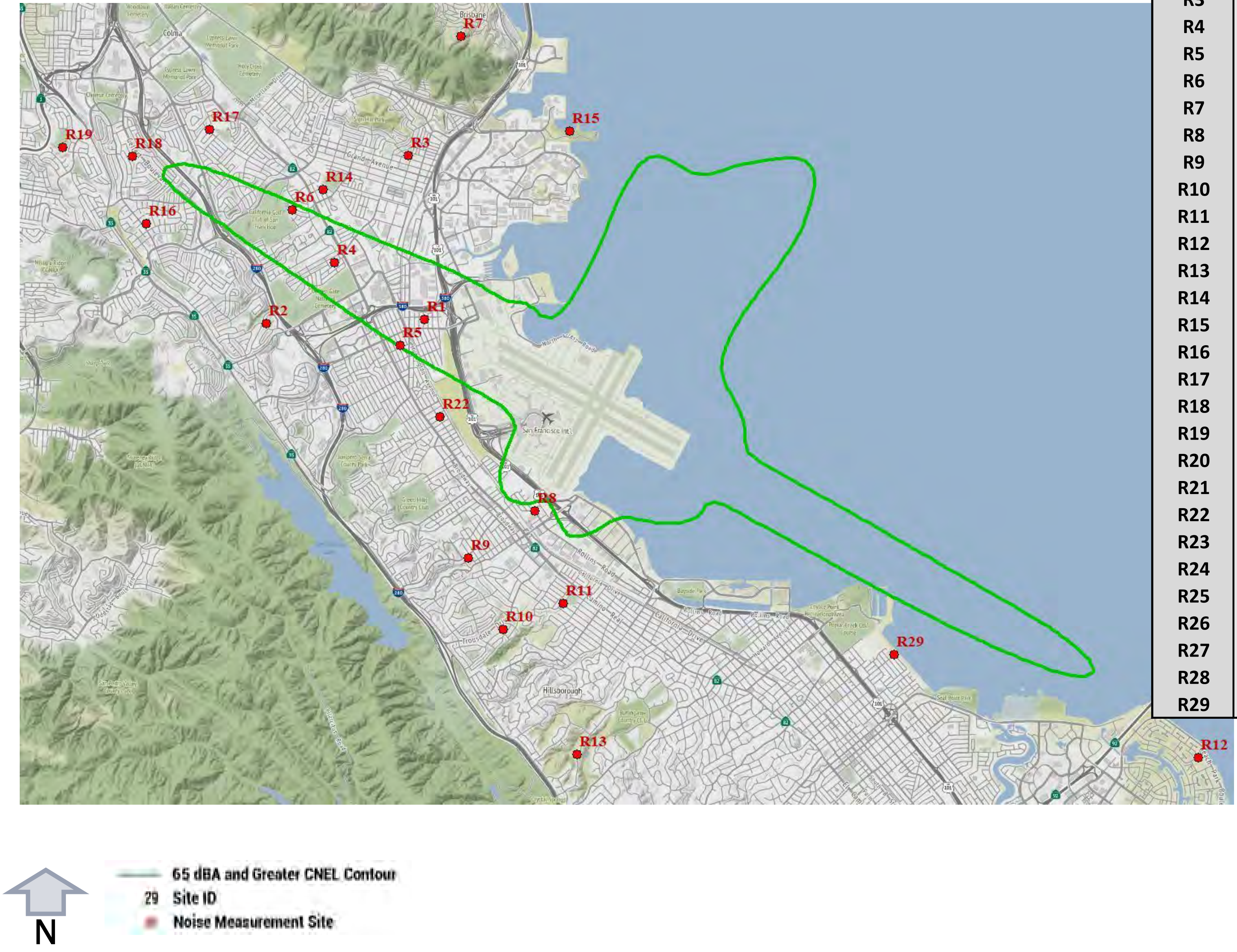


Figure ES-1. Noise Impact Boundary: 12-Month CNEL Contours for January 2021 – December 2021

Source: Port of Oakland ANOMS^{TM} January 1, 2021 through December 31, 2021

Figure 1
Noise Contour Map (2018 Q3)
Source: AEDT version 3c

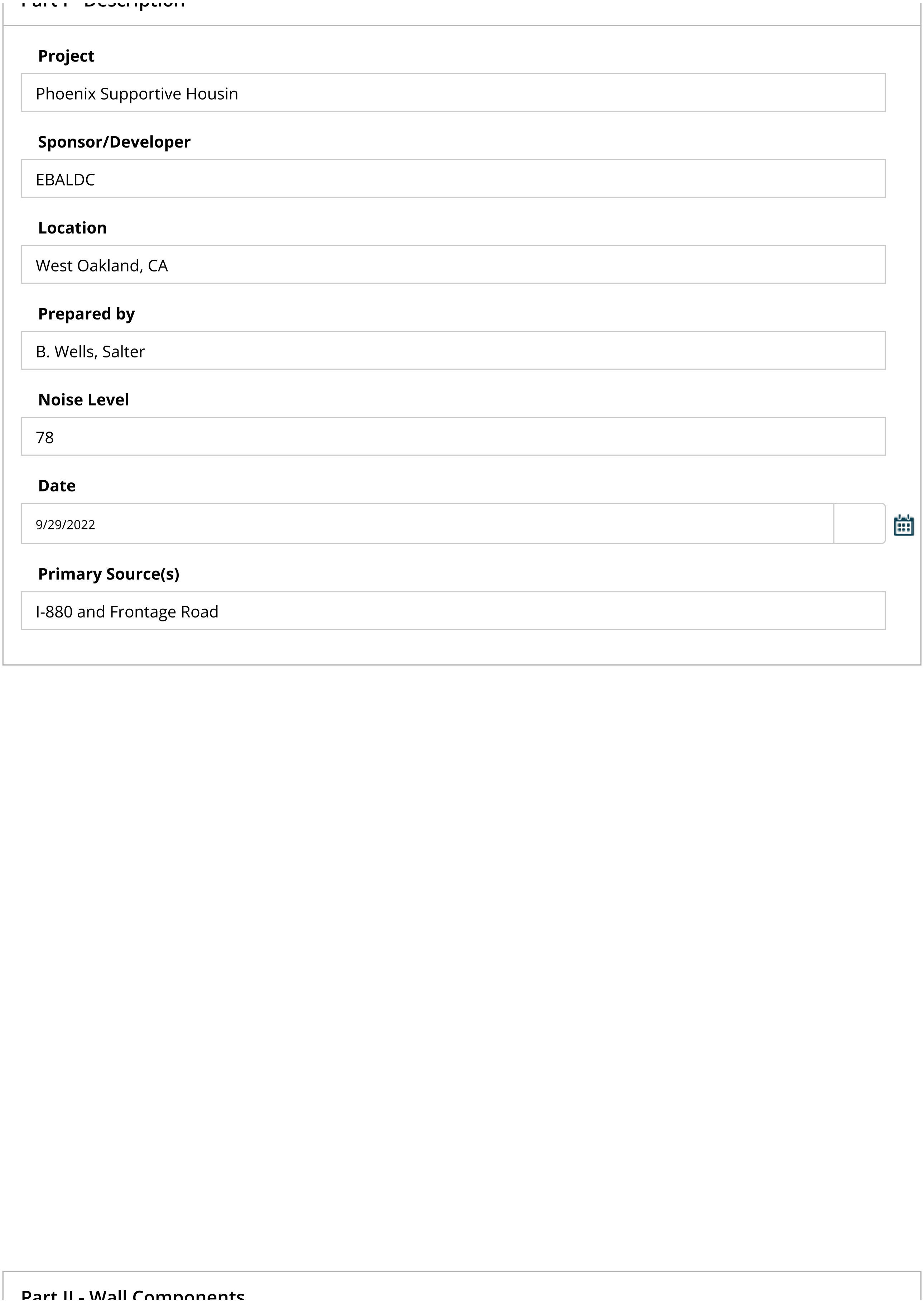
MODELED CNEL	
SITE	2018 Q3
R1	72.7
R2	56.5
R3	55.4
R4	69.2
R5	65.3
R6	66.0
R7	53.5
R8	58.8
R9	53.7
R10	51.2
R11	56.3
R12	61.9
R13	47.7
R14	61.0
R15	58.5
R16	58.2
R17	59.8
R18	63.8
R19	59.9
R20	51.9
R21	46.6
R22	59.5
R23	54.8
R24	51.4
R25	46.0
R26	42.9
R27	41.3
R28	41.3
R29	54.6



APPENDIX E

HUD STraCAT Calculations

NAL1 (West)



Part I - Description

Project

Phoenix Supportive Housin

Sponsor/Developer

EBALDC

Location

West Oakland, CA

Prepared by

B. Wells, Salter

Noise Level

78

Date

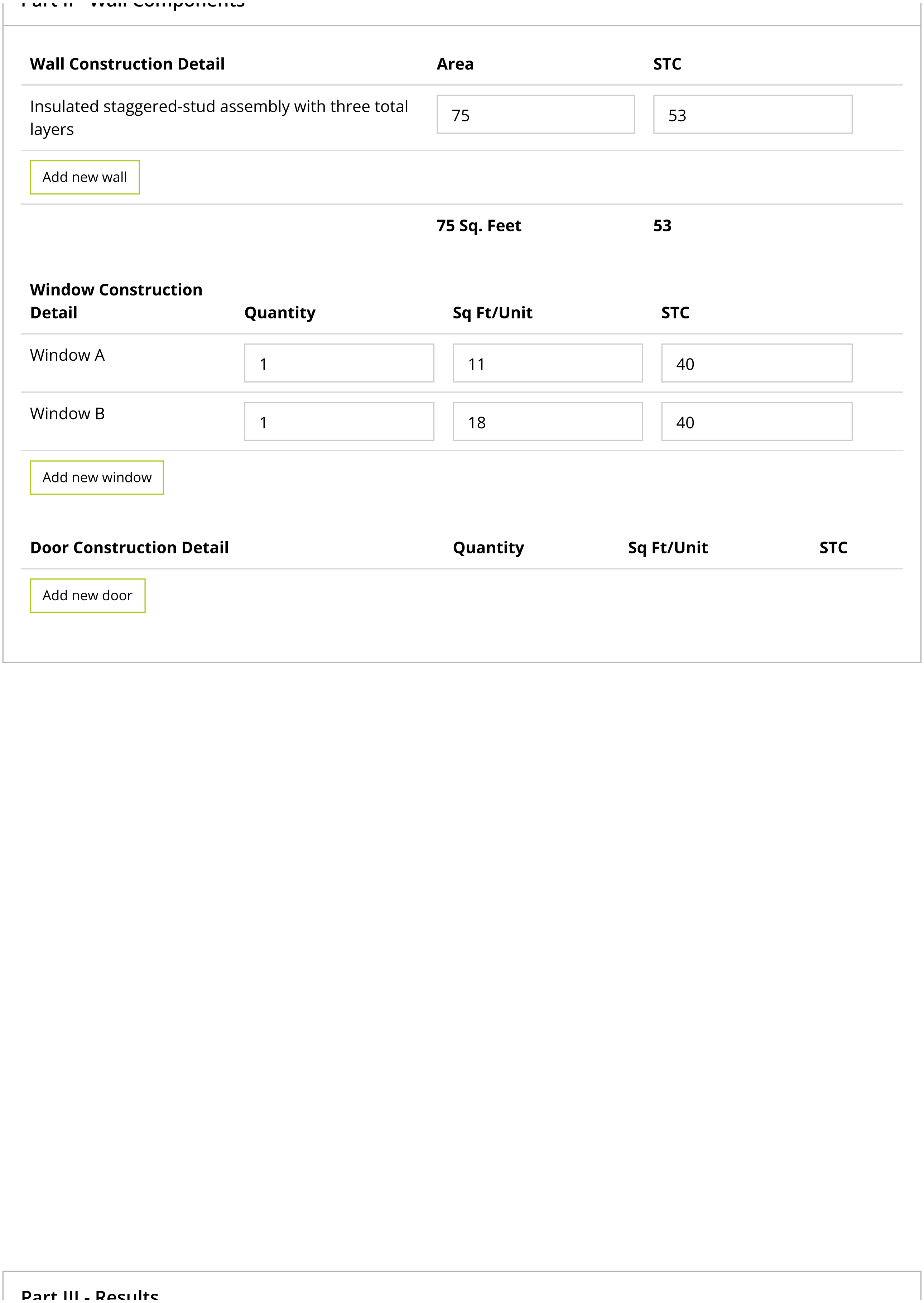
9/29/2022

Primary Source(s)

I-880 and Frontage Road

Part II - Wall Components

NAL1 (West)



Part II - Wall Components

Wall Construction Detail	Area	STC
Insulated staggered-stud assembly with three total layers	75	53

75 Sq. Feet **53**

Window Construction Detail	Quantity	Sq Ft/Unit	STC
Window A	1	11	40
Window B	1	18	40

Door Construction Detail	Quantity	Sq Ft/Unit	STC

Part III - Results

NAL1 (West)

Part III - Results

Wall Statistics

Stat	Value
Area:	75 ft²
Wall STC:	53

Aperture Statistics

Aperture	Count	Area	% of wall
Windows:	2	**29 ft²**	**38.67%**
Doors:	0	**0 ft²**	**0%**

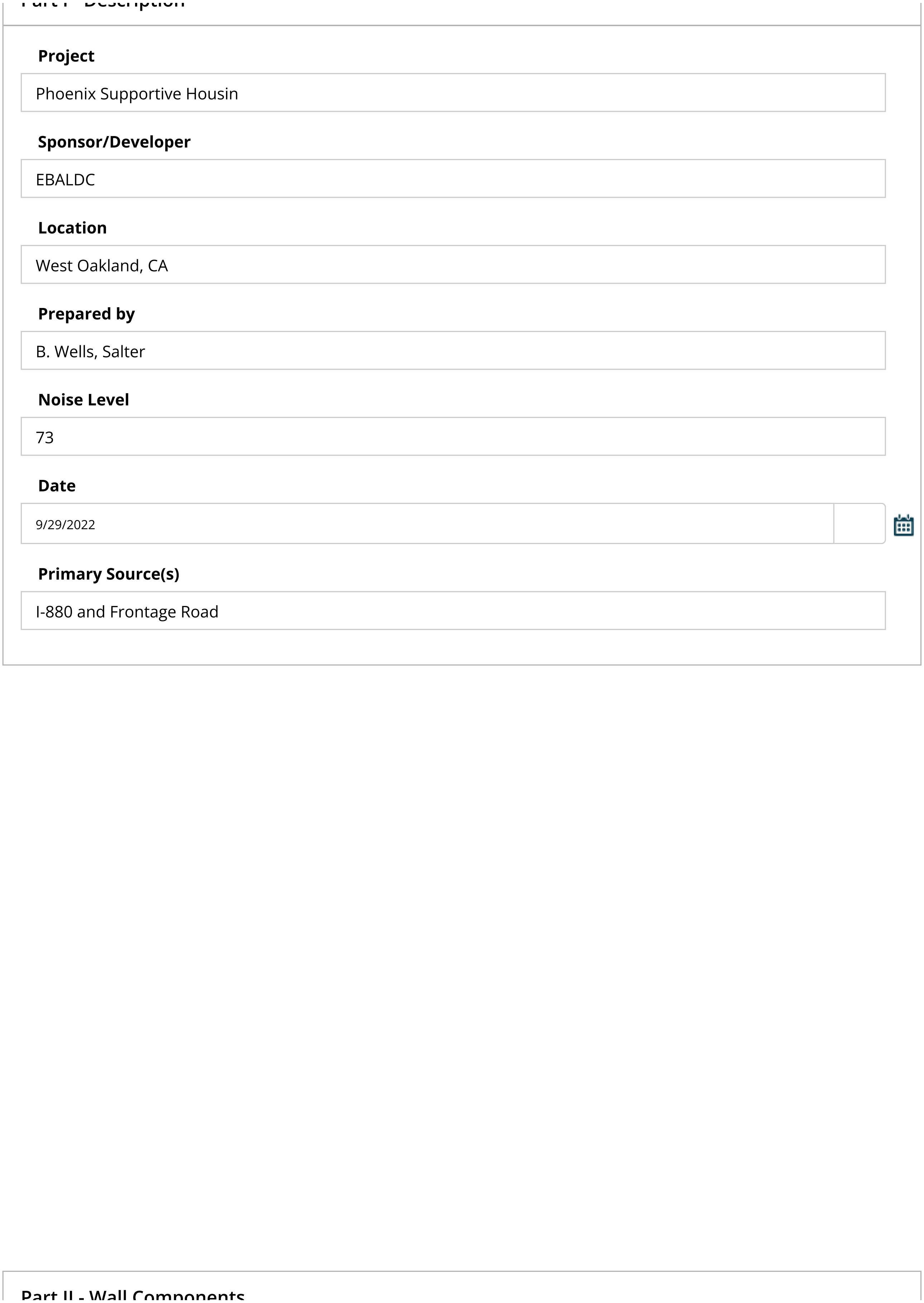
Evaluation Criteria

Criteria	Value
Noise source sound level (dB):	**78**
Combined STC for wall assembly:	**43.79**
Required STC rating:	**36**
Does wall assembly meet requirements?	**Yes**

Print

Part 4 - Tips

NAL2 (North)



Part I - Description

Project

Phoenix Supportive Housin

Sponsor/Developer

EBALDC

Location

West Oakland, CA

Prepared by

B. Wells, Salter

Noise Level

73

Date

9/29/2022

Primary Source(s)

I-880 and Frontage Road

Part II - Wall Components

NAL2 (North)

Part II - Wall Components

Wall Construction Detail	Area	STC
Insulated single-stud assembly with three total layers	75	40

Add new wall

	Area	STC
	75 Sq. Feet	**40**

Window Construction Detail	Quantity	Sq Ft/Unit	STC
Window A	1	11	31
Window B	1	18	31

Add new window

Door Construction Detail	Quantity	Sq Ft/Unit	STC

Add new door

Part III - Results

NAL2 (North)

Part III - Results

Wall Statistics

Stat	Value
Area:	75 ft^2
Wall STC:	40

Aperture Statistics

Aperture	Count	Area	% of wall
Windows:	2	**29 ft^2**	**38.67%**
Doors:	0	**0 ft^2**	**0%**

Evaluation Criteria

Criteria	Value
Noise source sound level (dB):	**73**
Combined STC for wall assembly:	**34.34**
Required STC rating:	**31**
Does wall assembly meet requirements?	**Yes**

Print

Part 4 - Tips

NAL6 (South 2)

Part I - Description

Project

Phoenix Supportive Housin

Sponsor/Developer

EBALDC

Location

West Oakland, CA

Prepared by

B. Wells, Salter

Noise Level

75

Date

9/29/2022

Primary Source(s)

I-880 and Frontage Road

Part II - Wall Components

NAL6 (South 2)

Part II - Wall Components

Wall Construction Detail	Area	STC
Insulated single-stud assembly with three total layers	86	40

Add new wall

	Area	STC
	86 Sq. Feet	**40**

Window Construction Detail	Quantity	Sq Ft/Unit	STC
Window A	2	11	34

Add new window

Door Construction Detail	Quantity	Sq Ft/Unit	STC

Add new door

Part III - Results

NAL6 (South 2)

Part III - Results

Wall Statistics

Stat	Value
Area:	86 ft²
Wall STC:	40

Aperture Statistics

Aperture	Count	Area	% of wall
Windows:	2	**22 ft²**	**25.58%**
Doors:	0	**0 ft²**	**0%**

Evaluation Criteria

Criteria	Value
Noise source sound level (dB):	**75**
Combined STC for wall assembly:	**37.54**
Required STC rating:	**33**
Does wall assembly meet requirements?	**Yes**

Print

Part 4 - Tips

MEMORANDUM

TO: Whom it May Concern

FROM: William Gilchrist, Director of Planning and Building
City of Oakland

DATE: November 7 2022

RE: Special Environmental Clearance and Waiver of EIS for Phoenix Affordable Housing Project, 801 Pine Street, Oakland, CA 94607

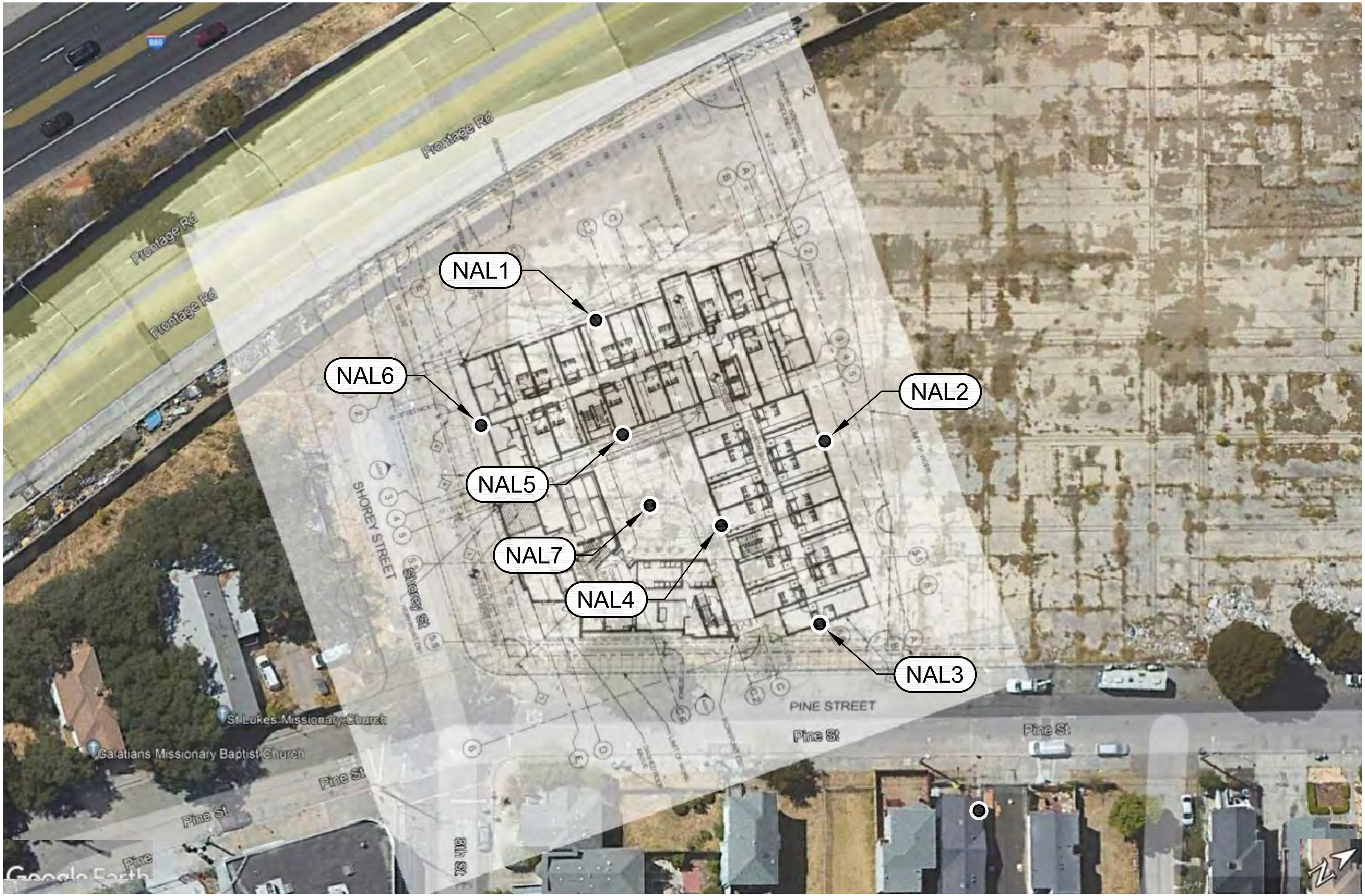
The Environmental Assessment conducted for the Phoenix Affordable Housing project contains a Noise Assessment prepared per HUD guidelines for new construction of housing at the above-named address. Based upon this Assessment, the proposed site is impacted by external future noise that has a rating of up to **78 DNL** which is "Normally Unacceptable" per HUD Guidelines.

Under authority granted to me under 24 CFR Part 51, Section 51.104 (b)(1) and in order to provide a relatively noise free environment for the proposed project's residents, I am requiring the following noise mitigations be included in the final project:

1. The minimum STC ratings for windows for NAL1 shall be STC 40, for NAL2 shall be STC 31, and for NAL 6 shall be STC 34 (see attached map for NAL locations and corresponding walls).
2. The minimum STC ratings for walls for NAL1 shall be STC 53, and for NAL2 and NAL6 shall be STC 40.
3. To maintain a habitable interior environment, all units shall be mechanically ventilated so that windows and doors can be kept closed at the occupant's discretion to control noise intrusion indoors.
4. Any deviation from the inputs used in the attached *Figure 19, Description of Noise Attenuation* for building materials, such as stucco siding, will require that the project demonstrate that interior noise levels will remain at 45 dBA or lower.

Under my authority as Certifying Officer and Environmental Clearance Officer, per 24 CFR Section 51.104(b)(1), I am waiving the requirement to prepare an EIS for the project as it has been demonstrated to me that the noise exposure of the proposed living areas on site can be adequately mitigated, and no other issues or statutes were found to be of concern in the Environmental Assessment which would merit preparation of an EIS.

William Gilchrist, Director of Planning and Building Date



PHOENIX SUPPORTIVE HOUSING HUD NOISE ASSESSMENT LOCATIONS

FIGURE 1

Salter # 20–0170

BMW/EBM 10.04.21

Figure 19 HUD Figure 19

Figure 19
Description of Noise Attenuation Measures
(Acoustical Construction)

Part I

Project Name: Phoenix Affordable Housing Project

Location: Oakland California

Sponsor/Developer: East Bay Asian Local Development Corporation

Noise Level (From NAG): 78 (NAL1), 73 (NAL2), 75 (NAL3) dBA DNL Attenuation Required: 33 dBA (NAL1), 28 (NAL2), 30 (NAL3)

Primary Noise Source(s): I-880, Frontage Road

Part II

1. For wall(s) facing and parallel to the noise source(s) (or closest to parallel:
   - a. Description of wall construction*: Insulated staggered-stud assembly With three total layers
   - b. STC rating for wall (rated for no windows or doors): 53 (NAL1), 40 (NAL2), 40 (NAL3)
   - c. Description of windows: Vinyl, dual-pane
   - d. STC rating for window type: 40 (NAL1), 31 (NAL2), 34 (NAL3)
   - e. Description of doors: Vinyl, dual-pane
   - f. STC rating for doors: NA
   - g. Percentage of wall (per wall, per dwelling unit) composed of windows: 38.7% (NAL1 and NAL2), 25.3 (NAL3)% and doors: 0%
   - h. Combined STC rating for wall component: 43 (NAL1), 34 (NAL2), 37 (NAL3)
2. For walls perpendicular to noise source(s):
   - a. Description of wall construction*: Stucco exterior siding, insulated wood stud, and gypsum board interior
   - b. STC rating for wall (rated for no windows or doors): 53 (NAL1), 40 (NAL2), 40 (NAL3)
   - c. Description of windows: Vinyl, dual-pane
   - d. STC rating for window type: 40 (NAL1), 31 (NAL2), 34 (NAL3)
   - e. Description of doors: Vinyl, dual-pane
   - f. STC rating for doors: NA
   - g. Percentage of wall (per wall, per dwelling unit) composed of windows: 8.7% (NAL1 and NAL2), 25.3 (NAL3)% and doors: 0%
   - h. Combined STC rating for wall component: 43 (NAL1), 34 (NAL2), 37 (NAL3)
3. Roofing component (if overhead attenuation is required to aircraft noise):
   - a. Description of roof construction: N/A
   - b. STC rating (rated as if no skylights or other openings): N/A
   - c. Description of skylights or overhead windows: N/A
   - d. STC rating for skylights or overhead windows: N/A
   - e. Percentage of roof composed of skylights or windows (per dwelling unit): N/A
   - f. Percentage of roof composed of large uncapped openings such as chimneys: N/A
   - g. Combined STC rating for roof component: N/A
4. Description of type of mechanical ventilation provided: Satisfactory forced air mechanical ventilation system.

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APPENDIX J

ENVIRONMENTAL JUSTICE

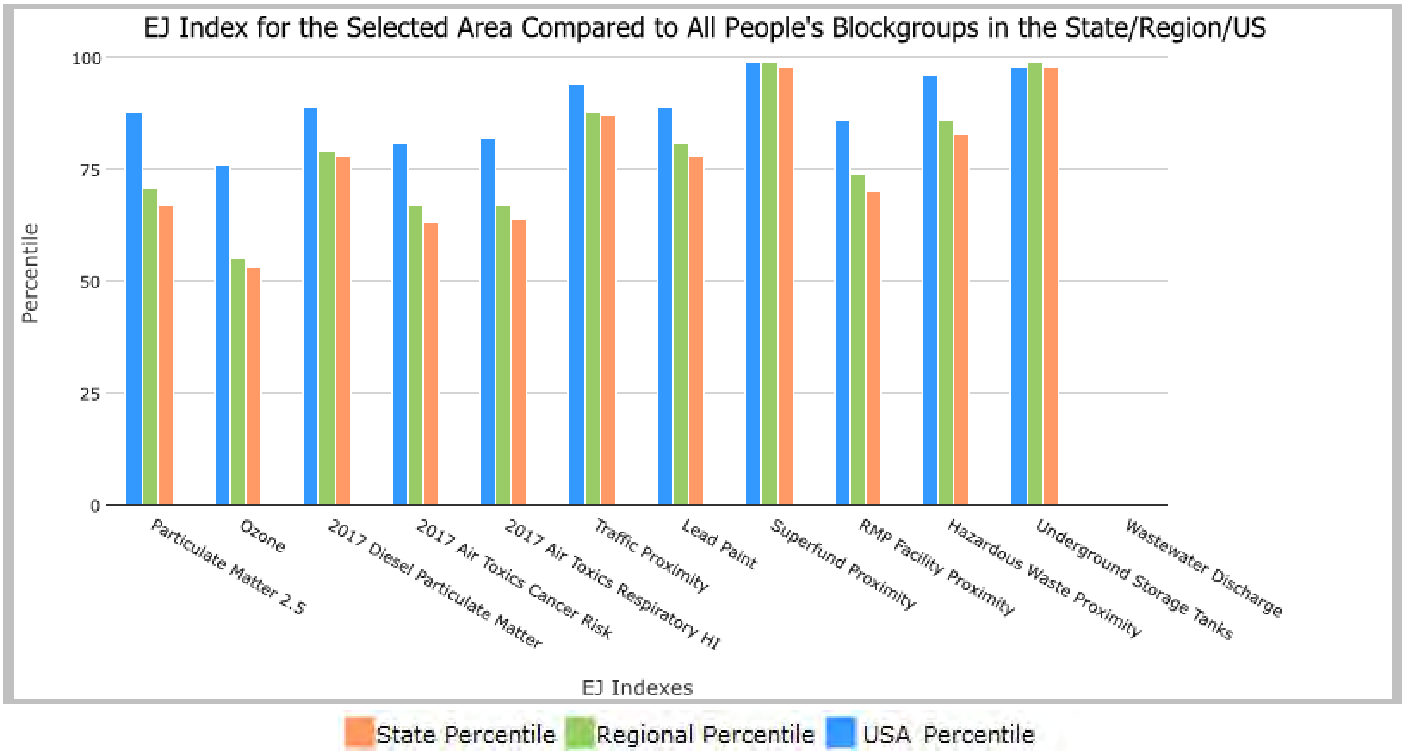
EJScreen Report (Version 2.0)

1 mile Ring Centered at 37.809682,-122.303284, CALIFORNIA, EPA Region 9

Approximate Population: 9,733

Input Area (sq. miles): 3.14

Selected Variables	State Percentile	EPA Region Percentile	USA Percentile
Environmental Justice Indexes			
EJ Index for Particulate Matter 2.5	67	71	88
EJ Index for Ozone	53	55	76
EJ Index for 2017 Diesel Particulate Matter*	78	79	89
EJ Index for 2017 Air Toxics Cancer Risk*	63	67	81
EJ Index for 2017 Air Toxics Respiratory HI*	64	67	82
EJ Index for Traffic Proximity	87	88	94
EJ Index for Lead Paint	78	81	89
EJ Index for Superfund Proximity	98	99	99
EJ Index for RMP Facility Proximity	70	74	86
EJ Index for Hazardous Waste Proximity	83	86	96
EJ Index for Underground Storage Tanks	98	99	98
EJ Index for Wastewater Discharge	N/A	N/A	N/A



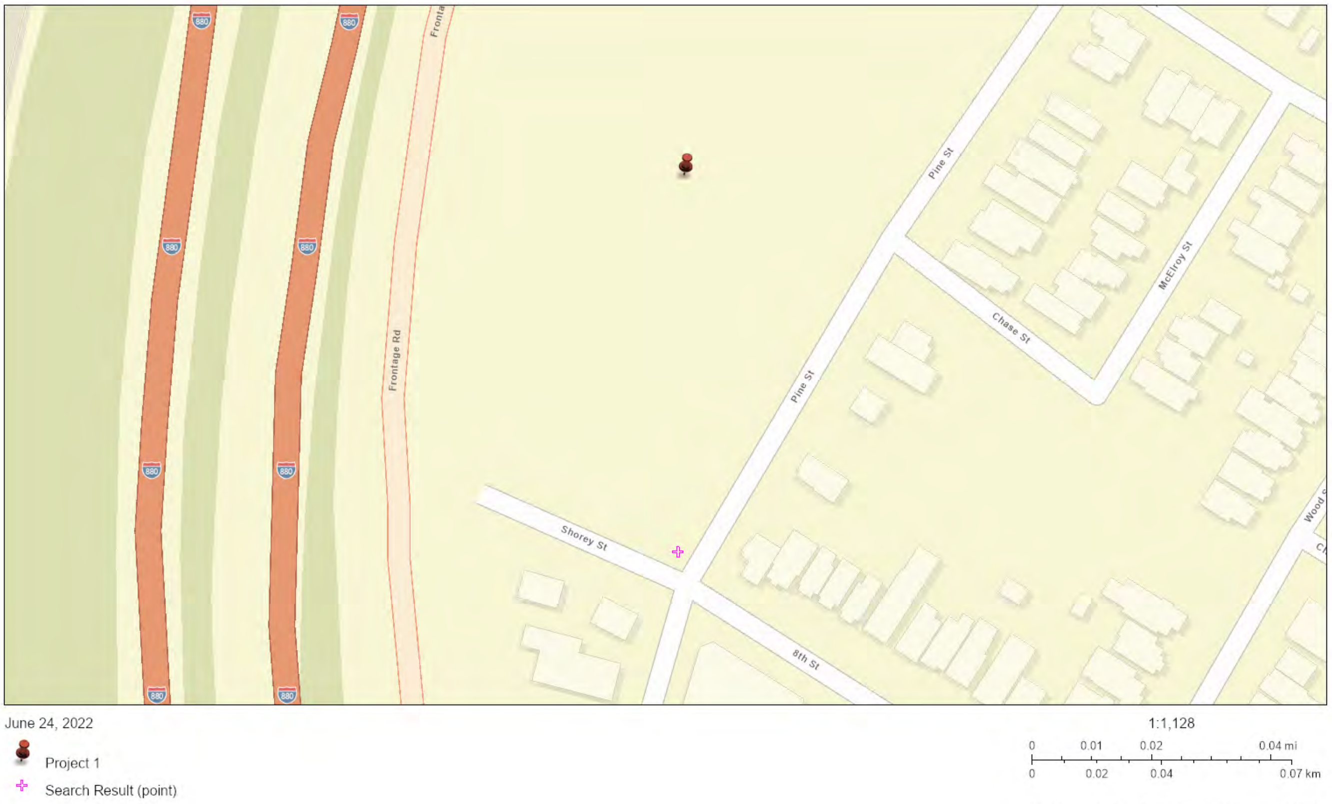
This report shows the values for environmental and demographic indicators and EJSCREEN indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

EJScreen Report (Version 2.0)

1 mile Ring Centered at 37.809682,-122.303284, CALIFORNIA, EPA Region 9

Approximate Population: 9,733

Input Area (sq. miles): 3.14



June 24, 2022

Esri Community Maps Contributors, URS Corporation, California State Parks, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

Sites reporting to EPA	
Superfund NPL	1
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	2

EJScreen Report (Version 2.0)

1 mile Ring Centered at 37.809682,-122.303284, CALIFORNIA, EPA Region 9

Approximate Population: 9,733

Input Area (sq. miles): 3.14

Selected Variables	Value	State Avg.	%ile in State	EPA Region Avg.	%ile in EPA Region	USA Avg.	%ile in USA
Pollution and Sources							
Particulate Matter 2.5 (µg/m^3)	13.2	11.7	75	10.8	80	8.74	97
Ozone (ppb)	27.8	48.1	2	49.6	1	42.6	0
2017 Diesel Particulate Matter* (µg/m^3)	0.624	0.33	95	0.33	90-95th	0.295	90-95th
2017 Air Toxics Cancer Risk* (lifetime risk per million)	30	31	76	30	70-80th	29	80-90th
2017 Air Toxics Respiratory HI*	0.44	0.43	77	0.41	70-80th	0.36	80-90th
Traffic Proximity (daily traffic count/distance to road)	3100	1300	87	1300	88	710	95
Lead Paint (% Pre-1960 Housing)	0.56	0.29	79	0.23	83	0.28	81
Superfund Proximity (site count/km distance)	1.7	0.18	98	0.15	99	0.13	99
RMP Facility Proximity (facility count/km distance)	0.81	1.1	58	1	63	0.75	71
Hazardous Waste Proximity (facility count/km distance)	11	5.2	86	4.4	89	2.2	96
Underground Storage Tanks (count/km^2)	32	3.7	99	3.3	99	3.9	98
Wastewater Discharge (toxicity-weighted concentration/m distance)	N/A	74	N/A	59	N/A	12	N/A
Socioeconomic Indicators							
Demographic Index	58%	47%	67	46%	69	36%	80
People of Color	72%	63%	56	60%	60	40%	79
Low Income	43%	31%	72	31%	71	31%	72
Unemployment Rate	8%	6%	74	6%	75	5%	79
Linguistically Isolated	7%	9%	53	8%	58	5%	77
Less Than High School Education	11%	17%	46	16%	49	12%	58
Under Age 5	6%	6%	52	6%	52	6%	55
Over Age 64	9%	14%	31	15%	31	16%	23

*Diesel particular matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's 2017 Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: https://www.epa.gov/haps/air-toxics-data-update.

For additional information, see: www.epa.gov/environmentaljustice

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APPENDIX K

PROJECT AGREEMENTS

AGREEMENT REGARDING SHARED FACILITIES

THIS AGREEMENT REGARDING SHARED FACILITIES (this "Agreement") is made as of August 26, 2022, by and between Urban Designs LLC, a California limited liability company ("Urban"), and Phoenix 801 Pine, LP, a California limited partnership ("Phoenix"), with reference to the following facts:

WHEREAS, Urban is the owner of certain real property located in Oakland, California, having Alameda County Assessor Parcel Number 006-0047-001 (the "Property");

WHEREAS, Urban has filed an application with the City of Oakland (the "City") to subdivide the Property (the "Subdivision") as depicted on the tentative parcel map attached hereto as Exhibit A (the "Parcel Map");

WHEREAS, Urban and Phoenix are parties to that certain Purchase and Sale Agreement and Joint Escrow Instructions dated as of August 12, 2019 (as amended, the "Purchase and Sale Agreement"), pursuant to which Urban has agreed to sell to Phoenix, and Phoenix has agreed to purchase from Urban, the portion of the Property identified on the Parcel Map as "Parcel 1" (the "Housing Parcel") upon the completion of the Subdivision;

WHEREAS, the Parcel Map establishes easements over and across the Housing Parcel and other parcels resulting from the Subdivision (together with the Housing Parcel, the "Parcels") for utilities and pedestrian and vehicular access (the "Easements");

WHEREAS, the City's approval of the Parcel Map is conditioned upon the construction of a shared driveway within the Easements (the "Shared Driveway") and the recording of an agreement for the maintenance of the Shared Driveway (the "Maintenance Agreement");

WHEREAS, Urban and Phoenix desire to enter into this Agreement in order to memorialize certain agreements relating to the Easements, Shared Driveway and Maintenance Agreement.

NOW, THEREFORE, in consideration of the mutual covenants contained in this Amendment, the Seller and Buyer agree as follows:

1. Recitals. The parties hereby acknowledge the truth of the foregoing recitals, which are hereby incorporated into this Agreement.

2. Agreement. Following the Subdivision, each owner of a Parcel shall be responsible, at its own cost, for the maintenance of the portion of Shared Facilities (defined below) located at such owner's Parcel. Urban covenants and agrees not to record a Maintenance Agreement or to bind the owner of any Parcel to any other agreement which contravenes or conflicts with foregoing. As used herein, the term "Shared Facilities" shall mean the Shared Driveway and any utilities, landscaping or other improvements constructed within the Easements for the benefit of more than one Parcel.

3. Conflicts. In the event of any conflict between the terms and conditions of this Agreement and the terms and conditions of the Purchase and Sale Agreement, the terms and conditions of this Agreement shall control.

IN WITNESS WHEREOF, the Parties have executed this Amendment as of the date first set forth above.

URBAN:

URBAN DESIGNS LLC,
a California limited liability company

DocuSigned by:
By: Richard Holliday
A8337B28D442464...
Richard M. Holliday, Manager

PHOENIX:

PHOENIX 801 PINE, LP,
a California limited partnership

By: Phoenix 801 Pine, LLC,
a California limited liability company,
its managing general partner

By: East Bay Asian Local Development Corporation,
a California nonprofit public benefit corporation,
its sole member/manager

DocuSigned by:
By: Andre H. Madeira
DE17FA815B38413...
Andre H. Madeira, Chief Executive Officer

By: Allied 801 Pine LLC,
a California limited liability company,
its administrative general partner

By: Allied Housing, Inc.,
a California nonprofit public benefit corporation,
its sole member/manager

DocuSigned by:
By:
85DED2A7412C488...
Jonathan White, Chief Real Estate Officer

EXHIBIT A

PARCEL MAP

[See Attached]

PARCEL MAP NO. 10835

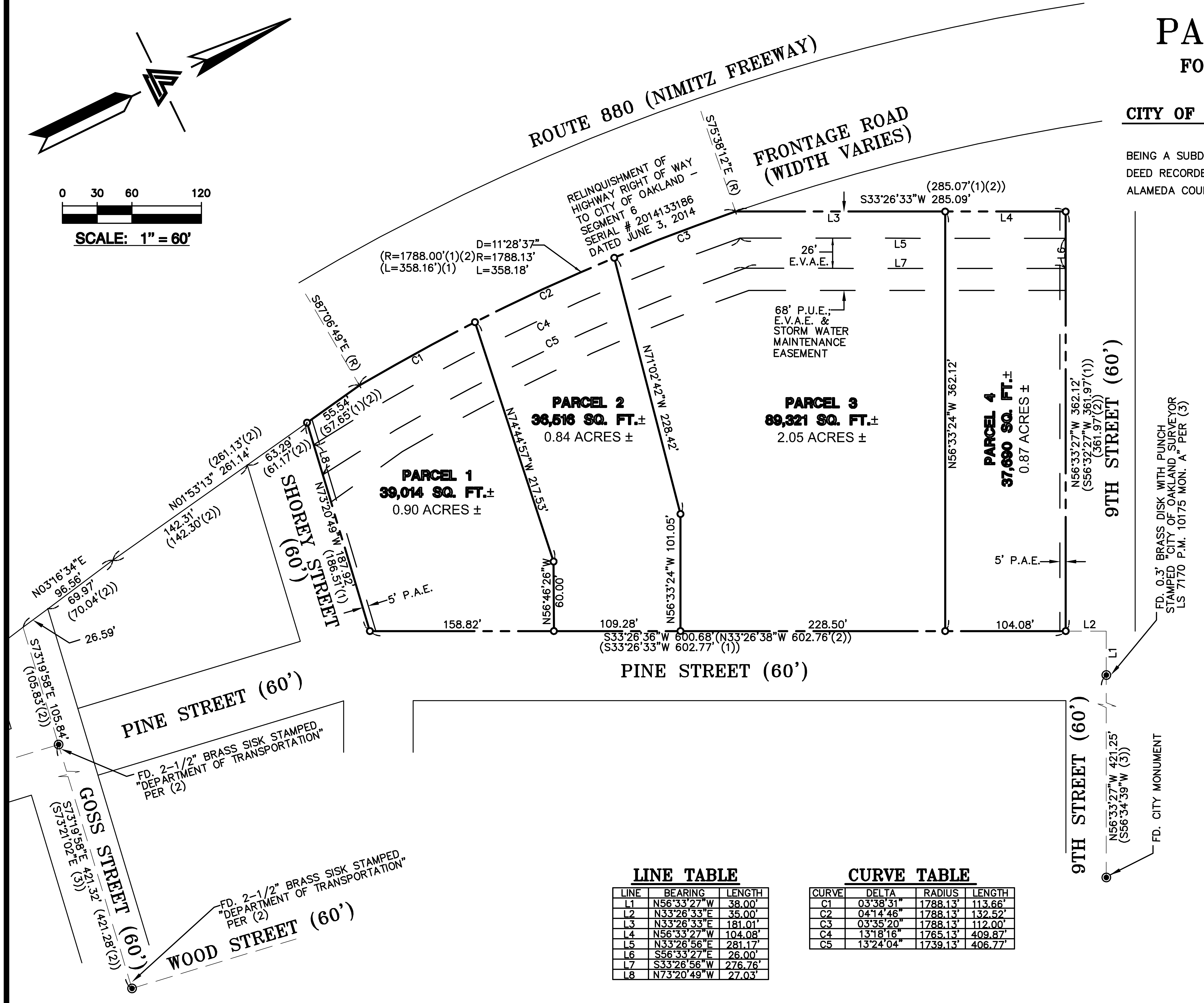
FOR 4 LOT SUBDIVISION FOR RESIDENTIAL PURPOSES

CITY OF OAKLAND, ALAMEDA COUNTY, STATE OF CALIFORNIA

CONSISTING OF TWO (2) SHEETS **OCT. 2019**

BEING A SUBDIVISION OF THAT CERTAIN REAL PROPERTY AS SHOWN ON THAT CERTAIN GRANT DEED RECORDED MAY 16, 2019 AS DOCUMENT NO. 2019-090488, OFFICIAL RECORDS OF ALAMEDA COUNTY, STATE OF CALIFORNIA.

LEA & BRAZE ENGINEERING, INC.
CIVIL ENGINEERS • LAND SURVEYORS
2495 INDUSTRIAL PARKWAY WEST
HAYWARD, CALIFORNIA 94545
(510) 887-4086
FAX (510) 887-3019
WWW.LEABRAZE.COM



LINE TABLE

LINE	BEARING	LENGTH
L1	N56°33'27"W	38.00'
L2	N33°26'33"E	35.00'
L3	N33°26'33"E	181.01'
L4	N56°33'27"W	104.08'
L5	N33°26'56"E	281.17'
L6	S56°33'27"E	26.00'
L7	S33°26'56"W	276.76'
L8	N73°20'49"W	27.03'

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH
C1	03°38'31"	1788.13'	113.66'
C2	04°14'46"	1788.13'	132.52'
C3	03°35'20"	1788.13'	112.00'
C4	13°18'16"	1765.13'	409.87'
C5	13°24'04"	1739.13'	406.77'

LEGEND

◉	FOUND MONUMENT AS NOTED
○	SET 3/4" IRON PIPE W/PLASTIC CAP "LS 7623"
P.A.E.	PEDESTRIAN ACCESS EASEMENT
P.U.E.	PUBLIC UTILITY EASEMENT
E.V.A.E.	EMERGENCY VEHICLE ACCESS EASEMENT
——— – – ———	ADJACENT PROPERTY LINE
━━━ ━ ━ ━━━	DISTINCTIVE BORDER LINE
—— —— ——	EASEMENT LINE
— — — — — —	TIE OR RADIAL LINE

NOTES:

1. OVERALL PROPERTY IS 202,541 SQ. FT. +/-, 4.649 ACRES
2. ALL DISTANCES ARE IN FEET AND DECIMALS THEREOF.

REFERENCES

(1) RECORD PER 2019-090488

(2) RECORD 25 MAPS 58

(3) RECORD 324 MAPS 94

BASIS OF BEARINGS

THE BEARING N73°19'58"W ALONG THE MONUMENT LINE IN GOSS STREET AS SHOWN ON THAT RECORD OF SURVEY R/S 1687, FILED IN BOOK 25 OF RECORDS OF SURVEY AT PAGES 58-69, ALAMEDA COUNTY RECORDS, IS THE BASIS OF ALL BEARINGS SHOWN UPON THIS MAP.

CITY OF OAKLAND

DALZIEL BUILDING • 250 FRANK H. OGAWA PLAZA • SUITE 3315 • OAKLAND, CALIFORNIA 94612

Planning and Building Department (510) 238-3941
FAX (510) 238-6538
TDD (510) 238-3254

To: David Chen, Project Manager East Bay Asian Local Development Corporation

Cc: Jamie Hiteshew, Holliday Development

From: Catherine Payne, Development Planning Manager, City of Oakland

Re: Request for Modification to the Conditions of Approval for the Phoenix PUD, PLN 18252F01

The East Bay Asian Local Development Corporation is requesting amendments to the Conditions of Approval for the Phoenix PUD, approved by the Planning Commission December 18, 2018, Case File PUD 18252 F01, 801 Pine Street.

This request is processed as an administrative amendment under **Oakland Planning Code Section 17.140.110 Adherence to approved plan, and modification thereof,** which provides that minor changes in an approved preliminary or final development plan may be approved by the Director of City Planning if such changes are consistent with the purposes and general character of the development plan. The changes proposed meet this requirement because they are limited to processing and timing rather than substantive modifications.
The request is to: 1) designate responsibility for required improvements to the developers of Phase I and Phases 2-4 to allow the improvements affecting the entire PUD site to be implemented with development of each phase.
The amended conditions provide alternate ways to process the information needed by the City for adequate and complete project review.

Five site specific conditions of approval are amended. They are presented in the attached document titled *"STANDARD CONDITIONS OF APPROVAL Approved December 19, 2018, Amended November 3, 2022."*

Summary of Amended Conditions
Condition 18: Allows public improvements to be constructed independently for each Final Development Permit.
Condition 20 Allows site remediation to occur for each parcel.
Condition 21: Requires public improvements (on- and off-site) on a per parcel basis prior to Building Permit for each phase.

Condition 22: Requires a binding maintenance agreement for the Shared Access Facility for each parcel as shown on the Tentative Parcel Map.
Condition 23: Requires a registered professional civil engineer to certify completion of the Shared Access Facility for each parcel and requires certification of landscaping and performance bonding for grading and other associated improvements for each parcel.

The amended document includes an Applicant and/or Contractor Statement which you will need to sign and return to the Planning Division. Please send the signed copy to Rebecca Lind, Planner IV. A signed copy of the amended conditions will also need to be submitted as part of the building permit application consistent with COA #6.

APPROVED BY: Date Nov 3, 2022

Catherine Payne

Catherine Payne
Development Planning Manager

ATTACHMENT B

CONDITIONS OF APPROVAL

1. Approved Use

The project shall be constructed and operated in accordance with the authorized use as described in the approved application materials, and staff report dated December 19, 2018, and the approved plans, dated received December 13, 2018, as amended by the following conditions of approval and mitigation measures, if applicable ("Conditions of Approval" or "Conditions") as amended November 3, 2022.

2. Effective Date, Expiration, Extensions and Extinguishment

This Approval shall become effective immediately, unless the Approval is appealable, in which case the Approval shall become effective in ten (10) calendar days unless an appeal is filed.

Unless a different termination date is prescribed, this Approval shall expire two years from the Approval date, or from the date of the final decision in the event of an appeal, unless within such period a complete building permit application has been filed with the Bureau of Building and diligently pursued towards completion, or the authorized activities have commenced in the case of a permit not involving construction or alteration. This approval is subject to a phasing plan that includes five phases (noted on the plans as "Parcel 1 (which includes entire site remediation and all public on- and off-site infrastructure improvements", "Future Building A", "Future Building B", "Future Building C" and "Future Maker Space"), each subject to approval of a Final Development Permit. An application for a Final Development Permit for each subsequent phase shall be submitted and deemed complete within two years of the deemed complete date for the previous phase Final Development Permit. In any case, the last Final Development Permit application shall be submitted to the City of Oakland and deemed complete within ten years of this approval. Upon written request and payment of appropriate fees submitted no later than the expiration date of this Approval, the Director of City Planning or designee may grant a one-year extension of this date, with additional extensions subject to approval by the approving body.

Expiration of any necessary building permit or other construction-related permit for this project may invalidate this Approval if said Approval has also expired. If litigation is filed challenging this Approval, or its implementation, then the time period stated above for obtaining necessary permits for construction or alteration and/or commencement of authorized activities is automatically extended for the duration of the litigation.

3. Compliance with Other Requirements

The project applicant shall comply with all other applicable federal, state, regional, and local laws/codes, requirements, regulations, and guidelines, including but not limited to those imposed by the City's Bureau of Building, Fire Marshal, Department of Transportation, and Public Works Department. Compliance with other applicable requirements may require changes to the approved use and/or plans. These changes shall be processed in accordance with the procedures contained in Condition #4.

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4. Minor and Major Changes

a. Minor changes to the approved project, plans, Conditions, facilities, or use may be approved administratively by the Director of City Planning.

b. Major changes to the approved project, plans, Conditions, facilities, or use shall be reviewed by the Director of City Planning to determine whether such changes require submittal and approval of a revision to the Approval by the original approving body or a new independent permit/approval. Major revisions shall be reviewed in accordance with the procedures required for the original permit/approval. A new independent permit/approval shall be reviewed in accordance with the procedures required for the new permit/approval.

5. Compliance with Conditions of Approval

a. The project applicant and property owner, including successors, (collectively referred to hereafter as the "project applicant" or "applicant") shall be responsible for compliance with all the Conditions of Approval and any recommendations contained in any submitted and approved technical report at his/her sole cost and expense, subject to review and approval by the City of Oakland.

b. The City of Oakland reserves the right at any time during construction to require certification by a licensed professional at the project applicant's expense that the as-built project conforms to all applicable requirements, including but not limited to, approved maximum heights and minimum setbacks. Failure to construct the project in accordance with the Approval may result in remedial reconstruction, permit revocation, permit modification, stop work, permit suspension, or other corrective action.

c. Violation of any term, Condition, or project description relating to the Approval is unlawful, prohibited, and a violation of the Oakland Municipal Code. The City of Oakland reserves the right to initiate civil and/or criminal enforcement and/or abatement proceedings, or after notice and public hearing, to revoke the Approval or alter these Conditions if it is found that there is violation of any of the Conditions or the provisions of the Planning Code or Municipal Code, or the project operates as or causes a public nuisance. This provision is not intended to, nor does it, limit in any manner whatsoever the ability of the City to take appropriate enforcement actions. The project applicant shall be responsible for paying fees in accordance with the City's Master Fee Schedule for inspections conducted by the City or a City-designated third-party to investigate alleged violations of the Approval or Conditions.

6. Signed Copy of the Approval/Conditions

A copy of the Approval letter and Conditions shall be signed by the project applicant, attached to each set of permit plans submitted to the appropriate City agency for the project, and made available for review at the project job site at all times.

7. Blight/Nuisances

The project site shall be kept in a blight/nuisance-free condition. Any existing blight or nuisance shall be abated within sixty (60) days of approval, unless an earlier date is specified elsewhere.

8. Indemnification

a. To the maximum extent permitted by law, the project applicant shall defend (with counsel acceptable to the City), indemnify, and hold harmless the City of Oakland, the Oakland City Council, the Oakland Redevelopment Successor Agency, the Oakland City Planning Commission, and their respective agents, officers, employees, and volunteers (hereafter collectively called "City") from any liability, damages, claim, judgment, loss (direct or indirect), action, causes of action, or proceeding (including legal costs, attorneys' fees, expert witness or consultant fees, City Attorney or staff time, expenses or costs) (collectively called “Action”) against the City to attack, set aside, void or annul this Approval or implementation of this Approval. The City may elect, in its sole discretion, to participate in the defense of said Action and the project applicant shall reimburse the City for its reasonable legal costs and attorneys' fees.

b. Within ten (10) calendar days of the filing of any Action as specified in subsection (a) above, the project applicant shall execute a Joint Defense Letter of Agreement with the City, acceptable to the Office of the City Attorney, which memorializes the above obligations. These obligations and the Joint Defense Letter of Agreement shall survive termination, extinguishment, or invalidation of the Approval. Failure to timely execute the Letter of Agreement does not relieve the project applicant of any of the obligations contained in this Condition or other requirements or Conditions of Approval that may be imposed by the City.

9. Severability

The Approval would not have been granted but for the applicability and validity of each and every one of the specified Conditions, and if one or more of such Conditions is found to be invalid by a court of competent jurisdiction this Approval would not have been granted without requiring other valid Conditions consistent with achieving the same purpose and intent of such Approval.

10. Special Inspector/Inspections, Independent Technical Review, Project Coordination and Monitoring.

The project applicant may be required to cover the full costs of independent third-party technical review and City monitoring and inspection, including without limitation, special inspector(s)/inspection(s) during times of extensive or specialized plan-check review or construction, and inspections of potential violations of the Conditions of Approval. The project applicant shall establish a deposit with Engineering Services and/or the Bureau of Building, if directed by the Director of Public Works, Building Official, Director of City Planning, Director of Transportation, or designee, prior to the issuance of a construction-related permit and on an ongoing as-needed basis.

11. Public Improvements

The project applicant shall obtain all necessary permits/approvals, such as encroachment permits, obstruction permits, curb/gutter/sidewalk permits, and public improvement ("p-job") permits from the City for work in the public right-of-way, including but not limited to, streets, curbs, gutters, sidewalks, utilities, and fire hydrants. Prior to any work in the public right-of- way, the applicant shall submit plans for review and approval by the Bureau of Planning, the Bureau of Building, Engineering Services, Department of Transportation, and other City departments as required. Public improvements shall be designed and installed to the satisfaction of the City.

12. Compliance Matrix

The project applicant shall submit a Compliance Matrix, in both written and electronic form, for review and approval by the Bureau of Planning and the Bureau of Building that lists each Condition of Approval (including each mitigation measure if applicable) in a sortable spreadsheet. The Compliance Matrix shall contain, at a minimum, each required Condition of Approval, when compliance with the Condition is required, and the status of compliance with each Condition. For multi-phased projects, the Compliance Matrix shall indicate which Condition applies to each phase. The project applicant shall submit the initial Compliance Matrix prior to the issuance of the first construction-related permit and shall submit an updated matrix upon request by the City.

13. Construction Management Plan

Prior to the issuance of the first construction-related permit, the project applicant and his/her general contractor shall submit a Construction Management Plan (CMP) for review and approval by the Bureau of Planning, Bureau of Building, and other relevant City departments such as the Fire Department, Department of Transportation, and the Public Works Department as directed. The CMP shall contain measures to minimize potential construction impacts including measures to comply with all construction-related Conditions of Approval (and· mitigation measures if applicable) such as dust control, construction emissions, hazardous materials, construction days/hours, construction traffic control, waste reduction and recycling, stormwater pollution prevention, noise control, complaint management, and cultural resource management (see applicable Conditions below). The CMP shall provide project-specific information including descriptive procedures, approval documentation, and drawings (such as a site logistics plan, fire safety plan, construction phasing plan, proposed truck routes, traffic control plan, complaint management plan, construction worker parking plan, and litter/debris clean-up plan) that specify how potential construction impacts will be minimized and how each construction-related requirement will be satisfied throughout construction of the project.

14. Standard Conditions of Approval / Mitigation Monitoring and Reporting Program (SCAMMRP)

a. All mitigation measures identified in the 801 Pine Street CEQA Analysis are included in the Standard Condition of Approval / Mitigation Monitoring and Reporting Program (SCAMMRP) which is included in these Conditions of Approval and are incorporated herein by reference, as Attachment C as Conditions of Approval of the project. The Standard Conditions of Approval identified in the 801 Pine Street CEQA Analysis document are also included in the SCAMMRP, and are, therefore, incorporated into these Conditions by reference but are not repeated in these Conditions. To the extent that there is any inconsistency between the SCAMMRP and these Conditions, the more restrictive Conditions shall govern. In the event a Standard Condition of Approval or mitigation measure recommended in the 801 Pine Street CEQA Analysis document has been inadvertently omitted from the SCAMMRP, that Standard Condition of Approval or mitigation measure is adopted and incorporated from the 801 Pine Street CEQA Analysis document into the SCAMMRP by reference and adopted as a Condition of Approval. The project applicant and property owner shall be responsible for compliance with the requirements of any submitted and approved technic.al reports, all applicable mitigation measures adopted, and with all Conditions of Approval set forth herein at his/her sole cost and expense, unless otherwise expressly provided in a specific mitigation measure or Condition of Approval, and subject to the review and approval by the City of Oakland. The SCAMMRP identifies the timeframe and responsible party for implementation and monitoring for each Standard Condition of Approval and mitigation measure. Unless otherwise specified, monitoring of compliance with the Standard Conditions of Approval and mitigation measures will be the responsibility of the Bureau of Planning, with overall authority concerning compliance residing with the Environmental Review Officer. Adoption of the SCAMMRP will constitute fulfillment of the CEQA monitoring and/or reporting requirement set forth in section 21081.6 of CEQA.

b. Prior to the issuance of the first construction-related permit, the project applicant shall pay the applicable mitigation and monitoring fee to the City in accordance with the City's Master Fee Schedule.

PROJECT SPECIFIC CONDITIONS

15. **Subsequent Design Review Committee Approval Required for Final Development Plans**
Prior to Building Permit For ~~/or Phase 1 and~~ Each Applicable Subsequent Phase

The applicant shall obtain Design Review approval from the Design Review Committee prior to approval of each FDP, with the exception of the Phase 1 FDP. The applicant will be required to present a project design that, in the discretion of the Design Review Committee, satisfies all applicable Design Review findings that are the subject of this project.

The Phase 1 FDP shall be subject to review by the Design Review Committee following approval by the Planning Commission to resolve design issues identified in the Planning Commission staff report and any other design issues identified by the Planning Commission at the time of Phase 1 FDP approval.

16. **Construction of Supportive and Affordable Housing (Phase 1) of Project Prior to Construction of Subsequent Phases**
The applicant shall construct the Supportive and Affordable Housing portion of the Project (Phase 1) prior to the construction of any other Phase of the project.

17. **Execution and Recordation of Deed Restriction for Supportive and Affordable Housing for Phase 1 Parcel**
Prior to Building Permit/or Phase 1

The applicant shall execute and record a deed restriction on the property requiring that at least 50 units on Parcel 1 (Phase 1) be supportive housing and that at least 51 units on Parcel 1 (Phase 1) be affordable housing for residents making less than 60% of the local AMI. The deed restrictions shall stipulate that they run with the land, and inure to the benefit of, and are binding upon, Parcel 1 property owners and their respective grantees, heirs, successors and assigns.

18. **Subsequent Approval for Shared Access Facility (Driveway) from Departments of Transportation and Fire Required**
Prior to Building Permit for ~~Phase 1~~ Each Phase

The applicant will be required to obtain all necessary approvals from the City's Department of Transportation and Department of Fire with regard to the Shared Access ~~Driveway~~ Facility being proposed. ~~as part of this project.~~ For parking and access to Parcel 1, all necessary approvals must be obtained prior to Building Permit approval for Phase

1. For parking and access for each subsequent phase, all Shared Access Facility approvals shall be obtained prior to Building Permit for each such phase.

19. Improvements-Ongoing

The approval of this development application does not constitute approval of public improvements. It is the applicant's responsibility to seek and service any required permits from the appropriate departments or agencies.

20. Site Remediation

Prior to Building Permit for Each Phase

All site remediation required for Parcel 1 shall be approved and completed ~~as part of Phase 1 of the project.~~ prior to obtaining a Building Permit for Parcel 1. Site remediation for Parcels 2-4 shall be approved and completed prior to Building Permit approval for each Parcel.

21. Public Improvements

All public improvements (on-and off-site) related to the ~~PUD~~ FDP for Parcel 1 shall be constructed ~~as part of Phase I~~ prior to obtaining a Building Permit for Phase 1. This includes the portions of the Stormwater Treatment and Management Plan, Stormwater Detail, Erosion Control Plan, Erosion Detail and Grading and Utility Plan applicable to Parcel 1. All public improvements for Parcels 2-4 shall be constructed prior to obtaining a Building Permit for each subsequent phase for those parcels.

22. Property Maintenance Agreement and On-Going Owner Responsibility

Prior to issuance of a Certificate of Occupancy for the first units in each phase.

Applicants for ~~a~~ the Shared Access Facility (driveway) shown on Tentative Parcel Map #10835, shall submit for approval a binding maintenance agreement for the portion of the Shared Access Facility ~~(driveway)~~ providing access to the relevant parcel. The agreement shall provide for maintenance, parking restrictions and vehicle allocation, landscape, utility and driveway gate maintenance for each separate parcel and shall be required upon completion of each phase of development. Upon City staff approval, the proposed agreement shall be recorded by the applicant within thirty (30) days with the Alameda County Recorder's office. In addition, applicants for a Shared Access Facility shall provide documentation of continuing liability insurance coverage for each separate parcel. Documentation of insurance coverage shall include the written undertaking of each insurer to give the City thirty (30) days' prior written notice of cancellation, termination, or material change of such insurance coverage.

23. Certification

Prior to ~~construction of~~ final inspection for each phase of the Shared Access Facility

Prior to ~~construction of~~ final inspection for each phase of the Shared Access Facility, applicants for each proposed phase shall retain a California registered professional civil engineer to certify, upon completion of the improvements required for each separate parcel that the ~~access facility~~ Shared Access Facility was constructed in accordance with the approved project plans and construction standards. This requirement may be modified or waived at the discretion of the Director of Public Works, based on the topography or geotechnical considerations. Applicants may also be required to show assurance of performance bonding for grading and other associated improvements. In addition, prior to the installation of the landscaping for each phase, applicants shall retain a landscape architect or other qualified individual to certify upon completion that the landscaping was installed in accordance with the project's approved landscape plan.

Applicant Statement
I have read and accept responsibility for the Conditions of Approval. I agree to abide by and conform to the Conditions of Approval, as well as to all provisions of the Oakland Planning Code and Oakland Municipal Code pertaining to the project.

____

Name of Project Applicant

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Signature of Project Applicant

____

Date

____

Decision Memo and Amendments to the Conditions of Approval 11-3-2022 PLN18252.doc

Final Audit Report 2022-11-04

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